Gwent 2.1.0

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Gwent - A Calculator

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- 2. Printing analog cards
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1.1 Overview

Gwent - A Calculator is an Android app (available in Play Store) that enables the user to play the Gwent card game from The Witcher 3: Wild Hunt with analog cards. This is accomplished by providing an easy-to-use interface which allows adding cards with certain attributes that correspond to the cards played analogously. The app then calculates the power score of the player including weather effects and card abilities. To see what this looks like, please visit the Play Store entry!

1.2 Printing analog cards

To actually play Gwent using *Gwent - A Calculator*, you need to print out analog Gwent cards. The card images can be downloaded from the following links:

Language	zip	tar
English	gwent_cards_en.zip	gwent_cards_en.tar.gz
German	gwent_cards_de.zip	gwent_cards_de.tar.gz

Please be aware that the Skellige faction is only available in the german packages! This PDF summarizes in which quantity you need to print which card.

When you installed the app, printed out your deck and found a friend, you are ready to go and can start playing the original Gwent game from The Witcher 3: Wild Hunt.

1.3 Documentation

If you are a developer and interested in improving the app by adding new features or fixing bugs, you are always welcome to open pull requests. An extensive reference specification of the whole app can be found on this website or in this PDF-file.

2 Gwent - A Calculator

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Class Documentation

5.1 Ability Enum Reference

An enum listing the different card abilities possible. Collaboration diagram for Ability:

Ability

Public Attributes

NONE

Represents a card that has no ability.

HORN

Represents a card that has the Commanders Horn ability, e.g.

REVENGE

Represents a card that has the Summon Avenger ability.

BINDING

Represents a card that has the Tight Bond ability.

MORAL BOOST

Represents a card that has the Morale Boost ability.

5.1.1 Detailed Description

An enum listing the different card abilities possible. Definition at line 6 of file Ability.java.

5.1.2 Member Data Documentation

5.1.2.1 BINDING

SINDING

Represents a card that has the Tight Bond ability.

Definition at line 25 of file Ability.java.

Referenced by UnitEntity.UnitEntity(), UnitRepository.insertUnit(), and UnitEntity.setSquad().

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5.1.2.2 HORN

HORN

Represents a card that has the Commanders Horn ability, e.g. Dandelion.

Definition at line 15 of file Ability.java.

5.1.2.3 MORAL BOOST

MORAL_BOOST

Represents a card that has the Morale Boost ability. Definition at line 31 of file Ability.java.

5.1.2.4 NONE

NONE

Represents a card that has no ability. Definition at line 10 of file Ability.java.

5.1.2.5 REVENGE

REVENGE

Represents a card that has the Summon Avenger ability.

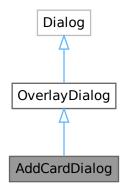
Definition at line 20 of file Ability.java.

The documentation for this enum was generated from the following file:

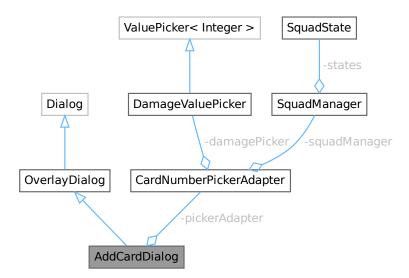
• gwent/data/Ability.java

5.2 AddCardDialog Class Reference

An OverlayDialog used to add new UnitEntity objects to a certain #row. Inheritance diagram for AddCardDialog:



Collaboration diagram for AddCardDialog:



Public Member Functions

- AddCardDialog (@NonNull ShowUnitsDialog caller, @NonNull SoundManager soundManager)
 Constructor of an AddCardDialog called by the given ShowUnitsDialog using the given SoundManager.
- AddCardDialog (@NonNull Context context, @NonNull RowType row, @NonNull SoundManager soundManager)

Constructor of an AddCardDialog in the given Context and for the given row.

Protected Member Functions

void onCreate (Bundle savedInstanceState)
 Initializes the #pickerAdapter if not yet done so and sets View.OnClickListener for each button.

Protected Member Functions inherited from Overlay Dialog

- OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)
 Constructor of an OverlayDialog in the given Context, with the given layout and dismissViewId.
- OverlayDialog (@NonNull Context context, @LayoutRes int layout)

Constructor of an Overlay Dialog in the given Context and with the given layout.

Private Attributes

final RowType row

RowType defining the row the new UnitEntity objects are added to.

final SoundManager soundManager

SoundManager used to play a Sound whenever a card is added.

• final CompositeDisposable disposables = new CompositeDisposable()

CompositeDisposable keeping track of all subscriptions to observables made by this class.

CardNumberPickerAdapter pickerAdapter = null

CardNumberPickerAdapter managing the connection to the NumberPicker views of this Dialog.

Additional Inherited Members

Static Package Attributes inherited from Overlay Dialog

• static final int NO DISMISS VIEW = -1

Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

5.2.1 Detailed Description

An OverlayDialog used to add new UnitEntity objects to a certain #row. Definition at line 22 of file AddCardDialog.java.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 AddCardDialog() [1/2]

Constructor of an AddCardDialog called by the given ShowUnitsDialog using the given SoundManager. Sets a Dialog.OnDismissListener disposing #disposables and showing the caller again. Wrapper of #AddCard
Dialog(Context, RowType, SoundManager).

See also

#AddCardDialog(Context, RowType, SoundManager)

Parameters

caller	ShowUnitsDialog that called this Dialog.
soundManager	SoundManager used to play a Sound when cards are added.

Definition at line 67 of file AddCardDialog.java.

References AddCardDialog.disposables, and AddCardDialog.soundManager.

5.2.2.2 AddCardDialog() [2/2]

Constructor of an AddCardDialog in the given Context and for the given row. Sets a Dialog.OnDismissListener disposing #disposables and showing the caller again.

Parameters

context	Context this Dialog is shown in.
row	RowType defining which row the new UnitEntity objects are added to.
soundManager	SoundManager used to play a Sound when cards are added.

Definition at line 84 of file AddCardDialog.java.

References AddCardDialog.disposables, AddCardDialog.row, and AddCardDialog.soundManager.

5.2.3 Member Function Documentation

5.2.3.1 onCreate()

```
void onCreate (
```

Bundle savedInstanceState) [protected]

Initializes the #pickerAdapter if not yet done so and sets View.OnClickListener for each button.

Parameters

savedInstanceState	If this dialog is being reinitialized after the hosting activity was previously shut down,
	holds the result from the most recent call to <code>onSaveInstanceState</code> , or null if this is
	the first time.

Reimplemented from OverlayDialog.

Definition at line 102 of file AddCardDialog.java.

References CardNumberPickerAdapter.addSelectedUnits(), AddCardDialog.disposables, GwentApplication.getRepository(), AddCardDialog.pickerAdapter, and AddCardDialog.row.

5.2.4 Member Data Documentation

5.2.4.1 disposables

final CompositeDisposable disposables = new CompositeDisposable() [private]

CompositeDisposable keeping track of all subscriptions to observables made by this class.

Is being disposed in an android.content.DialogInterface.OnDismissListener that is set in #AddCardDialog(Show UnitsDialog) and #AddCardDialog(Context, RowType).

See also

and roid. content. Dialog Interface. On Dismiss Listener

#AddCardDialog(ShowUnitsDialog, SoundManager)

#AddCardDialog(Context, RowType, SoundManager)

Definition at line 47 of file AddCardDialog.java.

Referenced by AddCardDialog.AddCardDialog(), AddCardDialog.AddCardDialog.onCreate().

5.2.4.2 pickerAdapter

CardNumberPickerAdapter pickerAdapter = null [private]

CardNumberPickerAdapter managing the connection to the NumberPicker views of this Dialog. Is lazily initialized in #onCreate().

See also

#onCreate(Bundle)

R.id::card layout

Definition at line 57 of file AddCardDialog.java.

Referenced by AddCardDialog.onCreate().

5.2.4.3 row

final RowType row [private]

RowType defining the row the new UnitEntity objects are added to.

Definition at line 27 of file AddCardDialog.java.

Referenced by AddCardDialog.AddCardDialog(), and AddCardDialog.onCreate().

5.2.4.4 soundManager

final SoundManager soundManager [private]

SoundManager used to play a Sound whenever a card is added.

See also

SoundManager::playCardAddSound(RowType, boolean)

Definition at line 35 of file AddCardDialog.java.

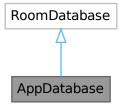
Referenced by AddCardDialog.AddCardDialog(), and AddCardDialog.AddCardDialog().

The documentation for this class was generated from the following file:

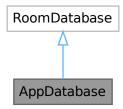
• gwent/ui/dialogs/addcard/AddCardDialog.java

5.3 AppDatabase Class Reference

An abstract class extending RoomDatabase and representing the SQLite database of the application. Inheritance diagram for AppDatabase:



Collaboration diagram for AppDatabase:



Package Functions

• abstract UnitDao units ()

Returns an object implementing the operations defined in UnitDao.

abstract RowDao rows ()

Returns an object implementing the operations defined in RowDao.

5.3.1 Detailed Description

An abstract class extending RoomDatabase and representing the SQLite database of the application. The implementation is generated by the Room framework.

Definition at line 11 of file AppDatabase.java.

5.3.2 Member Function Documentation

5.3.2.1 rows()

```
abstract RowDao rows ( ) [abstract], [package]
```

Returns an object implementing the operations defined in RowDao.

Returns

RowDao implementing DAO for rows table.

Referenced by UnitRepository.clearWeather(), UnitRepository.initializeRows(), UnitRepository.isHorn(), UnitRepository.isHorn(), UnitRepository.isWeather(), UnitRepository.reset(), UnitRepository.switchHorn(), and UnitRepository.switchWeather().

5.3.2.2 units()

```
abstract UnitDao units ( ) [abstract], [package]
```

Returns an object implementing the operations defined in UnitDao.

Returns

UnitDao implementing DAO for units table.

Referenced by UnitRepository.countUnits(), UnitRepository.countUnits(), UnitRepository.delete(), UnitRepository.getUnits(), UnitRepository.getUnits(), UnitRepository.getUnits(), UnitRepository.getUnitsFlowable(), UnitRepository.hasNonEpicUnitsFlowable(), UnitRepository.insertUnit(), and UnitRepository.reset().

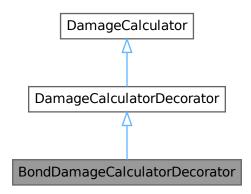
The documentation for this class was generated from the following file:

· gwent/data/AppDatabase.java

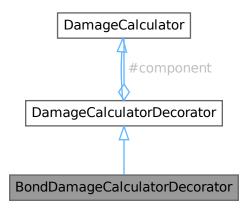
5.4 BondDamageCalculatorDecorator Class Reference

A DamageCalculator class responsible for calculating the tight bond buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::BINDING ability.

Inheritance diagram for BondDamageCalculatorDecorator:



Collaboration diagram for BondDamageCalculatorDecorator:



Public Member Functions

- int calculateDamage (int id, @IntRange(from=0) int damage)
 Calculates the (de-)buffed damage of unit with the given id and the given base-damage.
- · Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

Package Functions

BondDamageCalculatorDecorator (@NonNull DamageCalculator component, @NonNull Map< Integer, Integer > idToSquadSize)

Constructor of a BondDamageCalculatorDecorator.

Package Functions inherited from DamageCalculatorDecorator

DamageCalculatorDecorator (@NonNull DamageCalculator component)

Constructor of a DamageCalculatorDecorator.

Private Attributes

final Map< Integer, Integer > idToSquadSize

A Map mapping the ids of all units with the com.peternaggschga.gwent.data.Ability::BINDING ability to the respective squad size.

Additional Inherited Members

Protected Attributes inherited from DamageCalculatorDecorator

· final DamageCalculator component

A DamageCalculator which is decorated by this decorator.

5.4.1 Detailed Description

A DamageCalculator class responsible for calculating the tight bond buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::BINDING ability.

Acts as a ConcreteDecorator in the implemented decorator pattern and should decorate a WeatherDamage ← Calculator for correct calculation.

Definition at line 17 of file BondDamageCalculatorDecorator.java.

5.4.2 Constructor & Destructor Documentation

5.4.2.1 BondDamageCalculatorDecorator()

Constructor of a BondDamageCalculatorDecorator.

Should only be called by DamageCalculatorBuilder. The given damage calculator should be of type Weather DamageCalculator for correct damage calculation. The values of the given Map must contain non-null or positive Integers.

Parameters

component	DamageCalculator that is being decorated by this decorator.
idToSquadSize	Map mapping the ids of all units with the com.peternaggschga.gwent.data.Ability::BINDING
	ability to the respective squad size.

Exceptions

ſ	IllegalArgumentException	When idToSquadSize contains non-positive or null values.
---	--------------------------	--

See also

DamageCalculatorBuilder

Definition at line 35 of file BondDamageCalculatorDecorator.java.

 $References\ Damage Calculator Decorator. component,\ and\ Bond Damage Calculator Decorator. id To Squad Size.$

5.4.3 Member Function Documentation

5.4.3.1 calculateDamage()

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

Returns the given damage times the number of units with the same squad if the unit has the com.peternaggschga.gwent.data.Ability::B ability.

Parameters

id	Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated.
damage	Integer representing the base-damage of the unit whose (de-)buff damage is calculated.

Returns

Integer representing the (de-)buffed damage of the unit.

Exceptions

IllegalArgumentException	When damage is negative.
--------------------------	--------------------------

Implements DamageCalculator.

Definition at line 54 of file BondDamageCalculatorDecorator.java.

References DamageCalculator.calculateDamage(), DamageCalculatorDecorator.component, and BondDamageCalculatorDecorator.iv

5.4.3.2 isBuffed()

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT. Units are shown as Color::BUFFED when they are in a squad of two or more units, otherwise their Color is defined by #component.

Parameters

id Integer representing the UnitEntity::id of the unit buff status is calculated.

Returns

Color representing whether the unit is buffed, de-buffed or not affected.

See also

Color

Implements DamageCalculator.

Definition at line 72 of file BondDamageCalculatorDecorator.java.

References DamageCalculatorDecorator.component, BondDamageCalculatorDecorator.idToSquadSize, and DamageCalculator.isBuffed().

5.4.4 Member Data Documentation

5.4.4.1 idToSquadSize

```
final Map<Integer, Integer> idToSquadSize [private]
```

A Map mapping the ids of all units with the com.peternaggschga.gwent.data.Ability::BINDING ability to the respective squad size.

Definition at line 22 of file BondDamageCalculatorDecorator.java.

Referenced by BondDamageCalculatorDecorator.BondDamageCalculatorDecorator(), BondDamageCalculatorDecorator.calculateDatand BondDamageCalculatorDecorator.isBuffed().

The documentation for this class was generated from the following file:

• gwent/domain/damage/BondDamageCalculatorDecorator.java

5.5 BurnDialogUseCase Class Reference

A use case class responsible for dispatching a remove call to RemoveUnitsUseCase. Collaboration diagram for BurnDialogUseCase:

BurnDialogUseCase

Static Public Member Functions

static Single < Boolean > burn (@NonNull Context context, @NonNull SoundManager soundManager)
 Burns the strongest UnitEntity objects in UnitRepository.

Static Protected Member Functions

static Single < Boolean > burn (@NonNull Context context, @NonNull UnitRepository repository, @NonNull SoundManager soundManager)

Burns the strongest UnitEntity objects in UnitRepository.

Static Private Member Functions

static Single < List < UnitEntity > > getBurnUnits (@NonNull UnitRepository repository)
 Returns the list of units that would be affected by a burn operation.

5.5.1 Detailed Description

A use case class responsible for dispatching a remove call to RemoveUnitsUseCase. Definition at line 28 of file BurnDialogUseCase.java.

5.5.2 Member Function Documentation

5.5.2.1 burn() [1/2]

```
static Single< Boolean > burn (
          @NonNull Context context,
          @NonNull SoundManager soundManager ) [static]
```

Burns the strongest UnitEntity objects in UnitRepository.

Invokes a Dialog asking whether the user really wants to remove those units. ResetRepositoryUseCase is used for resetting. Wrapper for #burn(Context, UnitRepository).

Parameters

context	Context where a Dialog can be inflated.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Single emitting a Boolean defining whether the units really were burned.

See also

```
#burn(Context, UnitRepository, SoundManager)
```

RemoveUnitsUseCase::remove(Context, UnitRepository, Collection, SoundManager)

Definition at line 85 of file BurnDialogUseCase.java.

References BurnDialogUseCase.burn(), and GwentApplication.getRepository().

Referenced by BurnDialogUseCase.burn().

5.5.2.2 burn() [2/2]

```
static Single< Boolean > burn (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     @NonNull SoundManager soundManager ) [static], [protected]
```

Burns the strongest UnitEntity objects in UnitRepository.

Invokes a Dialog asking whether the user really wants to remove those units. ResetRepositoryUseCase is used for resetting.

Parameters

context	Context where a Dialog can be inflated.
repository	UnitRepository where units are burned.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Single emitting a Boolean defining whether the units really were burned.

See also

RemoveUnitsUseCase::remove(Context, UnitRepository, Collection, SoundManager)

Definition at line 101 of file BurnDialogUseCase.java. References BurnDialogUseCase.getBurnUnits().

5.5.2.3 getBurnUnits()

Returns the list of units that would be affected by a burn operation.

The returned list may be empty.

Parameters

	repository	UnitRepository where units are fetched.
--	------------	---

Returns

A Single emitting the List of UnitEntity objects that would be affected by the operation.

Definition at line 37 of file BurnDialogUseCase.java.

References DamageCalculatorUseCase.getDamageCalculator().

Referenced by BurnDialogUseCase.burn().

The documentation for this class was generated from the following file:

· gwent/domain/cases/BurnDialogUseCase.java

5.6 ResetAlertDialogBuilderAdapter.Callback Interface Reference

An interface defining functions to propagate the user's decision back to the creator. Collaboration diagram for ResetAlertDialogBuilderAdapter.Callback:

ResetAlertDialogBuilderAdapter. Callback

Public Member Functions

void reset (boolean resetDecision, boolean keepUnit)

Called when the user makes a decision.

· default void reset (boolean resetDecision)

Wrapper for #reset(boolean, boolean).

5.6.1 Detailed Description

An interface defining functions to propagate the user's decision back to the creator. Definition at line 98 of file ResetAlertDialogBuilderAdapter.java.

5.6.2 Member Function Documentation

5.6.2.1 reset() [1/2]

```
default void reset (
                boolean resetDecision )
```

Wrapper for #reset(boolean, boolean).

Can be used when the AlertDialog is not a monster dialog since it calls #reset(boolean, boolean) without keeping a unit

Parameters

an defining whether the user has confirmed the reset.

See also

#reset(boolean, boolean)

Definition at line 117 of file ResetAlertDialogBuilderAdapter.java. References ResetAlertDialogBuilderAdapter.Callback.reset().

5.6.2.2 reset() [2/2]

Called when the user makes a decision.

When the AlertDialog is a monster dialog, #reset(boolean) can be used.

Parameters

resetDecision	Boolean defining whether the user has confirmed the reset.
keepUnit	Boolean defining whether a random unit should be kept when resetting.

See also

#reset(boolean)

Referenced by ResetAlertDialogBuilderAdapter.ResetAlertDialogBuilderAdapter(), ResetAlertDialogBuilderAdapter.Callback.reset(), and ResetAlertDialogBuilderAdapter.setMonsterDialog().

The documentation for this interface was generated from the following file:

· gwent/domain/cases/ResetAlertDialogBuilderAdapter.java

5.7 ChangeFactionDialog.Callback Interface Reference

An interface used for propagating a selected theme back to the creator of a ChangeFactionDialog.

Collaboration diagram for ChangeFactionDialog.Callback:

ChangeFactionDialog.Callback

Public Member Functions

• void onThemeSelect (@IntRange(from=THEME_MONSTER, to=THEME_SCOIATAEL) int theme)

Callback being called when a theme is selected in the respective ChangeFactionDialog.

5.7.1 Detailed Description

An interface used for propagating a selected theme back to the creator of a ChangeFactionDialog. Definition at line 84 of file ChangeFactionDialog.java.

5.7.2 Member Function Documentation

5.7.2.1 onThemeSelect()

```
void onThemeSelect (
    @IntRange(from=THEME_MONSTER, to=THEME_SCOIATAEL) int theme )
Callback being called when a theme is selected in the respective ChangeFactionDialog.
```

Parameters

theme	Integer representing the selected theme.
-------	--

Referenced by ChangeFactionDialog.getOnThemeClickListener().

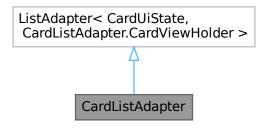
The documentation for this interface was generated from the following file:

• gwent/ui/dialogs/ChangeFactionDialog.java

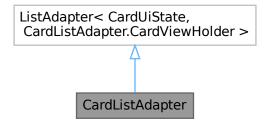
5.8 CardListAdapter Class Reference

A ListAdapter used to provide CardListAdapter.CardViewHolder objects created from CardUiState objects to a RecyclerView.

Inheritance diagram for CardListAdapter:



Collaboration diagram for CardListAdapter:



Classes

· class CardViewHolder

A RecyclerView.ViewHolder class managing a card view that shows a representation of the UnitEntity referenced by #itemId.

Public Member Functions

• CardViewHolder onCreateViewHolder (@NonNull ViewGroup parent, int viewType)

Creates a new CardViewHolder managing a new card view that is inflated from the given parent.

• void onBindViewHolder (@NonNull CardViewHolder holder, @IntRange(from=0) int position)

Changes the views of CardViewHolder to represent the item at the given position.

• long getItemId (@IntRange(from=0) int position)

Returns the UnitEntity::id of the UnitEntity represented at the given position.

Package Functions

• CardListAdapter (@NonNull Consumer < Integer > onCopy, @NonNull Consumer < Integer > onRemove)

Constructor of a CardListAdapter with the given #onCopy and #onRemove callbacks.

Private Attributes

final Consumer < Integer > onCopy

Consumer that is used in #onCreateViewHolder(ViewGroup, int) as CardListAdapter.CardViewHolder::onCopy.

• final Consumer< Integer > onRemove

Consumer that is used in #onCreateViewHolder(ViewGroup, int) as CardListAdapter.CardViewHolder::onRemove.

5.8.1 Detailed Description

A ListAdapter used to provide CardListAdapter.CardViewHolder objects created from CardUiState objects to a RecyclerView.

See also

CardUiState

CardListAdapter.CardViewHolder

ListAdapter

RecyclerView

Definition at line 28 of file CardListAdapter.java.

5.8.2 Constructor & Destructor Documentation

5.8.2.1 CardListAdapter()

```
CardListAdapter (
     @NonNull Consumer< Integer > onCopy,
     @NonNull Consumer< Integer > onRemove ) [package]
```

Constructor of a CardListAdapter with the given #onCopy and #onRemove callbacks.

Calls super-constructor ListAdapter::ListAdapter(DiffUtil.ItemCallback) with CardUiState::DIFF_CALLBACK. Also calls #setHasStableIds() since #getItemId() returns the stable UnitEntity::id.

See also

ListAdapter::ListAdapter(DiffUtil.ItemCallback)

CardUiState::DIFF_CALLBACK #setHasStableIds(boolean)

Parameters

onCopy	Consumer that is called with the UnitEntity::id, when the copy-button of the representing card is clicked.	
onRemove	Consumer that is called with the UnitEntity::id, when the delete-button of the representing card is clicked.	

Definition at line 65 of file CardListAdapter.java.

References CardUiState.DIFF_CALLBACK, CardListAdapter.onCopy, and CardListAdapter.onRemove.

5.8.3 Member Function Documentation

5.8.3.1 getItemId()

```
long getItemId (
     @IntRange(from=0) int position )
```

Returns the UnitEntity::id of the UnitEntity represented at the given position.

Parameters

position	Adapter position to query.

Returns

A Long referencing the UnitEntity::id of the UnitEntity represented at the given position.

Definition at line 122 of file CardListAdapter.java.

5.8.3.2 onBindViewHolder()

```
void onBindViewHolder (
    @NonNull CardViewHolder holder,
    @IntRange(from=0) int position )
```

Changes the views of CardViewHolder to represent the item at the given position.

Parameters

holder	The CardViewHolder which should be updated to represent the contents of the item at the given position in the data set.
position	The position of the item within the adapter's data set.

Definition at line 93 of file CardListAdapter.java.

References CardUiState.getAbilityImageId(), CardUiState.getDamageBackgroundImageId(), CardUiState.getDamageString(), CardUiState.getDamageTextColor(), CardUiState.getSquadString(), CardUiState.getUnitId(), CardUiState.showAbility(), and CardUiState.showSquad().

5.8.3.3 onCreateViewHolder()

```
CardViewHolder onCreateViewHolder (
    @NonNull ViewGroup parent,
    int viewType )
```

Creates a new CardViewHolder managing a new card view that is inflated from the given parent.

Parameters

parent	The ViewGroup into which the new View will be added after it is bound to an adapter position.
viewType	The view type of the new View.

Returns

A CardViewHolder object for a new card layout and with #onCopy and #onRemove callbacks.

Definition at line 81 of file CardListAdapter.java.

References CardListAdapter.onCopy, and CardListAdapter.onRemove.

5.8.4 Member Data Documentation

5.8.4.1 onCopy

```
final Consumer<Integer> onCopy [private]
```

Consumer that is used in #onCreateViewHolder(ViewGroup, int) as CardListAdapter.CardViewHolder::onCopy. Is called when the user clicks on the copy-button of an element with the UnitEntity::id of the represented UnitEntity.

See also

#onCreateViewHolder(ViewGroup, int)
CardListAdapter.CardViewHolder::onCopy

Definition at line 39 of file CardListAdapter.java.

Referenced by CardListAdapter.CardListAdapter(), CardListAdapter.CardViewHolder.CardViewHolder(), and CardListAdapter.onCreateViewHolder().

5.8.4.2 onRemove

final Consumer<Integer> onRemove [private]

Consumer that is used in #onCreateViewHolder(ViewGroup, int) as CardListAdapter.CardViewHolder::onRemove. Is called when the user clicks on the delete-button of an element with the UnitEntity::id of the represented UnitEntity.

See also

#onCreateViewHolder(ViewGroup, int)

CardListAdapter.CardViewHolder::onRemove

Definition at line 50 of file CardListAdapter.java.

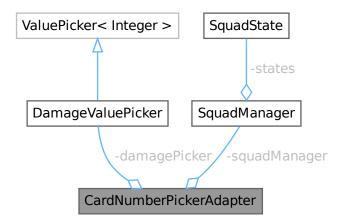
Referenced by CardListAdapter.CardListAdapter(), CardListAdapter.CardViewHolder.CardViewHolder(), and CardListAdapter.onCreateViewHolder().

The documentation for this class was generated from the following file:

· gwent/ui/dialogs/cards/CardListAdapter.java

5.9 CardNumberPickerAdapter Class Reference

A helper class responsible for initializing the NumberPicker views of an AddCardDialog (in #CardNumperPicker Adapter()) and adding UnitEntity objects with the selected attributes when #addSelectedUnits() is called. Collaboration diagram for CardNumberPickerAdapter:



Package Functions

- CardNumberPickerAdapter (@NonNull ViewGroup pickerGroup, @NonNull SquadManager squadManager)
 Constructor of a CardNumberPickerAdapter managing the NumberPicker views in the given ViewGroup using the given SquadManager.
- Single < Boolean > addSelectedUnits (@NonNull RowType row)
 Adds new UnitEntity objects the attributes selected by the managed pickers.

Static Package Functions

• static NumberPicker.OnValueChangeListener getDelayedOnValueChangeListener (@NonNull Number ← Picker.OnValueChangeListener originalListener)

Creates a NumberPicker.OnValueChangeListener that only executes the given NumberPicker.OnValueChange← Listener after 500 ms if the value has not changed.

Private Attributes

final ValuePicker < Boolean > epicPicker

ValuePicker used to decide the value of UnitEntity::epic.

• final DamageValuePicker damagePicker

DamageValuePicker used to decide the value of UnitEntity::damage.

final ValuePicker
 Ability > abilityPicker

ValuePicker used to decide the value of UnitEntity::ability.

• final NumberPicker squadPicker

NumberPicker used to decide the value of UnitEntity::squad.

· final SquadManager squadManager

SquadManager containing current SquadState used to get squad information.

• final NumberPicker numberPicker

NumberPicker used to decide the number of UnitEntity objects that are inserted.

Static Private Attributes

static final List< Ability > EPIC_UNIT_ABILITIES = Arrays.asList(Ability.NONE, Ability.HORN, Ability.

MORAL BOOST)

List of Ability values that epic units can have.

5.9.1 Detailed Description

A helper class responsible for initializing the NumberPicker views of an AddCardDialog (in #CardNumperPicker ← Adapter()) and adding UnitEntity objects with the selected attributes when #addSelectedUnits() is called.

See also

AddCardDialog

Definition at line 33 of file CardNumberPickerAdapter.java.

5.9.2 Constructor & Destructor Documentation

5.9.2.1 CardNumberPickerAdapter()

```
CardNumberPickerAdapter (
          @NonNull ViewGroup pickerGroup,
          @NonNull SquadManager squadManager ) [package]
```

Constructor of a CardNumberPickerAdapter managing the NumberPicker views in the given ViewGroup using the given SquadManager.

Sets value bounds and NumberPicker.OnValueChangedListener for the pickers in the ViewGroup. The ViewGroup must be the ConstraintLayout with the id R.id::card_layout from popup_add_card.xml.

See also

R.id::card_layout

Parameters

pickerGroup	ViewGroup containing the managed NumberPicker views.
squadManager	SquadManager containing up-to-date SquadState.

Definition at line 89 of file CardNumberPickerAdapter.java.

References CardNumberPickerAdapter.abilityPicker, CardNumberPickerAdapter.damagePicker, CardNumberPickerAdapter.EPIC_UN CardNumberPickerAdapter.epicPicker, CardNumberPickerAdapter.getDelayedOnValueChangeListener(), SquadManager.getFirstSquSquadManager.mAX_NR_SQUADS, CardNumberPickerAdapter.numberPicker, SquadManager.onSquadChanged(), DamageValuePicker.setEpicValues(), CardNumberPickerAdapter.squadManager, and CardNumberPickerAdapter.squadPicker.

5.9.3 Member Function Documentation

5.9.3.1 addSelectedUnits()

```
Single< Boolean > addSelectedUnits (
     @NonNull RowType row ) [package]
```

Adds new UnitEntity objects the attributes selected by the managed pickers.

Parameters

row RowType defining to which row the units are added.

Returns

A Single tracking operation status and containing whether the added unit is epic or not.

Definition at line 166 of file CardNumberPickerAdapter.java.

References CardNumberPickerAdapter.abilityPicker, CardNumberPickerAdapter.damagePicker, CardNumberPickerAdapter.epicPickerSquadManager.getFirstSquadWithMembers(), GwentApplication.getRepository(), DamageValuePicker.getValue(), CardNumberPickerAdapter.numberPicker, CardNumberPickerAdapter.squadManager, and CardNumberPickerAdapter.squadPicker. Referenced by AddCardDialog.onCreate().

5.9.3.2 getDelayedOnValueChangeListener()

```
static NumberPicker.OnValueChangeListener getDelayedOnValueChangeListener (
    @NonNull NumberPicker.OnValueChangeListener originalListener) [static], [package]
```

Creates a NumberPicker.OnValueChangeListener that only executes the given NumberPicker.OnValueChange ← Listener after 500 ms if the value has not changed.

See also

NumberPicker.OnValueChangeListener

Parameters

originalListener	NumberPicker.OnValueChangeListener that is called when the value does not change.
------------------	---

Returns

A NumberPicker.OnValueChangeListener with delayed execution.

Definition at line 152 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter().

5.9.4 Member Data Documentation

5.9.4.1 abilityPicker

 $\label{thm:continuity} final \ \mbox{ValuePicker} \ \ \mbox{Cability} > \ ability \mbox{Picker} \ \mbox{[private]} \\ \mbox{ValuePicker used to decide the value of UnitEntity::ability.} \\$

See also

#squadPicker

Definition at line 58 of file CardNumberPickerAdapter.java.

 $Referenced\ by\ CardNumber Picker Adapter. CardNumber Picker Adapter. (),\ and\ CardNumber Picker Adapter. add Selected Units ().$

5.9.4.2 damagePicker

final DamageValuePicker damagePicker [private]

DamageValuePicker used to decide the value of UnitEntity::damage.

Definition at line 50 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), and CardNumberPickerAdapter.addSelectedUnits().

5.9.4.3 EPIC_UNIT_ABILITIES

final List<Ability> EPIC_UNIT_ABILITIES = Arrays.asList(Ability.NONE, Ability.HORN, Ability.↔ MORAL_BOOST) [static], [private]

List of Ability values that epic units can have.

Definition at line 38 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter().

5.9.4.4 epicPicker

final ValuePicker<Boolean> epicPicker [private]

ValuePicker used to decide the value of UnitEntity::epic.

Definition at line 44 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter.addSelectedUnits().

5.9.4.5 numberPicker

final NumberPicker numberPicker [private]

NumberPicker used to decide the number of UnitEntity objects that are inserted.

Definition at line 78 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), and CardNumberPickerAdapter.addSelectedUnits().

5.9.4.6 squadManager

final SquadManager squadManager [private]

SquadManager containing current SquadState used to get squad information.

Definition at line 72 of file CardNumberPickerAdapter.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), and CardNumberPickerAdapter.addSelectedUnits().

5.9.4.7 squadPicker

final NumberPicker squadPicker [private]

NumberPicker used to decide the value of UnitEntity::squad.

Only visible if the value of #abilityPicker is set to Ability::BINDING.

See also

#abilityPicker

Definition at line 66 of file CardNumberPickerAdapter.java.

 $Referenced\ by\ CardNumber Picker Adapter. CardNumber Picker Adapter. (),\ and\ CardNumber Picker Adapter. add Selected Units ().$

The documentation for this class was generated from the following file:

gwent/ui/dialogs/addcard/CardNumberPickerAdapter.java

5.10 CardUiState Class Reference

A data class encapsulating the visible state of a card in the card list shown by the ShowUnitsDialog.

Collaboration diagram for CardUiState:

CardUiState

Public Member Functions

 CardUiState (int unitId, @DrawableRes int damageBackgroundImageId, @IntRange(from=UNUSED) int damage, @ColorInt int damageTextColor, @DrawableRes int abilityImageId, @Nullable @IntRange(from=1) Integer squad)

Constructor of a CardUiState encapsulating the given data.

boolean showAbility ()

Returns whether the ability view is shown, i.e., if the unit has an ability other than Ability::NONE.

• boolean showSquad ()

Returns whether the squad view is shown, i.e., if the unit has the Ability::BINDING ability.

· int getUnitId ()

Returns the #unitId of the represented UnitEntity.

int getDamageBackgroundImageId ()

Returns the drawable resource shown as the background of the damage view.

• String getDamageString ()

Returns the String shown in the damage view.

int getDamageTextColor ()

Returns the text color of the damage view.

• int getAbilityImageId ()

Returns the drawable resource shown in the ability view.

• String getSquadString ()

Returns the String shown in the squad view.

• boolean equals (Object o)

 ${\it Checks whether the given Object looks the same as this CardUiState}.$

Static Public Attributes

• static final DiffUtil.ItemCallback< CardUiState > DIFF_CALLBACK

DiffUtil.ItemCallback used to compare different CardUiState objects in a ListAdapter, e.g., CardListAdapter.

• static final int UNUSED = -1

Integer that is used instead of a drawable resource to indicate the absence of a meaningful #abilityImage.

Private Attributes

· final int unitld

Integer referencing the UnitEntity::id of the represented UnitEntity.

• final int damageBackgroundImageId

Integer referencing the drawable resource shown as the background of the damage view.

· final String damageString

String containing the number shown in the damage view or nothing if the represented UnitEntity is epic.

· final int damageTextColor

Integer representing the text color of the damage view.

· final int abilityImageId

Integer referencing the drawable resource shown in the ability view.

· final String squadString

String containing the number shown in the squad view.

5.10.1 Detailed Description

A data class encapsulating the visible state of a card in the card list shown by the ShowUnitsDialog. Can be created from the represented UnitEntity using CardUiStateFactory.

See also

CardUiStateFactory

ShowUnitsDialog

Definition at line 24 of file CardUiState.java.

5.10.2 Constructor & Destructor Documentation

5.10.2.1 CardUiState()

Constructor of a CardUiState encapsulating the given data.

Parameters

unitld	Integer representing the UnitEntity::id of the represented UnitEntity.
damageBackground← ImageId	Integer referencing the drawable resource shown by the damage view.
damage	Integer representing the damage of the represented UnitEntity.
damageTextColor	Integer representing the text color of the damage view.
abilityImageId	Integer referencing the drawable resource shown by the ability image view or #UNUSED.
squad	Integer representing the UnitEntity::squad of the represented UnitEntity.

Exceptions

1	IllegalArgumentException	When damage is less than #UNUSED or squad is neither null nor greater than zero.	
---	--------------------------	--	--

See also

CardUiStateFactory::createCardUiState(UnitEntity, DamageCalculator)

Definition at line 108 of file CardUiState.java.

References CardUiState.abilityImageId, CardUiState.damageBackgroundImageId, CardUiState.damageTextColor, CardUiState.unitId, and CardUiState.UNUSED.

5.10.3 Member Function Documentation

5.10.3.1 equals()

```
boolean equals (
```

```
Object o )
```

Checks whether the given Object looks the same as this CardUiState.

Does not compare #unitId since that field does not influence the visual representation of CardUiState objects.

Parameters

o Object that is being compared with this CardUiState.

Returns

A Boolean defining whether the objects look the same.

Definition at line 212 of file CardUiState.java.

References CardUiState.abilityImageId, CardUiState.damageBackgroundImageId, CardUiState.damageString, CardUiState.damageTextColor, CardUiState.equals(), and CardUiState.squadString.

Referenced by CardUiState.equals().

5.10.3.2 getAbilityImageId()

```
int getAbilityImageId ( )
```

Returns the drawable resource shown in the ability view.

Returns

An Integer referencing a drawable resource.

See also

#abilityImageId

#showAbility()

Definition at line 189 of file CardUiState.java.

References CardUiState.abilityImageId.

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.3 getDamageBackgroundImageId()

```
int getDamageBackgroundImageId ( )
```

Returns the drawable resource shown as the background of the damage view.

Returns

An Integer referencing a drawable resource.

See also

#damageBackgroundImageId

Definition at line 158 of file CardUiState.java.

 $References\ Card Ui State. damage Background Imageld.$

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.4 getDamageString()

```
String getDamageString ( )
```

Returns the String shown in the damage view.

Returns

A String containing the damage of the represented UnitEntity or nothing if the unit is empty.

See also

#damageString

Definition at line 168 of file CardUiState.java.

References CardUiState.damageString.

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.5 getDamageTextColor()

```
int getDamageTextColor ( )
```

Returns the text color of the damage view.

Returns

An Integer representing a color.

See also

#damageTextColor

Definition at line 178 of file CardUiState.java.

References CardUiState.damageTextColor.

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.6 getSquadString()

```
String getSquadString ( )
```

Returns the String shown in the squad view.

Returns

A String containing the squad of the represented UnitEntity or nothing.

See also

#squadString

#showSquad()

Definition at line 200 of file CardUiState.java.

References CardUiState.squadString.

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.7 getUnitId()

```
int getUnitId ( )
```

Returns the #unitId of the represented UnitEntity.

See also

#unitld

Returns

An Integer referencing the UnitEntity::id of the represented UnitEntity.

Definition at line 148 of file CardUiState.java.

References CardUiState.unitId.

Referenced by CardListAdapter.onBindViewHolder().

5.10.3.8 showAbility()

```
boolean showAbility ( )
```

Returns whether the ability view is shown, i.e., if the unit has an ability other than Ability::NONE.

Returns

A Boolean defining whether the ability view is shown.

Definition at line 130 of file CardUiState.java.

References CardUiState.abilityImageId, and CardUiState.UNUSED.

 $Referenced \ by \ CardListAdapter. on BindViewHolder(), \ and \ CardUiState. show Squad().$

5.10.3.9 showSquad()

```
boolean showSquad ( )
```

Returns whether the squad view is shown, i.e., if the unit has the Ability::BINDING ability.

Returns

A Boolean defining whether the squad view is shown.

Definition at line 139 of file CardUiState.java.

References CardUiState.showAbility(), and CardUiState.squadString.

Referenced by CardListAdapter.onBindViewHolder().

5.10.4 Member Data Documentation

5.10.4.1 abilitylmageld

```
final int abilityImageId [private]
```

Integer referencing the drawable resource shown in the ability view.

May be #UNUSED if the view is not visible.

See also

#UNUSED

#getAbilityImageId()

Definition at line 88 of file CardUiState.java.

Referenced by CardUiState.CardUiState(), CardUiState.equals(), CardUiState.getAbilityImageId(), and CardUiState.showAbility().

5.10.4.2 damageBackgroundImageId

final int damageBackgroundImageId [private]

Integer referencing the drawable resource shown as the background of the damage view.

See also

#getDamageBackgroundImageId()

Definition at line 64 of file CardUiState.java.

Referenced by CardUiState.CardUiState(), CardUiState.equals(), and CardUiState.getDamageBackgroundImageId().

5.10.4.3 damageString

```
final String damageString [private]
```

String containing the number shown in the damage view or nothing if the represented UnitEntity is epic.

See also

#getDamageString()

Definition at line 72 of file CardUiState.java.

Referenced by CardUiState.equals(), and CardUiState.getDamageString().

5.10.4.4 damageTextColor

```
final int damageTextColor [private]
```

Integer representing the text color of the damage view.

See also

#getDamageTextColor()

Definition at line 79 of file CardUiState.java.

Referenced by CardUiState.CardUiState(), CardUiState.equals(), and CardUiState.getDamageTextColor().

5.10.4.5 DIFF_CALLBACK

DiffUtil.ItemCallback used to compare different CardUiState objects in a ListAdapter, e.g., CardListAdapter.

See also

#unitld

#equals(Object)

Definition at line 33 of file CardUiState.java.

Referenced by CardListAdapter.CardListAdapter().

5.10.4.6 squadString

```
final String squadString [private]
```

String containing the number shown in the squad view.

See also

#getSquadString()

Definition at line 95 of file CardUiState.java.

Referenced by CardUiState.equals(), CardUiState.getSquadString(), and CardUiState.showSquad().

5.10.4.7 unitld

```
final int unitId [private]
```

Integer referencing the UnitEntity::id of the represented UnitEntity.

The only member that is not shown in the UI.

See also

#getUnitId()

Definition at line 57 of file CardUiState.java.

 $Referenced\ by\ CardUiState. CardUiState(),\ and\ CardUiState. getUnitId().$

5.10.4.8 UNUSED

```
final int UNUSED = -1 [static]
```

Integer that is used instead of a drawable resource to indicate the absence of a meaningful #abilityImage.

See also

#abilityImageId

Definition at line 50 of file CardUiState.java.

Referenced by CardUiState.CardUiState(), CardUiStateFactory.createCardUiState(), and CardUiState.showAbility(). The documentation for this class was generated from the following file:

· gwent/ui/dialogs/cards/CardUiState.java

5.11 CardUiStateFactory Class Reference

A factory class responsible for creating CardUiState objects from UnitEntity objects. Collaboration diagram for CardUiStateFactory:

CardUiStateFactory

Public Member Functions

• CardUiStateFactory (@NonNull Context context, boolean weather, boolean horn)

Constructor of a CardUiStateFactory for a row with the given weather and horn (de-)buff values.

List < CardUiState > createCardUiState (@NonNull Collection < UnitEntity > units)

Creates a List of CardUiState objects from the given List of UnitEntity objects.

• CardUiState createCardUiState (@NonNull UnitEntity unit, @NonNull DamageCalculator calculator)

Creates a CardUiState from the given UnitEntity.

Private Attributes

· final boolean weather

Boolean defining the status of the weather debuff in the row for which CardUiState objects are created.

final boolean horn

Boolean defining the status of the horn buff in the row for which CardUiState objects are created.

final Map< Color, Integer > damageTextColors = new HashMap<>(Color.values().length)

Map containing a color integer for each Color value possible, i.e., Color::DEFAULT, Color::BUFFED, and Color::← DEBUFFED.

5.11.1 Detailed Description

A factory class responsible for creating CardUiState objects from UnitEntity objects.

See also

CardUiState

Definition at line 28 of file CardUiStateFactory.java.

5.11.2 Constructor & Destructor Documentation

5.11.2.1 CardUiStateFactory()

```
CardUiStateFactory (
     @NonNull Context context,
     boolean weather,
     boolean horn )
```

Constructor of a CardUiStateFactory for a row with the given weather and horn (de-)buff values.

The Context parameter is used to retrieve the color values saved in #damageTextColors.

Parameters

context	Context object used to get colors.
weather	Boolean defining whether the weather debuff is active.
horn	Boolean defining whether the horn buff is active.

See also

Context::getColor(int)

Definition at line 58 of file CardUiStateFactory.java.

References CardUiStateFactory.damageTextColors, CardUiStateFactory.horn, and CardUiStateFactory.weather.

5.11.3 Member Function Documentation

5.11.3.1 createCardUiState() [1/2]

Creates a List of CardUiState objects from the given List of UnitEntity objects.

Basically calls #createCardUiState(UnitEntity, DamageCalculator) for each given UnitEntity.

See also

#createCardUiState(UnitEntity, DamageCalculator)

Parameters

Returns

A List of CardUiState objects from the given UnitEntity objects.

Definition at line 74 of file CardUiStateFactory.java.

References CardUiStateFactory.createCardUiState(), CardUiStateFactory.horn, and CardUiStateFactory.weather. Referenced by CardUiStateFactory.createCardUiState().

5.11.3.2 createCardUiState() [2/2]

```
CardUiState createCardUiState (
          @NonNull UnitEntity unit,
          @NonNull DamageCalculator calculator )
```

Creates a CardUiState from the given UnitEntity.

See also

#createCardUiState(Collection)

Parameters

unit	UnitEntity that is converted to a CardUiState.
calculator	DamageCalculator used to calculate damage and Color of the given UnitEntity.

Returns

A CardUiState obtained from the given UnitEntity.

Definition at line 89 of file CardUiStateFactory.java.

References CardUiStateFactory.damageTextColors, and CardUiState.UNUSED.

5.11.4 Member Data Documentation

5.11.4.1 damageTextColors

```
final Map<Color, Integer> damageTextColors = new HashMap<>(Color.values().length) [private]
```

Map containing a color integer for each Color value possible, i.e., Color::DEFAULT, Color::BUFFED, and Color::← DEBUFFED.

Definition at line 46 of file CardUiStateFactory.java.

Referenced by CardUiStateFactory.CardUiStateFactory(), and CardUiStateFactory.createCardUiState().

5.11.4.2 horn

final boolean horn [private]

Boolean defining the status of the horn buff in the row for which CardUiState objects are created.

Definition at line 39 of file CardUiStateFactory.java.

Referenced by CardUiStateFactory.CardUiStateFactory(), and CardUiStateFactory.createCardUiState().

5.11.4.3 weather

final boolean weather [private]

Boolean defining the status of the weather debuff in the row for which CardUiState objects are created. Definition at line 33 of file CardUiStateFactory.java.

Referenced by CardUiStateFactory.CardUiStateFactory(), and CardUiStateFactory.createCardUiState().

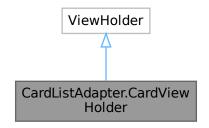
The documentation for this class was generated from the following file:

• gwent/ui/dialogs/cards/CardUiStateFactory.java

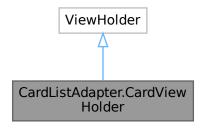
5.12 CardListAdapter.CardViewHolder Class Reference

A RecyclerView.ViewHolder class managing a card view that shows a representation of the UnitEntity referenced by #itemId.

Inheritance diagram for CardListAdapter.CardViewHolder:



Collaboration diagram for CardListAdapter.CardViewHolder:



Package Functions

• CardViewHolder (@NonNull View itemView, @NonNull Consumer< Integer > onCopy, @NonNull Consumer< Integer > onRemove)

Constructor of a CardViewHolder for the given View initializing #damageView, #abilityView, and #bindingView.

• TextView getDamageView ()

Returns the #damageView of the managed View.

ImageView getAbilityView ()

Returns the #abilityView of the managed View.

• TextView getBindingView ()

Returns the #bindingView of the managed View.

• void setItemId (int itemId)

Sets the #unitId of this ViewHolder.

Private Attributes

• final TextView damageView

TextView showing the (de-)buffed damage of the represented UnitEntity.

• final ImageView abilityView

ImageView showing an image of the UnitEntity::ability of the represented UnitEntity.

· final TextView bindingView

TextView showing the UnitEntity::squad of the represented UnitEntity if UnitEntity::squad is Ability::BINDING.

• int itemId = (int) NO_ID

Integer referencing the UnitEntity::id of the represented UnitEntity.

5.12.1 Detailed Description

A RecyclerView. ViewHolder class managing a card view that shows a representation of the UnitEntity referenced by #itemId.

See also

RecyclerView.ViewHolder

Definition at line 131 of file CardListAdapter.java.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 CardViewHolder()

```
CardViewHolder (
     @NonNull View itemView,
     @NonNull Consumer< Integer > onCopy,
     @NonNull Consumer< Integer > onRemove ) [package]
```

Constructor of a CardViewHolder for the given View initializing #damageView, #abilityView, and #bindingView. Sets View.OnClickListener on copy-button and delete-button calling the given onCopy and onRemove callbacks with #unitld.

Parameters

itemView	View with the card layout.
onCopy	Consumer that is called with #unitld, when the copy-button of the given View is clicked.
onRemove	Consumer that is called with #unitld, when the delete-button of the given View is clicked.

Definition at line 173 of file CardListAdapter.java.

References CardListAdapter.CardViewHolder.abilityView, CardListAdapter.CardViewHolder.bindingView, CardListAdapter.CardViewHolder.itemId, CardListAdapter.onCopy, and CardListAdapter.onRemove.

5.12.3 Member Function Documentation

5.12.3.1 getAbilityView()

```
ImageView getAbilityView ( ) [package] Returns the #abilityView of the managed View.
```

Returns

An ImageView showing the UnitEntity::ability of the represented UnitEntity.

See also

#abilityView

Definition at line 211 of file CardListAdapter.java. References CardListAdapter.CardViewHolder.abilityView.

5.12.3.2 getBindingView()

```
TextView getBindingView ( ) [package] Returns the #bindingView of the managed View.
```

Returns

A TextView showing the UnitEntity::squad of the represented UnitEntity.

See also

#bindingView

Definition at line 221 of file CardListAdapter.java. References CardListAdapter.CardViewHolder.bindingView.

5.12.3.3 getDamageView()

```
TextView getDamageView ( ) [package] Returns the #damageView of the managed View.
```

Returns

A TextView showing the damage of the represented UnitEntity.

See also

#damageView

Definition at line 201 of file CardListAdapter.java.

References CardListAdapter.CardViewHolder.damageView.

5.12.3.4 setItemId()

Sets the #unitId of this ViewHolder.

Parameters

item←	Integer referencing the UnitEntity::id of the represented UnitEntity.
ld	

Exceptions

IllegalArgumentException	When itemId is negative.
--------------------------	--------------------------

See also

#itemId

Definition at line 232 of file CardListAdapter.java. References CardListAdapter.CardViewHolder.itemId.

5.12.4 Member Data Documentation

5.12.4.1 abilityView

```
final ImageView abilityView [private]
```

ImageView showing an image of the UnitEntity::ability of the represented UnitEntity. If UnitEntity::ability is Ability::NONE, this view's visibility should be View::GONE.

See also

#getAbilityView()

Definition at line 144 of file CardListAdapter.java.

Referenced by CardListAdapter.CardViewHolder.CardViewHolder(), and CardListAdapter.CardViewHolder.getAbilityView().

5.12.4.2 bindingView

```
final TextView bindingView [private]
```

TextView showing the UnitEntity::squad of the represented UnitEntity if UnitEntity::squad is Ability::BINDING. If UnitEntity::ability is not Ability::BINDING, this view's visibility should be View::GONE.

See also

#getBindingView()

Definition at line 152 of file CardListAdapter.java.

Referenced by CardListAdapter.CardViewHolder.CardViewHolder(), and CardListAdapter.CardViewHolder.getBindingView().

5.12.4.3 damageView

final TextView damageView [private]

TextView showing the (de-)buffed damage of the represented UnitEntity.

See also

#getDamageView()

Definition at line 137 of file CardListAdapter.java.

Referenced by CardListAdapter.CardViewHolder.CardViewHolder(), and CardListAdapter.CardViewHolder.getDamageView().

5.12.4.4 itemId

```
int itemId = (int) NO_ID [private]
```

Integer referencing the UnitEntity::id of the represented UnitEntity.

Is initialized with #NO ID and therefore must be set using #setItemId() in #onBindViewHolder(CardViewHolder, int).

See also

#setItemId(int)

#onBindViewHolder(CardViewHolder, int)

Definition at line 161 of file CardListAdapter.java.

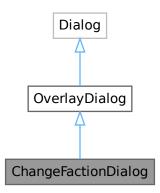
 $Referenced \ by \ Card List Adapter. Card View Holder. Card View$

The documentation for this class was generated from the following file:

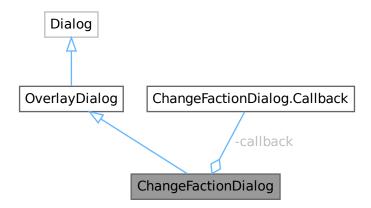
· gwent/ui/dialogs/cards/CardListAdapter.java

5.13 ChangeFactionDialog Class Reference

An OverlayDialog class used to change the faction design. Inheritance diagram for ChangeFactionDialog:



Collaboration diagram for ChangeFactionDialog:



Classes

• interface Callback

An interface used for propagating a selected theme back to the creator of a ChangeFactionDialog.

Public Member Functions

ChangeFactionDialog (@NonNull Context context, @NonNull Callback callback)
 Constructor of a ChangeFactionDialog that calls the given Callback when one theme is selected.

Protected Member Functions

void onCreate (Bundle savedInstanceState)
 Initializes layout and sets listeners for each view.

Protected Member Functions inherited from Overlay Dialog

- OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)
 Constructor of an OverlayDialog in the given Context, with the given layout and dismissViewId.
- OverlayDialog (@NonNull Context context, @LayoutRes int layout)

Constructor of an OverlayDialog in the given Context and with the given layout.

Private Member Functions

• View.OnClickListener getOnThemeClickListener (@IntRange(from=THEME_MONSTER, to=THEME_ ← SCOIATAEL) int theme)

Returns a View.OnclickListener instance that calls #cancel() and uses #callback to propagate the selected theme.

Private Attributes

· final Callback callback

Callback that is called when a theme is selected.

Additional Inherited Members

Static Package Attributes inherited from Overlay Dialog

• static final int NO DISMISS VIEW = -1

Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

5.13.1 Detailed Description

An Overlay Dialog class used to change the faction design. Definition at line 20 of file Change Faction Dialog. java.

5.13.2 Constructor & Destructor Documentation

5.13.2.1 ChangeFactionDialog()

```
ChangeFactionDialog (
     @NonNull Context context,
     @NonNull Callback callback )
```

Constructor of a ChangeFactionDialog that calls the given Callback when one theme is selected.

Parameters

context	Context in which this Dialog is run.
callback	Callback that is called when a theme is selected.

Definition at line 33 of file ChangeFactionDialog.java. References ChangeFactionDialog.callback.

5.13.3 Member Function Documentation

5.13.3.1 getOnThemeClickListener()

```
View.OnClickListener getOnThemeClickListener (
    @IntRange(from=THEME_MONSTER, to=THEME_SCOIATAEL) int theme ) [private]
```

Returns a View.OnclickListener instance that calls #cancel() and uses #callback to propagate the selected theme.

Parameters

theme Integer representing the selected theme.
--

Returns

A View.OnClickListener handling theme input.

See also

#cancel()

Callback::onThemeSelect(int)

Definition at line 73 of file ChangeFactionDialog.java.

References ChangeFactionDialog.callback, and ChangeFactionDialog.Callback.onThemeSelect(). Referenced by ChangeFactionDialog.onCreate().

5.13.3.2 onCreate()

```
void onCreate ( {\tt Bundle} \ \ savedInstanceState \ ) \quad [protected]
```

Initializes layout and sets listeners for each view.

Parameters

savedInstanceState	If this dialog is being reinitialized after the hosting activity was previously shut down,
	holds the result from the most recent call to <code>onSaveInstanceState</code> , or null if this is
	the first time.

Reimplemented from OverlayDialog.

Definition at line 47 of file ChangeFactionDialog.java.

References ChangeFactionDialog.getOnThemeClickListener().

5.13.4 Member Data Documentation

5.13.4.1 callback

final Callback callback [private]

Callback that is called when a theme is selected.

Definition at line 24 of file ChangeFactionDialog.java.

 $Referenced \ by \ Change Faction Dialog. Change Faction Dialog. (), and \ Change Faction Dialog. get On Theme Click Listener ().$

The documentation for this class was generated from the following file:

• gwent/ui/dialogs/ChangeFactionDialog.java

5.14 CoinFlipDialog Class Reference

An Overlay Dialog class showing the result of a coin-flip. Inheritance diagram for CoinFlipDialog:



Collaboration diagram for CoinFlipDialog:



Public Member Functions

CoinFlipDialog (@NonNull Context context)
 Constructor of a CoinFlipDialog in the given Context.

Protected Member Functions

void onCreate (Bundle savedInstanceState)
 Initializes layout and sets listeners for each view.

Protected Member Functions inherited from Overlay Dialog

- OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)
 Constructor of an OverlayDialog in the given Context, with the given layout and dismissViewId.
- OverlayDialog (@NonNull Context context, @LayoutRes int layout)
 Constructor of an OverlayDialog in the given Context and with the given layout.

Static Private Attributes

static final Random RANDOM = new Random()
 Random used to decide the result of the coin-flip.

Additional Inherited Members

Static Package Attributes inherited from Overlay Dialog

static final int NO_DISMISS_VIEW = -1
 Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

5.14.1 Detailed Description

An OverlayDialog class showing the result of a coin-flip.

Shows heads or tails with 48.5% probability respectively. The remaining 3% are divided equally between three tie situations.

See also

R.layout::popup_coin_normal
R.layout::popup_coin_stewie
R.layout::popup_coin_terry
R.layout::popup_coin_vin

Definition at line 24 of file CoinFlipDialog.java.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 CoinFlipDialog()

```
CoinFlipDialog (
          @NonNull Context context )
```

Constructor of a CoinFlipDialog in the given Context.

Parameters

context	Context in which the Dialog is run.
---------	-------------------------------------

Definition at line 34 of file CoinFlipDialog.java.

5.14.3 Member Function Documentation

5.14.3.1 onCreate()

Initializes layout and sets listeners for each view.

The result of the coin-flip is decided here.

Parameters

Ī	savedInstanceState	If this dialog is being reinitialized after the hosting activity was previously shut down,
		holds the result from the most recent call to <code>onSaveInstanceState</code> , or null if this is
		the first time.

Reimplemented from OverlayDialog.

Definition at line 48 of file CoinFlipDialog.java.

References CoinFlipDialog.RANDOM.

5.14.4 Member Data Documentation

5.14.4.1 RANDOM

```
final Random RANDOM = new Random() [static], [private]
```

Random used to decide the result of the coin-flip.

Definition at line 28 of file CoinFlipDialog.java.

Referenced by CoinFlipDialog.onCreate().

The documentation for this class was generated from the following file:

• gwent/ui/dialogs/CoinFlipDialog.java

5.15 DamageCalculator.Color Enum Reference

An enum containing values representing whether a unit is buffed, de-buffed or not affected by status effects.

Collaboration diagram for DamageCalculator.Color:

DamageCalculator.Color

Public Attributes

• DEFAULT

The unit is not affected by status effects.

• BUFFED

The unit is buffed by status effects.

DEBUFFED

The unit is de-buffed by weather effects.

5.15.1 Detailed Description

An enum containing values representing whether a unit is buffed, de-buffed or not affected by status effects. Definition at line 49 of file DamageCalculator.java.

5.15.2 Member Data Documentation

5.15.2.1 BUFFED

BUFFED

The unit is buffed by status effects.

Definition at line 57 of file DamageCalculator.java.

5.15.2.2 **DEBUFFED**

DEBUFFED

The unit is de-buffed by weather effects.

Definition at line 62 of file DamageCalculator.java.

5.15.2.3 **DEFAULT**

DEFAULT

The unit is not affected by status effects.

Definition at line 53 of file DamageCalculator.java.

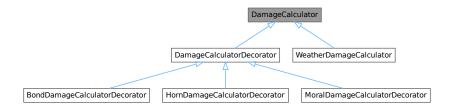
The documentation for this enum was generated from the following file:

• gwent/domain/damage/DamageCalculator.java

5.16 DamageCalculator Interface Reference

An interface for a class capable of calculating the (de-)buffed damage of a unit for a given UnitEntity::id and Unit← Entity::damage.

Inheritance diagram for DamageCalculator:



Collaboration diagram for DamageCalculator:

DamageCalculator

Classes

enum Color

An enum containing values representing whether a unit is buffed, de-buffed or not affected by status effects.

Public Member Functions

· Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

• int calculateDamage (int id, @IntRange(from=0) int damage)

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

5.16.1 Detailed Description

An interface for a class capable of calculating the (de-)buffed damage of a unit for a given UnitEntity::id and Unit← Entity::damage.

Is used to implement the visitor design pattern, see com.peternaggschga.gwent.data.UnitEntity::calculateDamage() The respective visitors are created as a decorator hierarchy, see DamageCalculatorBuildDirector::getCalculator().

See also

com.petern aggschga.gwent.data. Unit Entity:: calculate Damage (Damage Calculator)

DamageCalculatorBuildDirector::getCalculator(boolean, boolean, Collection)

Definition at line 17 of file DamageCalculator.java.

5.16.2 Member Function Documentation

5.16.2.1 calculateDamage()

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

Calculation is defined by the underlying decorator structure implemented via DamageCalculatorDecorator and WeatherDamageCalculator.

Parameters

id	Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated.
damage	Integer representing the base-damage of the unit whose (de-)buff damage is calculated.

Returns

Integer representing the (de-)buffed damage of the unit.

See also

DamageCalculatorDecorator

WeatherDamageCalculator

Implemented in BondDamageCalculatorDecorator, HornDamageCalculatorDecorator, MoralDamageCalculatorDecorator, and WeatherDamageCalculator.

Referenced by BondDamageCalculatorDecorator.calculateDamage(), HornDamageCalculatorDecorator.calculateDamage(), and MoralDamageCalculatorDecorator.calculateDamage().

5.16.2.2 isBuffed()

```
Color isBuffed (
          int id )
```

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT. Units are shown as Color::DEFAULT when they are not affected by any damage changing buffs or de-buffs. Units are shown as Color::DEBUFFED when they are only affected by the weather de-buff. Units are shown as Color:: \leftarrow BUFFED when they are affected by any damage-increasing buff.

Parameters

id Integer representing the UnitEntity::id of the unit buff status is calculated.

Returns

Color representing whether the unit is buffed, de-buffed or not affected.

See also

Color

 $Implemented\ in\ BondDamage Calculator Decorator,\ HornDamage Calculator Decorator,\ Moral Damage Calculator Decorator,\ and\ Weather Damage Calculator.$

Referenced by BondDamageCalculatorDecorator.isBuffed(), HornDamageCalculatorDecorator.isBuffed(), and MoralDamageCalculatorDecorator.isBuffed().

The documentation for this interface was generated from the following file:

• gwent/domain/damage/DamageCalculator.java

5.17 DamageCalculatorBuildDirector Class Reference

A build director responsible for the creation of DamageCalculator instances from sets of units using Damage ← CalculatorBuilder.

Collaboration diagram for DamageCalculatorBuildDirector:

DamageCalculatorBuildDirector

Static Public Member Functions

static DamageCalculator getCalculator (boolean weather, boolean horn, @NonNull Collection < UnitEntity > units)

Creates a DamageCalculator for a row with the given weather status, horn status and units.

Static Private Member Functions

 static void setSquads (@NonNull Collection< UnitEntity > units, @NonNull DamageCalculatorBuilder builder)

Uses the given units to add a BondDamageCalculatorDecorator to the builder using DamageCalculatorBuilder::set← Bond().

 static void setMoralBoosts (@NonNull Collection< UnitEntity > units, @NonNull DamageCalculatorBuilder builder)

 $Uses \ the \ given \ units \ to \ add \ a \ MoralDamage Calculator Decorator \ to \ the \ builder \ using \ Damage Calculator Builder::set \hookleftarrow Moral().$

 static void setHorns (boolean horn, @NonNull Collection < UnitEntity > units, @NonNull DamageCalculatorBuilder builder)

Uses the given commander's horn status and the given units to add a HornDamageCalculatorDecorator to the builder using DamageCalculatorBuilder::setHorn().

5.17.1 Detailed Description

A build director responsible for the creation of DamageCalculator instances from sets of units using Damage ← CalculatorBuilder.

Encapsulates the logic for correct order of decorators.

See also

DamageCalculatorBuilder

Definition at line 21 of file DamageCalculatorBuildDirector.java.

5.17.2 Member Function Documentation

5.17.2.1 getCalculator()

Creates a DamageCalculator for a row with the given weather status, horn status and units.

Parameters

weather	Boolean defining whether the calculation encompasses the weather debuff.
horn	Boolean defining whether a commander's horn is in the row.
units	Collection of UnitEntity objects that are in the row.

Returns

A DamageCalculator object capable of calculating damage for the given units.

Definition at line 31 of file DamageCalculatorBuildDirector.java.

References DamageCalculatorBuilder.getResult(), DamageCalculatorBuildDirector.setHorns(), DamageCalculatorBuildDirector.setMonageCalculatorBuildDirector.setSquads(), and DamageCalculatorBuilder.setWeather().

5.17.2.2 setHorns()

Uses the given commander's horn status and the given units to add a HornDamageCalculatorDecorator to the builder using DamageCalculatorBuilder::setHorn().

To accomplish this, the given unit list is converted to a List of the ids of the units with the Ability::HORN Ability (including null if horn is true).

Parameters

horn	Boolean defining whether a commander's horn is in the row.
units	Collection of UnitEntity objects that are in the row.
builder	DamageCalculatorBuilder where the horn buff is added.

See also

DamageCalculatorBuilder::setHorn(List)

Definition at line 106 of file DamageCalculatorBuildDirector.java. Referenced by DamageCalculatorBuildDirector.getCalculator().

5.17.2.3 setMoralBoosts()

```
static void setMoralBoosts (
          @NonNull Collection< UnitEntity > units,
          @NonNull DamageCalculatorBuilder builder ) [static], [private]
```

Uses the given units to add a MoralDamageCalculatorDecorator to the builder using DamageCalculatorBuilder ∴ ::setMoral().

To accomplish this, the given unit list is converted to a List of the ids of the units with the Ability::MORAL_BOOST Ability.

Parameters

units	Collection of UnitEntity objects that are in the row.
builder	DamageCalculatorBuilder where the horn buff is added.

See also

DamageCalculatorBuilder::setMoral(List)

Definition at line 85 of file DamageCalculatorBuildDirector.java. Referenced by DamageCalculatorBuildDirector.getCalculator().

5.17.2.4 setSquads()

```
static void setSquads (
     @NonNull Collection< UnitEntity > units,
     @NonNull DamageCalculatorBuilder builder ) [static], [private]
```

Uses the given units to add a BondDamageCalculatorDecorator to the builder using DamageCalculatorBuilder
∴:setBond().

To accomplish this, the given unit list is converted to a Map from ids of units with the Ability::BINDING Ability to the respective squad size.

Parameters

units	Collection of UnitEntity objects that are in the row.
builder	DamageCalculatorBuilder where the horn buff is added.

See also

DamageCalculatorBuilder::setBond(Map)

Definition at line 61 of file DamageCalculatorBuildDirector.java. Referenced by DamageCalculatorBuildDirector.getCalculator().

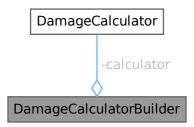
The documentation for this class was generated from the following file:

• gwent/domain/damage/DamageCalculatorBuildDirector.java

5.18 DamageCalculatorBuilder Class Reference

A builder class responsible for creating a decorator structure of DamageCalculator classes with the given parameters

Collaboration diagram for DamageCalculatorBuilder:



Package Functions

• void setWeather (boolean weather)

Sets the weather debuff for the calculation.

void setBond (@NonNull Map< Integer, Integer > idToSquad)

Sets the tight bond buff for the calculation.

void setMoral (@NonNull List< Integer > unitIds)

Sets the moral boost buff for the calculation.

void setHorn (@NonNull List< Integer > unitIds)

Sets the commander's horn buff for the calculation.

DamageCalculator getResult ()

Returns the current state of the built DamageCalculator, i.e.

Private Attributes

• DamageCalculator calculator = new WeatherDamageCalculator(false)

The DamageCalculator instance that is being built by this DamageCalculatorBuilder.

5.18.1 Detailed Description

A builder class responsible for creating a decorator structure of DamageCalculator classes with the given parameters

Should only be used by DamageCalculatorBuildDirector. Calls to #setWeather(), #setBond(), #setMoral() or #set Horn() should be in that exact order to create a correct DamageCalculator. Every function call is optional, i.e. every function should be called once or not at all.

See also

DamageCalculatorBuildDirector

DamageCalculator

DamageCalculatorDecorator

Definition at line 19 of file DamageCalculatorBuilder.java.

5.18.2 Member Function Documentation

5.18.2.1 getResult()

```
DamageCalculator getResult ( ) [package]
Returns the current state of the built DamageCalculator, i.e.
```

Returns

#calculator.

A DamageCalculator that has been built by this builder.

Definition at line 72 of file DamageCalculatorBuilder.java.

References DamageCalculatorBuilder.calculator.

Referenced by DamageCalculatorBuildDirector.getCalculator().

5.18.2.2 setBond()

Sets the tight bond buff for the calculation.

Should be called after #setWeather() or never.

Parameters

idToSquad	Map mapping the ids of all units with the com.peternaggschga.gwent.data.Ability::BINDING ability
	to the respective squad size.

Definition at line 41 of file DamageCalculatorBuilder.java. References DamageCalculatorBuilder.calculator.

5.18.2.3 setHorn()

```
void setHorn (
     @NonNull List< Integer > unitIds ) [package]
```

Sets the commander's horn buff for the calculation.

Should be called after #setMoral() or never.

Parameters

unitIds List of Integers representing ids of units with the com.peternaggschga.gwent.data.Ability::HORN ability.

Definition at line 62 of file DamageCalculatorBuilder.java.

References DamageCalculatorBuilder.calculator.

5.18.2.4 setMoral()

```
void setMoral ( {\tt @NonNull\ List<\ Integer\ >\ unitIds\ )} \quad {\tt [package]}
```

Sets the moral boost buff for the calculation.

Should be called after #setBond() or never.

Parameters

unitlds	List of Integers representing ids of units with the
	com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability.

Definition at line 51 of file DamageCalculatorBuilder.java.

References DamageCalculatorBuilder.calculator.

5.18.2.5 setWeather()

```
void setWeather ( boolean\ \textit{weather}\ )\quad [package]
```

Sets the weather debuff for the calculation.

Should be called first or never.

Parameters

weather	Boolean defining whether the weather debuff is active.
---------	--

Definition at line 32 of file DamageCalculatorBuilder.java.

References DamageCalculatorBuilder.calculator.

 $Referenced\ by\ Damage Calculator Build Director. get Calculator ().$

5.18.3 Member Data Documentation

5.18.3.1 calculator

```
DamageCalculator calculator = new WeatherDamageCalculator(false) [private]
```

The DamageCalculator instance that is being built by this DamageCalculatorBuilder.

Starts as a WeatherDamageCalculator, since this is always at the end of the decorator chain.

Definition at line 25 of file DamageCalculatorBuilder.java.

Referenced by DamageCalculatorBuilder.getResult(), DamageCalculatorBuilder.setBond(), DamageCalculatorBuilder.setHorn(), DamageCalculatorBuilder.setMoral(), and DamageCalculatorBuilder.setWeather().

The documentation for this class was generated from the following file:

gwent/domain/damage/DamageCalculatorBuilder.java

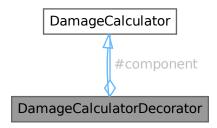
5.19 DamageCalculatorDecorator Class Reference

An abstract DamageCalculator that is used as a superclass for the decorator classes implementing the damage calculation.

Inheritance diagram for DamageCalculatorDecorator:



Collaboration diagram for DamageCalculatorDecorator:



Protected Attributes

· final DamageCalculator component

A DamageCalculator which is decorated by this decorator.

Package Functions

DamageCalculatorDecorator (@NonNull DamageCalculator component)
 Constructor of a DamageCalculatorDecorator.

Additional Inherited Members

Public Member Functions inherited from DamageCalculator

Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

• int calculateDamage (int id, @IntRange(from=0) int damage)

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

5.19.1 Detailed Description

An abstract DamageCalculator that is used as a superclass for the decorator classes implementing the damage calculation.

Definition at line 9 of file DamageCalculatorDecorator.java.

5.19.2 Constructor & Destructor Documentation

5.19.2.1 DamageCalculatorDecorator()

```
DamageCalculatorDecorator (

@NonNull DamageCalculator component ) [package]

Constructor of a DamageCalculatorDecorator.
```

Parameters

component	DamageCalculator that is being decorated by this decorator.
-----------	---

Definition at line 20 of file DamageCalculatorDecorator.java. References DamageCalculatorDecorator.component.

5.19.3 Member Data Documentation

5.19.3.1 component

```
final DamageCalculator component [protected]
```

A DamageCalculator which is decorated by this decorator.

Definition at line 13 of file DamageCalculatorDecorator.java.

Referenced by BondDamageCalculatorDecorator.BondDamageCalculatorDecorator(), DamageCalculatorDecorator.DamageCalculatorDecorator.HornDamageCalculatorDecorator(), MoralDamageCalculatorDecorator.MoralDamageCalculatorDecorator.BondDamageCalculatorDecorator.calculateDamage(),

HornDamageCalculatorDecorator.calculateDamage(),

MoralDamageCalculatorDecorator.calculateDamage(), BondDamageCalculatorDecorator.isBuffed(), HornDamageCalculatorDecorator.and MoralDamageCalculatorDecorator.isBuffed().

The documentation for this class was generated from the following file:

• gwent/domain/damage/DamageCalculatorDecorator.java

5.20 DamageCalculatorUseCase Class Reference

A use case class responsible for creating DamageCalculator objects for rows using DamageCalculatorBuildDirector. Collaboration diagram for DamageCalculatorUseCase:

DamageCalculatorUseCase

Static Public Member Functions

 static Single < DamageCalculator > getDamageCalculator (@NonNull UnitRepository repository, @NonNull RowType row)

Returns a Single emitting a DamageCalculator object for the given row with properties retrieved from the given Unit⊷ Repository.

static DamageCalculator getDamageCalculator (boolean weather, boolean horn, @NonNull Collection
 UnitEntity > units)

Creates a DamageCalculator for a row with the given weather status, horn status and units.

5.20.1 Detailed Description

A use case class responsible for creating DamageCalculator objects for rows using DamageCalculatorBuildDirector.

See also

DamageCalculatorBuildDirector

DamageCalculator

Definition at line 23 of file DamageCalculatorUseCase.java.

5.20.2 Member Function Documentation

5.20.2.1 getDamageCalculator() [1/2]

Returns a Single emitting a DamageCalculator object for the given row with properties retrieved from the given UnitRepository.

Parameters

repository	UnitRepository used for data collection.
row	RowType defining which row is queried for DamageCalculator generation.

Returns

A Single emitting a DamageCalculator object for the given row.

Definition at line 32 of file DamageCalculatorUseCase.java.

References DamageCalculatorUseCase.getDamageCalculator().

Referenced by BurnDialogUseCase.getBurnUnits(), and DamageCalculatorUseCase.getDamageCalculator().

5.20.2.2 getDamageCalculator() [2/2]

Creates a DamageCalculator for a row with the given weather status, horn status and units. Basically calls DamageCalculatorBuildDirector::getCalculator with the given parameters.

Parameters

weather	yeather Boolean defining whether the calculation encompasses the weather debu	
horn	Boolean defining whether a commander's horn is in the row.	
units	Collection of UnitEntity objects that are in the row.	

Returns

A DamageCalculator object capable of calculating damage for the given units.

See also

DamageCalculatorBuildDirector::getCalculator(boolean, boolean, Collection)

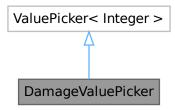
Definition at line 50 of file DamageCalculatorUseCase.java.

The documentation for this class was generated from the following file:

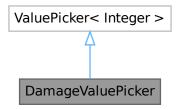
• gwent/domain/cases/DamageCalculatorUseCase.java

5.21 DamageValuePicker Class Reference

A ValuePicker used for selection of damage values for UnitEntity::damage. Inheritance diagram for DamageValuePicker:



Collaboration diagram for DamageValuePicker:



Protected Member Functions

• String getDisplayString (@NonNull Integer value)

Returns a localized String representing the given value when #epicValues is false or otherwise the corresponding epic damage value.

Package Functions

• DamageValuePicker (@NonNull NumberPicker picker)

Constructor of a DamageValuePicker wrapping the given NumberPicker.

void setValue (@NonNull @IntRange(from=0, to=NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) Integer value)

Sets the picker to the given value.

• Integer getValue ()

Returns the currently selected value.

void setEpicValues (boolean epicValues)

Switches the selectable Values between non-epic and epic damage values.

void setSelectableValues (@NonNull Collection < Integer > values, @Nullable Integer defaultValue)
 Does nothing.

Private Attributes

• boolean epicValues = false

Boolean defining whether or not this Damage Value Picker shows epic damage values.

5.21.1 Detailed Description

A ValuePicker used for selection of damage values for UnitEntity::damage.

Allows for switching between epic and normal damage values using #setEpicValues().

Definition at line 25 of file DamageValuePicker.java.

5.21.2 Constructor & Destructor Documentation

5.21.2.1 DamageValuePicker()

```
DamageValuePicker (
          @NonNull NumberPicker picker ) [package]
```

 $Constructor\ of\ a\ Damage Value Picker\ wrapping\ the\ given\ Number Picker.$

Calls #setEpicValues() to initialize the NumberPicker with non-epic damage values.

See also

```
ValuePicker::ValuePicker(NumberPicker, SortedMap) #setEpicValues(boolean)
```

Parameters

picker NumberPicker wrapped by the created DamageValuePicker.

Definition at line 39 of file DamageValuePicker.java. References DamageValuePicker.setEpicValues().

5.21.3 Member Function Documentation

5.21.3.1 getDisplayString()

Returns a localized String representing the given value when #epicValues is false or otherwise the corresponding epic damage value.

Parameters

value	Value that should be represented as a String.
-------	---

Returns

A localized String representing the value.

Exceptions

IllegalStateException	When #epicValues is true and displayIntegers does not contain a mapping for the given
	value.

Definition at line 57 of file DamageValuePicker.java.

References DamageValuePicker.epicValues.

5.21.3.2 getValue()

```
Integer getValue ( ) [package] Returns the currently selected value.
```

Returns

A value that is selected in picker.

Definition at line 90 of file DamageValuePicker.java.

References DamageValuePicker.epicValues.

Referenced by CardNumberPickerAdapter.addSelectedUnits().

5.21.3.3 setEpicValues()

```
void setEpicValues (
                boolean epicValues ) [package]
```

Switches the selectable Values between non-epic and epic damage values.

Sets #epicValues.

See also

#epicValues

Parameters

epicValues Boolean defining whether or not epic val	lues are shown.
---	-----------------

Definition at line 100 of file DamageValuePicker.java.

References DamageValuePicker.epicValues.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), and DamageValuePicker.DamageValuePicker().

5.21.3.4 setSelectableValues()

```
void setSelectableValues (  \hbox{\tt @NonNull Collection} < \hbox{\tt Integer} > values, \\ \hbox{\tt @Nullable Integer} \ defaultValue ) \ \ [package]
```

Does nothing.

Overrides parent since selectable Values should only be modified by #setEpicValues().

Parameters

values	Collection of the new selectable values.
defaultValue	Value that is shown in the beginning. If null, then the first value defined by the Comparable
	interface is used.

Definition at line 121 of file DamageValuePicker.java.

5.21.3.5 setValue()

```
void setValue (
          @NonNull @IntRange(from=0, to=NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) Integer value )
[package]
```

Sets the picker to the given value.

If #epicValues is true, ValuePicker::setValue() is called. Otherwise the picker is simply set to the given value.

Parameters

Value that the picker is set to.

Exceptions

IllegalStateException When #epicValues is false and the given value is not in [0,20]
--

See also

ValuePicker::setValue(Comparable)

Definition at line 74 of file DamageValuePicker.java.

References DamageValuePicker.epicValues.

5.21.4 Member Data Documentation

5.21.4.1 epicValues

boolean epicValues = false [private]

Boolean defining whether or not this DamageValuePicker shows epic damage values.

See also

#setEpicValues(boolean)

Definition at line 30 of file DamageValuePicker.java.

Referenced by DamageValuePicker.getDisplayString(), DamageValuePicker.getValue(), DamageValuePicker.setEpicValues(), and DamageValuePicker.setValue().

The documentation for this class was generated from the following file:

• gwent/ui/dialogs/addcard/DamageValuePicker.java

5.22 ResetDialogUseCase.DialogType Enum Reference

An Enum defining which form of Dialog should be shown. Collaboration diagram for ResetDialogUseCase.DialogType:

ResetDialogUseCase.DialogType

Public Attributes

NONE

No Dialog must be invoked.

• DEFAULT

A default Dialog asking whether to reset should be invoked.

MONSTER

A monster Dialog asking whether to reset and whether to invoke the monster perk, should be invoked.

5.22.1 Detailed Description

An Enum defining which form of Dialog should be shown.

See also

#getDialogType(Context, UnitRepository, Trigger)

Definition at line 148 of file ResetDialogUseCase.java.

5.22.2 Member Data Documentation

5.22.2.1 DEFAULT

DEFAULT

A default Dialog asking whether to reset should be invoked.

Definition at line 156 of file ResetDialogUseCase.java.

Referenced by ResetDialogUseCase.getDialogType().

5.22.2.2 MONSTER

MONSTER

A monster Dialog asking whether to reset and whether to invoke the monster perk, should be invoked.

Definition at line 162 of file ResetDialogUseCase.java.

Referenced by ResetDialogUseCase.reset().

5.22.2.3 NONE

NONE

No Dialog must be invoked.

Definition at line 152 of file ResetDialogUseCase.java.

Referenced by ResetDialogUseCase.getDialogType(), and ResetDialogUseCase.reset().

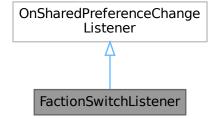
The documentation for this enum was generated from the following file:

· gwent/domain/cases/ResetDialogUseCase.java

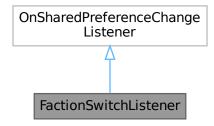
5.23 FactionSwitchListener Class Reference

A class implementing SharedPreference.OnSharedPreferenceChangeListener for the #THEME_PREFERENCE __KEY SharedPreference.

Inheritance diagram for FactionSwitchListener:



Collaboration diagram for FactionSwitchListener:



Public Member Functions

void onSharedPreferenceChanged (SharedPreferences sharedPreferences, @Nullable String key)
 Called when a shared preference is changed, added, or removed.

Static Public Member Functions

• static FactionSwitchListener getListener (@NonNull Window mainWindow)

Returns a new FactionSwitchListener instance for the given Window.

static void setTheme (@NonNull Context context)

Changes the theme of the content referenced by the given Context depending on the preferences obtainable by said Context.

Static Public Attributes

• static final String THEME_PREFERENCE_KEY = "theme"

String constant defining the key of the theme SharedPreference.

• static final int THEME_MONSTER = 0

Integer constant representing the Monster theme.

• static final int THEME NILFGAARD = 1

Integer constant representing the Nilfgaard theme.

static final int THEME_NORTHERN_KINGDOMS = 2

Integer constant representing the Northern Kingdoms theme.

• static final int THEME SCOIATAEL = 3

Integer constant representing the Scoia'tael theme.

Private Member Functions

 FactionSwitchListener (@NonNull List< ImageView > ballViews, @NonNull List< ImageView > cardViews, @NonNull List< TextView > unitViews, @NonNull ImageButton factionButton)

Constructor of a FactionSwitchListener updating the given View objects when #onSharedPreferenceChanged() is called.

Private Attributes

final List< ImageView > ballViews

List of ImageView objects that show a colored ball.

final List< ImageView > cardViews

List of ImageView objects that show a card back.

final List< TextView > unitViews

List of TextView objects that show the number of units in a certain color.

• final ImageButton factionButton

ImageButton showing the logo of the current faction.

5.23.1 Detailed Description

A class implementing SharedPreference.OnSharedPreferenceChangeListener for the #THEME_PREFERENCE KEY SharedPreference.

When this Preference is updated, the theme is switched in an animated way using ImageViewSwitchAnimator.

See also

ImageViewSwitchAnimator

Definition at line 31 of file FactionSwitchListener.java.

5.23.2 Constructor & Destructor Documentation

5.23.2.1 FactionSwitchListener()

```
FactionSwitchListener (
    @NonNull List< ImageView > ballViews,
    @NonNull List< ImageView > cardViews,
    @NonNull List< TextView > unitViews,
    @NonNull ImageButton factionButton ) [private]
```

Constructor of a FactionSwitchListener updating the given View objects when #onSharedPreferenceChanged() is called.

Should only be used by factory method #getListener().

See also

#getListener(Window)

Parameters

ballViews	List of ImageView objects showing a colored ball.
cardViews	List of ImageView objects showing the backside of a card.
unitViews	List of TextView objects showing the number of units.
factionButton	ImageButton that shows the current faction logo.

Definition at line 108 of file FactionSwitchListener.java.

References FactionSwitchListener.ballViews, FactionSwitchListener.cardViews, FactionSwitchListener.factionButton, and FactionSwitchListener.unitViews.

5.23.3 Member Function Documentation

5.23.3.1 getListener()

```
static FactionSwitchListener getListener (
          @NonNull Window mainWindow) [static]
```

Returns a new FactionSwitchListener instance for the given Window.

Factory method of FactionSwitchListener.

Parameters

mainWindow	Window, that is updated by the new FactionSwitchListener.

Returns

A FactionSwitchListener instance for the given Window.

Definition at line 124 of file FactionSwitchListener.java.

References FactionSwitchListener.ballViews, FactionSwitchListener.cardViews, and FactionSwitchListener.unitViews. Referenced by MainActivity.onCreate().

5.23.3.2 onSharedPreferenceChanged()

Called when a shared preference is changed, added, or removed.

Only handles changes when the given key is equal to #THEME_PREFERENCE_KEY. Updates the View objects in #ballViews, #cardViews, #unitViews, and #factionButton using ImageViewSwitchAnimator.

See also

ImageViewSwitchAnimator

Parameters

sharedPreferences	SharedPreferences that received the change.
key String representing the key of the preference that was changed, added,	

Definition at line 176 of file FactionSwitchListener.java.

References Image View Switch Animator. animated Switch(), Faction Switch Listener. ball Views, Faction Switch Listener. card Views, Faction Switch Listener. THEME_MONSTER, Faction Switch Listener. THEME_NILFGAARD, Faction Switch Listener. THEME_NORTHERN_KINGDOMS, Faction Switch Listener. THEME_PREFERENCE_KEY, Faction Switch Listener. THEME_SCOIATAEL, and Faction Switch Listener. unit Views.

5.23.3.3 setTheme()

```
static void setTheme (
     @NonNull Context context ) [static]
```

Changes the theme of the content referenced by the given Context depending on the preferences obtainable by said Context.

Parameters

context	Context that is used to query the current theme preference and that gets it theme updated
	accordingly.

Definition at line 148 of file FactionSwitchListener.java.

References FactionSwitchListener.THEME_MONSTER, FactionSwitchListener.THEME_NILFGAARD, FactionSwitchListener.THEME_FactionSwitchListener.THEME_PREFERENCE_KEY, and FactionSwitchListener.THEME_SCOIATAEL.

Referenced by MainActivity.onCreate().

5.23.4 Member Data Documentation

5.23.4.1 ballViews

```
final List<ImageView> ballViews [private] List of ImageView objects that show a colored ball.
```

See also

R.drawable::ball_red
R.drawable::ball_grey
R.drawable::ball_blue
R.drawable::ball_green

Definition at line 66 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.FactionSwitchListener(), FactionSwitchListener.getListener(), and FactionSwitchListener.onShar

5.23.4.2 cardViews

final List<ImageView> cardViews [private] List of ImageView objects that show a card back.

See also

R.drawable::card_monster_landscape_free R.drawable::card_nilfgaard_landscape_free

R.drawable::card_northern_kingdoms_landscape_free

R.drawable::card scoiatael landscape free

Definition at line 76 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener. FactionSwitchListener. (), FactionSwitchListener. getListener. (), and FactionSwitchListener. on Share and FactionSwitchListener.

5.23.4.3 factionButton

final ImageButton factionButton [private] ImageButton showing the logo of the current faction.

See also

R.drawable::icon_round_monster R.drawable::icon_round_nilfgaard

R.drawable::icon_round_northern_kingdoms

R.drawable::icon_round_scoiatael

Definition at line 96 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.FactionSwitchListener(), and FactionSwitchListener.onSharedPreferenceChanged().

5.23.4.4 THEME_MONSTER

final int THEME_MONSTER = 0 [static]

Integer constant representing the Monster theme.

Definition at line 41 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.onSharedPreferenceChanged(), and FactionSwitchListener.setTheme().

5.23.4.5 THEME_NILFGAARD

final int THEME_NILFGAARD = 1 [static]

Integer constant representing the Nilfgaard theme.

Definition at line 46 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.onSharedPreferenceChanged(), and FactionSwitchListener.setTheme().

5.23.4.6 THEME_NORTHERN_KINGDOMS

final int THEME_NORTHERN_KINGDOMS = 2 [static]

Integer constant representing the Northern Kingdoms theme.

Definition at line 51 of file FactionSwitchListener.java.

 $Referenced \ by \ Faction Switch Listener. on Shared Preference Changed (), \ and \ Faction Switch Listener. set Theme ().$

5.23.4.7 THEME_PREFERENCE_KEY

final String THEME_PREFERENCE_KEY = "theme" [static]

String constant defining the key of the theme SharedPreference.

Definition at line 36 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.onSharedPreferenceChanged(), and FactionSwitchListener.setTheme().

5.23.4.8 THEME SCOIATAEL

final int THEME_SCOIATAEL = 3 [static]

Integer constant representing the Scoia'tael theme.

Definition at line 56 of file FactionSwitchListener.java.

Referenced by FactionSwitchListener.onSharedPreferenceChanged(), and FactionSwitchListener.setTheme().

5.23.4.9 unitViews

final List<TextView> unitViews [private]

List of TextView objects that show the number of units in a certain color.

See also

R.color::color_text_monster
R.color::color_text_nilfgaard

R.color::color text northern kingdoms

R.color::color_text_scoiatael

Definition at line 86 of file FactionSwitchListener.java.

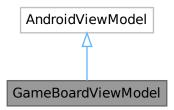
Referenced by FactionSwitchListener.FactionSwitchListener(), FactionSwitchListener.getListener(), and FactionSwitchListener.onShartne documentation for this class was generated from the following file:

• gwent/ui/main/FactionSwitchListener.java

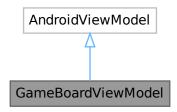
5.24 GameBoardViewModel Class Reference

An AndroidViewModel class responsible for encapsulating and offering state of views in activity_main.xml, i.e., that show the overall game board.

Inheritance diagram for GameBoardViewModel:



Collaboration diagram for GameBoardViewModel:



Public Member Functions

- Flowable < RowUiState > getRowUiState (@NonNull RowType row)
 - Returns a Flowable object emitting RowUiState for the given row.
- Flowable < MenuUiState > getMenuUiState ()
 - Returns a Flowable object emitting MenuUiState.
- SoundManager getSoundManager ()
 - Returns the SoundManager managed by this GameBoardViewModel.
- Completable onWeatherViewPressed (@NonNull RowType row)
 - Updates the weather debuff of the given row.
- Completable onHornViewPressed (@NonNull RowType row)
 - Updates the horn buff of the given row.
- Completable onResetButtonPressed (@NonNull Context context)
 - Triggers a reset and possibly an alert dialog, depending on preferences.
- Completable onFactionSwitchReset (@NonNull Context context)
 - Triggers a reset and possibly an alert dialog, depending on preferences.
- Completable onWeatherButtonPressed ()
 - Clears all weather effects.
- Completable onBurnButtonPressed (@NonNull Context context)
 - Clears units with the most damage.

Static Public Member Functions

static GameBoardViewModel getModel (@NonNull ViewModelStoreOwner owner, @NonNull UnitRepository repository, @NonNull SoundManager soundManager)

Factory method of a GameBoardViewModel.

Private Member Functions

GameBoardViewModel (@NonNull GwentApplication application)

Constructor of a GameBoardViewModel object.

Single < UnitRepository > getRepository ()

Returns the UnitRepository used by the parent GwentApplication.

• Completable reset (@NonNull Context context, @NonNull ResetDialogUseCase.Trigger trigger)

Triggers a reset and possibly an alert dialog, depending on preferences.

Private Attributes

A map structure containing the Flowable objects emitting the RowUiState for each row.

Flowable < MenuUiState > menuUiState = Flowable.empty()

Flowable emitting the MenuUiState for the right-hand side menu.

SoundManager soundManager

SoundManager used to play Sound effects on click events.

Static Private Attributes

static final ViewModelInitializer< GameBoardViewModel > INITIALIZER

ViewModelInitializer used by androidx.lifecycle.ViewModelProvider.Factory to instantiate the class.

5.24.1 Detailed Description

An AndroidViewModel class responsible for encapsulating and offering state of views in activity_main.xml, i.e., that show the overall game board.

Click events on the rows and the menu are handled also.

Definition at line 38 of file GameBoardViewModel.java.

5.24.2 Constructor & Destructor Documentation

5.24.2.1 GameBoardViewModel()

```
GameBoardViewModel (
```

@NonNull GwentApplication application) [private]

Constructor of a GameBoardViewModel object.

Should only be called in #initializer.

Parameters

application	GwentApplication that uses this AndroidViewModel.
-------------	---

See also

#INITIALIZER

Definition at line 60 of file GameBoardViewModel.java.

5.24.3 Member Function Documentation

5.24.3.1 getMenuUiState()

```
Flowable < MenuUiState > getMenuUiState ( ) Returns a Flowable object emitting MenuUiState.
```

Returns

A Flowable object for the state of the menu.

See also

MenuUiState

#menuUiState

Definition at line 185 of file GameBoardViewModel.java.

References GameBoardViewModel.menuUiState.

Referenced by MainActivity.initializeViewModel().

5.24.3.2 getModel()

```
static GameBoardViewModel getModel (
     @NonNull ViewModelStoreOwner owner,
     @NonNull UnitRepository repository,
     @NonNull SoundManager soundManager ) [static]
```

Factory method of a GameBoardViewModel.

Creates a new GameBoardViewModel for the given owner and initializes #rowUiStates and #menuUiState.

Parameters

owner	vner ViewModelStoreOwner instantiating the GameBoardViewModel	
repository	UnitRepository where Flowables are retrieved.	
soundManager SoundManager used to play Sound effects on click events.		

Returns

A new GameBoardViewModel instance.

See also

ViewModelProvider::ViewModelProvider(ViewModelStoreOwner, ViewModelProvider.Factory)

Definition at line 98 of file GameBoardViewModel.java.

References RowUiState.getDamage(), RowUiState.getUnits(), GameBoardViewModel.INITIALIZER, RowUiState.isHorn(), RowUiState.isWeather(), GameBoardViewModel.menuUiState, GameBoardViewModel.reset(), GameBoardViewModel.rowUiStates, and GameBoardViewModel.soundManager.

Referenced by MainActivity.onCreate().

5.24.3.3 getRepository()

```
Single< UnitRepository > getRepository ( ) [private]
```

Returns the UnitRepository used by the parent GwentApplication.

Basically a wrapper for GwentApplication::getRepository(Context).

Returns

A Single emitting the UnitRepository instance.

See also

GwentApplication::getRepository(Context)

Definition at line 161 of file GameBoardViewModel.java.

References GwentApplication.getRepository().

Referenced by GameBoardViewModel.onHornViewPressed(), GameBoardViewModel.onWeatherButtonPressed(), and GameBoardViewModel.onWeatherViewPressed().

5.24.3.4 getRowUiState()

```
Flowable< RowUiState > getRowUiState (
@NonNull RowType row )
```

Returns a Flowable object emitting RowUiState for the given row.

Parameters

row	RowType defining the row for which the state is queried.

Returns

A Flowable object for the state of the given row.

See also

RowUiState

#rowUiStates

Definition at line 173 of file GameBoardViewModel.java.

References GameBoardViewModel.rowUiStates.

Referenced by MainActivity.initializeViewModel().

5.24.3.5 getSoundManager()

```
SoundManager getSoundManager ( )
```

Returns the SoundManager managed by this GameBoardViewModel.

Returns

A SoundManager used by this GameBoardViewModel.

Definition at line 195 of file GameBoardViewModel.java.

References GameBoardViewModel.soundManager.

Referenced by MainActivity.inflateCoinFlipPopup(), and MainActivity.initializeViewModel().

5.24.3.6 onBurnButtonPressed()

```
Completable onBurnButtonPressed (
          @NonNull Context context )
```

Clears units with the most damage.

May inflate a warning dialog depending on the user's preferences and a Toast informing the user about the burned units. Should only be called by the View.OnClickListener of the burn button. Plays a matching sound, if units were removed.

Parameters

context	Context

Returns

A Completable tracking operation status.

See also

BurnDialogUseCase::burn(Context, SoundManager)

Definition at line 310 of file GameBoardViewModel.java.

 $References\ Game Board View Model. so und Manager.$

Referenced by MainActivity.initializeViewModel().

5.24.3.7 onFactionSwitchReset()

```
\begin{tabular}{ll} {\tt Completable} & {\tt onFactionSwitchReset} & ( \\ & {\tt @NonNull} & {\tt Context} & {\tt context} \end{tabular} \ )
```

Triggers a reset and possibly an alert dialog, depending on preferences.

Should only be called when the faction has been switched. Wrapper for #reset(Context, ResetDialogUseCase. ← Trigger).

Parameters

context | Context object used to acquire SharedPreferences and inflate Dialog views.

Returns

A Completable tracking operation status.

See also

#reset(Context, ResetDialogUseCase.Trigger)

Definition at line 263 of file GameBoardViewModel.java.

References GameBoardViewModel.reset().

Referenced by MainActivity.inflateFactionPopup().

5.24.3.8 onHornViewPressed()

```
Completable onHornViewPressed ( {\tt @NonNull\ RowType\ \it row\ )}
```

Updates the horn buff of the given row.

Flips between on and off. Plays a matching sound, if the horn is switched on.

Parameters

row RowType defining the affected row.

Returns

A Completable tracking operation status.

See also

UnitRepository::switchHorn(RowType)

Definition at line 227 of file GameBoardViewModel.java.

References GameBoardViewModel.getRepository(), and GameBoardViewModel.soundManager.

Referenced by MainActivity.initializeViewModel().

5.24.3.9 onResetButtonPressed()

Triggers a reset and possibly an alert dialog, depending on preferences.

Should only be called by the button's View.OnClickListener. Wrapper for #reset(Context, ResetDialogUseCase. \leftarrow Trigger).

Parameters

context | Context object used to acquire SharedPreferences and inflate Dialog views.

Returns

A Completable tracking operation status.

See also

#reset(Context, ResetDialogUseCase.Trigger)
ResetDialogUseCase.Trigger::BUTTON_CLICK

Definition at line 250 of file GameBoardViewModel.java.

References GameBoardViewModel.reset().

Referenced by MainActivity.initializeViewModel().

5.24.3.10 onWeatherButtonPressed()

```
Completable onWeatherButtonPressed ( )
```

Clears all weather effects.

Should only be called by the View.OnClickListener of the weather button. Plays a matching sound on completion.

Returns

A Completable tracking operation status.

See also

UnitRepository::clearWeather()

Definition at line 295 of file GameBoardViewModel.java.

References GameBoardViewModel.getRepository().

Referenced by MainActivity.initializeViewModel().

5.24.3.11 onWeatherViewPressed()

```
Completable onWeatherViewPressed (
@NonNull RowType row )
```

Updates the weather debuff of the given row.

Flips between good and bad weather. Plays a matching sound, if the weather is switched on.

Parameters

_		
	row	RowType defining the affected row.

Returns

A Completable tracking operation status.

See also

UnitRepository::switchWeather(RowType)

Definition at line 207 of file GameBoardViewModel.java.

References GameBoardViewModel.getRepository(), and GameBoardViewModel.soundManager.

Referenced by MainActivity.initializeViewModel().

5.24.3.12 reset()

Triggers a reset and possibly an alert dialog, depending on preferences.

Plays a matching sound, if units were removed.

Parameters

context | Context object used to acquire SharedPreferences and inflate Dialog views.

Parameters

trigger com.peternaggschga.gwent.domain.cases.ResetDialogUseCase.Trigger defining which action triggered the reset.

Returns

A Completable tracking operation status.

See also

#reset(Context, ResetDialogUseCase.Trigger)

Definition at line 276 of file GameBoardViewModel.java.

References GameBoardViewModel.soundManager.

Referenced by GameBoardViewModel.getModel(), GameBoardViewModel.onFactionSwitchReset(), and GameBoardViewModel.onResetButtonPressed().

5.24.4 Member Data Documentation

5.24.4.1 INITIALIZER

ViewModelInitializer used by androidx.lifecycle.ViewModelProvider.Factory to instantiate the class.

See also

androidx.lifecycle.ViewModelProvider.Factory::from(ViewModelInitializer[])

Definition at line 45 of file GameBoardViewModel.java. Referenced by GameBoardViewModel.getModel().

5.24.4.2 menuUiState

```
Flowable < MenuUiState > menuUiState = Flowable.empty() [private] Flowable emitting the MenuUiState for the right-hand side menu.
```

Initialized in #getModel().

See also

#getMenuUiState()

MenuUiState

Definition at line 80 of file GameBoardViewModel.java.

Referenced by GameBoardViewModel.getMenuUiState(), and GameBoardViewModel.getModel().

5.24.4.3 rowUiStates

```
final Map<RowType, Flowable<RowUiState> > rowUiStates = new HashMap<> (RowType.values().length)
[private]
```

A map structure containing the Flowable objects emitting the RowUiState for each row. Initialized in #getModel().

See also

#getRowUiState(RowType)

RowUiState

Definition at line 71 of file GameBoardViewModel.java.

 $Referenced\ by\ Game Board View Model. get Model(),\ and\ Game Board View Model. get Row UiState().$

5.24.4.4 soundManager

SoundManager soundManager [private]

SoundManager used to play Sound effects on click events.

Definition at line 85 of file GameBoardViewModel.java.

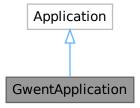
Referenced by GameBoardViewModel.getModel(), GameBoardViewModel.getSoundManager(), GameBoardViewModel.onBurnButto GameBoardViewModel.onHornViewPressed(), GameBoardViewModel.onWeatherViewPressed(), and GameBoardViewModel.reset(). The decumentation for this class was generated from the following file:

The documentation for this class was generated from the following file:

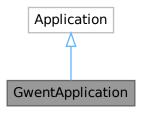
· gwent/ui/main/GameBoardViewModel.java

5.25 GwentApplication Class Reference

An Application encapsulating the Gwent app. Inheritance diagram for GwentApplication:



Collaboration diagram for GwentApplication:



Public Member Functions

• void onCreate ()

Called when the application is starting, before any activity, service, or receiver objects (excluding content providers) have been created.

Single < UnitRepository > getRepository ()

Returns the repository used to create, read, update and delete game state.

Static Public Member Functions

static Single < UnitRepository > getRepository (@NonNull Context context)

Returns a UnitRepository used by the GwentApplication referenced by the given Context.

Private Attributes

• AppDatabase database

AppDatabase used by this app.

Static Private Attributes

static UnitRepository repository = null

UnitRepository used for communication to database.

5.25.1 Detailed Description

An Application encapsulating the Gwent app.

This class is responsible for maintaining a Singleton UnitRepository connected to the AppDatabase of this app.

Definition at line 18 of file GwentApplication.java.

5.25.2 Member Function Documentation

5.25.2.1 getRepository() [1/2]

```
Single< UnitRepository > getRepository ( )
```

Returns the repository used to create, read, update and delete game state.

Lazily initializes repository, if not yet done so.

See also

#getRepository(Context)

Returns

A UnitRepository used to access game state.

Definition at line 62 of file GwentApplication.java.

References GwentApplication.database, and GwentApplication.repository.

5.25.2.2 getRepository() [2/2]

Returns a UnitRepository used by the GwentApplication referenced by the given Context.

Wrapper of getRepository().

See also

#getRepository()

Parameters

```
context | Context of a GwentApplication.
```

Returns

A UnitRepository used by the given GwentApplication to access game state.

Definition at line 41 of file GwentApplication.java.

Referenced by CardNumberPickerAdapter.addSelectedUnits(), BurnDialogUseCase.burn(), ShowUnitsDialog.getDialog(), GameBoardViewModel.getRepository(), MainActivity.initializeViewModel(), MainActivity.onCreate(), AddCardDialog.onCreate(), and ResetDialogUseCase.reset().

5.25.2.3 onCreate()

```
void onCreate ( )
```

Called when the application is starting, before any activity, service, or receiver objects (excluding content providers) have been created.

Initializes database.

Definition at line 51 of file GwentApplication.java.

References GwentApplication.database.

5.25.3 Member Data Documentation

5.25.3.1 database

```
AppDatabase database [private] AppDatabase used by this app. Is initialized in onCreate().
```

See also

#onCreate()

Definition at line 32 of file GwentApplication.java.

Referenced by GwentApplication.getRepository(), and GwentApplication.onCreate().

5.25.3.2 repository

```
UnitRepository repository = null [static], [private]
UnitRepository used for communication to database.
Is lazily initialized in getRepository() and provided as a Singleton.
```

See also

#getRepository()
#getRepository(Context)

Definition at line 25 of file GwentApplication.java.

Referenced by GwentApplication.getRepository().

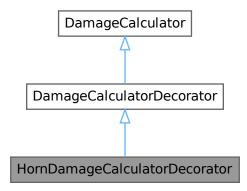
The documentation for this class was generated from the following file:

· gwent/GwentApplication.java

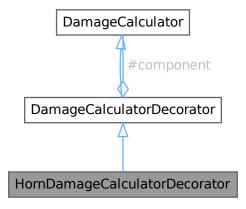
5.26 HornDamageCalculatorDecorator Class Reference

A DamageCalculator class responsible for calculating the horn buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::HORN ability that are not the unit the damage is calculated for or if there is a commander's horn in this row.

Inheritance diagram for HornDamageCalculatorDecorator:



Collaboration diagram for HornDamageCalculatorDecorator:



Public Member Functions

- int calculateDamage (int id, @IntRange(from=0) int damage)
 Calculates the (de-)buffed damage of unit with the given id and the given base-damage.
- · Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

Package Functions

HornDamageCalculatorDecorator (@NonNull DamageCalculator component, @NonNull List< Integer > unitIds)

Constructor of a HornDamageCalculatorDecorator.

Package Functions inherited from DamageCalculatorDecorator

DamageCalculatorDecorator (@NonNull DamageCalculator component)
 Constructor of a DamageCalculatorDecorator.

Private Member Functions

· boolean doubleDamage (int id)

Decides whether the unit with the given id is affected by the horn buff.

Private Attributes

final List< Integer > unitIds

A List of Integers containing the ids of all units with the com.peternaggschga.gwent.data.Ability::HORN ability.

Additional Inherited Members

Protected Attributes inherited from DamageCalculatorDecorator

• final DamageCalculator component

A DamageCalculator which is decorated by this decorator.

5.26.1 Detailed Description

A DamageCalculator class responsible for calculating the horn buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::HORN ability that are not the unit the damage is calculated for or if there is a commander's horn in this row.

Acts as a ConcreteDecorator in the implemented decorator pattern and should decorate a WeatherDamage← Calculator, a BondDamageCalculatorDecorator or a MoralDamageCalculatorDecorator.

Definition at line 18 of file HornDamageCalculatorDecorator.java.

5.26.2 Constructor & Destructor Documentation

5.26.2.1 HornDamageCalculatorDecorator()

```
HornDamageCalculatorDecorator (
     @NonNull DamageCalculator component,
     @NonNull List< Integer > unitIds ) [package]
```

Constructor of a HornDamageCalculatorDecorator.

Should only be called by DamageCalculatorBuilder. The given damage calculator should be of type Weather DamageCalculator, BondDamageCalculatorDecorator or MoralDamageCalculatorDecorator for correct damage calculation. If the respective row has a commander's horn, null must be an element of the given List.

Parameters

component	DamageCalculator that is being decorated by this decorator.	
unitlds	List of Integers representing ids of units with the com.peternaggschga.gwent.data.Ability::HORN	
	ability.	

See also

DamageCalculatorBuilder

Definition at line 38 of file HornDamageCalculatorDecorator.java.

 $References\ Damage Calculator Decorator. component,\ and\ Horn Damage Calculator Decorator. unit Ids.$

5.26.3 Member Function Documentation

5.26.3.1 calculateDamage()

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

Returns given damage times two if the unit is buffed by a commander's horn.

See also

#doubleDamage(int)

Parameters

id	Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated.
damage Integer representing the base-damage of the unit whose (de-)buff damage is ca	

Returns

Integer representing the (de-)buffed damage of the unit.

Exceptions

IllegalArgumentException	When damage is negative.

Implements DamageCalculator.

Definition at line 63 of file HornDamageCalculatorDecorator.java.

References DamageCalculator.calculateDamage(), DamageCalculatorDecorator.component, and HornDamageCalculatorDecorator.component

5.26.3.2 doubleDamage()

```
boolean doubleDamage ( \quad \text{int } id \text{ )} \quad [\texttt{private}]
```

Decides whether the unit with the given id is affected by the horn buff.

Parameters

id Integer representing the UnitEntity::id of the unit that is being evaluated.

Returns

A Boolean value defining whether the horn buff affects the given unit.

Definition at line 49 of file HornDamageCalculatorDecorator.java.

References HornDamageCalculatorDecorator.unitIds.

Referenced by HornDamageCalculatorDecorator.calculateDamage(), and HornDamageCalculatorDecorator.isBuffed().

5.26.3.3 isBuffed()

```
Color isBuffed (
```

```
int id )
```

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT. Units are shown as Color::BUFFED when they are affected by a horn buff, otherwise their Color is defined by #component.

Parameters

id

Integer representing the UnitEntity::id of the unit buff status is calculated.

Returns

Color representing whether the unit is buffed, de-buffed or not affected.

See also

Color

#doubleDamage(int)

Implements DamageCalculator.

Definition at line 82 of file HornDamageCalculatorDecorator.java.

References DamageCalculatorDecorator.component, HornDamageCalculatorDecorator.doubleDamage(), and DamageCalculator.isBuffed().

5.26.4 Member Data Documentation

5.26.4.1 unitlds

final List<Integer> unitIds [private]

A List of Integers containing the ids of all units with the com.peternaggschga.gwent.data.Ability::HORN ability.

If a commander's horn is in the respective row, #unitlds contains null.

Definition at line 24 of file HornDamageCalculatorDecorator.java.

Referenced by HornDamageCalculatorDecorator.HornDamageCalculatorDecorator(), and HornDamageCalculatorDecorator.doubleD The documentation for this class was generated from the following file:

• gwent/domain/damage/HornDamageCalculatorDecorator.java

5.27 ImageViewSwitchAnimator Class Reference

A class providing functionality for changing the resource shown by an ImageView using a fading animation. Collaboration diagram for ImageViewSwitchAnimator:

ImageViewSwitchAnimator

Static Public Member Functions

• static Completable animatedSwitch (@NonNull ImageView view, @DrawableRes int resId)

Changes the resource of the given ImageView in an animation to the given resource id.

Static Private Member Functions

• static ImageView getOverlayView (@NonNull ImageView template)

Returns a copy of the given template which is one layer above it.

5.27.1 Detailed Description

A class providing functionality for changing the resource shown by an ImageView using a fading animation.

See also

#animatedSwitch(ImageView, int)

Definition at line 20 of file ImageViewSwitchAnimator.java.

5.27.2 Member Function Documentation

5.27.2.1 animatedSwitch()

Changes the resource of the given ImageView in an animation to the given resource id.

Animation is realized by creating a new ImageView on top of the given ImageView which is then faded out using the fade_out animation provided by Android. The operation is complete when the animation ends.

See also

android.R.anim::fade_out

Parameters

view	ImageView, whose resource is to be changed.
res⇔ Id	Integer representing the drawable resource that the given view should show.

Returns

A Completable tracking operation status.

Definition at line 53 of file ImageViewSwitchAnimator.java.

References ImageViewSwitchAnimator.getOverlayView().

Referenced by MenuUiStateObserver.accept(), RowUiStateObserver.accept(), and FactionSwitchListener.onSharedPreferenceChange

5.27.2.2 getOverlayView()

Returns a copy of the given template which is one layer above it.

Parameters

template	ImageView that is copied.

Returns

An ImageView similar to template but one layer in front of it.

Definition at line 27 of file ImageViewSwitchAnimator.java.

Referenced by ImageViewSwitchAnimator.animatedSwitch().

The documentation for this class was generated from the following file:

• gwent/ui/main/ImageViewSwitchAnimator.java

5.28 IndicatorManager Class Reference

A class managing the indicator views shown in the bottom bar of the IntroductionActivity. Collaboration diagram for IndicatorManager:

IndicatorManager

Package Functions

IndicatorManager (@NonNull Window window)

Constructor of an IndicatorManager for the given Window.

• void updateIndicators (@IntRange(from=0, to=4) int position)

Updates the indicator views according to the given new position.

Private Attributes

• final ImageView[] indicators = new ImageView[5]

Array of ImageViews that contains the indicator views.

• int currentView = 0

Integer referencing the position, i.e.

5.28.1 Detailed Description

A class managing the indicator views shown in the bottom bar of the IntroductionActivity. The managed views show the user how many pages there are and which one they are on. Definition at line 15 of file IndicatorManager.java.

5.28.2 Constructor & Destructor Documentation

5.28.2.1 IndicatorManager()

```
IndicatorManager (
          @NonNull Window window ) [package]
Constructor of an IndicatorManager for the given Window.
Initializes values in indicators.
```

Parameters

window	Window containing the indicator views.
--------	--

See also

Window::findViewByld(int)
R.id::introduction_indicator_0
R.id::introduction_indicator_1
R.id::introduction_indicator_2
R.id::introduction_indicator_3
R.id::introduction_indicator_4

Definition at line 43 of file IndicatorManager.java.

References IndicatorManager.indicators.

5.28.3 Member Function Documentation

5.28.3.1 updateIndicators()

```
void updateIndicators (
    @IntRange(from=0, to=4) int position ) [package]
```

Updates the indicator views according to the given new position.

Sets the currentView to R.drawable#indicator_unselected and the view at the new position to R.drawable#indicator_selected. Saves the given position in currentView.

Parameters

position Integer referencing the page represented	ed by the managed indicators.
---	-------------------------------

Exceptions

ArrayIndexOutOfBoundsException	When position is not in [0, 4].
--------------------------------	---------------------------------

Definition at line 59 of file IndicatorManager.java.

References IndicatorManager.currentView, and IndicatorManager.indicators.

5.28.4 Member Data Documentation

5.28.4.1 currentView

```
int currentView = 0 [private]
Integer referencing the position, i.e.
```

the index in indicators, of the view that is currently shown as selected. Is set in updateIndicators (int).

See also

#updateIndicators(int)

Definition at line 30 of file IndicatorManager.java. Referenced by IndicatorManager.updateIndicators().

5.28.4.2 indicators

```
final ImageView [] indicators = new ImageView[5] [private]
```

Array of ImageViews that contains the indicator views.

Definition at line 20 of file IndicatorManager.java.

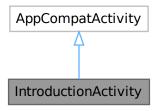
Referenced by IndicatorManager.IndicatorManager(), and IndicatorManager.updateIndicators().

The documentation for this class was generated from the following file:

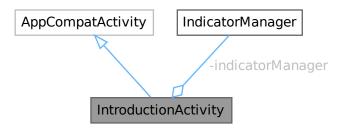
· gwent/ui/introduction/IndicatorManager.java

5.29 IntroductionActivity Class Reference

An AppCompatActivity that gives the user an introduction into the usage of the application. Inheritance diagram for IntroductionActivity:



Collaboration diagram for IntroductionActivity:



Protected Member Functions

void onCreate (Bundle savedInstanceState)

Sets layout to R. layout #activity_introduction, initializes indicatorManager, sets listeners on the buttons, and creates a new OnBackPressedCallback that switches to the previous page, if it is not the first one.

Private Attributes

· IndicatorManager indicatorManager

IndicatorManager used to update the progress indicators according to the currently shown page.

5.29.1 Detailed Description

An ${\tt AppCompatActivity}$ that gives the user an introduction into the usage of the application.

ls called when the app is first started (as tracked by the androidx.preference.Preference at key
R.string#preference_first_use_key.

Definition at line 20 of file IntroductionActivity.java.

5.29.2 Member Function Documentation

5.29.2.1 onCreate()

void onCreate (

Bundle savedInstanceState) [protected]

Sets layout to R.layout#activity_introduction, initializes indicatorManager, sets listeners on the buttons, and creates a new OnBackPressedCallback that switches to the previous page, if it is not the first one.

Parameters

savedInstanceState	e If the activity is being re-initialized after previously being shut down then this Bundle	
	contains the data it most recently supplied in onSaveInstanceState. Note:	
	Otherwise it is null.	

Called when enabled and the user clicks on the back-button. Switches the <code>ViewPager2</code> containing the <code>IntroductionFragments</code> to the last position.

Updates the IntroductionActivity#indicatorManager, changes button-visibility and whether the callback for onBackPressed is active.

See also

IndicatorManager::updateIndicators(int)

Parameters

Definition at line 37 of file IntroductionActivity.java. References IntroductionActivity.indicatorManager.

5.29.3 Member Data Documentation

5.29.3.1 indicatorManager

IndicatorManager indicatorManager [private]

IndicatorManager used to update the progress indicators according to the currently shown page.

Is initialized in onCreate (Bundle).

Definition at line 25 of file IntroductionActivity.java.

Referenced by IntroductionActivity.onCreate().

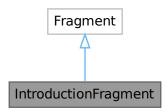
The documentation for this class was generated from the following file:

· gwent/ui/introduction/IntroductionActivity.java

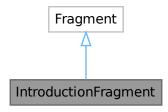
5.30 IntroductionFragment Class Reference

A Fragment containing an ImageView and a TextView conveying introductory information.

Inheritance diagram for IntroductionFragment:



Collaboration diagram for IntroductionFragment:



Public Member Functions

• View onCreateView (@NonNull LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState)

Inflates the R.layout#fragment_introduction layout and sets text and image.

Static Public Member Functions

• static IntroductionFragment newInstance (@IntRange(from=0, to=PAGES_COUNT - 1) int index)

Creates a new IntroductionFragment showing the page defined by the given index.

Static Public Attributes

static final int PAGES_COUNT = 5
 Integer constant defining the number of possible pages represented by this fragment.

Static Private Attributes

- static final String ARG_SECTION_NUMBER = "section_number"

 String constant defining the argument key used to communicate the requested page to the fragment.
- static final int[] imagelds

Integer array constant containing the resource ids for all introductory images.

• static final int[] stringlds

Integer array constant containing the resource ids for all introductory texts.

5.30.1 Detailed Description

A Fragment containing an ImageView and a TextView conveying introductory information. Definition at line 21 of file IntroductionFragment.java.

5.30.2 Member Function Documentation

Factory method of IntroductionFragment.

5.30.2.1 newInstance()

```
static IntroductionFragment newInstance (
          @IntRange(from=0, to=PAGES_COUNT - 1) int index ) [static]
Creates a new IntroductionFragment showing the page defined by the given index.
```

Parameters

index	Integer defining the page that the created fragment shows.
-------	--

Returns

An IntroductionFragment showing the page with the given index.

Exceptions

IllegalArgumentException	When the given index is not in [0, PAGES_COUNT - 1].
--------------------------	--

Definition at line 50 of file IntroductionFragment.java.

References IntroductionFragment.ARG_SECTION_NUMBER, and IntroductionFragment.PAGES_COUNT. Referenced by SectionsPagerAdapter.createFragment().

5.30.2.2 onCreateView()

```
View onCreateView (
     @NonNull LayoutInflater inflater,
     ViewGroup container,
     Bundle savedInstanceState )
```

Inflates the R.layout #fragment_introduction layout and sets text and image.

Parameters

inflater	The LayoutInflater object that can be used to inflate any views in the fragment,
container	If non-null, this is the parent view that the fragment's UI should be attached to. The fragment should not add the view itself, but this can be used to generate the LayoutParams of the view.
savedInstanceState	If non-null, this fragment is being re-constructed from a previous saved state as given here.

Returns

A View that is the root of the newly inflated layout.

Definition at line 75 of file IntroductionFragment.java.

References IntroductionFragment.ARG_SECTION_NUMBER, IntroductionFragment.imageIds, and IntroductionFragment.stringIds.

5.30.3 Member Data Documentation

5.30.3.1 ARG_SECTION_NUMBER

```
final String ARG_SECTION_NUMBER = "section_number" [static], [private]
```

String constant defining the argument key used to communicate the requested page to the fragment. Definition at line 30 of file IntroductionFragment.java.

Referenced by IntroductionFragment.newInstance(), and IntroductionFragment.onCreateView().

5.30.3.2 imagelds

Definition at line 34 of file IntroductionFragment.java.

Referenced by IntroductionFragment.onCreateView().

5.30.3.3 PAGES COUNT

```
final int PAGES_COUNT = 5 [static]
```

Integer constant defining the number of possible pages represented by this fragment.

Is equivalent to the length of stringIds and imageIds.

Definition at line 26 of file IntroductionFragment.java.

Referenced by SectionsPagerAdapter.getItemCount(), and IntroductionFragment.newInstance().

5.30.3.4 stringlds

Definition at line 39 of file IntroductionFragment.java.

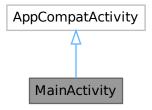
Referenced by IntroductionFragment.onCreateView().

The documentation for this class was generated from the following file:

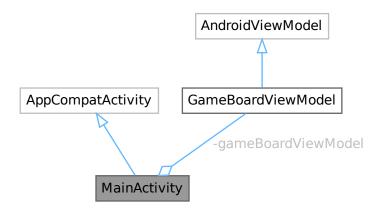
· gwent/ui/introduction/IntroductionFragment.java

5.31 MainActivity Class Reference

An AppCompatActivity that is called on startup and that encapsulates the main view onto the game board. Inheritance diagram for MainActivity:



Collaboration diagram for MainActivity:



Public Member Functions

void onWindowFocusChanged (boolean hasFocus)

Called when the focus of this activities android. view. Window changes.

Protected Member Functions

void onCreate (@Nullable Bundle savedInstanceState)

Sets the theme and layout, initializes gameBoardViewModel and factionSwitchListener and sets listeners for some menu buttons.

• void onResume ()

Called when the application is resumed after a pause or on startup.

void onDestroy ()

Called when the activity is destroyed.

Private Member Functions

void initializeViewModel ()

Initializes the Views in this activity to communicate with the gameBoardViewModel.

void inflateFactionPopup ()

Shows a new ChangeFactionDialog enabling the user to choose the preferred theme.

void inflateCoinFlipPopup ()

Shows a new CoinFlipDialog and plays a coin-flip sound using SoundManager#playCoinSound().

Private Attributes

final CompositeDisposable disposables = new CompositeDisposable()

CompositeDisposable used to store all io.reactivex.rxjava3.disposables.Disposables, this activity might create to allow for their disposal in onDestroy().

• SharedPreferences.OnSharedPreferenceChangeListener factionSwitchListener

SharedPreferences.OnSharedPreferenceChangeListener that is called when faction-layout, i.e., the androidx.preference.Preference at the key defined by com.peternaggschga.gwent.ui.main.FactionSwit is changed.

GameBoardViewModel gameBoardViewModel

GameBoardViewModel holding the ui state of this activity.

5.31.1 Detailed Description

An AppCompatActivity that is called on startup and that encapsulates the main view onto the game board. Definition at line 46 of file MainActivity.java.

5.31.2 Member Function Documentation

5.31.2.1 inflateCoinFlipPopup()

```
void inflateCoinFlipPopup ( ) [private]
```

Shows a new CoinFlipDialog and plays a coin-flip sound using SoundManager#playCoinSound().

Definition at line 274 of file MainActivity.java.

References MainActivity.gameBoardViewModel, and GameBoardViewModel.getSoundManager().

Referenced by MainActivity.onCreate().

5.31.2.2 inflateFactionPopup()

```
void inflateFactionPopup ( ) [private]
```

Shows a new ChangeFactionDialog enabling the user to choose the preferred theme.

The decision is saved in the preference at the key <code>FactionSwitchListener#THEME_PREFERENCE_KEY</code> and if the user opted to reset on faction switch (i.e., the preference at <code>R.string#preference_key_faction_reset</code> is true), <code>GameBoardViewModel#onFactionSwitchReset</code> (<code>Context</code>) is called.

Definition at line 250 of file MainActivity.java.

References MainActivity.disposables, MainActivity.gameBoardViewModel, and GameBoardViewModel.onFactionSwitchReset(). Referenced by MainActivity.onCreate().

5.31.2.3 initializeViewModel()

```
void initializeViewModel ( ) [private]
```

Initializes the Views in this activity to communicate with the gameBoardViewModel.

Sets android.widget.Button.OnClickListener for the weather-, horn-, and card-views of each row as well as listeners for the reset-, weather- and burn-buttons.

Definition at line 191 of file MainActivity.java.

References MainActivity.disposables, MainActivity.gameBoardViewModel, GameBoardViewModel.getMenuUiState(), RowUiStateObserver.getObserver(), GwentApplication.getRepository(), GameBoardViewModel.getRowUiState(),

GameBoardViewModel.getSoundManager(), GameBoardViewModel.onBurnButtonPressed(), GameBoardViewModel.onHornViewPrGameBoardViewModel.onResetButtonPressed(), GameBoardViewModel.onWeatherButtonPressed(), and GameBoardViewModel.onWeatherViewPressed().

Referenced by MainActivity.onCreate().

5.31.2.4 onCreate()

```
void onCreate (
```

 $\verb§Mullable Bundle savedInstanceState) [protected]$

Sets the theme and layout, initializes <code>gameBoardViewModel</code> and <code>factionSwitchListener</code> and sets listeners for some menu buttons.

If the application is started for the first time (as tracked by the preference at key R.string#preference_first_use_key) the IntroductionActivity is called first. The theme is set according to the preference at the key specified by FactionSwitchListener#THEME_PREFERENCE_KEY. The layout is set to R.layout#activity_main. android.widget.Button.OnClickListeners are set for the buttons referenced by R.id#factionButton, R.id#coinButton, and R.id#settingsButton.

Parameters

savedInstanceState	If the activity is being re-initialized after previously being shut down then this Bundle	
	contains the data it most recently supplied in onSaveInstanceState. Note:	
	Otherwise it is null.	

Definition at line 83 of file MainActivity.java.

References MainActivity.disposables, MainActivity.factionSwitchListener, MainActivity.gameBoardViewModel,

FactionSwitchListener.getListener(), MainActivity.inflateCoinFlipPopup(), FactionSwitchListener.setTheme(). $\label{lem:continuity} Game Board View Model. get Model(), \qquad Gwent Application. get Repository(), \\ Main Activity. in that Exaction Popup(), \qquad Main Activity. in that I would be a property of the property$

5.31.2.5 onDestroy()

```
void onDestroy ( ) [protected]
```

Called when the activity is destroyed.

Disposes and clears all io.reactivex.rxjava3.disposables.Disposables in disposables.

Definition at line 180 of file MainActivity.java.

References MainActivity.disposables.

5.31.2.6 onResume()

```
void onResume ( ) [protected]
```

Called when the application is resumed after a pause or on startup.

Sets the background image according to the preference at the key referenced by R. string#preference_key_design. Definition at line 124 of file MainActivity.java.

5.31.2.7 onWindowFocusChanged()

Called when the focus of this activities android.view.Window changes.

Hides system ui and sets flags to keep the screen on when the window is in focus for more than 250 ms.

Parameters

hasFocus	Whether the window of this activity has focus.
----------	--

Definition at line 154 of file MainActivity.java.

5.31.3 Member Data Documentation

5.31.3.1 disposables

final CompositeDisposable disposables = new CompositeDisposable() [private] CompositeDisposable used to store all io.reactivex.rxjava3.disposables.Disposables, this activity might create to allow for their disposal in onDestroy().

Definition at line 52 of file MainActivity.java.

Referenced by MainActivity.inflateFactionPopup(), MainActivity.initializeViewModel(), MainActivity.onCreate(), and MainActivity.onDestroy().

5.31.3.2 factionSwitchListener

SharedPreferences.OnSharedPreferenceChangeListener factionSwitchListener [private]

SharedPreferences.OnSharedPreferenceChangeListener that is called when faction-layout, i.e.,

is changed.

the androidx.preference.Preference at the key defined by com.peternaggschga.gwent.ui.main.FactionS

Reference must be kept (even if not used) to avoid garbage collection of the registered listener (see here for more information).

Definition at line 61 of file MainActivity.java.

Referenced by MainActivity.onCreate().

5.31.3.3 gameBoardViewModel

```
GameBoardViewModel gameBoardViewModel [private]
```

 ${\tt GameBoardViewModel} \ \ \textbf{holding the ui state of this activity}.$

Definition at line 66 of file MainActivity.java.

Referenced by MainActivity.inflateCoinFlipPopup(), MainActivity.inflateFactionPopup(), MainActivity.initializeViewModel(), and MainActivity.onCreate().

The documentation for this class was generated from the following file:

· gwent/ui/main/MainActivity.java

5.32 MenuUiState Class Reference

A data class encapsulating the visible state of the menu in the main view of the application. Collaboration diagram for MenuUiState:

MenuUiState

Public Member Functions

MenuUiState (@IntRange(from=0) int damage, boolean reset, boolean weather, boolean burn)
 Constructor of a MenuUiState encapsulating the given data.

• int getDamage ()

Returns the summed-up damage of all units on the game board.

· boolean isReset ()

Returns whether the reset button is clickable.

• boolean isWeather ()

Returns whether the weather button is clickable.

boolean isBurn ()

Returns whether the burn button is clickable.

· boolean equals (Object o)

Private Attributes

· final int damage

Defines the summed-up damage of all units on the game board.

· final boolean reset

Defines whether the reset button is clickable.

· final boolean weather

Defines whether the weather button is clickable.

· final boolean burn

Defines whether the burn button is clickable.

5.32.1 Detailed Description

A data class encapsulating the visible state of the menu in the main view of the application. Definition at line 10 of file MenuUiState.java.

5.32.2 Constructor & Destructor Documentation

5.32.2.1 MenuUiState()

```
MenuUiState (
    @IntRange(from=0) int damage,
    boolean reset,
    boolean weather,
    boolean burn )
```

Constructor of a MenuUiState encapsulating the given data.

Parameters

damage	Integer representing the summed-up damage of all units.	
reset	Boolean defining whether the reset button is clickable.	
weather	Boolean defining whether the weather button is clickable.	
burn	Boolean defining whether the burn button is clickable.	

Exceptions

IllegalArgumentException When damage is negative
--

Definition at line 41 of file MenuUiState.java.

References MenuUiState.burn, MenuUiState.damage, MenuUiState.reset, and MenuUiState.weather.

5.32.3 Member Function Documentation

5.32.3.1 equals()

Definition at line 89 of file MenuUiState.java.

5.32.3.2 getDamage()

```
int getDamage ( )
```

Returns the summed-up damage of all units on the game board.

Returns

An Integer representing the summed-up damage of all units.

Definition at line 57 of file MenuUiState.java.

References MenuUiState.damage.

5.32.3.3 isBurn()

```
boolean isBurn ( )
```

Returns whether the burn button is clickable.

Returns

A Boolean defining whether the burn button is clickable.

Definition at line 84 of file MenuUiState.java.

References MenuUiState.burn.

5.32.3.4 isReset()

```
boolean isReset ( )
```

Returns whether the reset button is clickable.

Returns

A Boolean defining whether the reset button is clickable.

Definition at line 66 of file MenuUiState.java.

References MenuUiState.reset.

5.32.3.5 isWeather()

```
boolean isWeather ( )
```

Returns whether the weather button is clickable.

Returns

A Boolean defining whether the weather button is clickable.

Definition at line 75 of file MenuUiState.java.

References MenuUiState.weather.

5.32.4 Member Data Documentation

5.32.4.1 burn

```
final boolean burn [private]
```

Defines whether the burn button is clickable.

Definition at line 30 of file MenuUiState.java.

Referenced by MenuUiState.MenuUiState(), and MenuUiState.isBurn().

5.32.4.2 damage

```
final int damage [private]
```

Defines the summed-up damage of all units on the game board.

Definition at line 15 of file MenuUiState.java.

Referenced by MenuUiState.MenuUiState(), and MenuUiState.getDamage().

5.32.4.3 reset

```
final boolean reset [private]
```

Defines whether the reset button is clickable.

Definition at line 20 of file MenuUiState.java.

Referenced by MenuUiState.MenuUiState(), and MenuUiState.isReset().

5.32.4.4 weather

```
final boolean weather [private]
```

Defines whether the weather button is clickable.

Definition at line 25 of file MenuUiState.java.

Referenced by MenuUiState.MenuUiState(), and MenuUiState.isWeather().

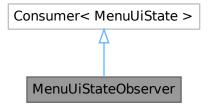
The documentation for this class was generated from the following file:

• gwent/ui/main/MenuUiState.java

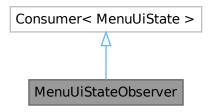
5.33 MenuUiStateObserver Class Reference

An observer class responsible for updating the menu views when notified, i.e., when a new MenuUiState is produced by the subscribed Flowable.

Inheritance diagram for MenuUiStateObserver:



Collaboration diagram for MenuUiStateObserver:



Public Member Functions

MenuUiStateObserver (@NonNull TextView damageView, @NonNull ImageButton resetButton, @NonNull ImageButton weatherButton, @NonNull ImageButton burnButton)

Constructor of a MenuUiStateObserver updating the given views when #onChanged() is called.

void accept (@NonNull MenuUiState menuUiState)

Changes value in #damageView as well as appearance and clickable status of #resetButton, #weatherButton, and #burnButton.

Private Attributes

• final TextView damageView

A TextView showing the user the summed-up damage of all units, i.e., MenuUiState::damage.

• final ImageButton resetButton

An ImageButton responsible for resetting the whole board, i.e., clearing weather and commander's horn and deleting all units.

• final ImageButton weatherButton

An ImageButton responsible for clearing all weather effects.

• final ImageButton burnButton

An ImageButton responsible for deleting the units with the highest damage.

5.33.1 Detailed Description

An observer class responsible for updating the menu views when notified, i.e., when a new MenuUiState is produced by the subscribed Flowable.

See also

MenuUiState

Definition at line 18 of file MenuUiStateObserver.java.

5.33.2 Constructor & Destructor Documentation

5.33.2.1 MenuUiStateObserver()

Constructor of a MenuUiStateObserver updating the given views when #onChanged() is called.

Parameters

damageView	TextView showing the summed-up damage of all units.	
resetButton	ImageButton used to reset the whole game board.	
weatherButton	atherButton ImageButton used to reset the weather debuff in all rows.	
burnButton	ImageButton used to remove the strongest units from the game board.	

Definition at line 55 of file MenuUiStateObserver.java.

References MenuUiStateObserver.burnButton, MenuUiStateObserver.damageView, MenuUiStateObserver.resetButton, and MenuUiStateObserver.weatherButton.

5.33.3 Member Function Documentation

5.33.3.1 accept()

```
void accept ( {\tt @NonNull\ MenuUiState\ menuUiState\ )}
```

Changes value in #damageView as well as appearance and clickable status of #resetButton, #weatherButton, and #burnButton.

Appearance changes are animated using ImageViewSwitchAnimator.

Parameters

1	menuUiState	MenuUiState representing the updated state of the menu.
---	-------------	---

See also

ImageViewSwitchAnimator

Definition at line 72 of file MenuUiStateObserver.java.

References ImageViewSwitchAnimator.animatedSwitch(), MenuUiStateObserver.burnButton, MenuUiStateObserver.damageView, MenuUiStateObserver.resetButton, and MenuUiStateObserver.weatherButton.

5.33.4 Member Data Documentation

5.33.4.1 burnButton

final ImageButton burnButton [private]

An ImageButton responsible for deleting the units with the highest damage.

Is not clickable and gray when MenuUiState::burn is false.

Definition at line 45 of file MenuUiStateObserver.java.

Referenced by MenuUiStateObserver.MenuUiStateObserver(), and MenuUiStateObserver.accept().

5.33.4.2 damageView

final TextView damageView [private]

A TextView showing the user the summed-up damage of all units, i.e., MenuUiState::damage.

Definition at line 23 of file MenuUiStateObserver.java.

Referenced by MenuUiStateObserver.MenuUiStateObserver(), and MenuUiStateObserver.accept().

5.33.4.3 resetButton

final ImageButton resetButton [private]

An ImageButton responsible for resetting the whole board, i.e., clearing weather and commander's horn and deleting all units

Is not clickable and gray when MenuUiState::reset is false.

Definition at line 31 of file MenuUiStateObserver.java.

Referenced by MenuUiStateObserver.MenuUiStateObserver(), and MenuUiStateObserver.accept().

5.33.4.4 weatherButton

final ImageButton weatherButton [private]

An ImageButton responsible for clearing all weather effects.

Is not clickable and gray when MenuUiState::weather is false.

Definition at line 38 of file MenuUiStateObserver.java.

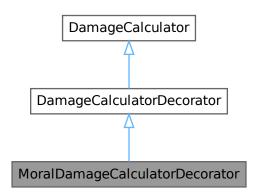
Referenced by MenuUiStateObserver.MenuUiStateObserver(), and MenuUiStateObserver.accept().

The documentation for this class was generated from the following file:

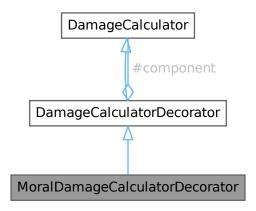
• gwent/ui/main/MenuUiStateObserver.java

5.34 MoralDamageCalculatorDecorator Class Reference

A DamageCalculator class responsible for calculating the moral buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability that are not the unit the damage is calculated for. Inheritance diagram for MoralDamageCalculatorDecorator:



Collaboration diagram for MoralDamageCalculatorDecorator:



Public Member Functions

- int calculateDamage (int id, @IntRange(from=0) int damage)
 - Calculates the (de-)buffed damage of unit with the given id and the given base-damage.
- Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

Package Functions

MoralDamageCalculatorDecorator (@NonNull DamageCalculator component, @NonNull List< Integer > unitIds)

Constructor of a MoralDamageCalculatorDecorator.

Package Functions inherited from DamageCalculatorDecorator

DamageCalculatorDecorator (@NonNull DamageCalculator component)
 Constructor of a DamageCalculatorDecorator.

Private Attributes

• final List< Integer > unitlds

A List of Integers containing the ids of all units with the com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability.

Additional Inherited Members

Protected Attributes inherited from DamageCalculatorDecorator

· final DamageCalculator component

A DamageCalculator which is decorated by this decorator.

5.34.1 Detailed Description

A DamageCalculator class responsible for calculating the moral buff if necessary, i.e., if there are units with the com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability that are not the unit the damage is calculated for.

Acts as a ConcreteDecorator in the implemented decorator pattern and should decorate a WeatherDamage Calculator or a BondDamageCalculatorDecorator for correct damage calculation.

Definition at line 17 of file MoralDamageCalculatorDecorator.java.

5.34.2 Constructor & Destructor Documentation

5.34.2.1 MoralDamageCalculatorDecorator()

Constructor of a MoralDamageCalculatorDecorator.

Should only be called by DamageCalculatorBuilder. The given damage calculator should be of type Weather DamageCalculator or BondDamageCalculatorDecorator for correct damage calculation. The given List must not contain null.

Parameters

component	DamageCalculator that is being decorated by this decorator.
unitlds	List of Integers representing ids of units with the
	com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability.

Exceptions

IllegalArgumentException	When unitIds contains null values.
--------------------------	------------------------------------

See also

DamageCalculatorBuilder

Definition at line 36 of file MoralDamageCalculatorDecorator.java.

References DamageCalculatorDecorator.component, and MoralDamageCalculatorDecorator.unitlds.

5.34.3 Member Function Documentation

5.34.3.1 calculateDamage()

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

Returns the given damage plus the number of moral boosts. If the unit itself has the com.peternaggschga.gwent.data.Ability::MORAL_lability, it is boosted one time less.

Parameters

id Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the UnitEntity (de-)buff damage is calculated and integer representing the U		Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated.
	damage	Integer representing the base-damage of the unit whose (de-)buff damage is calculated.

Returns

Integer representing the (de-)buffed damage of the unit.

Exceptions

IllegalArgumentException	When damage is negative.
--------------------------	--------------------------

Implements DamageCalculator.

Definition at line 56 of file MoralDamageCalculatorDecorator.java.

References DamageCalculator.calculateDamage(), DamageCalculatorDecorator.component, and MoralDamageCalculatorDecorator.

5.34.3.2 isBuffed()

```
Color isBuffed (
```

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT. Units are shown as Color::BUFFED when they are affected by a moral boost buff, otherwise their Color is defined by #component.

Parameters

Integer representing the UnitEntity::id of the unit buff status is calculated.

Returns

Color representing whether the unit is buffed, de-buffed or not affected.

See also

Color

Implements DamageCalculator.

Definition at line 75 of file MoralDamageCalculatorDecorator.java.

References DamageCalculatorDecorator.component, DamageCalculator.isBuffed(), and MoralDamageCalculatorDecorator.unitIds.

5.34.4 Member Data Documentation

5.34.4.1 unitlds

```
final List<Integer> unitIds [private]
```

and MoralDamageCalculatorDecorator.isBuffed().

A List of Integers containing the ids of all units with the com.peternaggschga.gwent.data.Ability::MORAL_BOOST ability.

Definition at line 22 of file MoralDamageCalculatorDecorator.java.

Referenced by MoralDamageCalculatorDecorator.MoralDamageCalculatorDecorator.(), MoralDamageCalculatorDecorator.calculateDamageCalculatorDecorator.

The documentation for this class was generated from the following file:

· gwent/domain/damage/MoralDamageCalculatorDecorator.java

OnValueChangeListener < T extends Comparable Interface 5.35 **Template Reference**

An interface defining a callback for changes of the current value.

Collaboration diagram for OnValueChangeListener< T extends Comparable:

OnValueChangeListener < T extends Comparable

5.35.1 Detailed Description

An interface defining a callback for changes of the current value.

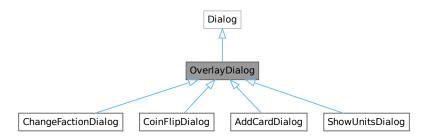
Definition at line 211 of file ValuePicker.java.

The documentation for this interface was generated from the following file:

· gwent/ui/dialogs/addcard/ValuePicker.java

5.36 OverlayDialog Class Reference

A Dialog class which is used for popups that are shown on top of the calling Activity. Inheritance diagram for Overlay Dialog:



Collaboration diagram for OverlayDialog:



Protected Member Functions

- OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)
 Constructor of an OverlayDialog in the given Context, with the given layout and dismissViewId.
- Overlay Dialog (@NonNull Context context, @LayoutRes int layout)

Constructor of an OverlayDialog in the given Context and with the given layout.

void onCreate (Bundle savedInstanceState)

Initializes #layout using #setContentView(int).

Static Package Attributes

• static final int NO_DISMISS_VIEW = -1

Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

Private Attributes

· final int layout

Integer referencing the layout shown by the Dialog.

· final int dismissViewId

Integer referencing a view that can be clicked to dismiss the Dialog.

Static Private Attributes

• static final ColorDrawable BACKGROUND = new ColorDrawable(Color.TRANSPARENT)

ColorDrawable shown as the background of the Dialog (above the calling Activity).

5.36.1 Detailed Description

A Dialog class which is used for popups that are shown on top of the calling Activity.

The Dialog uses the layout specified in #layout with the #BACKGROUND color as the background. The view specified by #dismissViewId may be clicked to dismiss the dialog.

Definition at line 22 of file OverlayDialog.java.

5.36.2 Constructor & Destructor Documentation

5.36.2.1 OverlayDialog() [1/2]

```
OverlayDialog (
     @NonNull Context context,
     @LayoutRes int layout,
     @IdRes int dismissViewId ) [protected]
```

Constructor of an OverlayDialog in the given Context, with the given layout and dismissViewId.

When dismissViewId is equal to #NO CANCEL VIEW, the Dialog is not cancelable by clicking on a certain view.

Parameters

context	ct Context of the created OverlayDialog.	
layout	Integer referencing the layout shown by the created OverlayDialog.	
dismiss⊷ Viewld	Integer referencing the cancel view or #NO_CANCEL_VIEW.	

Definition at line 54 of file OverlayDialog.java.

References OverlayDialog.dismissViewId, and OverlayDialog.layout.

5.36.2.2 OverlayDialog() [2/2]

```
OverlayDialog (
     @NonNull Context context,
     @LayoutRes int layout ) [protected]
```

Constructor of an OverlayDialog in the given Context and with the given layout.

 $Wrapper\ of\ \#Overlay Dialog(Context,\ int,\ int).$

See also

#OverlayDialog(Context, int, int)

Parameters

context	Context of the created OverlayDialog.
layout	Integer referencing the layout shown by the created OverlayDialog.

Definition at line 68 of file Overlay Dialog. java.

References OverlayDialog.layout, and OverlayDialog.NO_DISMISS_VIEW.

5.36.3 Member Function Documentation

5.36.3.1 onCreate()

void onCreate (

Bundle savedInstanceState) [protected]

Initializes #layout using #setContentView(int).

Sets View.OnClickListener canceling the dialog for the View referenced by #dismissViewId if it is set. Switches whether the Dialog is cancelable using #setCancelable().

Parameters

savedInstanceState	If this dialog is being reinitialized after the hosting activity was previously shut down,
	holds the result from the most recent call to <code>onSaveInstanceState</code> , or null if this is
	the first time.

See also

#setContentView(int)

#setCancelable(boolean)

Reimplemented in AddCardDialog, ShowUnitsDialog, ChangeFactionDialog, and CoinFlipDialog.

Definition at line 85 of file Overlay Dialog. java.

References OverlayDialog.BACKGROUND, OverlayDialog.dismissViewId, OverlayDialog.layout, and OverlayDialog.NO_DISMISS_VI

5.36.4 Member Data Documentation

5.36.4.1 BACKGROUND

final ColorDrawable BACKGROUND = new ColorDrawable(Color.TRANSPARENT) [static], [private]

ColorDrawable shown as the background of the Dialog (above the calling Activity).

Definition at line 33 of file OverlayDialog.java.

Referenced by OverlayDialog.onCreate().

5.36.4.2 dismissViewId

```
final int dismissViewId [private]
```

Integer referencing a view that can be clicked to dismiss the Dialog.

Should be equal to #NO_CANCEL_VIEW, when the Dialog is not cancelable.

See also

#NO_DISMISS_VIEW

Definition at line 45 of file Overlay Dialog. java.

Referenced by OverlayDialog.OverlayDialog(), and OverlayDialog.onCreate().

5.36.4.3 layout

```
final int layout [private]
```

Integer referencing the layout shown by the Dialog.

Definition at line 38 of file OverlayDialog.java.

Referenced by OverlayDialog.OverlayDialog(), OverlayDialog.OverlayDialog(), and OverlayDialog.onCreate().

5.36.4.4 NO_DISMISS_VIEW

```
final int NO_DISMISS_VIEW = -1 [static], [package]
```

Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

See also

#dismissViewId

Definition at line 28 of file OverlayDialog.java.

Referenced by OverlayDialog.OverlayDialog(), and OverlayDialog.onCreate().

The documentation for this class was generated from the following file:

· gwent/ui/dialogs/OverlayDialog.java

5.37 RemoveUnitsUseCase Class Reference

A use case class responsible for removing units from a UnitRepository. Collaboration diagram for RemoveUnitsUseCase:

RemoveUnitsUseCase

Static Public Member Functions

static Completable remove (@NonNull Context context, @NonNull UnitRepository repository, @NonNull Collection < UnitEntity > units, @NonNull SoundManager soundManager)

Removes the given UnitEntity objects from the given UnitRepository.

static Completable remove (@NonNull Context context, @NonNull UnitRepository repository, int id, @Non
 — Null SoundManager soundManager)

Removes the unit with the given id from the given UnitRepository.

Static Private Member Functions

 static Dialog getRevengeDialog (@NonNull Context context, @NonNull UnitRepository repository, @NonNull CompletableEmitter emitter, @NonNull Collection < UnitEntity > units, @IntRange(from=1) int revengeUnits, @NonNull SoundManager soundManager)

Creates a Dialog asking whether the Ability::REVENGE ability should be activated.

5.37.1 Detailed Description

A use case class responsible for removing units from a UnitRepository.

Capable of invoking a Dialog if a UnitEntity with the Ability::REVENGE ability is removed. Should not be used directly by the UI layer.

See also

BurnDialogUseCase

Definition at line 27 of file RemoveUnitsUseCase.java.

5.37.2 Member Function Documentation

5.37.2.1 getRevengeDialog()

```
static Dialog getRevengeDialog (
     @NonNull Context context,
     @NonNull UnitRepository repository,
```

```
@NonNull CompletableEmitter emitter,
@NonNull Collection< UnitEntity > units,
@IntRange(from=1) int revengeUnits,
@NonNull SoundManager soundManager) [static], [private]
```

Creates a Dialog asking whether the Ability::REVENGE ability should be activated.

The Dialog is created using an RevengeAlertDialogBuilderAdapter.

Parameters

context	Context of the shown Dialog.	
repository	UnitRepository where the UnitEntity objects are removed and avengers are inserted.	
emitter	CompletableEmitter where CompletableEmitter::onComplete must be called, when the user makes a decision.	
units	Collection of UnitEntity objects that are removed.	
revengeUnits	Long representing the number of revenge units.	
soundManager	SoundManager used when an Avenger is added.	

Returns

A Dialog asking whether the Ability::REVENGE ability should be activated.

See also

RevengeAlertDialogBuilderAdapter::insertAvengers(UnitRepository, int, SoundManager)

Definition at line 89 of file RemoveUnitsUseCase.java.

References RevengeAlertDialogBuilderAdapter.create(), RevengeAlertDialogBuilderAdapter.insertAvengers(), and RevengeAlertDialogBuilderAdapter.setPositiveCallback().

Referenced by RemoveUnitsUseCase.remove().

5.37.2.2 remove() [1/2]

```
static Completable remove (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     @NonNull Collection< UnitEntity > units,
     @NonNull SoundManager soundManager ) [static]
```

Removes the given UnitEntity objects from the given UnitRepository.

If a UnitEntity has the Ability::REVENGE ability, a Dialog asking whether the ability should be used is shown.

Parameters

context	Context of the shown Dialog.
repository	UnitRepository where the UnitEntity objects are removed.
units	Collection of UnitEntity objects that are removed.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Completable tracking operation status.

Exceptions

NullPointerException	When units contains a null value.
----------------------	-----------------------------------

See also

#getRevengeDialog(Context, UnitRepository, CompletableEmitter, Collection, int, SoundManager)
UnitRepository::delete(Collection)

Definition at line 43 of file RemoveUnitsUseCase.java. References RemoveUnitsUseCase.getRevengeDialog().

5.37.2.3 remove() [2/2]

```
static Completable remove (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     int id,
     @NonNull SoundManager soundManager) [static]
```

Removes the unit with the given id from the given UnitRepository.

If the unit has the Ability::REVENGE ability, a Dialog asking whether the ability should be used is shown. Wrapper of #remove(Context, UnitRepository, Collection).

Parameters

context	Context of the shown Dialog.
repository	UnitRepository where the UnitEntity objects are removed.
id	Integer

Returns

A Completable tracking operation status.

See also

#remove(Context, UnitRepository, Collection, SoundManager)

Definition at line 68 of file RemoveUnitsUseCase.java.

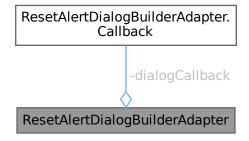
The documentation for this class was generated from the following file:

• gwent/domain/cases/RemoveUnitsUseCase.java

5.38 ResetAlertDialogBuilderAdapter Class Reference

An adapter class adapting AlertDialog.Builder to provide an interface for creating an AlertDialog asking the user whether he really wants to reset.

Collaboration diagram for ResetAlertDialogBuilderAdapter:



Classes

interface Callback

An interface defining functions to propagate the user's decision back to the creator.

Package Functions

- ResetAlertDialogBuilderAdapter (@NonNull Context context, @NonNull Callback dialogCallback)
 Constructor of a ResetAlertDialogBuilderAdapter.
- AlertDialog create ()

Creates an AlertDialog with the arguments supplied to this builder.

• ResetAlertDialogBuilderAdapter setTrigger (@NonNull ResetDialogUseCase.Trigger trigger)

Changes the shown message of the AlertDialog and whether it is cancelable depending on the trigger of the dialog.

ResetAlertDialogBuilderAdapter setMonsterDialog (boolean monsterDialog)

Changes the positive button callback depending on whether it is a monsterDialog or not.

Private Attributes

· final AlertDialog.Builder adapteeBuilder

AlertDialog.Builder that is adapted by this class.

final Callback dialogCallback

Callback used to propagate the user's answer to the built AlertDialog back to its creator.

5.38.1 Detailed Description

An adapter class adapting AlertDialog.Builder to provide an interface for creating an AlertDialog asking the user whether he really wants to reset.

Definition at line 16 of file ResetAlertDialogBuilderAdapter.java.

5.38.2 Constructor & Destructor Documentation

5.38.2.1 ResetAlertDialogBuilderAdapter()

Constructor of a ResetAlertDialogBuilderAdapter.

The given Callback is called when the user responds to the built AlertDialog.

Parameters

context	Context of the built AlertDialog.
dialogCallback	Callback used to propagate the user's answer to the creator.

Definition at line 36 of file ResetAlertDialogBuilderAdapter.java.

References ResetAlertDialogBuilderAdapter.dialogCallback, and ResetAlertDialogBuilderAdapter.Callback.reset().

5.38.3 Member Function Documentation

5.38.3.1 create()

```
AlertDialog create ( ) [package]
```

Creates an AlertDialog with the arguments supplied to this builder.

Basically just calls AlertDialog.Builder::create() on #adapteeBuilder.

See also

AlertDialog.Builder::create()

Definition at line 52 of file ResetAlertDialogBuilderAdapter.java.

References ResetAlertDialogBuilderAdapter.adapteeBuilder.

Referenced by ResetDialogUseCase.reset().

5.38.3.2 setMonsterDialog()

Changes the positive button callback depending on whether it is a monsterDialog or not.

When it is a monsterDialog, a checkbox is shown defining whether the perk of monster faction should be activated.

Parameters

Boolean defining whether a monsterDialog should be s	nown.
--	-------

Returns

The ResetAlertDialogBuilderAdapter with the changed trigger.

Definition at line 81 of file ResetAlertDialogBuilderAdapter.java.

References ResetAlertDialogBuilderAdapter.adapteeBuilder, ResetAlertDialogBuilderAdapter.dialogCallback, and ResetAlertDialogBuilderAdapter.Callback.reset().

Referenced by ResetDialogUseCase.reset().

5.38.3.3 setTrigger()

Changes the shown message of the AlertDialog and whether it is cancelable depending on the trigger of the dialog.

Parameters

trigger	ResetDialogUseCase.Trigger defining what triggered the reset.
---------	---

Returns

The ResetAlertDialogBuilderAdapter with the changed trigger.

Definition at line 64 of file ResetAlertDialogBuilderAdapter.java.

References ResetAlertDialogBuilderAdapter.adapteeBuilder, and ResetDialogUseCase.Trigger.FACTION_SWITCH.

5.38.4 Member Data Documentation

5.38.4.1 adapteeBuilder

```
final AlertDialog.Builder adapteeBuilder [private]
```

AlertDialog.Builder that is adapted by this class.

Definition at line 21 of file ResetAlertDialogBuilderAdapter.java.

Referenced by ResetAlertDialogBuilderAdapter.create(), ResetAlertDialogBuilderAdapter.setMonsterDialog(), and ResetAlertDialogBuilderAdapter.setTrigger().

5.38.4.2 dialogCallback

```
final Callback dialogCallback [private]
```

Callback used to propagate the user's answer to the built AlertDialog back to its creator.

Definition at line 27 of file ResetAlertDialogBuilderAdapter.java.

Referenced by ResetAlertDialogBuilderAdapter.ResetAlertDialogBuilderAdapter(), and ResetAlertDialogBuilderAdapter.setMonster

· gwent/domain/cases/ResetAlertDialogBuilderAdapter.java

5.39 ResetDialogUseCase Class Reference

A use case class responsible for dispatching a reset call to ResetRepositoryUseCase, possibly after a confirmation by the user obtained from a Dialog.

Collaboration diagram for ResetDialogUseCase:

ResetDialogUseCase

Classes

enum DialogType

An Enum defining which form of Dialog should be shown.

· enum Trigger

An Enum listing the possible triggers of a reset.

Static Public Member Functions

static Single < Boolean > reset (@NonNull Context context, @NonNull Trigger trigger, @NonNull Sound ← Manager soundManager)

Resets the given UnitRepository.

Static Protected Member Functions

static Single < Boolean > reset (@NonNull Context context, @NonNull UnitRepository repository, @NonNull Trigger trigger, @NonNull SoundManager soundManager)

Resets the given UnitRepository.

Static Private Member Functions

 static Single < DialogType > getDialogType (@NonNull Context context, @NonNull UnitRepository repository, @NonNull Trigger trigger)

Returns a DialogType defining which kind of Dialog should be invoked.

5.39.1 Detailed Description

A use case class responsible for dispatching a reset call to ResetRepositoryUseCase, possibly after a confirmation by the user obtained from a Dialog.

See also

ResetRepositoryUseCase

Definition at line 31 of file ResetDialogUseCase.java.

5.39.2 Member Function Documentation

5.39.2.1 getDialogType()

```
static Single< DialogType > getDialogType (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     @NonNull Trigger trigger) [static], [private]
```

Returns a DialogType defining which kind of Dialog should be invoked.

Parameters

context	Context used for retrieval of SharedPreferences.
repository	UnitRepository used to check if a certain DialogType is even necessary.
trigger	Trigger defining what triggered the reset.

Returns

A DialogType defining the kind of Dialog.

See also

DialogType

Definition at line 102 of file ResetDialogUseCase.java.

References ResetDialogUseCase.DialogType.DEFAULT, and ResetDialogUseCase.DialogType.NONE. Referenced by ResetDialogUseCase.reset().

5.39.2.2 reset() [1/2]

```
static Single< Boolean > reset (
          @NonNull Context context,
          @NonNull Trigger trigger,
          @NonNull SoundManager soundManager ) [static]
```

Resets the given UnitRepository.

May invoke a Dialog asking whether the user really wants to reset depending on the given trigger and warning settings. ResetRepositoryUseCase is used for resetting. Wrapper for #reset(Context, UnitRepository, Trigger).

Parameters

context	Context where a Dialog can be inflated.
trigger	Trigger defining what triggered this reset.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Single emitting a Boolean defining whether the reset really took place.

See also

```
#reset(Context, UnitRepository, Trigger, SoundManager)
ResetRepositoryUseCase::reset(Context, UnitRepository, boolean, SoundManager)
```

Definition at line 47 of file ResetDialogUseCase.java.

 $References\ Gwent Application.get Repository (),\ and\ Reset Dialog Use Case.reset ().$

Referenced by ResetDialogUseCase.reset().

5.39.2.3 reset() [2/2]

```
static Single< Boolean > reset (
          @NonNull Context context,
          @NonNull UnitRepository repository,
          @NonNull Trigger trigger,
          @NonNull SoundManager soundManager ) [static], [protected]
```

Resets the given UnitRepository.

May invoke a Dialog asking whether the user really wants to reset depending on the given trigger and warning settings. ResetRepositoryUseCase is used for resetting.

Parameters

context	Context where a Dialog can be inflated.
repository	UnitRepository that is reset.
trigger	Trigger defining what triggered this reset.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Single emitting a Boolean defining whether the reset really took place.

See also

ResetRepositoryUseCase::reset(Context, UnitRepository, boolean, SoundManager)

Definition at line 66 of file ResetDialogUseCase.java.

References ResetAlertDialogBuilderAdapter.create(), ResetDialogUseCase.getDialogType(), ResetDialogUseCase.DialogType.MONE ResetDialogUseCase.DialogType.NONE, ResetRepositoryUseCase.reset(), and ResetAlertDialogBuilderAdapter.setMonsterDialog(). The documentation for this class was generated from the following file:

• gwent/domain/cases/ResetDialogUseCase.java

5.40 ResetRepositoryUseCase Class Reference

A use case class responsible for resetting the UnitRepository. Collaboration diagram for ResetRepositoryUseCase:

ResetRepositoryUseCase

Static Public Member Functions

static Completable reset (@NonNull Context context, @NonNull UnitRepository repository, @NonNull SoundManager)

Resets the given UnitRepository.

Static Package Functions

 static Maybe < UnitEntity > reset (@NonNull Context context, @NonNull UnitRepository repository, boolean keepUnit, @NonNull SoundManager soundManager)

Resets the given UnitRepository and keeps one random unit if keepUnit is true.

Static Private Member Functions

static Optional < UnitEntity > getRandomUnit (@NonNull List < UnitEntity > units)
 Selects a random unit that is not epic.

 static Dialog getRevengeDialog (@NonNull Context context, @NonNull UnitRepository repository, @NonNull CompletableEmitter emitter, @Nullable UnitEntity keptUnit, @IntRange(from=1) int revengeUnits, @NonNull SoundManager soundManager)

Creates a Dialog asking whether the Ability::REVENGE ability should be activated.

5.40.1 Detailed Description

A use case class responsible for resetting the UnitRepository.

Capable of invoking a Dialog if a UnitEntity with the Ability::REVENGE ability is removed. Should not be used directly by the UI layer.

See also

ResetDialogUseCase

Definition at line 31 of file ResetRepositoryUseCase.java.

5.40.2 Member Function Documentation

5.40.2.1 getRandomUnit()

Selects a random unit that is not epic.

If all units are epic or if there are no units at all, an empty Optional is returned.

Parameters

units	List of UnitEntity objects, one of which is selected.

Returns

An Optional containing the selected unit or nothing if no unit could be selected.

Definition at line 71 of file ResetRepositoryUseCase.java. Referenced by ResetRepositoryUseCase.reset().

5.40.2.2 getRevengeDialog()

```
static Dialog getRevengeDialog (
    @NonNull Context context,
    @NonNull UnitRepository repository,
    @NonNull CompletableEmitter emitter,
    @Nullable UnitEntity keptUnit,
    @IntRange(from=1) int revengeUnits,
    @NonNull SoundManager soundManager) [static], [private]
```

Creates a Dialog asking whether the Ability::REVENGE ability should be activated.

The Dialog is created using an RevengeAlertDialogBuilderAdapter.

Parameters

context	Context of the shown Dialog.
repository	UnitRepository where the UnitEntity objects are removed and avengers are inserted.
emitter	CompletableEmitter where CompletableEmitter::onComplete must be called, when the user makes a decision.
keptUnit	UnitEntity that should be kept.

Parameters

revengeUnits	Long representing the number of revenge units.
soundManager	SoundManager used, if an Avenger is added.

Returns

A Dialog asking whether the Ability::REVENGE ability should be activated.

See also

RevengeAlertDialogBuilderAdapter::insertAvengers(UnitRepository, int, SoundManager)

Definition at line 93 of file ResetRepositoryUseCase.java.

 $References \ Revenge Alert Dialog Builder Adapter. create(), \ Revenge Alert Dialog Builder Adapter. insert Avengers(), \ and \ Revenge Alert Dialog Builder Adapter. set Positive Callback().$

Referenced by ResetRepositoryUseCase.reset().

5.40.2.3 reset() [1/2]

```
static Completable reset (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     @NonNull SoundManager soundManager) [static]
```

Resets the given UnitRepository.

If a removed UnitEntity has the Ability::REVENGE ability, a Dialog asking whether the ability should be used is shown. Wrapper of #reset(Context, UnitRepository, boolean, SoundManager).

Parameters

context	Context of the shown Dialog.
repository	UnitRepository that is being reset.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Completable tracking operation status.

See also

#reset(Context, UnitRepository, boolean, SoundManager)

Definition at line 123 of file ResetRepositoryUseCase.java. References ResetRepositoryUseCase.reset().

5.40.2.4 reset() [2/2]

```
static Maybe< UnitEntity > reset (
     @NonNull Context context,
     @NonNull UnitRepository repository,
     boolean keepUnit,
     @NonNull SoundManager soundManager ) [static], [package]
```

Resets the given UnitRepository and keeps one random unit if keepUnit is true.

If a removed UnitEntity has the Ability::REVENGE ability, a Dialog asking whether the ability should be used is shown.

Parameters

|--|

Parameters

repository	UnitRepository that is being reset.
keepUnit	Boolean defining whether a single UnitEntity should be kept.
soundManager	SoundManager used, if an UnitEntity has the Ability::REVENGE ability.

Returns

A Maybe emitting the kept UnitEntity or nothing if keepUnit is false.

See also

#getRevengeDialog(Context, UnitRepository, CompletableEmitter, UnitEntity, int, SoundManager)
UnitRepository::reset(UnitEntity)

Definition at line 46 of file ResetRepositoryUseCase.java.

 $References \ Reset Repository Use Case. get Random Unit (), \ and \ Reset Repository Use Case. get Revenge Dialog ().$

Referenced by ResetRepositoryUseCase.reset(), and ResetDialogUseCase.reset().

The documentation for this class was generated from the following file:

• gwent/domain/cases/ResetRepositoryUseCase.java

5.41 RevengeAlertDialogBuilderAdapter Class Reference

An adapter class adapting AlertDialog.Builder to provide an interface for creating an AlertDialog asking the user whether they want to invoke the Ability::REVENGE ability.

Collaboration diagram for RevengeAlertDialogBuilderAdapter:

RevengeAlertDialogBuilder Adapter

Static Public Member Functions

static Completable insertAvengers (@NonNull UnitRepository repository, @IntRange(from=0) int number
 —
 OfAvengers, @NonNull SoundManager soundManager)

Inserts numberOfAvengers avenger units into the given UnitRepository.

Package Functions

RevengeAlertDialogBuilderAdapter (@NonNull Context context)

Constructor of a RevengeAlertDialogBuilderAdapter.

• AlertDialog create ()

Creates an AlertDialog with the arguments supplied to this builder.

RevengeAlertDialogBuilderAdapter setPositiveCallback (@NonNull DialogInterface.OnClickListener on
 — PositiveButtonClick)

Adds the given callback to the positive button of the built Dialog.

RevengeAlertDialogBuilderAdapter setNegativeCallback (@NonNull DialogInterface.OnClickListener on
 — NegativeButtonClick)

Adds the given callback to the negative button of the built Dialog.

Private Attributes

final AlertDialog.Builder adapteeBuilder
 AlertDialog.Builder that is adapted by this class.

Static Private Attributes

- static final boolean AVENGER_EPIC = false
 - Boolean constant defining whether the default UnitEntity summoned by the Ability::REVENGE ability is epic.
- static final Ability AVENGER_ABILITY = Ability.NONE
 - Ability constant defining the Ability of the default UnitEntity summoned by the Ability::REVENGE ability.
- static final int AVENGER_DAMAGE = 8
 - Integer constant defining the damage of the default UnitEntity summoned by the Ability::REVENGE ability.
- static final Integer AVENGER SQUAD = null
 - Integer constant defining the squad of the default UnitEntity summoned by the Ability::REVENGE ability.
- static final RowType AVENGER_ROW = RowType.MELEE

RowType constant defining the row of the default UnitEntity summoned by the Ability::REVENGE ability.

5.41.1 Detailed Description

An adapter class adapting AlertDialog.Builder to provide an interface for creating an AlertDialog asking the user whether they want to invoke the Ability::REVENGE ability.

Definition at line 23 of file RevengeAlertDialogBuilderAdapter.java.

5.41.2 Constructor & Destructor Documentation

5.41.2.1 RevengeAlertDialogBuilderAdapter()

```
RevengeAlertDialogBuilderAdapter (

@NonNull Context context) [package]

Constructor of a RevengeAlertDialogBuilderAdapter.
```

Parameters

context	Context of the built AlertDialog.

Initializes the buttons with empty callbacks.

Definition at line 76 of file RevengeAlertDialogBuilderAdapter.java.

5.41.3 Member Function Documentation

5.41.3.1 create()

```
AlertDialog create ( ) [package]
```

Creates an AlertDialog with the arguments supplied to this builder.

Basically just calls AlertDialog.Builder::create() on #adapteeBuilder.

See also

AlertDialog.Builder::create()

Definition at line 108 of file RevengeAlertDialogBuilderAdapter.java.

References RevengeAlertDialogBuilderAdapter.adapteeBuilder.

Referenced by RemoveUnitsUseCase.getRevengeDialog(), and ResetRepositoryUseCase.getRevengeDialog().

5.41.3.2 insertAvengers()

```
static Completable insertAvengers (
          @NonNull UnitRepository repository,
```

```
@IntRange(from=0) int numberOfAvengers,
@NonNull SoundManager soundManager ) [static]
```

Inserts numberOfAvengers avenger units into the given UnitRepository.

The inserted UnitEntity objects have the attributes defined in #AVENGER_EPIC, #AVENGER_DAMAGE, #

AVENGER_ABILITY, #AVENGER_SQUAD, and #AVENGER_ROW.

Parameters

repository	UnitRepository where avengers are inserted.
numberOfAvengers	Integer defining how many avengers are inserted.

Returns

A Completable tracking operation status.

Definition at line 96 of file RevengeAlertDialogBuilderAdapter.java.

References RevengeAlertDialogBuilderAdapter.AVENGER_ABILITY, RevengeAlertDialogBuilderAdapter.AVENGER_DAMAGE, RevengeAlertDialogBuilderAdapter.AVENGER_EPIC, RevengeAlertDialogBuilderAdapter.AVENGER_ROW, and RevengeAlertDialogBuilderAdapter.AVENGER_SQUAD.

Referenced by RemoveUnitsUseCase.getRevengeDialog(), and ResetRepositoryUseCase.getRevengeDialog().

5.41.3.3 setNegativeCallback()

Adds the given callback to the negative button of the built Dialog.

Parameters

onNegativeButtonClick	DialogInterface.OnClickListener that is called, when the negative button is clicked.
-----------------------	--

Returns

The RevengeAlertDialogBuilder with the updated negative callback.

Definition at line 133 of file RevengeAlertDialogBuilderAdapter.java. References RevengeAlertDialogBuilderAdapter.adapteeBuilder.

5.41.3.4 setPositiveCallback()

```
RevengeAlertDialogBuilderAdapter setPositiveCallback (
@NonNull DialogInterface.OnClickListener onPositiveButtonClick ) [package]
```

Adds the given callback to the positive button of the built Dialog.

Callback should call insertAvengers().

Parameters

onPositiveButtonClick DialogInterface.OnClickListener that is called, when the positive by	outton is clicked.
--	--------------------

Returns

The RevengeAlertDialogBuilder with the updated positive callback.

See also

#insertAvengers(UnitRepository, int, SoundManager)

Definition at line 121 of file RevengeAlertDialogBuilderAdapter.java.

References RevengeAlertDialogBuilderAdapter.adapteeBuilder.

 $Referenced\ by\ Remove Units Use Case. get Revenge Dialog(),\ and\ Reset Repository Use Case. get Revenge Dialog().$

5.41.4 Member Data Documentation

5.41.4.1 adapteeBuilder

final AlertDialog.Builder adapteeBuilder [private]

AlertDialog.Builder that is adapted by this class.

Definition at line 68 of file RevengeAlertDialogBuilderAdapter.java.

Referenced by RevengeAlertDialogBuilderAdapter.create(), RevengeAlertDialogBuilderAdapter.setNegativeCallback(), and RevengeAlertDialogBuilderAdapter.setPositiveCallback().

5.41.4.2 AVENGER ABILITY

final Ability AVENGER_ABILITY = Ability.NONE [static], [private]

Ability constant defining the Ability of the default UnitEntity summoned by the Ability::REVENGE ability.

See also

Ability::REVENGE

Definition at line 38 of file RevengeAlertDialogBuilderAdapter.java. Referenced by RevengeAlertDialogBuilderAdapter.insertAvengers().

5.41.4.3 AVENGER_DAMAGE

final int AVENGER_DAMAGE = 8 [static], [private]

Integer constant defining the damage of the default UnitEntity summoned by the Ability::REVENGE ability.

See also

Ability::REVENGE

Definition at line 46 of file RevengeAlertDialogBuilderAdapter.java. Referenced by RevengeAlertDialogBuilderAdapter.insertAvengers().

5.41.4.4 AVENGER_EPIC

final boolean AVENGER_EPIC = false [static], [private]

Boolean constant defining whether the default UnitEntity summoned by the Ability::REVENGE ability is epic.

See also

Ability::REVENGE

Definition at line 30 of file RevengeAlertDialogBuilderAdapter.java. Referenced by RevengeAlertDialogBuilderAdapter.insertAvengers().

5.41.4.5 AVENGER_ROW

final RowType AVENGER_ROW = RowType.MELEE [static], [private]

RowType constant defining the row of the default UnitEntity summoned by the Ability::REVENGE ability.

See also

Ability::REVENGE

Definition at line 62 of file RevengeAlertDialogBuilderAdapter.java. Referenced by RevengeAlertDialogBuilderAdapter.insertAvengers().

5.41.4.6 AVENGER_SQUAD

```
final Integer AVENGER_SQUAD = null [static], [private]
```

Integer constant defining the squad of the default UnitEntity summoned by the Ability::REVENGE ability.

See also

Ability::REVENGE

Definition at line 54 of file RevengeAlertDialogBuilderAdapter.java. Referenced by RevengeAlertDialogBuilderAdapter.insertAvengers(). The documentation for this class was generated from the following file:

• gwent/domain/cases/RevengeAlertDialogBuilderAdapter.java

5.42 RowDao Interface Reference

An interface defining data access operations related to ${\tt rows}$ table. Collaboration diagram for RowDao:

RowDao

Public Member Functions

Completable insertRow (@NonNull RowEntity row)

Inserts the given RowEntity into rows.

• Completable clearRows ()

Deletes all RowEntity objects from rows.

• Completable updateWeather (@NonNull RowType row)

Flips RowEntity::weather for the given RowType in rows.

• Completable clearWeather ()

Sets RowEntity::weather to false for all RowEntity elements in rows.

• Completable updateHorn (@NonNull RowType row)

Flips RowEntity::horn for the given RowType in rows.

Single
 Boolean > isWeather (@NonNull RowType row)

Fetches RowEntity::weather for the given RowType in rows.

• Flowable < Boolean > isWeatherFlowable (@NonNull RowType row)

Fetches a Flowable of RowEntity::weather for the given RowType in rows.

Single < Boolean > isHorn (@NonNull RowType row)

Fetches RowEntity::horn for the given RowType in rows.

Flowable < Boolean > isHornFlowable (@NonNull RowType row)

Fetches a Flowable of RowEntity:: horn for the given RowType in rows.

5.42.1 Detailed Description

An interface defining data access operations related to rows table. The implementation is generated by the Room framework. Definition at line 19 of file RowDao.java.

5.42.2 Member Function Documentation

5.42.2.1 clearRows()

```
Completable clearRows ( )

Deletes all RowEntity objects from rows.
```

Returns

A Completable tracking operation status.

Referenced by UnitRepository.reset().

5.42.2.2 clearWeather()

```
Completable clearWeather ( )
```

Sets RowEntity::weather to false for all RowEntity elements in rows.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.clearWeather().

5.42.2.3 insertRow()

```
Completable insertRow (
    @NonNull RowEntity row )
```

Inserts the given RowEntity into rows.

If the same RowType is already in the table, the new insert is ignored.

Parameters

	row	RowEntity that is being inserted.	
--	-----	-----------------------------------	--

Returns

A Completable tracking operation status.

Referenced by UnitRepository.initializeRows().

5.42.2.4 isHorn()

```
Single< Boolean > isHorn (
          @NonNull RowType row )
```

Fetches RowEntity::horn for the given RowType in rows.

See also

#isHornFlowable(RowType)

Parameters

row RowType of the queried RowEntity.

Returns

A Single tracking operation status and returning the value.

Referenced by UnitRepository.isHorn().

5.42.2.5 isHornFlowable()

Fetches a Flowable of RowEntity::horn for the given RowType in rows.

Parameters

```
row RowType of the queried RowEntity.
```

Returns

A Flowable emitting the values.

See also

#isHorn(RowType)

Referenced by UnitRepository.isHornFlowable().

5.42.2.6 isWeather()

```
Single< Boolean > isWeather (
          @NonNull RowType row )
```

Fetches RowEntity::weather for the given RowType in rows.

See also

#isWeatherFlowable(RowType)

Parameters

```
row RowType of the queried RowEntity.
```

Returns

A Single tracking operation status and returning the value.

Referenced by UnitRepository.isWeather().

5.42.2.7 isWeatherFlowable()

```
Flowable< Boolean > isWeatherFlowable (
          @NonNull RowType row )
```

Fetches a Flowable of RowEntity::weather for the given RowType in rows.

Parameters

row	RowType of the queried RowEntity.
-----	-----------------------------------

Returns

A Flowable emitting the values.

See also

#isWeather(RowType)

Referenced by UnitRepository.isWeatherFlowable().

5.42.2.8 updateHorn()

```
Completable updateHorn ( {\tt @NonNull\ RowType\ \it row\ )}
```

Flips RowEntity::horn for the given RowType in rows.

Parameters

row RowType of the updated RowEntity.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.switchHorn().

5.42.2.9 updateWeather()

Flips RowEntity::weather for the given RowType in rows.

Parameters

row RowType of the updated RowEntity.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.switchWeather().

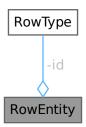
The documentation for this interface was generated from the following file:

• gwent/data/RowDao.java

5.43 RowEntity Class Reference

A class representing the state of an attack row, i.e., weather and commanders horn.

Collaboration diagram for RowEntity:



Package Functions

RowEntity (@NonNull RowType id)

Constructor of a RowEntity.

RowType getId ()

Getter for #id.

• boolean isWeather ()

Getter for #weather.

void setWeather (boolean weather)

Setter for #weather.

• boolean isHorn ()

Getter for #horn.

· void setHorn (boolean horn)

Setter for #horn.

Private Attributes

· final RowType id

Defines the type of the row as one of the values in RowType, thereby limiting the number of different rows to three.

· boolean weather

Defines whether the weather debuff is present in the represented row, i.e., if set to true, the damage value of units in the represented row is set to 1.

· boolean horn

Defines whether the commanders horn buff is present in the represented row, i.e., if set to true, the damage value of units in the represented row is doubled.

5.43.1 Detailed Description

A class representing the state of an attack row, i.e., weather and commanders horn. Is a persistent Entity and is therefore saved in a database table named rows. Definition at line 14 of file RowEntity.java.

5.43.2 Constructor & Destructor Documentation

5.43.2.1 RowEntity()

```
RowEntity (

@NonNull RowType id ) [package]

Constructor of a RowEntity.
```

#weather and #horn cannot be set here since a new row must start with the respective default values.

Parameters

RowType of the represented row.

Definition at line 47 of file RowEntity.java.

5.43.3 Member Function Documentation

5.43.3.1 getId()

```
RowType getId ( ) [package]
Getter for #id.
Only used by Room extension.
```

Returns

RowType of the represented row.

Definition at line 58 of file RowEntity.java.

5.43.3.2 isHorn()

```
boolean isHorn ( ) [package]
Getter for #horn.
Only used by Room extension.
```

Returns

Boolean representing the current status of the horn buff.

Definition at line 88 of file RowEntity.java.

5.43.3.3 isWeather()

```
boolean isWeather ( ) [package]
Getter for #weather.
```

Only used by Room extension.

Returns

Boolean representing the current status of the weather debuff.

Definition at line 68 of file RowEntity.java.

5.43.3.4 setHorn()

```
void setHorn (
             boolean horn ) [package]
Setter for #horn.
```

Only used by Room extension.

Parameters

Boolean representing the new status of the horn buff. horn

Definition at line 98 of file RowEntity.java.

5.43.3.5 setWeather()

```
void setWeather (
            boolean weather ) [package]
```

Setter for #weather.

Only used by Room extension.

Parameters

Definition at line 78 of file RowEntity.java.

5.43.4 Member Data Documentation

5.43.4.1 horn

boolean horn [private]

Defines whether the commanders horn buff is present in the represented row, i.e., if set to true, the damage value of units in the represented row is doubled.

Is set to false by default.

Definition at line 38 of file RowEntity.java.

5.43.4.2 id

```
final RowType id [private]
```

Defines the type of the row as one of the values in RowType, thereby limiting the number of different rows to three. Primary key of the represented row.

Definition at line 22 of file RowEntity.java.

5.43.4.3 weather

boolean weather [private]

Defines whether the weather debuff is present in the represented row, i.e., if set to true, the damage value of units in the represented row is set to 1.

Is set to false by default.

Definition at line 30 of file RowEntity.java.

The documentation for this class was generated from the following file:

· gwent/data/RowEntity.java

5.44 RowType Enum Reference

An enum listing the different types of attack rows.

Collaboration diagram for RowType:

RowType

Public Attributes

MELEE

Represents the row containing melee combat units.

RANGE

Represents the row containing ranged combat units.

SIEGE

Represents the row containing siege combat units.

5.44.1 Detailed Description

An enum listing the different types of attack rows. Definition at line 6 of file RowType.java.

5.44.2 Member Data Documentation

5.44.2.1 MELEE

MELEE

Represents the row containing melee combat units.

Definition at line 10 of file RowType.java.

5.44.2.2 RANGE

RANGE

Represents the row containing ranged combat units.

Definition at line 15 of file RowType.java.

5.44.2.3 SIEGE

SIEGE

Represents the row containing siege combat units.

Definition at line 21 of file RowType.java.

The documentation for this enum was generated from the following file:

gwent/data/RowType.java

5.45 RowUiState Class Reference

A data class encapsulating the visible state of a row in the main view of the application. Collaboration diagram for RowUiState:

RowUiState

Public Member Functions

- RowUiState (@IntRange(from=0) int damage, boolean weather, boolean horn, @IntRange(from=0) int units)

 Constructor of a RowUiState encapsulating the given data.
- int getDamage ()

Returns the summed-up damage of all units in this row.

• boolean isWeather ()

Returns whether the weather debuff is active in this row.

• boolean isHorn ()

Returns whether the commander's horn buff is active in this row.

• int getUnits ()

Returns the number of units in this row.

boolean equals (Object o)

Private Attributes

· final int damage

Defines the summed-up damage of all units in this row.

· final boolean weather

Defines whether the weather debuff is active in this row.

· final boolean horn

Defines whether the commander's horn buff is active in this row.

· final int units

Defines the number of units in this row.

5.45.1 Detailed Description

A data class encapsulating the visible state of a row in the main view of the application. Definition at line 10 of file RowUiState.java.

5.45.2 Constructor & Destructor Documentation

5.45.2.1 RowUiState()

```
RowUiState (
     @IntRange(from=0) int damage,
     boolean weather,
     boolean horn,
     @IntRange(from=0) int units )
```

Constructor of a RowUiState encapsulating the given data.

Parameters

damage	Integer representing the summed-up damage of all units.
weather	Boolean defining whether the weather debuff is active.
horn	Boolean defining whether the commander's horn buff is active.
units	Integer representing the number of units.

Exceptions

IllegalArgumentException When damage or units is negative.
--

Definition at line 41 of file RowUiState.java.

References RowUiState.damage, RowUiState.horn, RowUiState.units, and RowUiState.weather.

5.45.3 Member Function Documentation

5.45.3.1 equals()

Definition at line 89 of file RowUiState.java.

5.45.3.2 getDamage()

```
int getDamage ( )
```

Returns the summed-up damage of all units in this row.

Returns

An Integer representing the summed-up damage of all units.

Definition at line 59 of file RowUiState.java.

References RowUiState.damage.

Referenced by GameBoardViewModel.getModel().

5.45.3.3 getUnits()

```
int getUnits ( )
```

Returns the number of units in this row.

Returns

An Integer representing the number of units in this row.

Definition at line 84 of file RowUiState.java.

References RowUiState.units.

Referenced by GameBoardViewModel.getModel().

5.45.3.4 isHorn()

```
boolean isHorn ( )
```

Returns whether the commander's horn buff is active in this row.

Returns

A Boolean whether the commander's horn buff is active.

Definition at line 75 of file RowUiState.java.

References RowUiState.horn.

Referenced by GameBoardViewModel.getModel().

5.45.3.5 isWeather()

```
boolean isWeather ( )
```

Returns whether the weather debuff is active in this row.

Returns

A Boolean defining whether the weather debuff is active.

Definition at line 67 of file RowUiState.java.

References RowUiState.weather.

Referenced by GameBoardViewModel.getModel().

5.45.4 Member Data Documentation

5.45.4.1 damage

```
final int damage [private]
```

Defines the summed-up damage of all units in this row.

Definition at line 15 of file RowUiState.java.

Referenced by RowUiState.RowUiState(), and RowUiState.getDamage().

5.45.4.2 horn

```
final boolean horn [private]
```

Defines whether the commander's horn buff is active in this row.

Definition at line 25 of file RowUiState.java.

Referenced by RowUiState.RowUiState(), and RowUiState.isHorn().

5.45.4.3 units

final int units [private]

Defines the number of units in this row.

Definition at line 31 of file RowUiState.java.

Referenced by RowUiState.RowUiState(), and RowUiState.getUnits().

5.45.4.4 weather

final boolean weather [private]

Defines whether the weather debuff is active in this row.

Definition at line 20 of file RowUiState.java.

Referenced by RowUiState.RowUiState(), and RowUiState.isWeather().

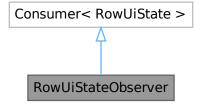
The documentation for this class was generated from the following file:

• gwent/ui/main/RowUiState.java

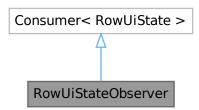
5.46 RowUiStateObserver Class Reference

An observer class responsible for updating the views of the row defined in #row when notified, i.e., when a new RowUiState is produced the observed Flowable.

Inheritance diagram for RowUiStateObserver:



Collaboration diagram for RowUiStateObserver:



Public Member Functions

void accept (@NonNull RowUiState rowUiState)

Changes values in #damageView and #unitView as well as the image in #weatherView and #hornView.

Static Public Member Functions

 static RowUiStateObserver getObserver (@NonNull RowType row, @NonNull TextView damageView, @NonNull ImageView weatherView, @NonNull ImageView hornView, @NonNull TextView unitView)

Returns a new RowUiStateObserver for the given row updating the given views.

Private Member Functions

Constructor of a RowUiStateObserver updating the given views when #onChanged() is called.

Private Attributes

• final TextView damageView

A TextView showing the user the summed-up damage of all units in this row, i.e., RowUiState::damage.

final ImageView weatherView

An ImageView responsible for showing the current state of the weather debuff in this row.

· final int weatherResource

An Integer representing the drawable resource shown by #weatherView when the weather debuff is active, i.e., when RowUiState::weather is true.

· final ImageView hornView

An ImageView responsible for showing the current state of the commander's horn buff in this row.

· final TextView unitView

A TextView showing the number of units in this row, i.e., RowUiState::units.

5.46.1 Detailed Description

An observer class responsible for updating the views of the row defined in #row when notified, i.e., when a new RowUiState is produced the observed Flowable.

See also

RowUiState

Definition at line 22 of file RowUiStateObserver.java.

5.46.2 Constructor & Destructor Documentation

5.46.2.1 RowUiStateObserver()

```
RowUiStateObserver (

@NonNull TextView damageView,
@NonNull ImageView weatherView,
@DrawableRes int weatherResource,
@NonNull ImageView hornView,
@NonNull TextView unitView ) [private]
```

Constructor of a RowUiStateObserver updating the given views when #onChanged() is called. Should only be called by #getObserver().

Parameters

damageView	TextView showing the summed-up damage of all units in the observed row.
weatherView	ImageView showing the current state of the weather debuff of the observed row.
weatherResource	Integer representing the drawable resource shown when the weather debuff is active.
hornView	ImageView showing the current state of the commander's horn buff of the observed row.
unitView	TextView showing the number of units in the observed row.

See also

#getObserver(RowType, TextView, ImageView, ImageView, TextView)

Definition at line 74 of file RowUiStateObserver.java.

References RowUiStateObserver.damageView, RowUiStateObserver.hornView, RowUiStateObserver.unitView, RowUiStateObserver.weatherResource, and RowUiStateObserver.weatherView.

5.46.3 Member Function Documentation

5.46.3.1 accept()

```
void accept (
          @NonNull RowUiState rowUiState )
```

Changes values in #damageView and #unitView as well as the image in #weatherView and #hornView. Image switches are animated using ImageViewSwitchAnimator.

Parameters

rowUiState	RowUiState representing the updated state of the row.
------------	---

See also

ImageViewSwitchAnimator

Definition at line 127 of file RowUiStateObserver.java.

References ImageViewSwitchAnimator.animatedSwitch(), RowUiStateObserver.damageView, RowUiStateObserver.hornView, RowUiStateObserver.unitView, RowUiStateObserver.weatherResource, and RowUiStateObserver.weatherView.

5.46.3.2 getObserver()

Returns a new RowUiStateObserver for the given row updating the given views.

Factory method for RowUiStateObserver. #weatherResource is defined according to the given RowType.

Parameters

row	RowType defining which row is being observed.
damageView	TextView showing the summed-up damage of all units in the observed row.
weatherView	ImageView showing the current state of the weather debuff of the observed row.
hornView	ImageView showing the current state of the commander's horn buff of the observed row.
unitView	TextView showing the number of units in the observed row.

Returns

A RowUiStateObserver updating the given views.

See also

#RowUiStateObserver(TextView, ImageView, int, ImageView, TextView)

Definition at line 99 of file RowUiStateObserver.java.

References RowUiStateObserver.damageView, RowUiStateObserver.hornView, RowUiStateObserver.unitView, RowUiStateObserver.weatherResource, and RowUiStateObserver.weatherView.

Referenced by MainActivity.initializeViewModel().

5.46.4 Member Data Documentation

5.46.4.1 damageView

final TextView damageView [private]

A TextView showing the user the summed-up damage of all units in this row, i.e., RowUiState::damage.

Definition at line 28 of file RowUiStateObserver.java.

Referenced by RowUiStateObserver.RowUiStateObserver(), RowUiStateObserver.accept(), and RowUiStateObserver.getObserver().

5.46.4.2 hornView

final ImageView hornView [private]

An ImageView responsible for showing the current state of the commander's horn buff in this row.

Is gray when RowUiState::horn is false.

See also

#weatherResource

Definition at line 55 of file RowUiStateObserver.java.

Referenced by RowUiStateObserver.RowUiStateObserver(), RowUiStateObserver.accept(), and RowUiStateObserver.getObserver().

5.46.4.3 unitView

final TextView unitView [private]

A TextView showing the number of units in this row, i.e., RowUiState::units.

Definition at line 61 of file RowUiStateObserver.java.

Referenced by RowUiStateObserver.RowUiStateObserver(), RowUiStateObserver.accept(), and RowUiStateObserver.getObserver().

5.46.4.4 weatherResource

final int weatherResource [private]

An Integer representing the drawable resource shown by #weatherView when the weather debuff is active, i.e., when RowUiState::weather is true.

See also

#weatherView

Definition at line 46 of file RowUiStateObserver.java.

Referenced by RowUiStateObserver.RowUiStateObserver(), RowUiStateObserver.accept(), and RowUiStateObserver.getObserver().

5.46.4.5 weatherView

final ImageView weatherView [private]

An ImageView responsible for showing the current state of the weather debuff in this row.

Displays the resource in #weatherResource when RowUiState::weather is true.

See also

#weatherResource

Definition at line 37 of file RowUiStateObserver.java.

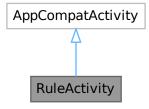
Referenced by RowUiStateObserver.RowUiStateObserver(), RowUiStateObserver.accept(), and RowUiStateObserver.getObserver(). The documentation for this class was generated from the following file:

• gwent/ui/main/RowUiStateObserver.java

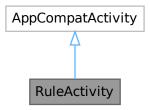
5.47 RuleActivity Class Reference

An AppCompatActivity used to present the rules of the game.

Inheritance diagram for RuleActivity:



Collaboration diagram for RuleActivity:



Public Member Functions

- void onCreate (Bundle savedInstanceState)
 - Initializes the content of the selected rule.
- boolean onOptionsItemSelected (@NonNull MenuItem item)

Called whenever a MenuItem in the options menu is selected.

Static Public Attributes

static final String INTENT_EXTRA_TAG = "rule_section"

String constant defining the identifier where the requested RuleSection is provided in the calling android.content.Intent.

5.47.1 Detailed Description

An ${\tt AppCompatActivity}$ used to present the rules of the game.

Can be accessed from the <code>SettingsActivity</code>. When called, a selected <code>RuleSection</code> must always be given through the calling <code>android.content.Intent</code> at the key defined in <code>INTENT_EXTRA_TAG</code>. Definition at line 22 of file <code>RuleActivity.java</code>.

5.47.2 Member Function Documentation

5.47.2.1 onCreate()

void onCreate (

```
Bundle savedInstanceState )
```

Initializes the content of the selected rule.

Parameters

savedInstanceState	If the activity is being re-initialized after previously being shut down then this Bundle
	contains the data it most recently supplied in onSaveInstanceState. Note:
	Otherwise it is null.

Definition at line 37 of file RuleActivity.java. References RuleActivity.INTENT_EXTRA_TAG.

5.47.2.2 onOptionsItemSelected()

```
boolean onOptionsItemSelected ( {\tt @NonNull\ MenuItem\ \it item\ \it )}
```

Called whenever a MenuItem in the options menu is selected.

Returns to the calling android.app. Activity when the android. R. id#home item was selected.

Parameters

item	MenuItem that was selected.
------	-----------------------------

Returns

Boolean defining whether the call has been handled.

Definition at line 97 of file RuleActivity.java.

5.47.3 Member Data Documentation

5.47.3.1 INTENT_EXTRA_TAG

```
final String INTENT_EXTRA_TAG = "rule_section" [static]
```

String constant defining the identifier where the requested RuleSection is provided in the calling android.content.Intent.

Definition at line 27 of file RuleActivity.java.

Referenced by SettingsRuleFragment.getSectionClickListener(), and RuleActivity.onCreate().

The documentation for this class was generated from the following file:

• gwent/ui/settings/RuleActivity.java

5.48 RuleSection Enum Reference

An ${\tt Enum}$ used to discern the different possible sections shown by ${\tt RuleActivity}.$ Collaboration diagram for RuleSection:

RuleSection

Public Attributes

GENERAL

Represents a section containing general background-information on the game Gwent.

COURSE

Represents a section containing information on the course of a game of Gwent.

FACTIONS

Represents a section containing information on the factions playable in Gwent.

COMMANDER

Represents a section containing information on the available commanders of the factions and their abilities.

• CARDS

Represents a section containing information on the different types of cards in Gwent.

CARD ABILITIES

Represents a section containing information on the possible abilities of cards in Gwent.

• SPECIAL_CARDS

Represents a section containing information on special cards available in Gwent.

5.48.1 Detailed Description

An Enum used to discern the different possible sections shown by RuleActivity. Definition at line 6 of file RuleSection.java.

5.48.2 Member Data Documentation

5.48.2.1 CARD_ABILITIES

CARD_ABILITIES

Represents a section containing information on the possible abilities of cards in Gwent. Definition at line 35 of file RuleSection.java.

5.48.2.2 CARDS

CARDS

Represents a section containing information on the different types of cards in Gwent. Definition at line 30 of file RuleSection.java.

5.48.2.3 COMMANDER

COMMANDER

Represents a section containing information on the available commanders of the factions and their abilities. Definition at line 25 of file RuleSection.java.

5.48.2.4 COURSE

COURSE

Represents a section containing information on the course of a game of Gwent.

Definition at line 15 of file RuleSection.java.

5.48.2.5 FACTIONS

FACTIONS

Represents a section containing information on the factions playable in Gwent.

Definition at line 20 of file RuleSection.java.

5.48.2.6 **GENERAL**

GENERAL

Represents a section containing general background-information on the game Gwent. Definition at line 10 of file RuleSection.java.

5.48.2.7 SPECIAL_CARDS

SPECIAL_CARDS

Represents a section containing information on special cards available in Gwent.

Definition at line 41 of file RuleSection.java.

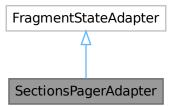
The documentation for this enum was generated from the following file:

• gwent/ui/settings/RuleSection.java

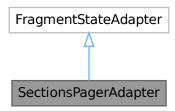
5.49 SectionsPagerAdapter Class Reference

A FragmentStateAdapter that returns an IntroductionFragment corresponding to one of the sections/tabs/pages.

Inheritance diagram for SectionsPagerAdapter:



Collaboration diagram for SectionsPagerAdapter:



Public Member Functions

- SectionsPagerAdapter (@NonNull FragmentActivity fragmentActivity)
 - ${\it Constructor\ of\ a\ Sections Pager Adapter\ for\ the\ given\ {\it FragmentActivity}}.$
- int getItemCount ()

Returns the total number of items in the data set held by the adapter.

• Fragment createFragment (int position)

Provides a new IntroductionFragment associated with the specified position.

5.49.1 Detailed Description

A FragmentStateAdapter that returns an IntroductionFragment corresponding to one of the sections/tabs/pages.

Definition at line 12 of file SectionsPagerAdapter.java.

5.49.2 Constructor & Destructor Documentation

5.49.2.1 SectionsPagerAdapter()

```
SectionsPagerAdapter (

@NonNull FragmentActivity fragmentActivity)

Constructor of a SectionsPagerAdapter for the given FragmentActivity.
```

Parameters

fragmentActivity	FragmentActivity that uses this adapter.
------------------	--

Definition at line 18 of file SectionsPagerAdapter.java.

5.49.3 Member Function Documentation

5.49.3.1 createFragment()

Provides a new IntroductionFragment associated with the specified position.

Parameters

position	Integer defining the page that is queried.
----------	--

Returns

A Fragment that will be shown at the specified position.

Definition at line 39 of file SectionsPagerAdapter.java. References IntroductionFragment.newInstance().

5.49.3.2 getItemCount()

```
int getItemCount ( )
```

Returns the total number of items in the data set held by the adapter.

 $\textbf{Essentially queries} \ \texttt{IntroductionFragment \#PAGES_COUNT}.$

Returns

An Integer defining the number of pages.

Definition at line 28 of file SectionsPagerAdapter.java. References IntroductionFragment.PAGES COUNT.

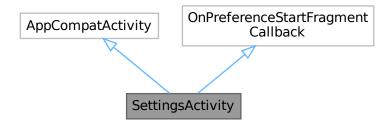
The documentation for this class was generated from the following file:

• gwent/ui/introduction/SectionsPagerAdapter.java

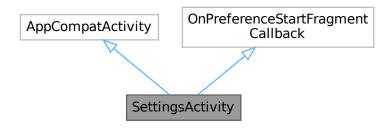
5.50 SettingsActivity Class Reference

An AppCompatActivity implementing PreferenceFragmentCompat.OnPreferenceStartFragmentCallback that is used by the user to manage the SharedPreferences of the application.

Inheritance diagram for SettingsActivity:



Collaboration diagram for SettingsActivity:



Public Member Functions

- boolean onOptionsItemSelected (@NonNull MenuItem item)
 - Called whenever a MenuItem in the options menu is selected.
- boolean onPreferenceStartFragment (@NonNull PreferenceFragmentCompat caller, @NonNull Preference pref)

Called when the user has clicked on a Preference that has a Fragment class name associated with it.

Protected Member Functions

- void onCreate (@Nullable Bundle savedInstanceState)
 - Initializes layout and ActionBar as well as creates and displays a new SettingsHeaderFragment.
- void onSaveInstanceState (@NonNull Bundle outState)

Saves the currently visible Fragment into the given Bundle.

Static Private Attributes

• static final String CURRENT_FRAGMENT_KEY = "currentFragment"

String constant defining the key in savedInstanceState Bundles where the last shown Fragment is saved.

5.50.1 Detailed Description

An AppCompatActivity implementing PreferenceFragmentCompat.OnPreferenceStartFragmentCallback that is used by the user to manage the SharedPreferences of the application.

Definition at line 24 of file SettingsActivity.java.

5.50.2 Member Function Documentation

5.50.2.1 onCreate()

Initializes layout and ActionBar as well as creates and displays a new SettingsHeaderFragment.

Parameters

savedInstanceState	If the activity is being re-initialized after previously being shut down then this Bundle
	contains the data it most recently supplied in onSaveInstanceState. Note:
	Otherwise it is null.

Definition at line 38 of file SettingsActivity.java.

References SettingsActivity.CURRENT_FRAGMENT_KEY.

5.50.2.2 onOptionsItemSelected()

```
boolean onOptionsItemSelected ( {\tt @NonNull\ MenuItem}\ item\ )
```

Called whenever a MenuItem in the options menu is selected.

Returns to the calling android.app.Activity when the android.R.id#home item was selected.

Parameters

	item	MenuItem that was selected.
--	------	-----------------------------

Returns

Boolean defining whether the call has been handled.

Definition at line 85 of file SettingsActivity.java.

5.50.2.3 onPreferenceStartFragment()

```
boolean onPreferenceStartFragment (  \hbox{\tt @NonNull PreferenceFragmentCompat } caller, \\ \hbox{\tt @NonNull Preference } pref \ )
```

Called when the user has clicked on a Preference that has a Fragment class name associated with it. Switches to an instance of the given Fragment.

Parameters

caller	PreferenceFragmentCompat requesting navigation.
pref	Preference requesting the Fragment.

Returns

Boolean defining whether the Fragment creation has been handled.

Definition at line 102 of file SettingsActivity.java.

5.50.2.4 onSaveInstanceState()

void on SaveInstanceState (${\tt @NonNull~Bundle~\it outState}~)~~ [protected]$

Saves the currently visible Fragment into the given Bundle.

Parameters

outState Bundle in which the currently used Fragment is saved.

Definition at line 66 of file SettingsActivity.java.

References SettingsActivity.CURRENT_FRAGMENT_KEY.

5.50.3 Member Data Documentation

5.50.3.1 CURRENT_FRAGMENT_KEY

final String CURRENT_FRAGMENT_KEY = "currentFragment" [static], [private]

String constant defining the key in savedInstanceState Bundles where the last shown Fragment is saved. Definition at line 29 of file SettingsActivity.java.

Referenced by SettingsActivity.onCreate(), and SettingsActivity.onSaveInstanceState().

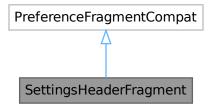
The documentation for this class was generated from the following file:

· gwent/ui/settings/SettingsActivity.java

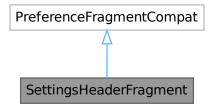
5.51 SettingsHeaderFragment Class Reference

A PreferenceFragmentCompat class encapsulating the main preference screen, i.e., the Preferences defined in R.xml#header_preferences.

Inheritance diagram for SettingsHeaderFragment:



Collaboration diagram for SettingsHeaderFragment:



Public Member Functions

void onCreatePreferences (Bundle savedInstanceState, String rootKey)
 Called during onCreate (Bundle) to supply the preferences for this fragment.

5.51.1 Detailed Description

A PreferenceFragmentCompat class encapsulating the main preference screen, i.e., the Preferences defined in R.xml#header_preferences.

Definition at line 18 of file SettingsHeaderFragment.java.

5.51.2 Member Function Documentation

5.51.2.1 onCreatePreferences()

Called during onCreate (Bundle) to supply the preferences for this fragment.

Sets shown Preferences from R.xml #header_preferences and registers an androidx.preference.Preference on the Preference at R.string #preference_key_introduction to start a new IntroductionActivity.

Parameters

savedInstanceState	If the fragment is being re-created from a previous saved state, this is the state.
rootKey	If non-null, this preference fragment should be rooted at the
	androidx.preference.PreferenceScreen with this key.

Definition at line 31 of file SettingsHeaderFragment.java.

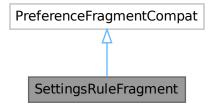
The documentation for this class was generated from the following file:

• gwent/ui/settings/SettingsHeaderFragment.java

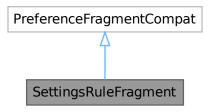
5.52 SettingsRuleFragment Class Reference

A PreferenceFragmentCompat class encapsulating the rule preference screen, i.e., the rule sections defined in R.xml#rule_preferences.

Inheritance diagram for SettingsRuleFragment:



Collaboration diagram for SettingsRuleFragment:



Public Member Functions

void onCreatePreferences (Bundle savedInstanceState, String rootKey)
 Called during onCreate (Bundle) to supply the preferences for this fragment.

Private Member Functions

• Preference.OnPreferenceClickListener getSectionClickListener (@NonNull RuleSection section)

Creates an Preference.OnPreferenceClickListener that starts a new RuleActivity for the given

5.52.1 Detailed Description

A PreferenceFragmentCompat class encapsulating the rule preference screen, i.e., the rule sections defined in R.xml#rule_preferences.

Definition at line 31 of file SettingsRuleFragment.java.

RuleSection using an Intent.

5.52.2 Member Function Documentation

5.52.2.1 getSectionClickListener()

 $\label{lem:control} \textbf{Creates an Preference.} On \textbf{PreferenceClickListener that starts a new } \textbf{RuleActivity for the given } \textbf{RuleSection using an } \textbf{Intent.}$

The Intent provides the requested RuleSection to the RuleActivity using Intent#putExtra(String, Serializ with RuleActivity#INTENT_EXTRA_TAG as a tag.

Parameters

section	RuleSection that is requested.
---------	--------------------------------

Returns

An Preference.OnPreferenceClickListener calling a RuleActivity.

Definition at line 43 of file SettingsRuleFragment.java.

References RuleActivity.INTENT_EXTRA_TAG.

Referenced by SettingsRuleFragment.onCreatePreferences().

5.52.2.2 onCreatePreferences()

Called during onCreate (Bundle) to supply the preferences for this fragment.

Sets shown Preferences from R.xml#rule_preferences. Also provides each element with an Preference.OnPreferenceClickListener that starts a new RuleActivity for the respective RuleSection.

Parameters

savedInstanceState	If the fragment is being re-created from a previous saved state, this is the state.
rootKey	If non-null, this preference fragment should be rooted at the
	androidx.preference.PreferenceScreen with this key.

See also

#getSectionClickListener(RuleSection)

Definition at line 66 of file SettingsRuleFragment.java.

References SettingsRuleFragment.getSectionClickListener().

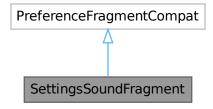
The documentation for this class was generated from the following file:

· gwent/ui/settings/SettingsRuleFragment.java

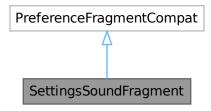
5.53 SettingsSoundFragment Class Reference

A PreferenceFragmentCompat class encapsulating the sound preference screen, i.e., the Preferences defined in $R.xml\#sound_preferences$.

Inheritance diagram for SettingsSoundFragment:



Collaboration diagram for SettingsSoundFragment:



Public Member Functions

• void onCreatePreferences (Bundle savedInstanceState, String rootKey)

Called during onCreate (Bundle) to supply the preferences for this fragment.

5.53.1 Detailed Description

A PreferenceFragmentCompat class encapsulating the sound preference screen, i.e., the Preferences defined in R. xml#sound_preferences.

Definition at line 16 of file SettingsSoundFragment.java.

5.53.2 Member Function Documentation

5.53.2.1 onCreatePreferences()

 $\label{lem:called during onCreate} \textbf{(Bundle)} \ \ \textbf{to supply the preferences for this fragment.}$

Sets shown Preferences from R.xml#sound_preferences.

Parameters

savedInstanceState	If the fragment is being re-created from a previous saved state, this is the state.
rootKey	If non-null, this preference fragment should be rooted at the
	androidx.preference.PreferenceScreen with this key.

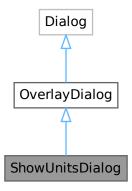
Definition at line 27 of file SettingsSoundFragment.java.

The documentation for this class was generated from the following file:

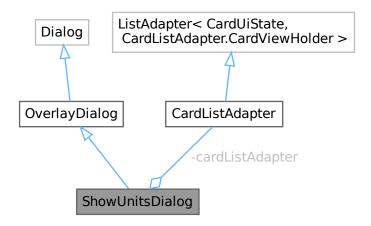
· gwent/ui/settings/SettingsSoundFragment.java

5.54 ShowUnitsDialog Class Reference

An OverlayDialog used to list the units of a certain row and enabling the user to copy, add, or delete new units. Inheritance diagram for ShowUnitsDialog:



Collaboration diagram for ShowUnitsDialog:



Public Member Functions

• RowType getRow ()

Returns the row this ShowUnitsDialog is representing.

Static Public Member Functions

static Single < ShowUnitsDialog > getDialog (@NonNull Context context, @NonNull RowType row, @Non
 — Null SoundManager soundManager)

Creates a new ShowUnitsDialog in the given Context and for the given row.

Protected Member Functions

· void onCreate (Bundle savedInstanceState)

Initializes the RecyclerView by connecting it to the #cardListAdapter and sets View.OnClickListener for each button.

Protected Member Functions inherited from OverlayDialog

OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)

Constructor of an Overlay Dialog in the given Context, with the given layout and dismiss Viewld.

OverlayDialog (@NonNull Context context, @LayoutRes int layout)

Constructor of an OverlayDialog in the given Context and with the given layout.

Private Member Functions

ShowUnitsDialog (@NonNull Context context, @NonNull RowType row, @NonNull CardListAdapter cardListAdapter, @NonNull SoundManager soundManager)

Constructor of a ShowUnitsDialog shown in the given Context and with the given CardListAdapter.

Private Attributes

final RowType row

RowType defining which row is represented by this Dialog.

final CardListAdapter cardListAdapter

CardListAdapter offering a list of CardUiState objects to the UI.

• final SoundManager soundManager

SoundManager used to play a Sound whenever a card is added or removed.

final CompositeDisposable disposables = new CompositeDisposable()

CompositeDisposable keeping track of all subscriptions to observables made by this class.

RecyclerView unitRecyclerView

RecyclerView presenting the units provided by the cardListAdapter.

Additional Inherited Members

Static Package Attributes inherited from Overlay Dialog

• static final int NO DISMISS VIEW = -1

Integer used as #dismissViewId, when the Dialog shouldn't be cancelable by clicking on a View.

5.54.1 Detailed Description

An OverlayDialog used to list the units of a certain row and enabling the user to copy, add, or delete new units.

See also

CardListAdapter

Definition at line 31 of file ShowUnitsDialog.java.

5.54.2 Constructor & Destructor Documentation

5.54.2.1 ShowUnitsDialog()

Constructor of a ShowUnitsDialog shown in the given Context and with the given CardListAdapter.

Parameters

context	Context this Dialog is shown in.
row	RowType defining which row all shown units belong to.
cardListAdapter	CardListAdapter providing an always up-to-date list of CardUiState objects for a certain row.
soundManager	SoundManager used to play sounds when cards are added or removed.

Definition at line 78 of file ShowUnitsDialog.java.

References ShowUnitsDialog.cardListAdapter, ShowUnitsDialog.row, and ShowUnitsDialog.soundManager.

5.54.3 Member Function Documentation

5.54.3.1 getDialog()

```
static Single< ShowUnitsDialog > getDialog (
     @NonNull Context context,
     @NonNull RowType row,
     @NonNull SoundManager soundManager ) [static]
```

Creates a new ShowUnitsDialog in the given Context and for the given row.

Parameters

context	Context the Dialog is shown in.
row	RowType defining the row that is represented by this Dialog.
soundManager	SoundManager used to play sounds when cards are added or removed.

Returns

A Single emitting the created ShowUnitsDialog.

Definition at line 94 of file ShowUnitsDialog.java.

References ShowUnitsDialog.disposables, GwentApplication.getRepository(), ShowUnitsDialog.row, and ShowUnitsDialog.soundManager.

5.54.3.2 getRow()

```
RowType getRow ( )
```

Returns the row this ShowUnitsDialog is representing.

Returns

A RowType defining the represented row.

See also

#row

Definition at line 188 of file ShowUnitsDialog.java. References ShowUnitsDialog.row.

5.54.3.3 onCreate()

Initializes the RecyclerView by connecting it to the #cardListAdapter and sets View.OnClickListener for each button. Also registers a RecyclerView.AdapterDataObserver responsible for scrolling to the end of the RecyclerView whenever an item is being inserted.

See also

CardListAdapter::registerAdapterDataObserver(RecyclerView.AdapterDataObserver)

Parameters

savedInstanceState	If this dialog is being reinitialized after the hosting activity was previously shut down,
	holds the result from the most recent call to <code>onSaveInstanceState</code> , or null if this is
	the first time.

Smoothly scrolls to the last item in the RecyclerView to show the user that an item has been inserted.

Parameters

positionStart	Integer defining the first position from where new items are inserted.
itemCount	Integer defining how many items have been inserted.

See also

RecyclerView::smoothScrollToPosition(int)

Reimplemented from OverlayDialog.

Definition at line 142 of file ShowUnitsDialog.java.

References ShowUnitsDialog.cardListAdapter, ShowUnitsDialog.disposables, ShowUnitsDialog.soundManager, and ShowUnitsDialog.unitRecyclerView.

5.54.4 Member Data Documentation

5.54.4.1 cardListAdapter

```
final CardListAdapter cardListAdapter [private]
```

CardListAdapter offering a list of CardUiState objects to the UI.

Definition at line 44 of file ShowUnitsDialog.java.

Referenced by ShowUnitsDialog.ShowUnitsDialog(), and ShowUnitsDialog.onCreate().

5.54.4.2 disposables

```
final CompositeDisposable disposables = new CompositeDisposable() [private]
```

CompositeDisposable keeping track of all subscriptions to observables made by this class.

Is being disposed in an android.content.DialogInterface.OnDismissListener that is set in #onCreate().

See also

android.content.DialogInterface.OnDismissListener

#onCreate(Bundle)

Definition at line 63 of file ShowUnitsDialog.java.

 $Referenced \ by \ ShowUnitsDialog.getDialog(), \ and \ ShowUnitsDialog.onCreate().$

5.54.4.3 row

```
final RowType row [private]
```

RowType defining which row is represented by this Dialog.

See also

#getRow()

Definition at line 38 of file ShowUnitsDialog.java.

Referenced by ShowUnitsDialog.ShowUnitsDialog(), ShowUnitsDialog.getDialog(), and ShowUnitsDialog.getRow().

5.54.4.4 soundManager

final SoundManager soundManager [private]

SoundManager used to play a Sound whenever a card is added or removed.

See also

SoundManager::playCardAddSound(RowType, boolean)

SoundManager::playCardRemovedSound()

Definition at line 53 of file ShowUnitsDialog.java.

Referenced by ShowUnitsDialog.ShowUnitsDialog(), ShowUnitsDialog.getDialog(), and ShowUnitsDialog.onCreate().

5.54.4.5 unitRecyclerView

RecyclerView unitRecyclerView [private]

RecyclerView presenting the units provided by the cardListAdapter.

Definition at line 68 of file ShowUnitsDialog.java.

Referenced by ShowUnitsDialog.onCreate().

The documentation for this class was generated from the following file:

· gwent/ui/dialogs/cards/ShowUnitsDialog.java

5.55 Sound Class Reference

A data class encapsulating information on a certain sound effect, e.g., its id in a SoundPool and whether it is activated in settings.

Collaboration diagram for Sound:

Sound

Package Functions

• String getPreferenceKey ()

Returns the key where this Sound is activated in the SharedPreferences.

• int getSoundId ()

Returns the id of this sound effect at the SoundPool.

• boolean isActivated ()

Returns whether the sound is activated in the settings.

void setActivated (boolean activated)

Changes the value of #activated to the given Boolean.

void setActivated (@NonNull SharedPreferences sharedPreferences)

Changes the value of #activated based on the given SharedPreferences.

Static Package Functions

 static Sound createSound (@NonNull Context context, @StringRes int preferenceRes, @NonNull SoundPool soundPool, @RawRes int resId)

Returns a new Sound object encapsulating data for a newly registered sound effect.

Private Member Functions

· Sound (@NonNull String preferenceKey, int soundId, boolean activated)

Constructor of a Sound encapsulating the given values.

Private Attributes

final String preferenceKey

String representing a key of the default SharedPreferences.

· final int soundld

Integer representing the id of the registered sound at a SoundPool.

· boolean activated

Boolean defining whether the sound is muted in the settings.

5.55.1 Detailed Description

A data class encapsulating information on a certain sound effect, e.g., its id in a SoundPool and whether it is activated in settings.

Definition at line 20 of file Sound.java.

5.55.2 Constructor & Destructor Documentation

5.55.2.1 Sound()

```
Sound (

@NonNull String preferenceKey,
int soundId,
boolean activated ) [private]
```

Constructor of a Sound encapsulating the given values.

Should only be called by factory method #createSound()

Parameters

preferenceKey	String representing the key where the activated status is defined in SharedPreferences.
soundld	Integer representing the id of the registered sound at a SoundPool.
activated	Boolean defining whether the sound is activated in the settings.

See also

```
#createSound(Context, int, SoundPool, int)
```

Definition at line 48 of file Sound.java.

References Sound.activated, Sound.preferenceKey, and Sound.soundld.

5.55.3 Member Function Documentation

5.55.3.1 createSound()

```
static Sound createSound (
     @NonNull Context context,
     @StringRes int preferenceRes,
     @NonNull SoundPool soundPool,
     @RawRes int resId ) [static], [package]
```

Returns a new Sound object encapsulating data for a newly registered sound effect.

Factory method for the Sound class. Gets #preferenceKey from the given Context. Registers the sound with the given resld at the given SoundPool. Decides the value of #activated from SharedPreferences obtained using the given Context.

Parameters

context	Context of the application where this Sound is used.
preferenceRes	Integer referencing the String resource of the preference key for this Sound.
soundPool	SoundPool where the Sound is registered.
resId	Integer referencing the raw resource of the Sound.

Returns

A Sound object referencing the newly registered sound effect.

Definition at line 69 of file Sound.java.

References Sound.activated, Sound.preferenceKey, and Sound.soundld.

Referenced by SoundManager.SoundManager().

5.55.3.2 getPreferenceKey()

```
String getPreferenceKey ( ) [package]
```

Returns the key where this Sound is activated in the SharedPreferences.

Returns

A String referencing the activation option.

Definition at line 86 of file Sound.java. References Sound.preferenceKey.

5.55.3.3 getSoundId()

```
int getSoundId ( ) [package]
```

Returns the id of this sound effect at the SoundPool.

Returns

An Integer referencing the sound effect at the SoundPool.

Definition at line 95 of file Sound.java.

References Sound.soundld.

5.55.3.4 isActivated()

```
boolean isActivated ( ) [package]
```

Returns whether the sound is activated in the settings.

Returns

A Boolean defining whether the Sound is activated.

Definition at line 104 of file Sound.java.

References Sound.activated.

5.55.3.5 setActivated() [1/2]

```
void setActivated (
    @NonNull SharedPreferences sharedPreferences ) [package]
```

Changes the value of #activated based on the given SharedPreferences.

Only queries the boolean at key #preferenceKey, not whether all sounds are deactivated!

Parameters

sharedPreferences	SharedPreferences containing information on the activated sounds.]
-------------------	---	---

Definition at line 124 of file Sound.java.

References Sound.activated, Sound.preferenceKey, and Sound.setActivated().

5.55.3.6 setActivated() [2/2]

```
void setActivated (
                boolean activated ) [package]
```

Changes the value of #activated to the given Boolean.

Parameters

activated	Boolean defining whether the Sound is activated.
-----------	--

See also

#setActivated(SharedPreferences)

Definition at line 114 of file Sound.java.

References Sound.activated.

Referenced by Sound.setActivated().

5.55.4 Member Data Documentation

5.55.4.1 activated

boolean activated [private]

Boolean defining whether the sound is muted in the settings.

Definition at line 37 of file Sound.java.

Referenced by Sound.Sound(), Sound.createSound(), Sound.isActivated(), Sound.setActivated(), and Sound.setActivated().

5.55.4.2 preferenceKey

```
final String preferenceKey [private]
```

String representing a key of the default SharedPreferences.

The referenced preference decides whether the sound is activated (assuming that sounds are not completely disabled).

Definition at line 27 of file Sound.java.

Referenced by Sound.Sound(), Sound.createSound(), Sound.getPreferenceKey(), and Sound.setActivated().

5.55.4.3 soundld

```
final int soundId [private]
```

Integer representing the id of the registered sound at a SoundPool.

Definition at line 32 of file Sound.java.

Referenced by Sound.Sound(), Sound.createSound(), and Sound.getSoundId().

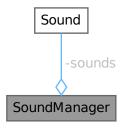
The documentation for this class was generated from the following file:

· gwent/ui/sounds/Sound.java

5.56 SoundManager Class Reference

A class responsible for initializing and playing sounds when they are enabled.

Collaboration diagram for SoundManager:



Public Member Functions

SoundManager (@NonNull Context context)

Constructor of a SoundManager in the given Context.

• void playSound (@IntRange(from=SOUND_WEATHER_GOOD, to=SOUND_COIN) int soundId)

Plays the given Sound if it is #activated.

· void playClearWeatherSound ()

Plays the clear weather sound.

void playWeatherSound (@NonNull RowType row)

Plays the weather sound of the given row.

• void playHornSound ()

Plays the horn sound.

• void playCardAddSound (@NonNull RowType row, boolean epic)

Plays the card add sound for the given row.

· void playCardRemovedSound ()

Plays the reset sound.

• void playResetSound ()

Plays the reset sound.

• void playBurnSound ()

Plays the burn sound.

void playCoinSound ()

Plays the coin sound.

Static Public Attributes

• static final int SOUND WEATHER GOOD = 0

Constant Integer representing the clear weather sound.

static final int SOUND_WEATHER_FROST = 1

Constant Integer representing the frost weather sound.

• static final int SOUND_WEATHER_FOG = 2

Constant Integer representing the fog weather sound.

static final int SOUND_WEATHER_RAIN = 3

Constant Integer representing the rain weather sound.

• static final int SOUND_HORN = 4

Constant Integer representing the horn sound.

• static final int SOUND CARDS EPIC = 5

Constant Integer representing the epic unit sound.

static final int SOUND_CARDS_MELEE = 6

Constant Integer representing the melee unit sound.

• static final int SOUND_CARDS_RANGE = 7

Constant Integer representing the range unit sound.

• static final int SOUND_CARDS_SIEGE = 8

Constant Integer representing the siege unit sound.

• static final int SOUND_RESET = 9

Constant Integer representing the reset sound.

• static final int SOUND_BURN = 10

Constant Integer representing the scorch sound.

• static final int SOUND COIN = 11

Constant Integer representing the coin-flip sound.

Private Attributes

final Sound[] sounds = new Sound[SOUND COIN + 1]

Array of Sound objects representing the different sound effects.

final SoundPool soundPool

SoundPool where sound effects are registered.

final SharedPreferences.OnSharedPreferenceChangeListener changeListener

OnSharedPreferenceChangeListener that is registered for the default SharedPreferences and updates the Sound← ::active attributes of all #sounds when a preference change occurs.

5.56.1 Detailed Description

A class responsible for initializing and playing sounds when they are enabled.

See also

Sound

Definition at line 23 of file SoundManager.java.

5.56.2 Constructor & Destructor Documentation

5.56.2.1 SoundManager()

```
SoundManager (

@NonNull Context context)
```

Constructor of a SoundManager in the given Context.

Creates a new #soundPool and registers #sounds using Sound::createSound(). Also registers a new #change ← Listener that updates the Sound::activated status when sound settings are updated.

Parameters

context	Context, this SoundManager is used in.
---------	--

See also

Sound::createSound(Context, int, SoundPool, int)

Definition at line 156 of file SoundManager.java.

References SoundManager.changeListener, Sound.createSound(), SoundManager.SOUND_BURN, SoundManager.SOUND_CARDS SoundManager.SOUND_CARDS_MELEE, SoundManager.SOUND_CARDS_RANGE, SoundManager.SOUND_CARDS_SIEGE, SoundManager.SOUND_COIN, SoundManager.SOUND_HORN, SoundManager.SOUND_RESET, SoundManager.SOUND_WEATHER_SoundManager.SOUND_WEATHER_FROST, SoundManager.SOUND_WEATHER_GOOD, SoundManager.SOUND_WEATHER_R/SoundManager.soundPool, and SoundManager.sounds.

5.56.3 Member Function Documentation

5.56.3.1 playBurnSound()

```
void playBurnSound ( ) Plays the burn sound. Wrapper for #playSound().
```

See also

#playSound(int)

Definition at line 311 of file SoundManager.java.

References SoundManager.playSound(), and SoundManager.SOUND_BURN.

5.56.3.2 playCardAddSound()

```
void playCardAddSound (
    @NonNull RowType row,
    boolean epic )
```

Plays the card add sound for the given row.

If the unit is epic, the epic sound is played. Wrapper for #playSound().

Parameters

row	RowType referencing the row for which the sound should be played.
epic	Boolean defining whether the added unit is epic.

See also

#playSound(int)

Definition at line 268 of file SoundManager.java.

References SoundManager.playSound(), SoundManager.SOUND_CARDS_EPIC, SoundManager.SOUND_CARDS_MELEE, SoundManager.SOUND_CARDS_RANGE, and SoundManager.SOUND_CARDS_SIEGE.

5.56.3.3 playCardRemovedSound()

```
void playCardRemovedSound ( )
Plays the reset sound.
Wrapper for #playSound().
See also
```

#playSound(int)

Definition at line 291 of file SoundManager.java.

 $References\ SoundManager.playSound(),\ and\ SoundManager.SOUND_RESET.$

5.56.3.4 playClearWeatherSound()

```
void playClearWeatherSound ( )
Plays the clear weather sound.
Wrapper for #playSound().
See also
```

#playSound(int)

Definition at line 225 of file SoundManager.java.

References SoundManager.playSound(), and SoundManager.SOUND_WEATHER_GOOD.

5.56.3.5 playCoinSound()

```
void playCoinSound ( ) Plays the coin sound. Wrapper for #playSound().
```

See also

#playSound(int)

Definition at line 320 of file SoundManager.java.

References SoundManager.playSound(), and SoundManager.SOUND_COIN.

5.56.3.6 playHornSound()

```
void playHornSound ( )
```

Plays the horn sound.

Wrapper for #playSound().

See also

#playSound(int)

Definition at line 255 of file SoundManager.java.

References SoundManager.playSound(), and SoundManager.SOUND_HORN.

5.56.3.7 playResetSound()

```
void playResetSound ( )
```

Plays the reset sound.

Wrapper for #playSound().

See also

#playSound(int)

Definition at line 301 of file SoundManager.java.

 $References\ SoundManager.playSound(),\ and\ SoundManager.SOUND_RESET.$

5.56.3.8 playSound()

```
void playSound (
    @IntRange(from=SOUND_WEATHER_GOOD, to=SOUND_COIN) int soundId )
```

Plays the given Sound if it is #activated.

Given soundId must be either #SOUND_WEATHER_GOOD, #SOUND_WEATHER_FROST, #SOUND_ \hookleftarrow WEATHER_FOG, #SOUND_WEATHER_RAIN, #SOUND_HORN, #SOUND_CARDS_EPIC, #SOUND_CARDS \hookleftarrow _MELEE, #SOUND_CARDS_RANGE, #SOUND_CARDS_SIEGE, #SOUND_RESET, #SOUND_BURN, or # \hookleftarrow SOUND_COIN, i.e., $0 \le soundId \le 11$ must be true. Alternately, #playClearWeatherSound(), #playWeather \hookleftarrow Sound(), #playHornSound(), #playCardAddSound(), #playCardRemovedSound(), #playResetSound(), #playBurn \hookleftarrow Sound(), or #playCoinSound() may be used.

Parameters

sound⇔	Integer representing the Sound that should be played.
ld	

Exceptions

IndexOutOfBoundsException	When $0 \leq soundId \leq 11$ is not true.
---------------------------	--

Definition at line 213 of file SoundManager.java.

References SoundManager.soundPool, and SoundManager.sounds.

Referenced by SoundManager.playBurnSound(), SoundManager.playCardAddSound(), SoundManager.playCardRemovedSound(), SoundManager.playClearWeatherSound(), SoundManager.playCoinSound(), SoundManager.playHornSound(), SoundManager.playResetSound(), and SoundManager.playWeatherSound().

5.56.3.9 playWeatherSound()

```
void playWeatherSound ( {\tt @NonNull\ RowType\ } row\ )
```

Plays the weather sound of the given row.

Wrapper for #playSound().

Parameters

row RowType referencing the row for which the sound should be played.

See also

#playSound(int)

Definition at line 236 of file SoundManager.java.

References SoundManager.playSound(), SoundManager.SOUND_WEATHER_FOG, SoundManager.SOUND_WEATHER_FROST, and SoundManager.SOUND_WEATHER_RAIN.

5.56.4 Member Data Documentation

5.56.4.1 changeListener

final SharedPreferences.OnSharedPreferenceChangeListener changeListener [private]

OnSharedPreferenceChangeListener that is registered for the default SharedPreferences and updates the Sound :: active attributes of all #sounds when a preference change occurs.

Reference must be kept (even if not used) to avoid garbage collection of the registered listener (see here for more information).

Definition at line 145 of file SoundManager.java.

Referenced by SoundManager.SoundManager().

5.56.4.2 SOUND_BURN

```
final int SOUND_BURN = 10 [static]
```

Constant Integer representing the scorch sound.

Index of the respective Sound object in #sounds.

See also

#playBurnSound()

Definition at line 110 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playBurnSound().

5.56.4.3 SOUND_CARDS_EPIC

```
final int SOUND_CARDS_EPIC = 5 [static]
```

Constant Integer representing the epic unit sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 70 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playCardAddSound().

5.56.4.4 SOUND_CARDS_MELEE

```
final int SOUND_CARDS_MELEE = 6 [static]
```

Constant Integer representing the melee unit sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 78 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playCardAddSound().

5.56.4.5 SOUND CARDS RANGE

```
final int SOUND_CARDS_RANGE = 7 [static]
```

Constant Integer representing the range unit sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 86 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playCardAddSound().

5.56.4.6 SOUND_CARDS_SIEGE

```
final int SOUND_CARDS_SIEGE = 8 [static]
```

Constant Integer representing the siege unit sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 94 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playCardAddSound().

5.56.4.7 SOUND_COIN

```
final int SOUND_COIN = 11 [static]
```

Constant Integer representing the coin-flip sound.

Index of the respective Sound object in #sounds.

See also

#playCoinSound()

Definition at line 118 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playCoinSound().

5.56.4.8 SOUND_HORN

```
final int SOUND_HORN = 4 [static]
```

Constant Integer representing the horn sound.

Index of the respective Sound object in #sounds.

See also

#playHornSound()

Definition at line 62 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playHornSound().

5.56.4.9 SOUND_RESET

```
final int SOUND_RESET = 9 [static]
```

Constant Integer representing the reset sound.

Index of the respective Sound object in #sounds.

See also

#playResetSound()

Definition at line 102 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), SoundManager.playCardRemovedSound(), and SoundManager.playResetSound().

5.56.4.10 SOUND WEATHER FOG

```
final int SOUND_WEATHER_FOG = 2 [static]
```

Constant Integer representing the fog weather sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 46 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playWeatherSound().

5.56.4.11 SOUND_WEATHER_FROST

```
final int SOUND_WEATHER_FROST = 1 [static]
```

Constant Integer representing the frost weather sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 38 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playWeatherSound().

5.56.4.12 SOUND WEATHER GOOD

```
final int SOUND_WEATHER_GOOD = 0 [static]
```

Constant Integer representing the clear weather sound.

Index of the respective Sound object in #sounds.

See also

#playClearWeatherSound()

Definition at line 30 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playClearWeatherSound().

5.56.4.13 SOUND_WEATHER_RAIN

```
final int SOUND_WEATHER_RAIN = 3 [static]
```

Constant Integer representing the rain weather sound.

Index of the respective Sound object in #sounds.

See also

#playCardAddSound(RowType, boolean)

Definition at line 54 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playWeatherSound().

5.56.4.14 soundPool

final SoundPool soundPool [private]

SoundPool where sound effects are registered.

Definition at line 134 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playSound().

5.56.4.15 sounds

```
final Sound [] sounds = new Sound[SOUND_COIN + 1] [private]
```

Array of Sound objects representing the different sound effects.

Indices are the public constants defined here, i.e., #SOUND_WEATHER_GOOD, #SOUND_WEATHER_ FROST, #SOUND_WEATHER_FOG, #SOUND_WEATHER_RAIN, #SOUND_HORN, #SOUND_CARDS_EPIC, #SOUND_CARDS_MELEE, #SOUND_CARDS_RANGE, #SOUND_CARDS_SIEGE, #SOUND_RESET, # SOUND_BURN, and #SOUND_COIN.

Definition at line 128 of file SoundManager.java.

Referenced by SoundManager.SoundManager(), and SoundManager.playSound().

The documentation for this class was generated from the following file:

· gwent/ui/sounds/SoundManager.java

5.57 SquadManager Class Reference

A class used by the CardNumberPickerAdapter to determine the first squad with members or set the default damage according to the squads base damage.

Collaboration diagram for SquadManager:



Static Public Attributes

• static final int MAX NR SQUADS = 3

Integer constant defining how many different squads there may be per row.

Package Functions

Constructor of a new SquadManager storing information on the squads of the given units.

• int getFirstSquadWithMembers ()

Returns the lowest squad number referring to a squad that has members.

 void onSquadChanged (@IntRange(from=1, to=MAX_NR_SQUADS) int newVal, @NonNull DamageValuePicker picker)

Shows a Toast with information about the selected squad and sets the given picker to the SquadState::member

BaseDamage of said squad.

Private Attributes

final SquadState[] states = new SquadState[MAX_NR_SQUADS]

Array of SquadState objects containing one SquadState for each possible squad.

5.57.1 Detailed Description

A class used by the CardNumberPickerAdapter to determine the first squad with members or set the default damage according to the squads base damage.

See also

CardNumberPickerAdapter

Definition at line 24 of file SquadManager.java.

5.57.2 Constructor & Destructor Documentation

5.57.2.1 SquadManager()

Constructor of a new SquadManager storing information on the squads of the given units.

Parameters

	units Lis	List of UnitEntity objects that is used to fetch squad information.	
--	-----------	---	--

Definition at line 41 of file SquadManager.java.

References SquadState.getState(), SquadManager.MAX_NR_SQUADS, and SquadManager.states.

5.57.3 Member Function Documentation

5.57.3.1 getFirstSquadWithMembers()

```
int getFirstSquadWithMembers ( ) [package]
```

Returns the lowest squad number referring to a squad that has members.

If no squad has members, i.e., there are no units with the Ability::BINDING ability, 1 is returned.

Returns

An Integer referencing to the first squad with members.

Definition at line 55 of file SquadManager.java.

References SquadState.getSquadNumber(), SquadState.hasMembers(), and SquadManager.states.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), and CardNumberPickerAdapter.addSelectedUnits().

5.57.3.2 onSquadChanged()

```
void onSquadChanged (
    @IntRange(from=1, to=MAX_NR_SQUADS) int newVal,
    @NonNull DamageValuePicker picker ) [package]
```

Shows a Toast with information about the selected squad and sets the given picker to the SquadState::member ← BaseDamage of said squad.

Parameters

newVal	Integer representing the newly selected squad.
picker	DamageValuePicker that is updated.

Exceptions

IllegalArgumentException When newVal is not between 1 and #MAX_NR_SQUADS.

See also

SquadState::getMemberBaseDamage()

Definition at line 72 of file SquadManager.java.

References SquadState.getMemberBaseDamage(), SquadState.getSquadMembers(), SquadState.getSquadNumber(), SquadState.hasMembers(), SquadManager.MAX_NR_SQUADS, and SquadManager.states.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter().

5.57.4 Member Data Documentation

5.57.4.1 MAX NR SQUADS

```
final int MAX_NR_SQUADS = 3 [static]
```

Integer constant defining how many different squads there may be per row.

Definition at line 28 of file SquadManager.java.

Referenced by CardNumberPickerAdapter.CardNumberPickerAdapter(), SquadManager.SquadManager(), and SquadManager.onSquadChanged().

5.57.4.2 states

```
final SquadState [] states = new SquadState[MAX_NR_SQUADS] [private]
```

Array of SquadState objects containing one SquadState for each possible squad.

Definition at line 34 of file SquadManager.java.

Referenced by SquadManager.SquadManager(), SquadManager.getFirstSquadWithMembers(), and SquadManager.onSquadChange The documentation for this class was generated from the following file:

• gwent/ui/dialogs/addcard/SquadManager.java

5.58 SquadState Class Reference

A data class encapsulating information about the squad defined by #squadNumber, i.e., how many #squadMembers are there and what is the #memberBaseDamage of units in this squad.

Collaboration diagram for SquadState:

SquadState

Package Functions

• boolean hasMembers ()

Returns whether the represented squad has members, i.e., whether #squadMembers is greater than 0.

int getSquadNumber ()

Returns the number of the represented squad.

• int getSquadMembers ()

Returns the number of members in the represented squad.

int getMemberBaseDamage ()

Returns the base damage of members in the represented squad.

Static Package Functions

static SquadState getState (@IntRange(from=1, to=MAX_NR_SQUADS) int squadNumber, @NonNull List
 UnitEntity > units)

Creates a new SquadState representing the squad with the given #squadNumber.

Private Member Functions

SquadState (@IntRange(from=1, to=MAX_NR_SQUADS) int squadNumber, @IntRange(from=0) int squadMembers, @IntRange(from=0, to=NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int memberBaseDamage)

Constructor of a SquadState with the given #squadNumber, #squadMembers, and #memberBaseDamage.

Private Attributes

· final int squadNumber

Integer containing the number of the represented squad.

final int squadMembers

Integer representing the number of members in the squad.

final int memberBaseDamage

Integer containing the base damage of members of this squad.

5.58.1 Detailed Description

A data class encapsulating information about the squad defined by #squadNumber, i.e., how many #squadMembers are there and what is the #memberBaseDamage of units in this squad.

See also

SquadManager

Definition at line 19 of file SquadState.java.

5.58.2 Constructor & Destructor Documentation

5.58.2.1 SquadState()

```
SquadState (
          @IntRange(from=1, to=MAX_NR_SQUADS) int squadNumber,
          @IntRange(from=0) int squadMembers,
          @IntRange(from=0, to=NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int memberBaseDamage )
[private]
```

Constructor of a SquadState with the given #squadNumber, #squadMembers, and #memberBaseDamage. Should only be used by #getState().

Parameters

squadNumber	Integer containing the number of the represented squad.
squadMembers	Integer representing the number of members in the squad.
memberBaseDamage	Integer containing the base damage of members of this squad.

See also

#getState(int, List)

Exceptions

IllegalArgumentException	When one of the parameters doesn't meet its IntRange constraint.
--------------------------	--

Definition at line 55 of file SquadState.java.

References SquadState.memberBaseDamage, SquadState.squadMembers, and SquadState.squadNumber.

5.58.3 Member Function Documentation

5.58.3.1 getMemberBaseDamage()

```
int getMemberBaseDamage ( ) [package]
```

Returns the base damage of members in the represented squad.

See also

#memberBaseDamage

Returns

An Integer defining the base damage of units in the represented squad.

Definition at line 127 of file SquadState.java.

References SquadState.memberBaseDamage.

Referenced by SquadManager.onSquadChanged().

5.58.3.2 getSquadMembers()

```
int getSquadMembers ( ) [package]
```

Returns the number of members in the represented squad.

See also

#squadMembers

Returns

An Integer defining how many members are in the represented squad.

Definition at line 117 of file SquadState.java.

References SquadState.squadMembers.

Referenced by SquadManager.onSquadChanged().

5.58.3.3 getSquadNumber()

```
int getSquadNumber ( ) [package]
```

Returns the number of the represented squad.

See also

#squadNumber

Returns

An Integer defining which squad is represented.

Definition at line 107 of file SquadState.java.

References SquadState.squadNumber.

Referenced by SquadManager.getFirstSquadWithMembers(), and SquadManager.onSquadChanged().

5.58.3.4 getState()

```
static SquadState getState (
    @IntRange(from=1, to=MAX_NR_SQUADS) int squadNumber,
    @NonNull List< UnitEntity > units ) [static], [package]
```

Creates a new SquadState representing the squad with the given #squadNumber.

Information for #squadMembers and #memberBaseDamage is retrieved from the given List of UnitEntity objects.

Parameters

squadNumber	Integer containing the number of the represented squad.
units	List of UnitEntity objects used to count squad-members.

Returns

A SquadState object that is newly created from the given List of units.

Exceptions

	IllegalArgumentException	When the given squad number is not between 1 and #MAX_NR_SQUADS.
--	--------------------------	--

Definition at line 80 of file SquadState.java.

References SquadState.squadNumber.

Referenced by SquadManager.SquadManager().

5.58.3.5 hasMembers()

boolean hasMembers () [package]

Returns whether the represented squad has members, i.e., whether #squadMembers is greater than 0.

Returns

A Boolean defining whether the represented squad has members or not.

Definition at line 97 of file SquadState.java.

References SquadState.squadMembers.

Referenced by SquadManager.getFirstSquadWithMembers(), and SquadManager.onSquadChanged().

5.58.4 Member Data Documentation

5.58.4.1 memberBaseDamage

```
final int memberBaseDamage [private]
```

Integer containing the base damage of members of this squad.

If members have different UnitEntity::damage values, it is undefined which of them is picked. If #squadMembers is 0, #memberBaseDamage defaults to 5.

See also

#getMemberBaseDamage()

Definition at line 43 of file SquadState.java.

Referenced by SquadState.SquadState(), and SquadState.getMemberBaseDamage().

5.58.4.2 squadMembers

```
final int squadMembers [private]
```

Integer representing the number of members in the squad.

See also

#getSquadMembers()

Definition at line 34 of file SquadState.java.

 $Referenced\ by\ SquadState. SquadState (),\ SquadState. getSquadMembers (),\ and\ SquadState. has Members ().$

5.58.4.3 squadNumber

final int squadNumber [private]

Integer containing the number of the represented squad.

Equivalent to UnitEntity::squad of the units in the squad.

See also

#getSquadNumber()

Definition at line 27 of file SquadState.java.

Referenced by SquadState.SquadState(), SquadState.getSquadNumber(), and SquadState.getState().

The documentation for this class was generated from the following file:

· gwent/ui/dialogs/addcard/SquadState.java

5.59 StringValuePicker < T extends Comparable Class Template Reference

A ValuePicker displaying a resource String for each element in selectable Values. Collaboration diagram for String ValuePicker < T extends Comparable:

StringValuePicker< T extends Comparable

5.59.1 Detailed Description

A ValuePicker displaying a resource String for each element in selectable Values.

The resource String is retrieved from displayIntegers by using the associated Integer as the String id in #get

DisplayString().

See also

#getDisplayString(Comparable)

Definition at line 17 of file StringValuePicker.java.

The documentation for this class was generated from the following file:

• gwent/ui/dialogs/addcard/StringValuePicker.java

5.60 ResetDialogUseCase.Trigger Enum Reference

An Enum listing the possible triggers of a reset.

Collaboration diagram for ResetDialogUseCase.Trigger:

ResetDialogUseCase.Trigger

Public Attributes

• BUTTON_CLICK

Represents, that a reset was triggered by a click on the reset button.

FACTION SWITCH

Represents that a reset was triggered by a faction switch.

5.60.1 Detailed Description

An Enum listing the possible triggers of a reset.

Definition at line 130 of file ResetDialogUseCase.java.

5.60.2 Member Data Documentation

5.60.2.1 BUTTON_CLICK

BUTTON_CLICK

Represents, that a reset was triggered by a click on the reset button.

Definition at line 134 of file ResetDialogUseCase.java.

5.60.2.2 FACTION_SWITCH

FACTION_SWITCH

Represents that a reset was triggered by a faction switch.

Only relevant if faction reset is activated, i.e., the preference at the key referenced by R. string #preference_key_faction_r is true

Definition at line 141 of file ResetDialogUseCase.java.

Referenced by ResetAlertDialogBuilderAdapter.setTrigger().

The documentation for this enum was generated from the following file:

• gwent/domain/cases/ResetDialogUseCase.java

5.61 UnitDao Interface Reference

An interface defining data access operations related to units table.

Collaboration diagram for UnitDao:

UnitDao

Public Member Functions

Completable insertUnit (@NonNull UnitEntity unit)

Inserts the given UnitEntity into units.

• Completable insertUnit (boolean epic, @IntRange(from=0, to=UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int damage, @NonNull Ability ability, @IntRange(from=1) @Nullable Integer squad, @NonNull RowType row)

Inserts a UnitEntity with the given values into units.

Completable deleteUnit (int id)

Deletes the UnitEntity object with the given id from units.

Completable deleteUnits (@NonNull Collection < UnitEntity > units)

Deletes the given UnitEntity objects from units.

Single < UnitEntity > getUnit (int id)

Fetches the UnitEntity object with the given id from units.

Single < List < UnitEntity > > getUnits (@NonNull RowType row)

Fetches all UnitEntity objects from units in the given row.

Flowable < List < UnitEntity > > getUnitsFlowable (@NonNull RowType row)

Fetches a Flowable for all UnitEntity objects from units in the given row.

Single < List < UnitEntity > > getUnits ()

Fetches all UnitEntity objects from units.

Single < Integer > countUnits (@NonNull RowType row)

Counts UnitEntity objects in units in the given row.

• Single < Integer > countUnits ()

Counts UnitEntity objects in units.

Flowable < Boolean > hasNonEpicUnitsFlowable ()

Fetches a Flowable of Booleans defining whether units contains units that are not epic.

5.61.1 Detailed Description

An interface defining data access operations related to units table.

The implementation is generated by the Room framework.

Definition at line 25 of file UnitDao.java.

5.61.2 Member Function Documentation

5.61.2.1 countUnits() [1/2]

```
Single< Integer > countUnits ( )
Counts UnitEntity objects in units.
```

Returns

A Single tracking operation status and returning the value.

5.61.2.2 countUnits() [2/2]

```
Single< Integer > countUnits (
     @NonNull RowType row )
```

Counts UnitEntity objects in units in the given row.

Parameters

```
row RowType defining the UnitEntity::row foreign key.
```

Returns

A Single tracking operation status and returning the value.

 $Referenced\ by\ UnitRepository.countUnits(),\ and\ UnitRepository.countUnits().$

5.61.2.3 deleteUnit()

Deletes the UnitEntity object with the given id from units.

Parameters

id Integer representing the UnitEntity::id of the deleted UnitEntity.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.delete().

5.61.2.4 deleteUnits()

```
Completable deleteUnits ( {\tt @NonNull~Collection} < {\tt UnitEntity} \, > \, units \, )
```

Deletes the given UnitEntity objects from units.

Parameters

units List of UnitEntity that are being inserted.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.delete().

5.61.2.5 getUnit()

Fetches the UnitEntity object with the given id from units.

Parameters

id Integer representing the UnitEntity::id of the requested UnitEntity.

Returns

A Single tracking operation status and returning the value.

Referenced by UnitRepository.getUnit().

5.61.2.6 getUnits() [1/2]

```
Single< List< UnitEntity > > getUnits ( ) Fetches all UnitEntity objects from units.
```

Returns

A Single tracking operation status and returning the value.

5.61.2.7 getUnits() [2/2]

```
Single< List< UnitEntity > > getUnits (
     @NonNull RowType row )
```

Fetches all UnitEntity objects from units in the given row.

See also

#getUnitsFlowable(RowType)

Parameters

row RowType defining the UnitEntity::row foreign key.

Returns

A Single tracking operation status and returning the value.

Referenced by UnitRepository.getUnits(), and UnitRepository.getUnits().

5.61.2.8 getUnitsFlowable()

Fetches a Flowable for all UnitEntity objects from units in the given row.

Parameters

row RowType defining the UnitEntity::row foreign key.

Returns

A Flowable emitting the values.

See also

#getUnits(RowType)

Referenced by UnitRepository.getUnitsFlowable().

5.61.2.9 hasNonEpicUnitsFlowable()

```
Flowable< Boolean > hasNonEpicUnitsFlowable ( )
```

Fetches a Flowable of Booleans defining whether units contains units that are not epic.

Returns

A Flowable emitting the values.

Referenced by UnitRepository.hasNonEpicUnitsFlowable().

5.61.2.10 insertUnit() [1/2]

```
Completable insertUnit ( {\tt @NonNull~UnitEntity~unit~)}
```

Inserts the given UnitEntity into units.

If the same UnitEntity::id is already in the table, the new insert is ignored.

Parameters

unit UnitEntity that is being inserted.

Returns

A Completable tracking operation status.

Referenced by UnitRepository.insertUnit(), and UnitRepository.reset().

5.61.2.11 insertUnit() [2/2]

```
Completable insertUnit (
```

```
boolean epic,
@IntRange(from=0, to=UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int damage,
@NonNull Ability ability,
@IntRange(from=1) @Nullable Integer squad,
@NonNull RowType row )
```

Inserts a UnitEntity with the given values into units.

Parameters

epic	Boolean defining whether the unit is epic.
damage	Non-Negative value defining the base-damage of the unit.
ability	Ability defining the ability of the unit.
squad	Non-Negative value defining the squad of units, if UnitEntity::ability is Ability::BINDING, or null.
row	RowType defining the UnitEntity::row foreign key.

Returns

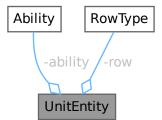
A Completable tracking operation status.

The documentation for this interface was generated from the following file:

· gwent/data/UnitDao.java

5.62 UnitEntity Class Reference

A class representing a card on the game board. Collaboration diagram for UnitEntity:



Public Member Functions

- int calculateDamage (@NonNull DamageCalculator calculator)
 - Calculates the damage of this unit when (de-)buffed.
- Color isBuffed (@NonNull DamageCalculator calculator)

Returns whether this unit is (de-)buffed.

String toString (@NonNull Context context)

Returns a string representation of this unit.

• int getId ()

Getter for #id.

• boolean isEpic ()

Getter for #epic.

• int getDamage ()

Getter for #damage.

Ability getAbility ()

Getter for #ability.

• Integer getSquad ()

Getter for #squad.

RowType getRow ()

Getter for #row.

Static Public Member Functions

static String collectionToString (@NonNull Context context, @NonNull Collection< UnitEntity > units)

Creates a String containing the descriptions of all units in the given collection, separated by commas.

Static Public Attributes

• static final Integer[] EPIC_DAMAGE_VALUES = new Integer[]{0, 7, 8, 10, 11, 15}

Integer array containing every damage value an epic unit may have.

• static final int NON_EPIC_DAMAGE_VALUES_UPPER_BOUND = 20

Integer defining what the maximum damage of a non-epic UnitEntity can be.

Package Functions

UnitEntity (boolean epic, @IntRange(from=0) int damage, @NonNull Ability ability, @IntRange(from=1)
 @Nullable Integer squad, @NonNull RowType row)

Constructor of a UnitEntity.

· void setId (int id)

Setter for #id.

void setEpic (boolean epic)

Setter for #epic.

void setDamage (@IntRange(from=0) int damage)

Setter for #damage.

void setAbility (@NonNull Ability ability)

Setter for #ability.

void setSquad (@IntRange(from=1) @Nullable Integer squad)

Setter for #squad.

void setRow (@NonNull RowType row)

Setter for #row.

Private Attributes

int id

Defines the primary key of the represented unit.

· boolean epic

Defines whether the represented card is epic.

· int damage

Defines the base-damage of the represented card.

· Ability ability

Defines the Ability of the represented card.

Integer squad

Defines the squad the unit belongs to if #ability is Ability::BINDING.

RowType row

Defines the attack row the card lies in.

5.62.1 Detailed Description

A class representing a card on the game board.

Is a persistent Entity and is therefore saved in a database table named $\verb"units".$

Definition at line 36 of file UnitEntity.java.

5.62.2 Constructor & Destructor Documentation

5.62.2.1 UnitEntity()

Constructor of a UnitEntity.

#id may not be set here since the value is generated automatically.

Parameters

epic	Boolean representing whether card is #epic.	
damage	damage Non-negative value representing the #damage of the card.	
ability	Ability representing the #ability of the card.	
squad	Integer representing the #squad of a card that has the Ability::BINDING #ability.	
row	RowType representing the combat type of the card.	

Exceptions

IllegalArgumentException	When damage is less than zero or if ability is Ability::BINDING and squad is null or
	less than one or if ability is not Ability::BINDING and squad is not null.

Definition at line 105 of file UnitEntity.java.

References Ability.BINDING.

5.62.3 Member Function Documentation

5.62.3.1 calculateDamage()

Calculates the damage of this unit when (de-)buffed.

Returns #damage if #epic is true. Otherwise, the damage is calculated through the given DamageCalculator, which follows the visitor pattern.

Parameters

calculat	tor	DamageCalculator visitor used for damage calculation.
----------	-----	---

Returns

An Integer representing the units (de-)buffed damage.

See also

#getDamage()

Definition at line 132 of file UnitEntity.java.

5.62.3.2 collectionToString()

```
static String collectionToString (
     @NonNull Context context,
     @NonNull Collection< UnitEntity > units ) [static]
```

Creates a String containing the descriptions of all units in the given collection, separated by commas. If n units have the same description, instead of printing the same description n times, "n×" is printed in front of the description. Unit descriptions are created using #toString(Context). Ordering of units in the given Collection is not guaranteed to be kept.

Parameters

context	Context used to acquire String resources.
units	Collection of UnitEntity objects that should be in the created String.

Returns

A String containing the description of all units.

Exceptions

IllegalArgumentException	When units collection is empty.
--------------------------	---------------------------------

See also

#toString(Context)

Definition at line 166 of file UnitEntity.java.

5.62.3.3 getAbility()

```
Ability getAbility ( ) Getter for #ability.
```

Returns

Ability representing the units' ability.

Definition at line 315 of file UnitEntity.java.

5.62.3.4 getDamage()

```
int getDamage ( )
Getter for #damage.
```

Returns

Integer representing the card's base-damage.

See also

#calculateDamage(DamageCalculator)

Definition at line 291 of file UnitEntity.java.

5.62.3.5 getId()

```
int getId ( )
Getter for #id.
```

Returns

Integer representing the units' id.

Definition at line 252 of file UnitEntity.java. Referenced by UnitRepository.getUnitsFlowable().

5.62.3.6 getRow()

```
RowType getRow ( )
Getter for #row.
```

Returns

RowType representing the units combat row.

Definition at line 362 of file UnitEntity.java.

5.62.3.7 getSquad()

```
Integer getSquad ( )
Getter for #squad.
```

Returns

Integer representing the units' squad if #ability is Ability::BINDING or null.

Definition at line 335 of file UnitEntity.java.

5.62.3.8 isBuffed()

```
Color is
Buffed ( {\tt @NonNull\ DamageCalculator\ } calculator\ )
```

Returns whether this unit is (de-)buffed.

Returns Color::DEFAULT if #epic is true. Otherwise, whether the unit is (de-)buffed is calculated through the given DamageCalculator, which follows the visitor pattern.

Parameters

calculator DamageCalculator visitor used for damage calculation.
--

Returns

A Color representing the units (de-)buffed damage.

See also

#getDamage()

Definition at line 147 of file UnitEntity.java.

5.62.3.9 isEpic()

```
boolean isEpic ()
Getter for #epic.
```

Returns

Boolean representing whether the card is epic.

Definition at line 271 of file UnitEntity.java.

5.62.3.10 setAbility()

```
void setAbility (
          @NonNull Ability ability ) [package]
```

Setter for #ability.

Only used by Room extension.

Parameters

```
ability Ability representing the units' ability.
```

Definition at line 325 of file UnitEntity.java.

5.62.3.11 setDamage()

```
void setDamage (
    @IntRange(from=0) int damage ) [package]
```

Setter for #damage.

Only used by Room extension.

Parameters

Exceptions

IllegalArgumentException When damage is less than zero.

Definition at line 302 of file UnitEntity.java.

5.62.3.12 setEpic()

```
void setEpic (
                boolean epic ) [package]
```

Setter for #epic.

Only used by Room extension.

Parameters

epic Boolean representing whether the card is epic.

Definition at line 281 of file UnitEntity.java.

5.62.3.13 setId()

```
void setId (
                int id ) [package]
```

Setter for #id.

Only used by Room extension.

Parameters

id Integer representing the units' id.

Definition at line 262 of file UnitEntity.java.

5.62.3.14 setRow()

```
void setRow (
    @NonNull RowType row ) [package]
```

Setter for #row.

Only used by Room extension.

Parameters

row RowType representing the units combat row.

Definition at line 372 of file UnitEntity.java.

5.62.3.15 setSquad()

```
void setSquad (
    @IntRange(from=1) @Nullable Integer squad ) [package]
```

Setter for #squad.

Only used by Room extension.

Parameters

squad Integer representing the units' squad if #ability is Ability::BINDING or null.

Exceptions

IllegalArgumentException	When #ability is Ability::BINDING and squad is null or less than 1 or if #ability is
	not Ability::BINDING and squad is not null.

Definition at line 346 of file UnitEntity.java.

References Ability.BINDING.

5.62.3.16 toString()

```
String toString (

@NonNull Context context)
```

Returns a string representation of this unit.

The representation contains information on each field of this class, i.e., #row, #epic, #damage, #ability, and #squad.

Parameters

context | Context used to acquire String resources.

Returns

A string representing the unit.

Definition at line 210 of file UnitEntity.java.

5.62.4 Member Data Documentation

5.62.4.1 ability

```
Ability ability [private]
```

Defines the Ability of the represented card.

Is set to Ability::NONE by default. Must not be null.

Definition at line 75 of file UnitEntity.java.

5.62.4.2 damage

```
int damage [private]
```

Defines the base-damage of the represented card.

Must be non-negative.

Definition at line 55 of file UnitEntity.java.

5.62.4.3 epic

```
boolean epic [private]
```

Defines whether the represented card is epic.

Is set to false by default.

Definition at line 49 of file UnitEntity.java.

5.62.4.4 EPIC DAMAGE VALUES

```
final Integer [] EPIC_DAMAGE_VALUES = new Integer[]{0, 7, 8, 10, 11, 15} [static]
```

Integer array containing every damage value an epic unit may have.

Definition at line 61 of file UnitEntity.java.

Referenced by UnitRepository.insertUnit().

5.62.4.5 id

```
int id [private]
```

Defines the primary key of the represented unit.

Is generated automatically on insert.

Definition at line 42 of file UnitEntity.java.

5.62.4.6 NON EPIC DAMAGE VALUES UPPER BOUND

```
final int NON_EPIC_DAMAGE_VALUES_UPPER_BOUND = 20 [static]
```

Integer defining what the maximum damage of a non-epic UnitEntity can be.

Definition at line 66 of file UnitEntity.java.

Referenced by UnitRepository.insertUnit().

5.62.4.7 row

```
RowType row [private]
```

Defines the attack row the card lies in.

Must not be null.

Definition at line 92 of file UnitEntity.java.

5.62.4.8 squad

```
Integer squad [private]
```

Defines the squad the unit belongs to if #ability is Ability::BINDING.

If #ability is anything else, this value is null.

Definition at line 84 of file UnitEntity.java.

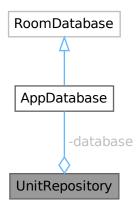
The documentation for this class was generated from the following file:

• gwent/data/UnitEntity.java

5.63 UnitRepository Class Reference

A facade class managing public access to the data layer.

Collaboration diagram for UnitRepository:



Public Member Functions

· Completable reset ()

Resets the board by removing all units and resetting row status.

Completable reset (@Nullable UnitEntity keptUnit)

Resets the board by removing all units but the given one and resetting row status.

Completable insertUnit (boolean epic, @IntRange(from=0, to=UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND)
int damage, @NonNull Ability ability, @IntRange(from=1) @Nullable Integer squad, @NonNull RowType row,
@IntRange(from=0) int number)

Adds a number of units with the given stats to the given row.

• Completable switchWeather (@NonNull RowType row)

Flips RowEntity::weather of the given attack row.

Single < Boolean > isWeather (@NonNull RowType row)

 $Returns\ the\ value\ of\ Row Entity:: we ather\ for\ the\ given\ attack\ row.$

 $\bullet \ \ Flowable < Boolean > is Weather Flowable \ (@NonNull \ Row Type \ row) \\$

Returns a Flowable emitting the latest value of RowEntity::weather for the given attack row.

Completable clearWeather ()

Sets RowEntity::weather to false for all attack rows.

Completable switchHorn (@NonNull RowType row)

Flips RowEntity::horn of the given attack row.

Single < Boolean > isHorn (@NonNull RowType row)

Returns the value of RowEntity::horn for the given attack row.

Flowable < Boolean > isHornFlowable (@NonNull RowType row)

Returns a Flowable emitting the values of RowEntity::horn for the given attack row.

• Completable delete (@NonNull Collection < UnitEntity > units)

Removes the given units from the game.

• Completable delete (int id)

Removes the unit with the given id from the game.

Completable copy (int id)

Copies the unit with the given id.

Single < Integer > countUnits (@NonNull RowType row)

Counts the units in the given attack row.

• Single< Integer > countUnits ()

Counts the units in all attack rows.

• Single< UnitEntity > getUnit (int id)

Returns the unit with the given id.

Single < List < UnitEntity > > getUnits (@NonNull RowType row)

Returns the units in the given attack row.

Flowable < List < UnitEntity > > getUnitsFlowable (@NonNull RowType row)

Returns a Flowable emitting the units in the given attack row.

• Single< List< UnitEntity >> getUnits ()

Returns the units in the given attack row.

Flowable < Boolean > hasNonEpicUnitsFlowable ()

Returns a Flowable emitting Boolean values defining whether there are units in the game that are not epic.

Static Public Member Functions

static Single < UnitRepository > getRepository (@NonNull AppDatabase database)

Factory method for the UnitRepository class.

Private Member Functions

UnitRepository (@NonNull AppDatabase database)

Constructor of a UnitRepository.

· Completable initializeRows ()

Adds one attack row for each RowType.

Completable insertUnit (boolean epic, @IntRange(from=0, to=UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND)
int damage, @NonNull Ability ability, @IntRange(from=1) @Nullable Integer squad, @NonNull RowType row)

Adds a unit with the given stats to the given row.

Private Attributes

final AppDatabase database

Defines the AppDatabase that is used as a data source by this repository.

5.63.1 Detailed Description

A facade class managing public access to the data layer.

The contained functions mostly redirect requests to package-private DAO methods in RowDao and UnitDao. Some functions implement slightly more complex behavior by chaining multiple DAO calls, e.g., #reset(). Definition at line 25 of file UnitRepository.java.

5.63.2 Constructor & Destructor Documentation

5.63.2.1 UnitRepository()

```
UnitRepository (
          @NonNull AppDatabase database ) [private]
```

Constructor of a UnitRepository.

Depends on the given AppDatabase as a data source. Should only be called by #getRepository().

Parameters

database	AppDatabase that is injected for the repository.
adiababb	ripp Batabase that is injusted for the repository.

See also

#getRepository(AppDatabase)

Definition at line 41 of file UnitRepository.java.

References UnitRepository.database.

5.63.3 Member Function Documentation

5.63.3.1 clearWeather()

```
Completable clearWeather ( )
```

Sets RowEntity::weather to false for all attack rows.

Returns

A Completable tracking operation status.

Definition at line 208 of file UnitRepository.java.

References RowDao.clearWeather(), UnitRepository.database, and AppDatabase.rows().

5.63.3.2 copy()

```
Completable copy ( int id)
```

Copies the unit with the given id.

Parameters

id Integer representing the unit that should be copied.

Returns

A Completable tracking operation status.

Definition at line 277 of file UnitRepository.java.

References UnitRepository.getUnit(), and UnitRepository.insertUnit().

5.63.3.3 countUnits() [1/2]

```
Single< Integer > countUnits ( )
```

Counts the units in all attack rows.

Returns

A Single tracking operation status and returning the value.

See also

#countUnits(RowType)

Definition at line 302 of file UnitRepository.java.

References UnitDao.countUnits(), UnitRepository.database, and AppDatabase.units().

5.63.3.4 countUnits() [2/2]

```
Single< Integer > countUnits (
     @NonNull RowType row )
```

Counts the units in the given attack row.

Parameters

row RowEntity::id where the units are counted.

Returns

A Single tracking operation status and returning the value.

See also

#countUnits()

Definition at line 291 of file UnitRepository.java.

References UnitDao.countUnits(), UnitRepository.database, and AppDatabase.units().

5.63.3.5 delete() [1/2]

```
Completable delete ( {\tt @NonNull~Collection} < {\tt UnitEntity} \, > \, units \, )
```

Removes the given units from the game.

Parameters

```
units List of units to be removed.
```

Returns

A Completable tracking operation status.

Definition at line 256 of file UnitRepository.java.

References UnitRepository.database, UnitDao.deleteUnits(), and AppDatabase.units().

5.63.3.6 delete() [2/2]

```
Completable delete ( int id )
```

Removes the unit with the given id from the game.

Parameters

id Integer representing the unit that should be deleted.

Returns

A Completable tracking operation status.

Definition at line 267 of file UnitRepository.java.

References UnitRepository.database, UnitDao.deleteUnit(), and AppDatabase.units().

5.63.3.7 getRepository()

```
static Single< UnitRepository > getRepository (
     @NonNull AppDatabase database ) [static]
```

Factory method for the UnitRepository class.

Creates a new UnitRepository managing the given AppDatabase. Also initializes one RowEntity per RowType using #initializeRows().

See also

#initializeRows()

Parameters

database	AppDatabase managed and initialized by the returned UnitRepository.
----------	---

Returns

A Single emitting the created UnitRepository when initialization is finished.

Definition at line 54 of file UnitRepository.java.

References UnitRepository.database, and UnitRepository.initializeRows().

5.63.3.8 getUnit()

Returns the unit with the given id.

Parameters

id Integer representing the queried unit.

Returns

A Single tracking operation status and returning the value.

Definition at line 313 of file UnitRepository.java.

References UnitRepository.database, UnitDao.getUnit(), and AppDatabase.units(). Referenced by UnitRepository.copy().

5.63.3.9 getUnits() [1/2]

```
Single< List< UnitEntity > > getUnits ()
```

Returns the units in the given attack row.

Returns

A Single tracking operation status and returning the value.

See also

#getUnits(RowType)

Definition at line 361 of file UnitRepository.java.

References UnitRepository.database, UnitDao.getUnits(), and AppDatabase.units().

5.63.3.10 getUnits() [2/2]

```
Single< List< UnitEntity > > getUnits (
     @NonNull RowType row )
```

Returns the units in the given attack row.

See also

#getUnitsFlowable(RowType)

Parameters

row RowEntity::id where the units have been placed.

Returns

A Single tracking operation status and returning the value.

See also

```
#getUnits()
```

Definition at line 325 of file UnitRepository.java.

References UnitRepository.database, UnitDao.getUnits(), and AppDatabase.units().

5.63.3.11 getUnitsFlowable()

Returns a Flowable emitting the units in the given attack row.

Parameters

```
row RowEntity::id where the units have been placed.
```

Returns

A Flowable emitting the values.

See also

```
#getUnits(RowType)
#getUnits()
```

Definition at line 338 of file UnitRepository.java.

References UnitRepository.database, UnitEntity.getId(), UnitDao.getUnitsFlowable(), and AppDatabase.units().

5.63.3.12 hasNonEpicUnitsFlowable()

```
Flowable< Boolean > hasNonEpicUnitsFlowable ( )
```

Returns a Flowable emitting Boolean values defining whether there are units in the game that are not epic.

Returns

A Flowable emitting the values.

Definition at line 370 of file UnitRepository.java.

References UnitRepository.database, UnitDao.hasNonEpicUnitsFlowable(), and AppDatabase.units().

5.63.3.13 initializeRows()

```
Completable initializeRows ( ) [private]
```

Adds one attack row for each RowType.

If an attack row already exists, it is not inserted again.

Returns

A Completable tracking operation status.

Definition at line 69 of file UnitRepository.java.

References UnitRepository.database, RowDao.insertRow(), and AppDatabase.rows().

Referenced by UnitRepository.getRepository(), and UnitRepository.reset().

5.63.3.14 insertUnit() [1/2]

Adds a unit with the given stats to the given row.

Parameters

epic	Boolean representing whether card is #epic.
damage	Non-negative value representing the #damage of the card.
ability	Ability representing the #ability of the card.
squad Integer representing the #squad of a card that has the Ability::BINDING #al	
row	RowType representing the combat type of the card.

Returns

A Completable tracking operation status.

Exceptions

IllegalArgumentException	When damage is less than zero or if ability is Ability::BINDING and squad is null or
	less than zero or if ability is not Ability::BINDING and squad is not null.

Definition at line 119 of file UnitRepository.java.

References Ability.BINDING, UnitRepository.database, UnitEntity.EPIC_DAMAGE_VALUES, UnitDao.insertUnit(), UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND, and AppDatabase.units(). Referenced by UnitRepository.copy(), and UnitRepository.insertUnit().

5.63.3.15 insertUnit() [2/2]

Adds a number of units with the given stats to the given row.

Essentially calls #insertUnit(boolean, int, Ability, Integer, RowType) multiple times.

Parameters

epic	Boolean representing whether card is #epic.
damage	Non-negative value representing the #damage of the card.
ability	Ability representing the #ability of the card.
squad	Integer representing the #squad of a card that has the Ability::BINDING #ability.
row RowType representing the combat type of the card.	
number	Integer representing the number of units to be added.

Returns

A Completable tracking operation status.

See also

#insertUnit(boolean, int, Ability, Integer, RowType)

Exceptions

IllegalArgumentException

When damage is less than zero or if ability is Ability::BINDING and squad is null or less than zero or if ability is not Ability::BINDING and squad is not null.

Definition at line 153 of file UnitRepository.java. References UnitRepository.insertUnit().

5.63.3.16 isHorn()

```
Single< Boolean > isHorn (
     @NonNull RowType row )
```

Returns the value of RowEntity::horn for the given attack row.

See also

#isHornFlowable(RowType)

Parameters

row RowEntity::id where the horn status is queried.

Returns

A Single tracking operation status and returning the value.

Definition at line 229 of file UnitRepository.java.

References UnitRepository.database, RowDao.isHorn(), and AppDatabase.rows().

5.63.3.17 isHornFlowable()

```
Flowable< Boolean > isHornFlowable (
          @NonNull RowType row )
```

Returns a Flowable emitting the values of RowEntity::horn for the given attack row.

Parameters

row RowEntity::id where the horn status is queried.

Returns

A Flowable emitting the values.

See also

#isHorn(RowType)

Definition at line 241 of file UnitRepository.java.

References UnitRepository.database, RowDao.isHornFlowable(), and AppDatabase.rows().

5.63.3.18 isWeather()

Returns the value of RowEntity::weather for the given attack row.

See also

#isWeatherFlowable(RowType)

Parameters

row RowEntity::id where the weather is queried.

Returns

A Single tracking operation status and returning the value.

Definition at line 181 of file UnitRepository.java.

References UnitRepository.database, RowDao.isWeather(), and AppDatabase.rows().

5.63.3.19 isWeatherFlowable()

Returns a Flowable emitting the latest value of RowEntity::weather for the given attack row.

Parameters

row RowEntity::id where the weather is queried.

Returns

A Flowable emitting the values.

See also

#isWeather(RowType)

Definition at line 193 of file UnitRepository.java.

References UnitRepository.database, RowDao.isWeatherFlowable(), and AppDatabase.rows().

5.63.3.20 reset() [1/2]

```
Completable reset ( )
```

Resets the board by removing all units and resetting row status.

Resetting row status is equivalent to removing the old rows and calling #initializeRows(). Method is a wrapper for #reset(UnitEntity).

Returns

A Completable tracking operation status.

See also

```
#reset(UnitEntity)
```

Definition at line 86 of file UnitRepository.java.

References UnitRepository.reset().

Referenced by UnitRepository.reset().

5.63.3.21 reset() [2/2]

```
Completable reset (
     @Nullable UnitEntity keptUnit )
```

Resets the board by removing all units but the given one and resetting row status.

Resetting row status is equivalent to removing the old rows and calling #initializeRows().

Parameters

keptUnit	UnitEntity that should be kept.	
----------	---------------------------------	--

Returns

A Completable tracking operation status.

See also

#initializeRows()

Definition at line 99 of file UnitRepository.java.

References RowDao.clearRows(), UnitRepository.database, UnitRepository.initializeRows(), UnitDao.insertUnit(), AppDatabase.rows(), and AppDatabase.units().

5.63.3.22 switchHorn()

```
Completable switchHorn (
    @NonNull RowType row )
```

Flips RowEntity::horn of the given attack row.

Parameters

row RowEntity::id where the horn status should be updated.

Returns

A Completable tracking operation status.

Definition at line 218 of file UnitRepository.java.

References UnitRepository.database, AppDatabase.rows(), and RowDao.updateHorn().

5.63.3.23 switchWeather()

Flips RowEntity::weather of the given attack row.

Parameters

row RowEntity::id where the weather should be updated.

Returns

A Completable tracking operation status.

Definition at line 170 of file UnitRepository.java.

References UnitRepository.database, AppDatabase.rows(), and RowDao.updateWeather().

5.63.4 Member Data Documentation

5.63.4.1 database

```
final AppDatabase database [private]
```

Defines the AppDatabase that is used as a data source by this repository.

Is provided by dependency injection in #UnitRepository().

Definition at line 31 of file UnitRepository.java.

Referenced by UnitRepository.UnitRepository(), UnitRepository.clearWeather(), UnitRepository.countUnits(), UnitRepository.countUnits(), UnitRepository.countUnits(), UnitRepository.delete(), UnitRepository.getRepository.getRepository(), UnitRepository.getUnit(), UnitRepository.getUnits(), UnitRepository.getUnits(), UnitRepository.getUnitsFlowable(), UnitRepository.initializeRows(), UnitReposito

The documentation for this class was generated from the following file:

• gwent/data/UnitRepository.java

5.64 ValuePicker < T extends Comparable Class Template Reference

A generic abstract wrapper class around NumberPicker used to select values of arbitrary types extending Comparable.

Collaboration diagram for ValuePicker< T extends Comparable:

ValuePicker< T extends Comparable

5.64.1 Detailed Description

A generic abstract wrapper class around NumberPicker used to select values of arbitrary types extending Comparable

Must be subclassed to provide the displayed String values using #getDisplayString(). The default case, which is implemented in StringValuePicker, is that displayIntegers maps the selectableValues to a String resource id.

See also

NumberPicker

StringValuePicker

Definition at line 29 of file ValuePicker.java.

The documentation for this class was generated from the following file:

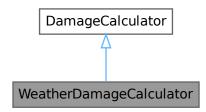
• gwent/ui/dialogs/addcard/ValuePicker.java

5.65 WeatherDamageCalculator Class Reference

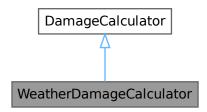
A DamageCalculator class responsible for calculating the weather debuff if necessary, i.e., if #weather is true.

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Inheritance diagram for WeatherDamageCalculator:



Collaboration diagram for WeatherDamageCalculator:



Public Member Functions

- int calculateDamage (int id, @IntRange(from=0) int damage)

 Calculates the (de-)buffed damage of unit with the given id and the given base-damage.
- · Color isBuffed (int id)

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT.

Package Functions

• WeatherDamageCalculator (boolean weather)

Constructor of a WeatherDamageCalculator.

Private Attributes

· final boolean weather

Defines whether the weather debuff should be applied when calling #calculateDamage().

5.65.1 Detailed Description

A DamageCalculator class responsible for calculating the weather debuff if necessary, i.e., if #weather is true. Acts as the ConcreteComponent in the implemented decorator pattern and is therefore always at the end of the decorator chain.

Definition at line 14 of file WeatherDamageCalculator.java.

5.65.2 Constructor & Destructor Documentation

5.65.2.1 WeatherDamageCalculator()

```
WeatherDamageCalculator (
                boolean weather ) [package]
```

Constructor of a WeatherDamageCalculator.

Should only be called by DamageCalculatorBuilder.

Parameters

weather	Boolean defining whether the weather debuff should be applied.
---------	--

See also

DamageCalculatorBuilder

Definition at line 27 of file WeatherDamageCalculator.java. References WeatherDamageCalculator.weather.

5.65.3 Member Function Documentation

5.65.3.1 calculateDamage()

Calculates the (de-)buffed damage of unit with the given id and the given base-damage.

Returns the given damage if #weather is false or 1.

Parameters

i	id	Integer representing the UnitEntity::id of the unit whose (de-)buff damage is calculated.	
(lamage Integer representing the base-damage of the unit whose (de-)buff damage is calculate		

Returns

Integer representing the (de-)buffed damage of the unit.

Exceptions

IllegalArgumentException	When damage is negative.
--------------------------	--------------------------

Implements DamageCalculator.

Definition at line 41 of file WeatherDamageCalculator.java.

 $References\ Weather Damage Calculator. we ather.$

5.65.3.2 isBuffed()

```
Color isBuffed (
          int id )
```

Calculates whether the unit with the given id is shown as Color::BUFFED, Color::DEBUFFED, or Color::DEFAULT. Returns Color::DEBUFFED if #weather is true or else Color::DEFAULT.

Parameters

id Integer representing the UnitEntity::id of the unit buff status is calculated.

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Returns

Color representing whether the unit is buffed, de-buffed or not affected.

See also

Color

Implements DamageCalculator.

Definition at line 61 of file WeatherDamageCalculator.java.

References WeatherDamageCalculator.weather.

5.65.4 Member Data Documentation

5.65.4.1 weather

final boolean weather [private]

Defines whether the weather debuff should be applied when calling #calculateDamage().

Definition at line 18 of file WeatherDamageCalculator.java.

Referenced by WeatherDamageCalculator.WeatherDamageCalculator(), WeatherDamageCalculator.calculateDamage(), and WeatherDamageCalculator.isBuffed().

The documentation for this class was generated from the following file:

• gwent/domain/damage/WeatherDamageCalculator.java

Chapter 6

File Documentation

6.1 /home/runner/work/Gwent/Gwent/app/src/main/AndroidManifest.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <manifest xmlns:android="http://schemas.android.com/apk/res/android" 00003 xmlns:tools="http://schemas.android.com/tools">
00004
           <uses-permission</pre>
00006
              android:name="com.google.android.gms.permission.AD_ID"
00007
              tools:node="remove" />
80000
          <application
             android:name=".GwentApplication"
00009
00010
               android:appCategory="game'
00011
               android:description="@string/app_description"
00012
              android:icon="@mipmap/icon_launcher"
00013
               android:label="@string/app_name"
00014
               android:resizeableActivity="false"
              android:roundIcon="@mipmap/icon_launcher_round"
00015
               android:supportsRtl="true"
00016
              android:theme="@style/ScoiataelTheme"
00018
              tools:targetApi="o">
00019
               <activity android:name=".ui.introduction.IntroductionActivity" />
00020
              <activity
                android:name=".ui.main.MainActivity"
android:exported="true"
00021
00022
                  android:screenOrientation="userLandscape">
<intent-filter>
00023
00024
00025
                        <action android:name="android.intent.action.MAIN" />
00026
                        <category android:name="android.intent.category.LAUNCHER" />
                   </intent-filter>
00027
             </activity>
00028
00029
               android:name=".ui.settings.SettingsActivity"
android:exported="true"
00030
00031
00032
                   android:label="@string/settings_title">
00033
                  <intent-filter>
00034
                       <action android:name="android.intent.action.APPLICATION_PREFERENCES" />
00035
                   </intent-filter>
              </activity>
00037
               <activity
                   android:name=".ui.settings.RuleActivity"
android:label="@string/preference_rules_header" />
00038
00039
00040
          </application>
00041 </manifest>
```

6.2 Ability.java

```
00001 package com.peternaggschga.gwent.data;
00006 public enum Ability {
00010
          NONE,
00011
00015
          HORN.
00016
          REVENGE,
00021
00025
          BINDING,
00026
          MORAL BOOST
00030
00031 }
```

6.3 AppDatabase.java

```
00001 package com.peternaggschga.gwent.data;
00002
00003 import androidx.room.Database;
00004 import androidx.room.RoomDatabase;
00005
00010 @Database(entities = {UnitEntity.class, RowEntity.class}, version = 1)
00011 public abstract class AppDatabase extends RoomDatabase {
00017    abstract UnitDao units();
00018
00024    abstract RowDao rows();
00025 }
```

6.4 RowDao.java

```
00001 package com.peternaggschga.gwent.data;
00002
00003 import androidx.annotation.NonNull;
00004 import androidx.room.Dao;
00005 import androidx.room.Insert:
00006 import androidx.room.OnConflictStrategy;
00007 import androidx.room.Query;
80000
00009 import io.reactivex.rxjava3.core.Completable;
00010 import io.reactivex.rxjava3.core.Flowable;
00011 import io.reactivex.rxjava3.core.Single;
00012
00017 @Dao
00018 @SuppressWarnings("NullableProblems")
00019 interface RowDao
          @Insert (onConflict = OnConflictStrategy.IGNORE)
00027
          Completable insertRow(@NonNull RowEntity row);
00028
00029
          @Query("DELETE FROM rows")
00036
          Completable clearRows();
00037
00044
          @Query("UPDATE rows SET weather = NOT weather WHERE id = :row")
00045
          Completable updateWeather(@NonNull RowType row);
00046
00052
          @Query("UPDATE rows SET weather = 0")
00053
          Completable clearWeather();
00054
00061
          @Ouery("UPDATE rows SET horn = NOT horn WHERE id = :row")
00062
          Completable updateHorn(@NonNull RowType row);
00063
00070
          @Query("SELECT weather FROM rows WHERE id = :row")
00071
          Single < Boolean > is Weather (@NonNull RowType row);
00072
00080
          @Query("SELECT weather FROM rows WHERE id = :row")
00081
          Flowable < Boolean > is Weather Flowable (@NonNull RowType row);
00082
00089
          @Ouery("SELECT horn FROM rows WHERE id = :row")
          Single < Boolean > is Horn (@NonNull RowType row);
00091
00099
          @Query("SELECT horn FROM rows WHERE id = :row")
00100
          Flowable < Boolean > is HornFlowable (@NonNull RowType row);
00101 }
```

6.5 RowEntity.java

```
00001 package com.peternaggschga.gwent.data;
00003 import androidx.annotation.NonNull;
00004 import androidx.room.ColumnInfo;
00005 import androidx.room.Entity;
00006 import androidx.room.PrimaryKey;
00007
00012 @Entity(tableName = "rows")
00013 @SuppressWarnings("unused")
00014 class RowEntity
00020
          @PrimaryKey
00021
          @NonNull
00022
         private final RowType id;
00023
00029
          @ColumnInfo(defaultValue = "false")
00030
00031
          @ColumnInfo(defaultValue = "false")
00037
00038
         private boolean horn;
00039
         RowEntity(@NonNull RowType id) {
```

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```
00048
              this.id = id;
00049
00050
00057
          @NonNulll
          RowType getId() {
00058
00059
              return id:
00061
00068
          boolean isWeather() {
             return weather;
00069
00070
00071
          void setWeather(boolean weather) {
00079
             this.weather = weather;
08000
00081
          boolean isHorn() {
00088
00089
             return horn;
00090
00091
00098
          void setHorn(boolean horn) {
00099
              this.horn = horn;
00100
00101 }
```

6.6 RowType.java

6.7 UnitDao.java

```
00001 package com.peternaggschga.gwent.data;
00002
00003 import androidx.annotation.IntRange;
00004 import androidx.annotation.NonNull; 00005 import androidx.annotation.Nullable;
00006 import androidx.room.Dao;
00007 import androidx.room.Delete;
00008 import androidx.room.Insert;
00009 import androidx.room.OnConflictStrategy;
00010 import androidx.room.Query;
00011
00012 import java.util.Collection;
00013 import java.util.List;
00014
00015 import io.reactivex.rxjava3.core.Completable;
00016 import io.reactivex.rxjava3.core.Flowable;
00017 import io.reactivex.rxjava3.core.Single;
00018
00024 @SuppressWarnings("NullableProblems")
00025 interface UnitDao {
          @Insert(onConflict = OnConflictStrategy.IGNORE)
00033
          Completable insertUnit(@NonNull UnitEntity unit);
00034
00035
          @Query("INSERT INTO units (epic, damage, ability, squad, `row`) VALUES (:epic, :damage, :ability,
      :squad, :row)")
00048
          Completable insertUnit(boolean epic, @IntRange(from = 0, to =
      UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int damage, @NonNull Ability ability, @IntRange(from =
      1) @Nullable Integer squad, @NonNull RowType row);
00049
00055
          @Query("DELETE FROM units WHERE `id` = :id")
00056
          Completable deleteUnit(int id);
00057
00064
00065
          Completable deleteUnits(@NonNull Collection<UnitEntity> units);
00066
00072
          @Query("SELECT * FROM units WHERE `id` = :id")
          Single<UnitEntity> getUnit(int id);
00074
00081
          @Query("SELECT * FROM units WHERE `row` = :row")
00082
          Single<List<UnitEntity> getUnits(@NonNull RowType row);
00083
          @Query("SELECT * FROM units WHERE `row` = :row")
00091
```

```
Flowable < List < Unit Entity » get Units Flowable (@NonNull RowType row);
00093
00098
          @Query("SELECT * FROM units")
00099
          Single<List<UnitEntity> getUnits();
00100
          @Query("SELECT COUNT(*) FROM units WHERE `row` = :row")
00106
          Single<Integer> countUnits(@NonNull RowType row);
00108
00114
          @Query("SELECT COUNT(*) FROM units")
00115
          Single<Integer> countUnits();
00116
          @Query("SELECT COUNT(*) > 0 FROM units WHERE epic = 0")
00122
          Flowable < Boolean > has Non Epic Units Flowable ();
00124 }
```

6.8 UnitEntity.java

```
00001 package com.peternaggschga.gwent.data;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color;
00004 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.DEFAULT;
00006 import android.content.Context;
00007
00008 import androidx.annotation.IntRange;
00009 import androidx.annotation.NonNull;
00010 import androidx.annotation.Nullable;
00011 import androidx.room.ColumnInfo;
00012 import androidx.room.Entity;
00013 import androidx.room.ForeignKey;
00014 import androidx.room.PrimaryKey;
00015
00016 import com.peternaggschga.gwent.R;
00017 import com.peternaggschga.gwent.domain.damage.DamageCalculator;
00019 import java.util.ArrayList;
00020 import java.util.Collection;
00021 import java.util.HashMap;
00022 import java.util.Iterator;
00023 import java.util.List;
00024 import java.util.Map;
00025
parentColumns = "id",
childColumns = "row",
00032
00033
                      onDelete = ForeignKey.CASCADE) })
00035 @SuppressWarnings("unused")
00036 public class UnitEntity {
00041
         @PrimaryKey(autoGenerate = true)
00042
          private int id;
00043
00048
          @ColumnInfo(defaultValue = "false")
00049
          private boolean epic;
00050
00055
          private int damage;
00056
00060
          @NonNull
00061
          public static final Integer[] EPIC_DAMAGE_VALUES = new Integer[]{0, 7, 8, 10, 11, 15};
00062
00066
          public static final int NON_EPIC_DAMAGE_VALUES_UPPER_BOUND = 20;
00067
          @ColumnInfo(defaultValue = "NONE")
00073
00074
          @NonNull
00075
          private Ability ability;
00076
00081
          @ColumnInfo(defaultValue = "NULL")
00082
          @IntRange(from = 1)
00083
          @Nullable
00084
          private Integer squad;
00085
00090
          @ColumnInfo(index = true)
00091
00092
          private RowType row;
00093
     UnitEntity(boolean epic, @IntRange(from = 0) int damage, @NonNull Ability ability, @IntRange(from = 1) @Nullable Integer squad, @NonNull RowType row) {
00105
00106
              if (damage < 0)</pre>
                  throw new IllegalArgumentException("Damage must be greater or equal to 0 but is " + damage
00108
              if (ability != Ability.BINDING && squad != null) {
00109
                  throw new IllegalArqumentException ("Squad must be null or ability must be BINDING but
00110
     squad is " + squad + " and ability is " + ability + ".");
              }
```

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```
00112
                        if (ability == Ability.BINDING && (squad == null || squad < 1)) {</pre>
                                throw new IllegalArgumentException("Squad must not be null or less than one but squad is "
00113
          + squad + ".");
00114
00115
                        this.epic = epic;
                       this.damage = damage;
this.ability = ability;
this.squad = squad;
00116
00117
00118
00119
                       this.row = row;
00120
                 }
00121
                public int calculateDamage(@NonNull DamageCalculator calculator) {
00132
00133
                       return epic ? damage : calculator.calculateDamage(id, damage);
00134
00135
00146
                 @NonNull
                public Color isBuffed(@NonNull DamageCalculator calculator) {
00147
00148
                       return epic ? DEFAULT : calculator.isBuffed(id);
00149
00150
00165
                 @NonNull
00166
                 public static String collectionToString(@NonNull Context context, @NonNull Collection<UnitEntity>
         units) {
00167
                        if (units.isEmpty()) {
00168
                               throw new IllegalArgumentException ("Units collection must not be empty.");
00169
00170
00171
                        Map<String, Integer> descriptionStrings = new HashMap<>(units.size());
00172
                        for (UnitEntity unit : units) {
                              String description = unit.toString(context);
00173
00174
                              descriptionStrings.merge(description, 1, Integer::sum);
00175
00176
00177
                        List<String> descriptions = new ArrayList<>(descriptionStrings.size());
00178
                        if (descriptionStrings.size() < units.size()) {</pre>
00179
                              descriptionStrings.forEach((key, value) ->
                                            descriptions.add(context.getString(R.string.unit_toString_multiplicity, value,
00180
          key)));
00181
                       } else {
00182
                              descriptions.addAll(descriptionStrings.keySet());
00183
00184
                        Iterator<String> descriptionIterator = descriptions.iterator();
00185
                        String[] result = {descriptionIterator.next()};
00186
                        if (descriptionIterator.hasNext()) {
00187
00188
                               \verb|result[0]| = \verb|context.getString(R.string.unit_collection_toString_accumulation_word, toString_accumulation_word, toString_accumulation_wo
00189
                                                          descriptionIterator.next(),
00190
                                                          result[0])
00191
                                             .trim();
00192
00193
                        descriptionIterator.forEachRemaining(description ->
00194
                                      result[0] = context.getString(R.string.unit_collection_toString_accumulation_symbol,
00195
                                                                 description,
00196
                                                                 result[0])
00197
                                                    .trim());
00198
                        return result[0];
00199
                }
00200
00209
                 @NonNull
00210
                 public String toString(@NonNull Context context) {
00211
                        String row;
                        switch (getRow()) {
00212
00213
                              case RANGE:
00214
                                   row = context.getString(R.string.unit_toString_range);
00215
                                     break:
00216
                              case SIEGE:
00217
                                    row = context.getString(R.string.unit_toString_siege);
00218
                                     break:
00219
                              case MELEE:
00220
                              default:
00221
                                     row = context.getString(R.string.unit_toString_melee);
00222
00223
                       String epic = isEpic() ? context.getString(R.string.unit_toString_epic) :
         context.getString(R.string.unit_toString_unit);
00224
                        String ability;
String squad = "";
00225
00226
                        switch (getAbility()) {
00227
                             case HORN:
00228
                                      ability = context.getString(R.string.add_picker_ability_horn);
00229
                                     break:
00230
                              case BINDING:
00231
                                     ability = context.getString(R.string.add_picker_ability_binding);
00232
                                      squad = context.getString(R.string.unit_toString_squad, getSquad());
00233
                                      break;
00234
                              case MORAL_BOOST:
00235
                                     ability = context.getString(R.string.add_picker_ability_moralBoost);
00236
                                      break:
```

```
case REVENGE:
00238
                      ability = context.getString(R.string.add_picker_ability_revenge);
00239
                       break:
00240
                   case NONE:
00241
                   default:
00242
                       ability = context.getString(R.string.unit_toString_ability_none);
00244
               return context.getString(R.string.unit_toString, row, epic, getDamage(), ability,
     squad).trim();
00245
00246
00252
          public int getId() {
             return id;
00253
00254
00255
00262
          this.id = id;
          void setId(int id) {
00263
00264
00265
00271
          public boolean isEpic() {
00272
            return epic;
00273
00274
          void setEpic(boolean epic) {
00281
00282
              this.epic = epic;
00284
00291
          public int getDamage() {
          return damage;
00292
00293
00294
00302
          void setDamage(@IntRange(from = 0) int damage) {
00303
             if (damage < 0) {</pre>
00304
                   throw new IllegalArgumentException("Damage must not be less than zero but is " + damage +
00305
00306
              this.damage = damage;
00308
00314
          @NonNull
00315
          public Ability getAbility() {
             return ability;
00316
00317
00318
00325
          void setAbility(@NonNull Ability ability) {
00326
              this.ability = ability;
00327
00328
          @Nullable
00334
00335
          public Integer getSquad() {
          return squad;
00336
00337
00338
         void setSquad(@IntRange(from = 1) @Nullable Integer squad) {
   if (ability != Ability.BINDING && squad != null) {
00346
00347
     throw new IllegalArgumentException("Squad must be null or ability must be BINDING but squad is " + squad + " and ability is " + ability + ".");
00348
00349
00350
              if (ability == Ability.BINDING && (squad == null || squad < 1)) {</pre>
00351
                   throw new IllegalArgumentException("Squad must not be null or less than one but squad is "
      + squad + ".");
00352
00353
              this.squad = squad;
00354
00355
00361
          @NonNull
          public RowType getRow() {
00362
             return row;
00363
00364
00365
00372
          void setRow(@NonNull RowType row) {
00373
              this.row = row;
00374
00375 }
```

6.9 UnitRepository.java

```
00001 package com.peternaggschga.gwent.data;
00002
00003 import androidx.annotation.IntRange;
00004 import androidx.annotation.NonNull;
00005 import androidx.annotation.Nullable;
00006
00007 import java.util.Arrays;
00008 import java.util.Collection;
```

```
00009 import java.util.Iterator;
00010 import java.util.List;
00011 import java.util.concurrent.TimeUnit;
00012
00013 import io.reactivex.rxjava3.android.schedulers.AndroidSchedulers;
00014 import io.reactivex.rxjava3.core.Completable;
00015 import io.reactivex.rxjava3.core.Flowable;
00016 import io.reactivex.rxjava3.core.Single;
00017 import io.reactivex.rxjava3.schedulers.Schedulers;
00018
00025 public class UnitRepository {
00030
         @NonNull
00031
          private final AppDatabase database;
00032
00041
          private UnitRepository(@NonNull AppDatabase database) {
00042
            this.database = database;
          }
00043
00044
00053
          @NonNull
00054
          public static Single<UnitRepository> getRepository(@NonNull AppDatabase database) {
00055
              UnitRepository repository = new UnitRepository(database);
00056
              return repository.initializeRows()
00057
                     .andThen(Single.just(repository))
00058
                      .subscribeOn(Schedulers.io())
00059
                      .observeOn(AndroidSchedulers.mainThread());
00060
          }
00061
00068
          @NonNull1
00069
          private Completable initializeRows() {
              Completable result = Completable.complete();
for (RowType row : RowType.values()) {
00070
00071
00072
                 result = result.andThen(database.rows().insertRow(new RowEntity(row)));
00073
00074
              return result;
00075
          }
00076
00085
          @NonNull
          public Completable reset() {
00087
             return reset(null);
00088
00089
00098
          @NonNulll
          public Completable reset(@Nullable UnitEntity keptUnit) {
00099
00100
              Completable result = database.rows().clearRows().andThen(initializeRows());
              if (keptUnit != null) {
00101
00102
                  result = result.andThen(database.units().insertUnit(keptUnit));
00103
00104
              return result.subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00105
          }
00106
00118
          @NonNull
          private Completable insertUnit(boolean epic, @IntRange(from = 0, to =
00119
     UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) int damage, @NonNull Ability ability,
00120
                                         @IntRange(from = 1) @Nullable Integer squad, @NonNull RowType row)
              if (damage < 0 || damage > UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) {
00121
                  throw new IllegalArgumentException("Damage be between 0 and "
      UnitEntity NON_EPIC_DAMAGE_VALUES_UPPER_BOUND + " but is " + damage + ".");
00123
00124
              if (epic && Arrays.stream(UnitEntity.EPIC_DAMAGE_VALUES).noneMatch(integer -> integer ==
      damage)) {
                 throw new IllegalArgumentException("Damage of epic units must be in " +
00125
     Arrays.toString(UnitEntity.EPIC_DAMAGE_VALUES) + " but is "
                                                                  + damage +
00126
00127
              if (ability != Ability.BINDING && squad != null) {
     throw new IllegalArgumentException("Squad must be null or ability must be BINDING but
squad is " + squad + " and ability is " + ability + ".");
00128
            }
00129
00130
              if (ability == Ability.BINDING && (squad == null || squad < 1)) {
00131
                  throw new IllegalArgumentException("Squad must not be null or less than one but squad is "
      + squad + ".");
00132
00133
              return database.units().insertUnit(epic, damage, ability, squad, row)
00134
                      .subscribeOn(Schedulers.io())
00135
                      .observeOn(AndroidSchedulers.mainThread());
00136
          }
00137
00152
          @NonNull
     00153
00154
                                        @IntRange(from = 0) int number) {
00155
00156
              Completable result = Completable.complete();
00157
              for (int i = 0; i < number; i++) {</pre>
00158
                 result = result.andThen(insertUnit(epic, damage, ability, squad, row));
00159
00160
              return result.subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
```

```
00161
          }
00162
00169
          @NonNull
00170
          public Completable switchWeather(@NonNull RowType row) {
00171
      database.rows().updateWeather(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00172
         }
00173
00180
          @NonNull
00181
          public Single<Boolean> isWeather(@NonNull RowType row) {
00182
              return
     database.rows().isWeather(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00183
         }
00184
00192
          @NonNull
00193
          public Flowable<Boolean> isWeatherFlowable(@NonNull RowType row) {
00194
              return database.rows()
00195
                      .isWeatherFlowable(row)
00196
                      .onBackpressureLatest()
00197
                      .distinctUntilChanged()
00198
                      .subscribeOn(Schedulers.io())
00199
                      .observeOn(AndroidSchedulers.mainThread());
00200
          }
00201
00207
          @NonNull
          public Completable clearWeather() {
00209
      database.rows().clearWeather().subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00210
          }
00211
00217
          @NonNull
          public Completable switchHorn(@NonNull RowType row) {
00219
      database.rows().updateHorn(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00220
00221
00228
          @NonNull
          public Single<Boolean> isHorn(@NonNull RowType row) {
00230
      database.rows().isHorn(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00231
         }
00232
00240
          @NonNull1
00241
          public Flowable<Boolean> isHornFlowable(@NonNull RowType row) {
00242
             return database.rows()
00243
                      .isHornFlowable(row)
00244
                       .onBackpressureLatest()
00245
                      .distinctUntilChanged()
00246
                      .subscribeOn(Schedulers.io())
00247
                      .observeOn(AndroidSchedulers.mainThread());
00248
          }
00249
00255
          @NonNull1
00256
          public Completable delete(@NonNull Collection<UnitEntity> units) {
00257
      database.units().deleteUnits(units).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00258
00259
00266
          @NonNull
00267
          public Completable delete(int id) {
00268
              returi
      database.units().deleteUnit(id).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00269
00270
00276
          @NonNull
00277
          public Completable copy(int id) {
00278
             return getUnit(id).flatMapCompletable(unit ->
00279
                              insertUnit(unit.isEpic(), unit.getDamage(), unit.getAbility(),
     unit.getSquad(), unit.getRow()))
00280
                      .subscribeOn(Schedulers.io())
00281
                      .observeOn(AndroidSchedulers.mainThread());
00282
          }
00283
00290
          @NonNull
00291
          public Single<Integer> countUnits(@NonNull RowType row) {
      database.units().countUnits(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00293
00294
00301
          @NonNull1
00302
          public Single<Integer> countUnits() {
00303
      database.units().countUnits().subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00304
00305
00312
          @NonNull1
          public Single<UnitEntity> getUnit(int id) {
00313
```

```
00314
      {\tt database.units().getUnit(id).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());}
00315
00316
00324
          @NonNull1
00325
          public Single<List<UnitEntity> getUnits(@NonNull RowType row) {
00326
              return
     database.units().getUnits(row).subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00327
00328
          @NonNull
00337
00338
          public Flowable<List<UnitEntity> getUnitsFlowable(@NonNull RowType row) {
00339
              return database.units()
00340
                       .getUnitsFlowable(row)
00341
                       .onBackpressureLatest()
                       .debounce(10, TimeUnit.MILLISECONDS)
.distinctUntilChanged((list1, list2) -> {
00342
00343
00344
                           if (list1.size() != list2.size()) {
00345
                               return false;
00346
00347
                           Iterator<UnitEntity> list1Iterator = list1.iterator();
00348
                           return list2.stream().map(UnitEntity::getId).allMatch(id ->
      id.equals(list1Iterator.next().getId()));
00349
                       })
00350
                       .subscribeOn(Schedulers.io())
00351
                       .observeOn(AndroidSchedulers.mainThread());
00352
00353
00360
          @NonNull
00361
          public Single<List<UnitEntity> getUnits() {
00362
              return
     database.units().getUnits().subscribeOn(Schedulers.io()).observeOn(AndroidSchedulers.mainThread());
00363
00364
00369
          @NonNull
          public Flowable<Boolean> hasNonEpicUnitsFlowable() {
00370
00371
              return database.units()
                      .hasNonEpicUnitsFlowable()
00373
                       .onBackpressureLatest()
00374
                       .debounce(10, TimeUnit.MILLISECONDS)
00375
                       .distinctUntilChanged()
00376
                       .subscribeOn(Schedulers.io())
00377
                       .observeOn(AndroidSchedulers.mainThread());
00378
          }
```

6.10 BurnDialogUseCase.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import android.content.Context;
00004
00005 import androidx.annotation.NonNull;
00006 import androidx.appcompat.app.AlertDialog;
00007
00008 import com.peternaggschga.gwent.GwentApplication;
00009 import com.peternaggschga.gwent.R;
00010 import com.peternaggschga.gwent.data.RowType;
00011 import com.peternaggschga.gwent.data.UnitEntity;
00012 import com.peternaggschga.gwent.data.UnitRepository;
00013 import com.peternaggschga.gwent.domain.damage.DamageCalculator;
00014 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00015
00016 import java.util.ArrayList;
00017 import java.util.Collection;
00018 import java.util.HashMap;
00019 import java.util.List;
00020 import java.util.Map;
00021 import java.util.Objects;
00022
00023 import io.reactivex.rxjava3.core.Single;
00024
00028 public class BurnDialogUseCase {
00036
         @NonNull
00037
          private static Single<List<UnitEntity» getBurnUnits(@NonNull UnitRepository repository) {</pre>
00038
              return repository.getUnits()
00039
                      .flatMap(units -> {
00040
                          if (units.isEmpty()) {
00041
                               return Single.just(units);
00042
00043
                          Single<Map<RowType, DamageCalculator» calculators = Single.just(new</pre>
00044
     HashMap<> (RowType.values().length));
00045
                          for (RowType row : RowType.values()) {
00046
                              calculators =
```

```
{\tt calculators.zipWith(DamageCalculatorUseCase.getDamageCalculator(repository, row), (calculatorMap, row), (
           damageCalculator) -> {
00047
                                                                   calculatorMap.put(row, damageCalculator);
00048
                                                                   return calculatorMap;
00049
                                                           });
00050
                                                   }
00052
                                                   return calculators.map(damageCalculators -> {
00053
                                                           List<UnitEntity> maxDamageUnits = new ArrayList<>(units.size());
00054
                                                           final int[] maxDamage = {0};
00055
                                                           units.stream()
00056
                                                                          .filter(unit -> !unit.isEpic())
00057
                                                                           .forEach(unit -> {
                                                                                  int damage =
           unit.calculateDamage(Objects.requireNonNull(damageCalculators.get(unit.getRow())));
00059
                                                                                  if (damage > maxDamage[0]) {
00060
                                                                                          maxDamage[0] = damage;
00061
                                                                                          maxDamageUnits.clear();
00062
                                                                                          maxDamageUnits.add(unit);
00063
                                                                                   } else if (damage == maxDamage[0]) {
00064
                                                                                          maxDamageUnits.add(unit);
00065
00066
                                                                           });
                                                           return maxDamageUnits;
00067
00068
                                                  });
00069
00070
00071
00084
                    @NonNull
                   public static Single<Boolean> burn(@NonNull Context context, @NonNull SoundManager soundManager) {
00085
                           return GwentApplication.getRepository(context).flatMap(repository -> burn(context, repository,
00086
           soundManager));
00087
00088
00100
                   @NonNull1
                   protected static Single < Boolean > burn (@NonNull Context context, @NonNull UnitRepository
00101
           repository, @NonNull SoundManager soundManager) {
00102
                           return getBurnUnits(repository).flatMap(units -> {
00103
                                   if (units.isEmpty()) {
00104
                                           return Single.just(false);
00105
00106
                                   return Single.create(emitter -> new AlertDialog.Builder(context)
                                                   .setIconAttribute(android.R.attr.alertDialogIcon)
00107
00108
                                                   .setTitle(R.string.alertDialog_burn_title)
                                                   .setMessage(context.getString(R.string.alertDialog_burn_msg,
           UnitEntity.collectionToString(context, units)))
00110
                                                   .setNegativeButton(R.string.alertDialog_burn_negative, (dialog, which) ->
           dialog.cancel())
00111
                                                   .setPositiveButton(R.string.alertDialog_burn_positive, (dialog, which) -> {
00112
                                                           // noinspection CheckResult, ResultOfMethodCallIgnored
                                                           RemoveUnitsUseCase.remove(context, repository, units,
00113
           soundManager).subscribe(() -> emitter.onSuccess(true));
00114
00115
                                                    .setCancelable(true)
00116
                                                   .setOnCancelListener(dialog -> emitter.onSuccess(false))
00117
                                                   .create()
00118
                                                   .show());
00119
                           });
00120
                   }
00121 }
```

6.11 DamageCalculatorUseCase.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import android.util.Pair;
00004
00005 import androidx.annotation.NonNull;
00006
00007 import com.peternaggschga.gwent.data.RowType;
00008 import com.peternaggschga.gwent.data.UnitEntity;
00009 import com.peternaggschga.gwent.data.UnitRepository;
00010 import com.peternaggschga.gwent.domain.damage.DamageCalculator;
00011 import com.peternaggschga.gwent.domain.damage.DamageCalculatorBuildDirector;
00012
00013 import java.util.Collection;
00014
00015 import io.reactivex.rxjava3.core.Single;
00016
00023 public class DamageCalculatorUseCase {
00031
          @NonNull
          public static Single<DamageCalculator> getDamageCalculator(@NonNull UnitRepository repository,
00032
      @NonNull RowType row) {
00033
             return repository.isWeather(row)
00034
                      .zipWith(repository.isHorn(row), Pair::create)
```

6.12 RemoveUnitsUseCase.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import android.app.Dialog;
00004 import android.content.Context;
00005
00006 import androidx.annotation.IntRange;
00007 import androidx.annotation.NonNull;
80000
00009 import com.peternaggschga.gwent.data.Ability;
00010 import com.peternaggschga.gwent.data.UnitEntity;
00011 import com.peternaggschga.gwent.data.UnitRepository;
00012 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00013
00014 import java.util.Collection;
00015 import java.util.Collections;
00016
00017 import io.reactivex.rxjava3.core.Completable;
00018 import io.reactivex.rxjava3.core.CompletableEmitter;
00019
00027 public class RemoveUnitsUseCase {
00042
         @NonNull
         public static Completable remove(@NonNull Context context, @NonNull UnitRepository repository,
                                           @NonNull Collection<UnitEntity> units, @NonNull SoundManager
00044
     soundManager) {
00045
             long revengeUnits = units.stream()
                     .filter(unit -> unit.getAbility() == Ability.REVENGE)
00046
00047
                      .count();
00048
              if (revengeUnits == 0) {
00049
                  return repository.delete(units);
00050
00051
              return Completable.create(emitter ->
00052
                      getRevengeDialog(context, repository, emitter, units, (int) revengeUnits,
     soundManager).show()
00053
             );
00054
00055
          public static Completable remove(@NonNull Context context, @NonNull UnitRepository repository, int
00068
     id, @NonNull SoundManager soundManager) {
00069
             return repository.getUnit(id)
00070
                      .flatMapCompletable(unitEntity ->
00071
                              remove(context, repository, Collections.singletonList(unitEntity),
      soundManager));
00072
00073
          @NonNull
00088
          private static Dialog getRevengeDialog(@NonNull Context context, @NonNull UnitRepository
00089
      repository,
00090
                                                 @NonNull CompletableEmitter emitter, @NonNull
      Collection<UnitEntity> units,
00091
                                                 @IntRange(from = 1) int revengeUnits, @NonNull SoundManager
      soundManager) {
00092
             return new RevengeAlertDialogBuilderAdapter(context)
00093
                      .setPositiveCallback((dialog, which) -> {
                         // noinspection CheckResult, ResultOfMethodCallIgnored
00094
00095
                          repository.delete(units)
                                  .andThen(RevengeAlertDialogBuilderAdapter.insertAvengers(repository,
00096
     revengeUnits, soundManager))
00097
                                  .subscribe(emitter::onComplete);
00098
00099
                      .setNegativeCallback(((dialog, which) ->
00100
                          // noinspection CheckResult, ResultOfMethodCallIgnored
00101
                          repository.delete(units).subscribe(emitter::onComplete);
00102
                      }))
                      .create();
00103
00104
          }
00105 }
```

6.13 ResetAlertDialogBuilderAdapter.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import android.content.Context;
00004 import android.view.View;
00005 import android.widget.CheckBox;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.appcompat.app.AlertDialog;
00009
00010 import com.peternaggschga.gwent.R;
00016 class ResetAlertDialogBuilderAdapter {
00020
          @NonNull
00021
          private final AlertDialog.Builder adapteeBuilder;
00022
00026
          @NonNull1
00027
          private final Callback dialogCallback;
00028
00036
          ResetAlertDialogBuilderAdapter(@NonNull Context context, @NonNull Callback dialogCallback) {
00037
              this.adapteeBuilder = new AlertDialog.Builder(context)
00038
                       . \verb|setIconAttribute| (and \verb|roid.R.attr.alertDialogIcon)| \\
00039
                       .setTitle(R.string.alertDialog_reset_title)
.setOnCancelListener(dialog -> dialogCallback.reset(false))
00040
00041
                       .setNegativeButton(R.string.alertDialog_reset_negative, (dialog, which) ->
      dialog.cancel());
00042
              this.dialogCallback = dialogCallback;
00043
00044
00051
          @NonNull
          AlertDialog create() {
00053
             return adapteeBuilder.create();
00054
00055
00063
          @NonNull
          ResetAlertDialogBuilderAdapter setTrigger(@NonNull ResetDialogUseCase.Trigger trigger) {
00064
00065
              adapteeBuilder.setMessage((trigger != ResetDialogUseCase.Trigger.FACTION_SWITCH) ?
                               R.string.alertDialog_reset_msg_default :
00066
00067
                               R.string.alertDialog_reset_msg_faction_switch)
00068
                       .setCancelable(trigger != ResetDialogUseCase.Trigger.FACTION_SWITCH);
00069
              return this;
00070
          }
00071
00080
          @NonNull
00081
          ResetAlertDialogBuilderAdapter setMonsterDialog(boolean monsterDialog) {
00082
             if (monsterDialog) {
                  View checkBoxView = View.inflate(adapteeBuilder.getContext(),
00083
      R.layout.alertdialog_checkbox, null);
00084
                  adapteeBuilder.setView(checkBoxView)
00085
                          .setPositiveButton(R.string.alertDialog_reset_positive, (dialog, which) -> {
                               CheckBox checkBox = checkBoxView.findViewById(R.id.alertDialog_checkbox);
00086
00087
                               dialogCallback.reset(true, checkBox.isChecked());
00088
00089
              } else {
00090
                  adapteeBuilder.setPositiveButton(R.string.alertDialog reset positive, ((dialog, which) ->
     dialogCallback.reset(true)));
00091
00092
              return this;
00093
          }
00094
00098
          interface Callback {
              void reset(boolean resetDecision, boolean keepUnit);
00108
00117
              default void reset(boolean resetDecision) {
00118
                  reset (resetDecision, false);
00119
00120
          }
00121 }
```

6.14 ResetDialogUseCase.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_MONSTER;
00004 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_PREFERENCE_KEY;
00005 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_SCOIATAEL;
00006
00007 import android.content.Context;
00008 import android.content.SharedPreferences;
00009 import android.widget.Toast;
00010
00011 import androidx.annotation.NonNull;
00012 import androidx.preference.PreferenceManager;
```

```
00013
00014 import com.peternaggschga.gwent.GwentApplication;
00015 import com.peternaggschga.gwent.R;
00016 import com.peternaggschga.gwent.data.RowType;
00017 import com.peternaggschga.gwent.data.UnitRepository;
00018 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00020 import java.util.Arrays;
00021 import java.util.stream.Collectors;
00022
00023 import io.reactivex.rxjava3.core.Single;
00024
00031 public class ResetDialogUseCase {
00046
          @NonNull
00047
          public static Single<Boolean> reset(@NonNull Context context, @NonNull Trigger trigger, @NonNull
      SoundManager soundManager) {
00048
              return GwentApplication.getRepository(context)
00049
                      .flatMap(repository -> reset(context, repository, trigger, soundManager));
00050
00051
00065
          @NonNull
00066
          protected static Single<Boolean> reset(@NonNull Context context, @NonNull UnitRepository
      repository,
00067
                                                 @NonNull Trigger trigger, @NonNull SoundManager
      soundManager) {
00068
           return getDialogType(context, repository, trigger).flatMap(dialogType -> {
00069
                  if (dialogType == DialogType.NONE)
00070
                      return ResetRepositoryUseCase.reset(context, repository,
      soundManager).andThen(Single.just(true));
00071
             }
                  return Single.create(emitter -> new ResetAlertDialogBuilderAdapter(context,
00072
      (resetDecision, keepUnit) -> {
00073
                      if (!resetDecision) {
00074
                          emitter.onSuccess(false);
00075
                          return:
00076
00077
                      // noinspection CheckResult, ResultOfMethodCallIgnored
                      ResetRepositoryUseCase.reset(context, repository, keepUnit, soundManager)
00078
00079
                              .doAfterTerminate(() -> emitter.onSuccess(true))
00080
                              .subscribe(unit ->
00081
                                      Toast.makeText(context,
00082
      context.getString(R.string.alertDialog_factionreset_monster_toast_keep, unit.toString(context)),
00083
                                                       Toast.LENGTH_LONG)
00084
                                               .show());
00085
                  }).setTrigger(trigger)
00086
                          .setMonsterDialog(dialogType == DialogType.MONSTER)
                          .create()
00087
00088
                          .show());
00089
              });
00090
          }
00091
00101
          @NonNull
00102
          private static Single<DialogType> getDialogType(@NonNull Context context, @NonNull UnitRepository
      repository,
00103
                                                           @NonNull Trigger trigger) {
00104
              return Single.concat(Arrays.stream(RowType.values()).map(row ->
00105
                              repository.isWeather(row)
00106
                                      .concatWith(repository.isHorn(row))
00107
                                       .any(state -> state)
00108
                      ).collect(Collectors.toList())).any(state -> state)
00109
                      .zipWith(repository.getUnits(), (statusEffects, units) -> {
00110
                          SharedPreferences preferences =
     PreferenceManager.getDefaultSharedPreferences(context);
00111
                          boolean monsterDialog = trigger != Trigger.FACTION_SWITCH;
00112
                          monsterDialog &= preferences.getInt(THEME_PREFERENCE_KEY, THEME_SCOIATAEL) ==
      THEME MONSTER;
00113
                          monsterDialog &= units.stream().anvMatch(unit -> !unit.isEpic());
00114
                          if (monsterDialog) {
00115
                              return DialogType.MONSTER;
00116
00117
                          boolean defaultWarning = statusEffects || !units.isEmpty();
00118
                          defaultWarning &=
     preferences.getBoolean(context.getString(R.string.preference_key_warning),
00119
                                  context.getResources().getBoolean(R.bool.warning preference default));
                          if (defaultWarning) {
00120
00121
                              return DialogType.DEFAULT;
00122
00123
                          return DialogType.NONE;
00124
                      }):
00125
          }
00126
          public enum Trigger {
00130
00134
             BUTTON CLICK
00140
              FACTION_SWITCH
00141
          }
00142
```

6.15 ResetRepositoryUseCase.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00002
00003 import android.app.Dialog;
00004 import android.content.Context;
00005
00006 import androidx.annotation.IntRange;
00007 import androidx.annotation.NonNull;
00008 import androidx.annotation.Nullable;
00009
00010 import com.peternaggschga.gwent.data.Ability;
00011 import com.peternaggschga.gwent.data.UnitEntity;
00012 import com.peternaggschga.gwent.data.UnitRepository;
00013 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00014
00015 import java.util.List;
00016 import java.util.Optional;
00017 import java.util.Random;
00018 import java.util.stream.Collectors;
00020 import io.reactivex.rxjava3.core.Completable;
00021 import io.reactivex.rxjava3.core.CompletableEmitter;
00022 import io.reactivex.rxjava3.core.Maybe;
00023
00031 class ResetRepositoryUseCase {
00045
         @NonNull
          static Maybe<UnitEntity> reset(@NonNull Context context, @NonNull UnitRepository repository,
00047
                                         boolean keepUnit, @NonNull SoundManager soundManager) {
00048
              return repository.getUnits()
00049
                      .flatMapMaybe(units -> {
                          Optional < Unit Entity > kept Unit = keep Unit ? getRandom Unit (units) :
00050
     Optional.empty();
00051
                          long revengeUnits = units.stream()
00052
                                  .filter(unit -> unit.getAbility() == Ability.REVENGE)
00053
                                   .count() - (keptUnit.isPresent() && keptUnit.get().getAbility() ==
      Ability.REVENGE ? 1 : 0);
00054
                          Completable resultAction = (revengeUnits == 0) ?
00055
                                  repository.reset(keptUnit.orElse(null)) :
00056
                                  Completable.create(emitter ->
00057
                                           getRevengeDialog(context, repository, emitter,
      keptUnit.orElse(null), (int) revengeUnits, soundManager).show()
00058
00059
                          return resultAction.andThen(Maybe.fromOptional(keptUnit));
00060
                      });
00061
          }
00062
00070
          @NonNull
00071
          private static Optional<UnitEntity> getRandomUnit(@NonNull List<UnitEntity> units) {
00072
             units = units.stream()
                      .filter(unit -> !unit.isEpic())
00073
                      .collect(Collectors.toList());
              return units.isEmpty() ? Optional.empty() : Optional.of(units.get(new
      Random().nextInt(units.size())));
00076
00077
00092
          @NonNull
          private static Dialog getRevengeDialog (@NonNull Context context, @NonNull UnitRepository
00093
      repository,
00094
                                                  @NonNull CompletableEmitter emitter, @Nullable UnitEntity
      keptUnit,
00095
                                                  @IntRange(from = 1) int revengeUnits, @NonNull SoundManager
      soundManager) {
00096
             return new RevengeAlertDialogBuilderAdapter(context)
00097
                      .setPositiveCallback((dialogInterface, which) ->
00098
                           // noinspection CheckResult, ResultOfMethodCallIgnored
00099
                          repository.reset(keptUnit)
                                   .andThen(RevengeAlertDialogBuilderAdapter.insertAvengers(repository,
00100
      revengeUnits, soundManager))
00101
                                  .subscribe(emitter::onComplete);
00102
00103
                      .setNegativeCallback(((dialog, which) -> {
00104
                           // noinspection CheckResult, ResultOfMethodCallIgnored
00105
                          repository.reset(keptUnit).subscribe(emitter::onComplete);
00106
                      }))
00107
                      .create();
00108
          }
00109
```

6.16 RevengeAlertDialogBuilderAdapter.java

```
00001 package com.peternaggschga.gwent.domain.cases;
00003 import android.content.Context;
00004 import android.content.DialogInterface;
00005
00006 import androidx.annotation.IntRange;
00007 import androidx.annotation.NonNull;
00008 import androidx.appcompat.app.AlertDialog;
00009
00010 import com.peternaggschga.gwent.R;
00011 import com.peternaggschga.gwent.data.Ability;
00012 import com.peternaggschga.gwent.data.RowType;
00013 import com.peternaggschga.gwent.data.UnitRepository;
00014 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00015
00016 import io.reactivex.rxjava3.core.Completable;
00017
00023 class RevengeAlertDialogBuilderAdapter {
00030
                         private static final boolean AVENGER_EPIC = false;
00031
00038
                         private static final Ability AVENGER_ABILITY = Ability.NONE;
00039
00046
                         private static final int AVENGER DAMAGE = 8;
00047
                         private static final Integer AVENGER SOUAD = null;
00054
00055
00062
                         private static final RowType AVENGER_ROW = RowType.MELEE;
00063
00067
                         @NonNull
                         private final AlertDialog.Builder adapteeBuilder;
00068
00069
00076
                         RevengeAlertDialogBuilderAdapter(@NonNull Context context) {
00077
                                   this.adapteeBuilder = new AlertDialog.Builder(context)
00078
                                                       .setIconAttribute(android.R.attr.alertDialogIcon)
00079
                                                        .setTitle(R.string.alertDialog_revenge_title)
00080
                                                        .setMessage(R.string.alertDialog_revenge_msg)
00081
                                                        .setCancelable(false)
00082
                                                        .setPositiveButton(R.string.alertDialog_revenge_positive, (dialog, which) ->
               dialog.cancel())
00083
                                                        .setNegativeButton(R.string.alertDialog_revenge_negative, (dialog, which) ->
               dialog.cancel());
00084
00085
00095
                         @NonNull
00096
                        public static Completable insertAvengers(@NonNull UnitRepository repository, @IntRange(from = 0)
               int numberOfAvengers, @NonNull SoundManager soundManager) {
                                   return repository.insertUnit(AVENGER_EPIC, AVENGER_DAMAGE, AVENGER_ABILITY, AVENGER_SQUAD,
00097
              AVENGER_ROW, numberOfAvengers)
00098
                                                        .doOnComplete(() -> soundManager.playCardAddSound(AVENGER_ROW, AVENGER_EPIC));
00099
00100
                         @NonNull
00108
                         AlertDialog create() {
00109
                                 return adapteeBuilder.create();
00110
00111
00120
                         @NonNull
                         Revenge Alert Dialog Builder Adapter\ set Positive Callback (@NonNull\ Dialog Interface. On Click Listener) and the property of the property
              onPositiveButtonClick) {
00122
                                   adapteeBuilder.setPositiveButton(R.string.alertDialog_revenge_positive,
              onPositiveButtonClick);
00123
                                  return this;
00124
00125
00132
                         @NonNull
                         Revenge Alert Dialog Builder Adapter\ set Negative Callback\ (@NonNull\ Dialog Interface. On Click Listener\ Callback\ (@NonNull\ Dialog Callback\ Dialog Cal
00133
               onNegativeButtonClick) {
00134
                                   adapteeBuilder.setNegativeButton(R.string.alertDialog_revenge_negative,
              onNegativeButtonClick);
00135
                                  return this;
00136
00137 }
```

6.17 BondDamageCalculatorDecorator.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.BUFFED;
00004
00005 import androidx.annotation.IntRange;
00006 import androidx.annotation.NonNull;
00007
00008 import java.util.Map;
00009 import java.util.Objects;
00010
00017 class BondDamageCalculatorDecorator extends DamageCalculatorDecorator {
00022
         private final Map<Integer, Integer> idToSquadSize;
00023
00035
          BondDamageCalculatorDecorator(@NonNull DamageCalculator component, @NonNull Map<Integer, Integer>
     idToSquadSize) {
00036
              super(component);
00037
              if (idToSquadSize.values().stream().anyMatch(integer -> integer == null || integer < 1)) {</pre>
                   throw new IllegalArgumentException("Map idToSquadSize must not contain non-positive or
     null values.");
00039
              this.idToSquadSize = idToSquadSize;
00040
00041
          }
00042
00053
          @Override
00054
          public int calculateDamage(int id, @IntRange(from = 0) int damage) {
00055
             if (damage < 0) {</pre>
00056
                  throw new IllegalArgumentException("Damage must be greater or equal to 0.");
00057
00058
              return Objects.requireNonNull(idToSquadSize.getOrDefault(id, 1)) *
     component.calculateDamage(id, damage);
00059
00060
00071
          @Override
          public Color isBuffed(int id) {
00072
             return (Objects.requireNonNull(idToSquadSize.getOrDefault(id, 0)) > 1)
00073
00074
                      ? BUFFED
00075
                      : component.isBuffed(id);
00076
00077 }
```

6.18 DamageCalculator.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import androidx.annotation.IntRange;
00004
00005 import java.util.Collection;
00006
00017 public interface DamageCalculator {
00030
         Color isBuffed(int id);
00031
          int calculateDamage(int id, @IntRange(from = 0) int damage);
00044
00049
         enum Color {
00053
             DEFAULT,
00057
              BUFFED.
00061
              DEBUFFED
          }
00063 }
```

6.19 DamageCalculatorBuildDirector.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import androidx.annotation.NonNull;
00004
00005 import com.peternaggschga.gwent.data.Ability;
00006 import com.peternaggschga.gwent.data.UnitEntity;
00007
00008 import java.util.Collection;
00009 import java.util.HashMap;
00010 import java.util.List;
00011 import java.util.Map;
00012 import java.util.Objects;
00013 import java.util.stream.Collectors;
00014
00021 public class DamageCalculatorBuildDirector {
00030
          @NonNull
          public static DamageCalculator getCalculator (boolean weather, boolean horn, @NonNull
00031
      Collection<UnitEntity> units) {
```

```
00032
              DamageCalculatorBuilder builder = new DamageCalculatorBuilder();
00033
              builder.setWeather(weather);
00034
00035
              if (units.stream().anyMatch(unit -> unit.getAbility() == Ability.BINDING)) {
00036
                  setSquads(units, builder);
00037
              }
00039
              if (units.stream().anyMatch(unit -> unit.getAbility() == Ability.MORAL_BOOST)) {
00040
                  setMoralBoosts(units, builder);
00041
00042
              if (horn || units.stream().anyMatch(unit -> unit.getAbility() == Ability.HORN)) {
00043
00044
                  setHorns(horn, units, builder);
00045
00046
00047
              return builder.getResult();
00048
00049
00061
          private static void setSquads (@NonNull Collection<UnitEntity> units, @NonNull
     DamageCalculatorBuilder builder)
00062
              List<UnitEntity> bindingUnits = units.stream().filter(unit -> unit.getAbility() ==
     Ability.BINDING).collect(Collectors.toList());
00063
              Map<Integer, Integer> squadToSquadSize = new HashMap<>();
for (UnitEntity unit : bindingUnits) {
00064
00065
                  squadToSquadSize.putIfAbsent(unit.getSquad(), 0);
00066
                  squadToSquadSize.put(unit.getSquad(),
      Objects.requireNonNull(squadToSquadSize.get(unit.getSquad())) + 1);
00067
00068
              Map<Integer, Integer> idToSquadSize = new HashMap<>();
00069
              for (UnitEntity unit : bindingUnits) {
00070
                  idToSquadSize.put(unit.getId(), squadToSquadSize.get(unit.getSquad()));
00071
00072
              builder.setBond(idToSquadSize);
00073
00074
          private static void setMoralBoosts(@NonNull Collection<UnitEntity> units, @NonNull
00085
     DamageCalculatorBuilder builder) {
00086
              List<Integer> unitIds = units.stream()
00087
                      .filter(unit -> unit.getAbility() == Ability.MORAL_BOOST)
00088
                      .map(UnitEntity::getId)
00089
                       .collect(Collectors.toList());
00090
              builder.setMoral(unitIds);
00091
         }
00092
00106
          private static void setHorns (boolean horn, @NonNull Collection < UnitEntity > units, @NonNull
     DamageCalculatorBuilder builder) {
00107
              List<Integer> unitIds = units.stream()
                      .filter(unit -> unit.getAbility() == Ability.HORN)
00108
00109
                       .map(UnitEntity::getId)
00110
                       .collect(Collectors.toList());
00111
              if (horn) {
00112
                  unitIds.add(null);
00113
00114
              builder.setHorn(unitIds);
          }
00115
00116 }
```

6.20 DamageCalculatorBuilder.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00003 import androidx.annotation.NonNull;
00004
00005 import java.util.List;
00006 import java.util.Map;
00007
00019 class DamageCalculatorBuilder {
00024
         @NonNull1
         private DamageCalculator calculator = new WeatherDamageCalculator(false);
00025
00026
00032
         void setWeather(boolean weather) {
00033
             calculator = new WeatherDamageCalculator(weather);
00034
00035
00041
          void setBond(@NonNull Map<Integer, Integer> idToSquad) {
00042
              calculator = new BondDamageCalculatorDecorator(calculator, idToSquad);
00043
00044
          void setMoral(@NonNull List<Integer> unitIds) {
00051
00052
              calculator = new MoralDamageCalculatorDecorator(calculator, unitIds);
00053
00054
00062
          void setHorn(@NonNull List<Integer> unitIds) {
00063
             calculator = new HornDamageCalculatorDecorator(calculator, unitIds);
```

```
00065

00071 @NonNull

00072 DamageCalculator getResult() {

00073 return calculator;

00074 }

00075 }
```

6.21 DamageCalculatorDecorator.java

6.22 HornDamageCalculatorDecorator.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.BUFFED;
00004
00005 import androidx.annotation.IntRange;
00006 import androidx.annotation.NonNull;
00007
00008 import java.util.List;
00009
00018 class HornDamageCalculatorDecorator extends DamageCalculatorDecorator {
00024
          private final List<Integer> unitIds;
00025
00038
          HornDamageCalculatorDecorator(@NonNull DamageCalculator component, @NonNull List<Integer> unitIds)
00039
              super (component):
00040
              this.unitIds = unitIds;
00041
00042
00049
          private boolean doubleDamage(int id) {
              return unitIds.contains(null) || !(unitIds.isEmpty() || unitIds.contains(id)) ||
00050
     unitIds.size() > 1;
00051
00052
00062
          @Override
00063
          public int calculateDamage(int id, @IntRange(from = 0) int damage) {
00064
             if (damage < 0) {
00065
                  throw new IllegalArgumentException("Damage must be greater or egual to 0 but is " + damage
      + ".");
00066
00067
              return (doubleDamage(id) ? 2 : 1) * component.calculateDamage(id, damage);
00068
          }
00069
00081
          @Override
00082
          public Color isBuffed(int id) {
             return doubleDamage(id) ? BUFFED : component.isBuffed(id);
00084
00085 }
```

6.23 MoralDamageCalculatorDecorator.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.BUFFED;
00004
00005 import androidx.annotation.IntRange;
00006 import androidx.annotation.NonNull;
00007
00008 import java.util.List;
00009
00017 class MoralDamageCalculatorDecorator extends DamageCalculatorDecorator {
00022
         private final List<Integer> unitIds;
00023
00036
          MoralDamageCalculatorDecorator(@NonNull DamageCalculator component, @NonNull List<Integer>
     unitIds) {
00037
              super(component);
00038
              if (unitIds.contains(null)) {
```

```
throw new IllegalArgumentException("List<Integer> unitIds must not contain null values.");
00040
00041
              this.unitIds = unitIds;
00042
          }
00043
00055
          @Override
          public int calculateDamage(int id, @IntRange(from = 0) int damage) {
00057
             if (damage < 0) {</pre>
00058
                  throw new IllegalArgumentException("Damage must be greater or equal to 0 but is " + damage
00059
              int componentDamage = component.calculateDamage(id, damage) + unitIds.size();
00060
00061
              return unitIds.contains(id) ? componentDamage - 1 : componentDamage;
00062
00063
00074
         @Override
          public Color isBuffed(int id) {
00075
00076
             return (!unitIds.isEmpty() && (!unitIds.contains(id) || (unitIds.size() > 1)))
                      ? BUFFED
00078
                      : component.isBuffed(id);
00079
00080 }
```

6.24 WeatherDamageCalculator.java

```
00001 package com.peternaggschga.gwent.domain.damage;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.DEBUFFED;
00004 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.DEFAULT;
00006 import androidx.annotation.IntRange;
00007
00014 class WeatherDamageCalculator implements DamageCalculator {
00018
         private final boolean weather;
00019
00027
          WeatherDamageCalculator(boolean weather) {
00028
            this.weather = weather;
00029
00030
00040
         @Override
         public int calculateDamage(int id, @IntRange(from = 0) int damage) {
00041
00042
             if (damage < 0)</pre>
                  throw new IllegalArgumentException("Damage must not be less than zero but is " + damage +
00043
00044
              if (damage == 0) {
00045
00046
                  return damage;
00048
              return weather ? 1 : damage;
00049
         }
00050
00060
         @Override
         public Color isBuffed(int id) {
00061
00062
             return weather ? DEBUFFED : DEFAULT;
00063
00064 }
```

6.25 GwentApplication.java

```
00001 package com.peternaggschga.gwent;
00002
00003 import android.app.Application;
00004 import android.content.Context;
00006 import androidx.annotation.NonNull;
00007 import androidx.room.Room;
00008
00009 import com.peternaggschga.gwent.data.AppDatabase;
{\tt 00010 \ import \ com.peternaggschga.gwent.data.UnitRepository;}
00011
00012 import io.reactivex.rxjava3.core.Single;
00013
00018 public class GwentApplication extends Application {
00025
         private static UnitRepository repository = null;
00032
          private AppDatabase database;
00033
          public static Single<UnitRepository> getRepository(@NonNull Context context) {
00042
             return ((GwentApplication) context.getApplicationContext()).getRepository();
00043
00044
00050
          @Override
          public void onCreate() {
00051
```

```
super.onCreate();
00053
              database = Room.databaseBuilder(this, AppDatabase.class, "database").build();
00054
00055
00062
          public Single<UnitRepository> getRepository() {
00063
              if (repository != null) {
                  return Single.just(repository);
00065
00066
              return UnitRepository.getRepository(database).doOnSuccess(unitRepository -> repository =
     unitRepository);
00067
00068 }
```

6.26 AddCardDialog.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003 import android.content.Context;
00004 import android.os.Bundle;
00005
00006 import androidx.annotation.NonNull;
00007 import androidx.annotation.Nullable;
00008
00009 import com.peternaggschga.gwent.GwentApplication;
00010 import com.peternaggschga.gwent.R;
00011 import com.peternaggschga.gwent.data.RowType;
00012 import com.peternaggschga.gwent.data.UnitRepository;
00013 import com.peternaggschga.gwent.ui.dialogs.OverlayDialog;
00014 import com.peternaggschga.gwent.ui.dialogs.cards.ShowUnitsDialog;
00015 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00016
00017 import io.reactivex.rxjava3.disposables.CompositeDisposable;
00018
00022 public class AddCardDialog extends OverlayDialog {
00026
          @NonNull
00027
          private final RowType row;
00028
00034
          @NonNii11
          private final SoundManager soundManager:
00035
00036
00046
00047
         private final CompositeDisposable disposables = new CompositeDisposable();
00048
00056
          @Nullable
         private CardNumberPickerAdapter pickerAdapter = null;
00057
00058
         public AddCardDialog(@NonNull ShowUnitsDialog caller, @NonNull SoundManager soundManager) {
00068
              this(caller.getContext(), caller.getRow(), soundManager);
00069
00070
              setOnDismissListener(dialog -> {
00071
                  disposables.dispose();
00072
                  caller.show();
00073
00074
00075
00084
          public AddCardDialog(@NonNull Context context, @NonNull RowType row, @NonNull SoundManager
00085
              super(context, R.layout.popup_add_card, R.id.popup_add_card_cancel_button);
00086
              this.row = row;
00087
              this.soundManager = soundManager;
00088
00089
              setOnDismissListener(dialog -> disposables.dispose());
00090
         }
00091
00101
          @Override
          protected void onCreate(Bundle savedInstanceState) {
00103
             super.onCreate(savedInstanceState);
00104
00105
              if (pickerAdapter == null) {
00106
                  disposables.add(
00107
                          GwentApplication.getRepository(getContext())
00108
                                   .flatMap(UnitRepository::getUnits)
00109
                                   .map(SquadManager::new)
                                   .map(squadManager ->
00110
00111
                                           new CardNumberPickerAdapter (findViewById (R.id.card_layout),
      squadManager))
00112
                                   .subscribe(cardNumberPickerAdapter -> pickerAdapter =
     cardNumberPickerAdapter)
00113
00114
00115
              \label{linear_save_button).setOnClickListener(v -> \{ a card_save\_button \}. \\
00116
00117
                  if (pickerAdapter != null) {
00118
                      disposables.add(pickerAdapter.addSelectedUnits(row).subscribe(epic -> {
00119
                          soundManager.playCardAddSound(row, epic);
```

6.27 CardNumberPickerAdapter.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003 import android.os.Handler;
00004 import android.os.Looper;
00005 import android.view.View;
00006 import android.view.ViewGroup;
00007 import android.widget.NumberPicker;
00008
00009 import androidx.annotation.NonNull;
00010
00011 import com.peternaggschga.gwent.GwentApplication;
00012 import com.peternaggschga.gwent.R;
00013 import com.peternaggschga.gwent.data.Ability;
00014 import com.peternaggschga.gwent.data.RowType;
00015 import com.peternaggschga.gwent.data.UnitEntity;
00016
00017 import org.jetbrains.annotations.Contract;
00018
00019 import java.util.Arrays;
00020 import java.util.List;
00021 import java.util.Objects;
00022 import java.util.SortedMap;
00023 import java.util.TreeMap;
00024
00025 import io.reactivex.rxjava3.core.Single;
00026
00033 class CardNumberPickerAdapter {
00037
          @NonNull
          private static final List<Ability> EPIC_UNIT_ABILITIES = Arrays.asList(Ability.NONE, Ability.HORN,
00038
      Ability.MORAL BOOST);
00039
00043
00044
          private final ValuePicker < Boolean > epicPicker;
00045
00049
          @NonNull
          private final DamageValuePicker damagePicker;
00050
00051
00057
          @NonNull
          private final ValuePicker<Ability> abilityPicker;
00058
00059
00065
          @NonNull1
00066
          private final NumberPicker squadPicker;
00067
00071
00072
          private final SquadManager squadManager;
00073
00077
00078
          private final NumberPicker numberPicker;
00079
          CardNumberPickerAdapter(@NonNull ViewGroup pickerGroup, @NonNull SquadManager squadManager) {
00090
              this.squadManager = squadManager;
00091
00092
               SortedMap<Boolean, Integer> epicStringResources = new TreeMap<>();
               epicStringResources.put(false, R.string.add_picker_epic_normal);
epicStringResources.put(true, R.string.add_picker_epic_epic);
00093
00094
00095
               epicPicker = new
      StringValuePicker<> (pickerGroup.findViewById(R.id.popup_add_card_epic_picker),
00096
                       epicStringResources,
00097
                       false);
00098
               damagePicker = new
00099
      DamageValuePicker(pickerGroup.findViewById(R.id.popup add card dmg picker));
00101
               SortedMap<Ability, Integer> abilityStringResources = new TreeMap<>();
               abilityStringResources.put(Ability.NONE, R.string.add_picker_ability_default); abilityStringResources.put(Ability.HORN, R.string.add_picker_ability_horn);
00102
00103
               abilityStringResources.put(Ability.REVENGE, R.string.add_picker_ability_revenge); abilityStringResources.put(Ability.BINDING, R.string.add_picker_ability_binding);
00104
00105
00106
               abilityStringResources.put(Ability.MORAL_BOOST, R.string.add_picker_ability_moralBoost);
               abilityPicker = new
      00108
                       abilityStringResources,
00109
                       Ability.NONE);
00110
00111
               squadPicker = pickerGroup.findViewById(R.id.popup_add_card_binding_picker);
00112
               squadPicker.setMinValue(1);
```

```
squadPicker.setMaxValue(SquadManager.MAX_NR_SQUADS);
00114
00115
              numberPicker = pickerGroup.findViewById(R.id.popup_add_card_number_picker);
00116
              numberPicker.setMinValue(1);
00117
              numberPicker.setMaxValue(10);
00118
00119
              epicPicker.setOnValueChangedListener((picker, oldVal, newVal) -> {
00120
                  damagePicker.setEpicValues(newVal);
00121
                  abilityPicker.setSelectableValues(newVal ? EPIC_UNIT_ABILITIES :
      Arrays.asList(Ability.values()));
00122
              });
00123
00124
              abilityPicker.setOnValueChangedListener((picker, oldVal, newVal) -> {
00125
                  if (newVal == Ability.BINDING) {
00126
                      squadPicker.setVisibility(View.VISIBLE);
00127
                      {\tt squadPicker.setValue} \ ({\tt squadManager.getFirstSquadWithMembers}\ ()\ )\ ;
00128
                      squad Manager.on Squad Changed (squad Manager.get First Squad With Members (), damage Picker); \\
00129
                  } else {
00130
                      squadPicker.setVisibility(View.GONE);
00131
                  }
00132
              });
00133
00134
              squadPicker.setOnValueChangedListener(
                      getDelayedOnValueChangeListener((picker, oldVal, newVal) -> {
00135
00136
                          if (newVal == picker.getValue()) {
00137
                              squadManager.onSquadChanged(newVal, damagePicker);
00138
00139
                      })
00140
              );
00141
          }
00142
00150
          @NonNull
00151
          @Contract(pure = true)
          00152
     NumberPicker.OnValueChangeListener originalListener) {
00153
             return (picker, oldVal, newVal) -> new Handler(Looper.getMainLooper()).postDelayed(() -> {
   if (newVal == picker.getValue()) {
00154
00155
                      originalListener.onValueChange(picker, oldVal, newVal);
00156
00157
              }, 500);
00158
          }
00159
          @NonNull1
00165
          Single < Boolean > addSelectedUnits (@NonNull RowType row) {
00166
              // handle delayed events due to delayed OnValueChangedListeners
00167
00168
              // delayed changes in damagePicker after hero selection
00169
              int damage;
00170
              if (epicPicker.getValue())
                  damage = Arrays.stream(UnitEntity.EPIC_DAMAGE_VALUES).anyMatch(integer ->
00171
      Objects.equals(integer, damagePicker.getValue())) ? damagePicker.getValue():
      UnitEntity.EPIC_DAMAGE_VALUES[3];
00172
00173
                  damage = damagePicker.getValue();
00174
00175
00176
              // delayed changes in squadPicker after squad selection
00177
              Integer squad;
00178
              if (abilityPicker.getValue() == Ability.BINDING) {
                  squad = squadPicker.getVisibility() == View.VISIBLE ? squadPicker.getValue() :
00179
     squadManager.getFirstSquadWithMembers();
00180
             } else {
00181
                  squad = null:
00182
00183
              return GwentApplication.getRepository(numberPicker.getContext())
00184
                      .flatMapCompletable(repository ->
00185
                              repository.insertUnit(epicPicker.getValue(),
00186
                                      damage,
                                       abilityPicker.getValue(),
00187
00188
                                       squad.
                                       row,
00190
                                       numberPicker.getValue()))
00191
                      .andThen(Single.just(epicPicker.getValue()));
00192
          }
00193 }
```

6.28 DamageValuePicker.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003
00004 import static com.peternaggschga.gwent.data.UnitEntity.EPIC_DAMAGE_VALUES;
00005 import static com.peternaggschga.gwent.data.UnitEntity.NON_EPIC_DAMAGE_VALUES_UPPER_BOUND;
00006
00007 import android.widget.NumberPicker;
00008
```

```
00009 import androidx.annotation.IntRange;
00010 import androidx.annotation.NonNull;
00011 import androidx.annotation.Nullable;
00012
00013 import java.util.Arrays;
00014 import java.util.Collection;
00015 import java.util.Map;
00016 import java.util.SortedMap;
00017 import java.util.TreeMap;
00018 import java.util.stream.Collectors;
00019 import java.util.stream.IntStream;
00020
00025 class DamageValuePicker extends ValuePicker<Integer> {
          private boolean epicValues = false;
00030
00031
00039
          DamageValuePicker(@NonNull NumberPicker picker) {
00040
               super(picker, Arrays.stream(EPIC_DAMAGE_VALUES).collect(
00041
                       TreeMap::new,
00042
                        (map, integer) -> map.put(integer, integer),
00043
                       Map::putAll)
00044
               setEpicValues(false);
00045
00046
          }
00047
00055
          @Override
00056
          @NonNull
00057
          protected String getDisplayString(@NonNull Integer value) {
00058
             if (epicValues && !getDisplayIntegers().containsKey(value)) {
     throw new IllegalStateException("When epicValues is true, displayIntegers must contain the
given key but does not contain " + value + ".");
00059
00060
00061
               return epicValues ? String.valueOf(getDisplayIntegers().get(value)) : String.valueOf(value);
00062
00063
00073
          @Override
          void setValue (@NonNull @IntRange (from = 0, to = NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) Integer value)
00074
00075
               if (epicValues) {
00076
                   super.setValue(value);
00077
               } else if (value < 0 || value > NON_EPIC_DAMAGE_VALUES_UPPER_BOUND) {
     throw new IllegalStateException("Value must be in [0, NON_EPIC_DAMAGE_VALUES_UPPER_BOUND + "] but is " + value + ".");
00078
00079
              } else {
08000
                  getPicker().setValue(value);
00081
00082
          }
00083
00088
          @NonNull
00089
          @Override
00090
          Integer getValue() {
00091
              return epicValues ? super.getValue() : getPicker().getValue();
00092
00093
00100
          void setEpicValues(boolean epicValues) {
00101
              this.epicValues = epicValues;
00102
               if (epicValues) {
00104
                   super.setSelectableValues(Arrays.asList(EPIC_DAMAGE_VALUES), EPIC_DAMAGE_VALUES[3]);
00105
00106
00107
               getSelectableValues().clear();
               getSelectableValues().addAll(IntStream.rangeClosed(0,
00108
     NON_EPIC_DAMAGE_VALUES_UPPER_BOUND).boxed().collect(Collectors.toList()));
00109
               getPicker().setDisplayedValues(null);
00110
               getPicker().setMaxValue(NON_EPIC_DAMAGE_VALUES_UPPER_BOUND);
00111
               getPicker().setValue(5);
00112
          }
00113
00120
          @Override
          void setSelectableValues(@NonNull Collection<Integer> values, @Nullable Integer defaultValue) {
00122
00123 }
```

6.29 SquadManager.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003
00004
00005 import android.content.Context;
00006 import android.widget.Toast;
00007
00008 import androidx.annotation.IntRange;
00009 import androidx.annotation.NonNull;
```

```
00011 import com.peternaggschga.gwent.R;
00012 import com.peternaggschga.gwent.data.Ability;
00013 import com.peternaggschga.gwent.data.UnitEntity;
00014
00015 import java.util.Arrays;
00016 import java.util.List;
00017 import java.util.stream.Collectors;
00018
00024 class SquadManager {
00028
          public static final int MAX_NR_SQUADS = 3;
00029
00033
00034
          private final SquadState[] states = new SquadState[MAX_NR_SQUADS];
00035
00041
          SquadManager(@NonNull List<UnitEntity> units) {
00042
             units = units.stream()
                       .filter(unit -> unit.getAbility() == Ability.BINDING)
00043
00044
                       .collect(Collectors.toList());
              for (int i = 0; i < MAX_NR_SQUADS; i++)</pre>
00046
                  states[i] = SquadState.getState(i + 1, units);
00047
00048
          }
00049
          int getFirstSquadWithMembers() {
00055
00056
              return Arrays.stream(states)
00057
                      .filter(SquadState::hasMembers)
00058
                       .findFirst()
00059
                       .map(SquadState::getSquadNumber)
00060
                       .orElse(1);
00061
          }
00062
00072
          void onSquadChanged(@IntRange(from = 1, to = MAX_NR_SQUADS) int newVal, @NonNull DamageValuePicker
00073
              if (newVal < 1 || newVal > MAX_NR_SQUADS) {
00074
                   throw new IllegalArgumentException("NewVal must be in [1, " + MAX_NR_SQUADS + "] but is "
      + newVal + ".");
00075
              SquadState squad = states[newVal - 1];
00077
00078
              Context context = picker.getContext();
00079
              Toast.makeText (context)
08000
                      context.getString(R.string.popUp_add_card_binding_count, squad.getSquadNumber(),
     squad.getSquadMembers()),
00081
                      Toast.LENGTH_SHORT).show();
00082
00083
              if (squad.hasMembers()) {
00084
                  picker.setValue(squad.getMemberBaseDamage());
00085
              }
00086
          }
00087 }
```

6.30 SquadState.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
{\tt 00003 import static com.peternaggschga.gwent.data.UnitEntity.NON\_EPIC\_DAMAGE\_VALUES\_UPPER\_BOUND;}
00004 import static com.peternaggschga.gwent.ui.dialogs.addcard.SquadManager.MAX_NR_SQUADS;
00005
00006 import androidx.annotation.IntRange;
00007 import androidx.annotation.NonNull;
00008
00009 import com.peternaggschga.gwent.data.UnitEntity;
00010
00011 import java.util.List;
00012 import java.util.stream.Collectors;
00013
00019 class SquadState {
         @IntRange(from = 1, to = MAX_NR_SQUADS)
00026
00027
          private final int squadNumber;
00028
00033
          @IntRange(from = 0)
00034
          private final int squadMembers;
00035
00042
          @IntRange(from = 0, to = NON_EPIC_DAMAGE_VALUES_UPPER_BOUND)
          private final int memberBaseDamage;
00043
00044
          private SquadState (@IntRange(from = 1, to = MAX NR SOUADS) int squadNumber, @IntRange(from = 0)
00055
     int squadMembers,
00056
                              @IntRange(from = 0, to = NON EPIC DAMAGE VALUES UPPER BOUND) int
00057
             if (squadNumber < 1 || squadNumber > MAX_NR_SQUADS) {
     throw new IllegalArgumentException("SquadNumber must be in [1, " + MAX_NR_SQUADS + "] but
is " + squadNumber + ".");
00058
00059
00060
              if (squadMembers < 0) {</pre>
```

```
00061
                  throw new IllegalArgumentException("SquadMembers must be non-negative but is " +
      squadMembers + ".");
00062
00063
               if (memberBaseDamage < 0 || memberBaseDamage > NON EPIC DAMAGE VALUES UPPER BOUND) {
     throw new IllegalArgumentException("MemberBaseDamage must be in [0, " +
NON_EPIC_DAMAGE_VALUES_UPPER_BOUND + "] but is " + memberBaseDamage + ".");
00064
00065
00066
               this.squadNumber = squadNumber;
00067
              this.squadMembers = squadMembers;
00068
              this.memberBaseDamage = memberBaseDamage;
00069
          }
00070
00079
          @NonNull
08000
          static SquadState getState(@IntRange(from = 1, to = MAX_NR_SQUADS) int squadNumber,
00081
                                       @NonNull List<UnitEntity> units) {
00082
               if (squadNumber < 1 || squadNumber > MAX_NR_SQUADS) {
                   throw new IllegalArgumentException("SquadNumber must be in [1, " + MAX_NR_SQUADS + "] but
00083
          + squadNumber + ".");
     is "
00084
00085
              units = units.stream()
00086
                       .filter(unit -> unit.getSquad() != null && unit.getSquad() == squadNumber)
00087
                       .collect(Collectors.toList());
00088
              return new SquadState(squadNumber,
00089
                      units.size().
00090
                      units.stream().findAny().map(UnitEntity::getDamage).orElse(5));
00091
          }
00092
00097
          boolean hasMembers() {
00098
             return squadMembers > 0;
00099
00100
00106
          @IntRange(from = 1, to = MAX_NR_SQUADS)
00107
          int getSquadNumber() {
00108
              return squadNumber;
00109
00110
00116
          @IntRange(from = 0)
          int getSquadMembers() {
00118
              return squadMembers;
00119
00120
00126
          @IntRange(from = 0, to = NON EPIC DAMAGE VALUES UPPER BOUND)
          int getMemberBaseDamage() {
00128
              return memberBaseDamage;
00129
00130 }
```

6.31 StringValuePicker.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003
00004
00005 import android.widget.NumberPicker;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.annotation.Nullable;
00009
00010 import java.util.SortedMap;
00011
00017 class StringValuePicker<T extends Comparable<T» extends ValuePicker<T> {
00027
          @SuppressWarnings("unused")
00028
          StringValuePicker(@NonNull NumberPicker picker, @NonNull SortedMap<T, Integer> valueToStringRes) {
00029
               this(picker, valueToStringRes, null);
00030
00031
          StringValuePicker(@NonNull NumberPicker picker, @NonNull SortedMap<T, Integer> valueToStringRes,
      @Nullable T defaultValue)
00046
              super(picker, valueToStringRes, defaultValue);
00047
00048
00056
          @Override
          @NonNull
00058
          protected String getDisplayString(@NonNull T value) {
00059
              if ((resId = getDisplayIntegers().get(value)) == null) {
    throw new IllegalStateException("Value must be key in displayIntegers but is " + value +
00060
00061
      ".");
00062
00063
              return getContext().getString(resId);
00064
00065 }
```

6.32 ValuePicker.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.addcard;
00002
00003
00004
00005 import android.content.Context;
00006 import android.widget.NumberPicker;
00007
00008 import androidx.annotation.NonNull;
00009 import androidx.annotation.Nullable;
00010 import androidx.annotation.UiContext;
00012 import java.util.ArrayList;
00013 import java.util.Collection;
00014 import java.util.HashMap;
00015 import java.util.List;
00016 import java.util.Map;
00017 import java.util.SortedMap;
00029 abstract class ValuePicker<T extends Comparable<T» {
00037
          @NonNull
00038
          private final NumberPicker picker;
00039
00045
          @NonNull
00046
          private final Map<T, Integer> displayIntegers;
00047
00054
          @NonNull
00055
          private final List<T> selectableValues;
00056
00065
          ValuePicker (@NonNull NumberPicker picker, @NonNull SortedMap<T, Integer> valueToStringRes) {
              this (picker, valueToStringRes, null);
00067
00068
00081
          ValuePicker(@NonNull NumberPicker picker, @NonNull SortedMap<T, Integer> valueToStringRes,
00082
                       @Nullable T defaultValue) {
              if (valueToStringRes.isEmpty()) {
00083
00084
                  throw new IllegalArgumentException("SortedMap<T, Integer> valueToStringRes must not be
      empty.");
00085
00086
              if (defaultValue != null && !valueToStringRes.containsKey(defaultValue)) {
00087
                  {\bf throw}\ {\tt new}\ {\tt IllegalArgumentException} (\hbox{\tt "DefaultValue}\ {\tt must}\ {\tt be}\ {\tt null}\ {\tt or}\ {\tt a}\ {\tt key}\ {\tt in}\ {\tt the}\ {\tt given}
     SortedMap.");
00088
00089
              this.picker = picker;
00090
              displayIntegers = new HashMap<> (valueToStringRes);
00091
              selectableValues = new ArrayList<>(valueToStringRes.size());
00092
00093
              picker.setMinValue(0);
00094
              setSelectableValues(valueToStringRes.keySet(), defaultValue);
00095
         }
00096
00107
          void setSelectableValues(@NonNull Collection<T> values, @Nullable T defaultValue) {
00108
             if (values.isEmpty()) {
                  throw new IllegalArgumentException("Collection<T> values must not be empty.");
00109
00110
              if (!displayIntegers.keySet().containsAll(values)) {
00112
                  throw new IllegalStateException("DisplayIntegers must contain all given values.");
00113
00114
              if (defaultValue != null && !displayIntegers.containsKey(defaultValue)) {
00115
                  throw new IllegalArgumentException ("DefaultValue must be null or a key in the given
     SortedMap.");
00116
00117
00118
              picker.setDisplayedValues(null);
              picker.setValue(0);
00119
              picker.setMaxValue(values.size() - 1);
00120
00121
00122
              selectableValues.clear();
              String[] displayValues = new String[values.size()];
00123
00124
00125
              for (T value : values) {
00126
                  selectableValues.add(value);
                  displayValues[i++] = getDisplayString(value);
00127
00128
00130
              if (defaultValue != null) {
00131
                   setValue(defaultValue);
00132
              picker.setDisplayedValues(displayValues);
00133
00134
          }
00135
00142
00143
          protected NumberPicker getPicker() {
00144
              return picker;
00145
00146
```

```
00157
         00158
             picker.setOnValueChangedListener(
00159
                     CardNumberPickerAdapter.getDelayedOnValueChangeListener((picker, oldVal, newVal) ->
00160
                             \verb"onValueChangedListener.onValueChange" (ValuePicker.this, \\
00161
                                    selectableValues.get(oldVal)
                                     selectableValues.get(newVal)))
00162
00163
             );
00164
         }
00165
00170
         @NonNull
00171
         T getValue() {
00172
             return selectableValues.get(picker.getValue());
00173
00174
00180
         void setValue(@NonNull T value) {
00181
             int position;
             if ((position = selectableValues.indexOf(value)) < 0) {</pre>
00182
00183
                 throw new IllegalStateException("SelectableValues must contain the given value.");
00184
00185
             picker.setValue(position);
00186
00187
00194
         @NonNull
         protected abstract String getDisplayString(@NonNull T value);
00195
00196
00203
          @UiContext
00204
         public Context getContext() {
00205
            return picker.getContext();
00206
00207
00211
         interface OnValueChangeListener<T extends Comparable<T» {
00219
             void onValueChange(@NonNull ValuePicker<T> picker, T oldVal, T newVal);
00220
00221
00228
         @NonNull1
00229
         protected Map<T, Integer> getDisplayIntegers() {
00230
            return displayIntegers;
00231
00232
00239
         @NonNull
00240
         protected List<T> getSelectableValues() {
00241
             return selectable Values;
00242
00243
00254
         void setSelectableValues(@NonNull Collection<T> values) {
00255
             setSelectableValues(values, null);
00256
00257 }
```

6.33 CardListAdapter.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.cards;
00002
00003 import static androidx.recyclerview.widget.RecyclerView.NO_ID;
00004
00005 import android.view.LayoutInflater;
00006 import android.view.View;
00007 import android.view.ViewGroup;
00008 import android.widget.ImageView;
00009 import android.widget.TextView;
00010
00011 import androidx.annotation.IntRange;
00012 import androidx.annotation.NonNull;
00013 import androidx.core.util.Consumer;
00014 import androidx.recyclerview.widget.DiffUtil;
00015 import androidx.recyclerview.widget.ListAdapter;
00016 import androidx.recyclerview.widget.RecyclerView;
00017
00018 import com.peternaggschga.gwent.R;
00019
00028 class CardListAdapter extends ListAdapter<CardUiState, CardListAdapter.CardViewHolder> {
00038
         @NonNull
00039
         private final Consumer<Integer> onCopy;
00040
00049
          @NonNii11
00050
          private final Consumer<Integer> onRemove;
00051
          CardListAdapter(@NonNull Consumer<Integer> onCopy, @NonNull Consumer<Integer> onRemove) {
              super(CardUiState.DIFF_CALLBACK);
00066
00067
              this.onCopy = onCopy;
00068
              this.onRemove = onRemove;
00069
              setHasStableIds(true);
00070
          }
00071
00079
          @NonNull
```

```
00080
          @Override
          public CardViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
00081
00082
              View cardView = LayoutInflater.from(parent.getContext()).inflate(R.layout.card, parent,
     false):
00083
              return new CardViewHolder(cardView, onCopy, onRemove);
00084
          }
00085
00092
00093
          public void onBindViewHolder(@NonNull CardViewHolder holder, @IntRange(from = 0) int position) {
00094
              CardUiState item = getItem(position);
              holder.getDamageView().setText(item.getDamageString());
00095
00096
              holder.getDamageView().setBackgroundResource(item.getDamageBackgroundImageId());
00097
              holder.getDamageView().setTextColor(item.getDamageTextColor());
00098
00099
              if (item.showAbility()) {
00100
                  holder.getAbilityView().setImageResource(item.getAbilityImageId());
                  holder.getAbilityView().setVisibility(View.VISIBLE);
00101
00102
              } else {
00103
                  holder.getAbilityView().setVisibility(View.GONE);
00104
              }
00105
00106
              if (item.showSquad()) {
                  holder.getBindingView().setText(item.getSquadString());
00107
                  holder.getBindingView().setVisibility(View.VISIBLE);
00108
00109
              } else {
00110
                  holder.getBindingView().setVisibility(View.GONE);
00111
00112
00113
              holder.setItemId(item.getUnitId());
00114
          }
00115
00121
          @Override
00122
          public long getItemId(@IntRange(from = 0) int position) {
00123
              return getItem(position).getUnitId();
00124
00125
00131
          static class CardViewHolder extends RecyclerView.ViewHolder {
00136
              @NonNull
00137
              private final TextView damageView;
00143
              @NonNull
00144
              private final ImageView abilityView;
00151
              @NonNull1
              private final TextView bindingView:
00152
00161
              private int itemId = (int) NO_ID;
00162
00173
              CardViewHolder(@NonNull View itemView,
00174
                              @NonNull Consumer<Integer> onCopy, @NonNull Consumer<Integer> onRemove) {
00175
                  super(itemView);
00176
00177
                  damageView = itemView.findViewById(R.id.damageView);
                  abilityView = itemView.findViewById(R.id.abilityView);
bindingView = itemView.findViewById(R.id.bindingView);
00178
00179
00180
00181
                  itemView.findViewById(R.id.copyButton).setOnClickListener(v -> {
00182
                       if (itemId <= NO_ID) {</pre>
00183
                           throw new IllegalArgumentException("ItemId must be greater than NO ID (" + NO ID +
      ") but is " + itemId + ".");
00184
00185
                       onCopy.accept(itemId);
00186
                  });
                  itemView.findViewBvId(R.id.deleteButton).setOnClickListener(v -> {
00187
00188
                      if (itemId <= NO ID) {</pre>
00189
                           throw new IllegalArgumentException("ItemId must be greater than NO_ID (" + NO_ID +
     ") but is " + itemId + ".");
00190
00191
                       onRemove.accept(itemId);
00192
                  });
00193
              }
00194
00200
              @NonNull
00201
              TextView getDamageView() {
00202
                  return damageView;
00203
              }
00204
00210
              @NonNull
00211
              ImageView getAbilityView() {
                  return abilityView;
00212
00213
00214
00220
              @NonNull1
              TextView getBindingView() {
00221
00222
                  return bindingView;
00223
00224
00232
              void setItemId(int itemId) {
00233
                  if (itemId <= NO ID)
00234
                       throw new IllegalArgumentException("ItemId must be greater than NO_ID (-1) but is " +
```

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6.34 CardUiState.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.cards;
00002
00003
00004
00005 import androidx.annotation.ColorInt;
00006 import androidx.annotation.DrawableRes;
00007 import androidx.annotation.IntRange;
00008 import androidx.annotation.NonNull;
00009 import androidx.annotation.Nullable;
00010 import androidx.recyclerview.widget.DiffUtil;
00011
00012 import com.peternaggschga.gwent.data.UnitEntity;
00013 import com.peternaggschga.gwent.domain.damage.DamageCalculator;
00015 import java.util.Objects;
00016
00024 public class CardUiState {
00032
          @NonNull
00033
           public static final DiffUtil.ItemCallback<CardUiState> DIFF_CALLBACK = new
      DiffUtil.ItemCallback<CardUiState>() {
00034
00035
               public boolean areItemsTheSame(@NonNull CardUiState oldItem, @NonNull CardUiState newItem) {
00036
                  return oldItem.unitId == newItem.unitId;
00037
00038
00039
00040
              public boolean areContentsTheSame(@NonNull CardUiState oldItem, @NonNull CardUiState newItem)
00041
                   return Objects.equals(oldItem, newItem);
00042
00043
          };
00044
00050
          public static final int UNUSED = -1;
00051
00057
          private final int unitId;
00058
00063
          @DrawableRes
00064
          private final int damageBackgroundImageId;
00065
00071
00072
          private final String damageString;
00073
00078
          @ColorInt
00079
          private final int damageTextColor;
00080
00087
          @DrawableRes
00088
          private final int abilityImageId;
00089
00094
          @NonNull
          private final String squadString;
00096
          public CardUiState(int unitId, @DrawableRes int damageBackgroundImageId, @IntRange(from = UNUSED)
00108
      int damage,
                               @ColorInt int damageTextColor, @DrawableRes int abilityImageId,
@Nullable @IntRange(from = 1) Integer squad) {
00109
00110
00111
               if (damage < UNUSED) {</pre>
00112
                   throw new IllegalArgumentException("Damage must be greater or equal to UNUSED (" + UNUSED
      + ") but is " + damage + ".");
00113
00114
               if (squad != null && squad < 1) {</pre>
                   throw new IllegalArgumentException("Squad must not be null or less than 1 but is " + squad
00115
      + ".");
00116
00117
               this.unitId = unitId;
               this.damageBackgroundImageId = damageBackgroundImageId;
this.damageString = damage == UNUSED ? "" : String.valu
00118
00119
                                                            : String.valueOf(damage);
               this.damageTextColor = damageTextColor;
this.abilityImageId = abilityImageId;
00120
00121
               this.squadString = squad == null ? "" : String.valueOf(squad);
00122
00123
          }
00124
          public boolean showAbility() {
00130
               return abilityImageId != UNUSED;
00131
00132
00133
00139
          public boolean showSquad() {
```

```
return showAbility() && !squadString.isEmpty();
00141
00142
00148
          public int getUnitId() {
             return unitId;
00149
00150
00151
00157
          @DrawableRes
          public int getDamageBackgroundImageId() {
00158
00159
             return damageBackgroundImageId;
00160
00161
00167
          @NonNull
00168
          public String getDamageString() {
00169
             return damageString;
00170
00171
00177
          @ColorInt
          public int getDamageTextColor() {
00179
             return damageTextColor;
00180
00181
00188
          @DrawableRes
          public int getAbilityImageId() {
00189
00190
              return abilityImageId;
00191
00192
00199
          @NonNull1
00200
          public String getSquadString() {
00201
             return squadString;
00202
00203
00211
00212
          public boolean equals(Object o) {
             if (this == o) return true;
if (!(o instanceof CardUiState)) return false;
00213
00214
              CardUiState that = (CardUiState) o;
00215
              return damageBackgroundImageId == that.damageBackgroundImageId
00217
                       && damageTextColor == that.damageTextColor
                        && abilityImageId == that.abilityImageId
00218
                       && Objects.equals(damageString, that.damageString) && Objects.equals(squadString, that.squadString);
00219
00220
00221
          }
00222 }
```

6.35 CardUiStateFactory.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.cards;
00002
00003 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color;
00004 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.BUFFED;
00005 import static com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.DEBUFFED;
{\tt 00006 \ import \ static \ com.peternaggschga.gwent.domain.damage.DamageCalculator.Color.DEFAULT;}
00008 import android.content.Context;
00009
00010 import androidx.annotation.NonNull:
00011
00012 import com.peternaggschga.gwent.R;
00013 import com.peternaggschga.gwent.data.UnitEntity;
00014 import com.peternaggschga.gwent.domain.cases.DamageCalculatorUseCase;
00015 import com.peternaggschga.gwent.domain.damage.DamageCalculator;
00016
00017 import java.util.Collection;
00018 import java.util.HashMap;
00019 import java.util.List;
00020 import java.util.Map;
00021 import java.util.Objects;
00022 import java.util.stream.Collectors;
00023
00028 public class CardUiStateFactory {
         private final boolean weather;
00034
00039
         private final boolean horn;
00040
00045
          @NonNull
00046
          private final Map<Color, Integer> damageTextColors = new HashMap<> (Color.values().length);
00047
          public CardUiStateFactory(@NonNull Context context, boolean weather, boolean horn) {
00058
00059
              this.weather = weather;
00060
              this.horn = horn;
00061
              {\tt damageTextColors.put\,(DEFAULT,\,\,context.getColor\,(R.color.color\_damage\_textColor));}
00062
              damageTextColors.put(BUFFED, context.getColor(R.color.color_damage_textColor_buffed));
00063
              damageTextColors.put(DEBUFFED, context.getColor(R.color.color_damage_textColor_debuffed));
00064
          }
```

```
00065
00073
00074
          public List<CardUiState> createCardUiState(@NonNull Collection<UnitEntity> units) {
00075
              DamageCalculator calculator = DamageCalculatorUseCase.getDamageCalculator(weather, horn,
     units);
00076
              return units.stream()
                      .map(unit -> createCardUiState(unit, calculator))
00078
                      .collect(Collectors.toList());
00079
          }
00080
          @NonNull
00088
          public CardUiState createCardUiState (@NonNull UnitEntity unit, @NonNull DamageCalculator
00089
     calculator) {
00090
              int damageBackgroundId = R.drawable.icon_damage_background;
00091
              int damage = unit.calculateDamage(calculator);
00092
00093
              if (unit.isEpic()) {
00094
                  switch (damage) {
                      case 7:
00095
00096
                          damageBackgroundId = R.drawable.icon_epic_damage_7;
00097
00098
                      case 8:
00099
                          damageBackgroundId = R.drawable.icon_epic_damage_8;
                          break;
00100
00101
                      case 10:
00102
                         damageBackgroundId = R.drawable.icon_epic_damage_10;
00103
                      case 11:
00104
00105
                          damageBackgroundId = R.drawable.icon_epic_damage_11;
00106
                          break;
00107
                      case 15:
00108
                          damageBackgroundId = R.drawable.icon_epic_damage_15;
00109
00110
                      case 0:
00111
                      default:
                          damageBackgroundId = R.drawable.icon_epic_damage_0;
00112
00113
00114
                  damage = CardUiState.UNUSED;
00115
              }
00116
00117
              int damageColor = Objects.requireNonNull(damageTextColors.get(unit.isBuffed(calculator)));
00118
00119
              int abilityImage:
00120
              switch (unit.getAbility()) {
00121
                  case HORN:
00122
                      abilityImage = R.drawable.icon_horn;
00123
00124
                  case REVENGE:
00125
                      abilityImage = R.drawable.icon_revenge;
00126
                      break:
                  case BINDING:
00128
                     abilityImage = R.drawable.icon_binding;
00129
00130
                  case MORAL BOOST:
                      abilityImage = R.drawable.icon_moral_boost;
00131
00132
                      break;
                  case NONE:
00134
00135
                      abilityImage = CardUiState.UNUSED;
00136
              }
00137
              return new CardUiState(unit.getId(), damageBackgroundId, damage, damageColor, abilityImage,
00138
     unit.getSquad());
00139
00140 }
```

6.36 ShowUnitsDialog.java

```
00001 package com.peternaggschga.gwent.ui.dialogs.cards;
00002
00003 import android.content.Context;
00004 import android.os.Bundle;
00005 import android.util.Log;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.recyclerview.widget.DefaultItemAnimator;
00009 import androidx.recyclerview.widget.LinearLayoutManager;
00010 import androidx.recyclerview.widget.RecyclerView;
00011
00012 import com.peternaggschga.gwent.GwentApplication;
00013 import com.peternaggschga.gwent.R;
00014 import com.peternaggschga.gwent.data.RowType;
00015 import com.peternaggschga.gwent.data.UnitEntity;
00016 import com.peternaggschga.gwent.domain.cases.RemoveUnitsUseCase;
00017 import com.peternaggschga.gwent.ui.dialogs.OverlayDialog;
```

```
00018 import com.peternaggschga.gwent.ui.dialogs.addcard.AddCardDialog;
00019 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00020
00021 import java.util.Objects;
00022
00023 import io.reactivex.rxjava3.core.Single;
00024 import io.reactivex.rxjava3.disposables.CompositeDisposable;
00025
00031 public class ShowUnitsDialog extends OverlayDialog {
00037
          @NonNull
00038
         private final RowType row;
00039
00043
          @NonNull
         private final CardListAdapter cardListAdapter;
00044
00045
00052
          @NonNull
         private final SoundManager soundManager;
00053
00054
00062
00063
         private final CompositeDisposable disposables = new CompositeDisposable();
00064
00068
          private RecyclerView unitRecyclerView;
00069
         00078
00079
     soundManager) {
             super(context, R.layout.popup_cards, R.id.popup_cards_cancel_button);
00080
00081
              this.row = row;
              this.cardListAdapter = cardListAdapter;
00082
00083
             this.soundManager = soundManager;
00084
          }
00085
00093
          @NonNull
00094
          public static Single<ShowUnitsDialog> getDialog(@NonNull Context context, @NonNull RowType row,
     @NonNull SoundManager soundManager) {
             00095
00096
00097
                             .zipWith(repository.isHorn(row), (weather, horn) ->
00098
                                     new CardUiStateFactory(context, weather, horn))
00099
                              .map(factory -> {
00100
                                 CompositeDisposable initialDisposables = new CompositeDisposable();
00101
                                 CardListAdapter adapter = new CardListAdapter(
00102
                                         id -> initialDisposables.add(
00103
                                                 repository
00104
                                                         .copy(id)
00105
                                                         .andThen(repository.getUnit(id))
00106
                                                         .map(UnitEntity::isEpic)
00107
                                                         .subscribe(epic ->
      soundManager.playCardAddSound(row, epic))
00108
00109
                                         id -> initialDisposables.add(
                                                 RemoveUnitsUseCase.remove(context, repository, id,
00110
      soundManager)
00111
                                                         .subscribe(soundManager::playCardRemovedSound,
00112
                                                                 throwable -:
      Log.e(ShowUnitsDialog.class.getSimpleName(),
00113
                                                                         "There has been an error with the
     removal of a unit. " +
00114
                                                                                "A reason might be tapping
     delete buttons too fast!",
00115
                                                                         throwable))
00116
                                         )
00117
                                 initialDisposables.add(
00118
00119
                                         repository.getUnitsFlowable(row)
00120
                                                 .map(factory::createCardUiState)
00121
                                                 .subscribe(adapter::submitList)
00122
00123
                                 ShowUnitsDialog result = new ShowUnitsDialog(context, row, adapter,
     soundManager);
00124
                                 result.disposables.add(initialDisposables);
00125
                                 return result;
00126
                             })
00127
                     );
00128
          }
00129
00141
00142
         protected void onCreate(Bundle savedInstanceState) {
00143
              super.onCreate(savedInstanceState);
00144
00145
              if (unitRecyclerView == null) {
00146
                 LinearLayoutManager llm = new LinearLayoutManager(getContext());
00147
                 llm.setOrientation(RecyclerView.HORIZONTAL);
00148
                 unitRecyclerView = findViewById(R.id.cards_list);
00149
                  ((DefaultItemAnimator)
     {\tt Objects.requireNonNull(unitRecyclerView.getItemAnimator())).setSupportsChangeAnimations(false);}
00150
                 unitRecyclerView.setLayoutManager(llm);
```

```
unitRecyclerView.setAdapter(cardListAdapter);
00152
00153
                cardListAdapter.registerAdapterDataObserver(new RecyclerView.AdapterDataObserver() {
00162
                    @Override
00163
                    public void onItemRangeInserted(int positionStart, int itemCount) {
00164
                        super.onItemRangeInserted(positionStart, itemCount);
00165
                        int scrollPosition = positionStart + itemCount - 1;
00166
                        if (scrollPosition >= 0) {
00167
                            unitRecyclerView.smoothScrollToPosition(scrollPosition);
00168
00169
00170
                });
00171
             }
00172
00173
             00174
00175
                new AddCardDialog(ShowUnitsDialog.this, soundManager).show();
00176
             });
00178
             setOnDismissListener(dialog -> disposables.dispose());
00179
00180
00187
         @NonNull
         public RowType getRow() {
00188
00189
            return row;
00190
00191 }
```

6.37 ChangeFactionDialog.java

```
00001 package com.peternaggschga.gwent.ui.dialogs;
00002
00003 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME MONSTER;
00004 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME NILFGAARD;
00005 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_NORTHERN_KINGDOMS;
00006 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_SCOIATAEL;
00007
00008 import android.content.Context;
00009 import android.os.Bundle:
00010 import android.view.View;
00011
00012 import androidx.annotation.IntRange;
00013 import androidx.annotation.NonNull;
00014
00015 import com.peternaggschga.gwent.R;
00016
00020 public class ChangeFactionDialog extends OverlayDialog {
00024
          private final Callback callback;
00025
00033
          public ChangeFactionDialog(@NonNull Context context, @NonNull Callback callback) {
00034
              super(context, R.layout.popup_faction, R.id.factionBackground);
00035
              this.callback = callback;
00036
00037
00046
          @Override
          protected void onCreate(Bundle savedInstanceState) {
00047
00048
              super.onCreate(savedInstanceState);
00049
00050
              find View By Id (R.id.monster Card View). set On Click Listener (get On Theme Click Listener (THEME\_MONSTER)); \\
00051
              findViewById(R.id.monsterButton).setOnClickListener(getOnThemeClickListener(THEME_MONSTER));
00052
00053
      findViewById(R.id.nilfgaardCardView).setOnClickListener(getOnThemeClickListener(THEME_NILFGAARD));
00054
      findViewBvId(R.id.nilfgaardButton).setOnClickListener(getOnThemeClickListener(THEME NILFGAARD));
00055
00056
      findViewById(R.id.northernKingdomsCardView).setOnClickListener(getOnThemeClickListener(THEME_NORTHERN_KINGDOMS));
00057
      findViewById(R.id.northernKingdomsButton).setOnClickListener(getOnThemeClickListener(THEME_NORTHERN_KINGDOMS));
00058
00059
      \verb|findViewById(R.id.scoiataelCardView).setOnClickListener(getOnThemeClickListener(THEME\_SCOIATAEL)); \\
00060
      findViewById(R.id.scoiataelButton).setOnClickListener(getOnThemeClickListener(THEME_SCOIATAEL));
00061
00062
00072
          private View.OnClickListener getOnThemeClickListener(@IntRange(from = THEME_MONSTER, to =
      THEME_SCOIATAEL) int theme) {
00074
              return v -> {
00075
                  cancel():
00076
                  callback.onThemeSelect(theme);
00077
              };
```

6.38 CoinFlipDialog.java

```
00001 package com.peternaggschga.gwent.ui.dialogs;
00002
00003 import android.content.Context;
00004 import android.os.Bundle;
00005 import android.widget.ImageView;
00006 import android.widget.TextView;
00007
00008 import androidx.annotation.NonNull;
00009
00010 import com.peternaggschga.gwent.R;
00011
00012 import java.util.Random;
00013
00024 public class CoinFlipDialog extends OverlayDialog {
         private static final Random RANDOM = new Random();
00029
00034
          public CoinFlipDialog(@NonNull Context context) {
00035
            super(context, R.layout.popup_coin_normal, R.id.coinflipBackground);
00036
00037
00047
          @Override
00048
         protected void onCreate(Bundle savedInstanceState) {
00049
              super.onCreate(savedInstanceState);
00050
00051
              switch (RANDOM.nextInt(100)) {
00052
                 case 0:
00053
                     setContentView(R.layout.popup_coin_stewie);
00054
                      break;
00055
                  case 1:
00056
                      setContentView(R.layout.popup_coin_terry);
                      break;
00057
00058
                  case 2:
00059
                     setContentView(R.layout.popup_coin_vin);
00060
                      break;
00061
                  default:
00062
                      if (RANDOM.nextBoolean()) {
00063
                           ((ImageView)
     \verb|findViewById(R.id.popup_coin_normal_coinView)|).setImageResource(R.drawable.coin_lose)|;\\
00064
                          ((TextView)
      findViewById(R.id.popup_coin_normal_textView)).setText(R.string.popUp_coin_normal_lose);
00065
00066
00067
00068 }
```

6.39 OverlayDialog.java

```
00001 package com.peternaggschga.gwent.ui.dialogs;
00002
00003 import android.app.Dialog;
00004 import android.content.Context;
00005 import android.graphics.Color;
00006 import android.graphics.drawable.ColorDrawable;
00007 import android.os.Bundle;
00008 import android.view.ViewGroup;
00009 import android.view.Window;
00010
00011 import androidx.annotation.IdRes;
00012 import androidx.annotation.LayoutRes;
00013 import androidx.annotation.NonNull;
00014
00015 import java.util.Objects;
00022 public class OverlayDialog extends Dialog {
00028
          static final int NO_DISMISS_VIEW = -1;
00032
          @NonNull
          private static final ColorDrawable BACKGROUND = new ColorDrawable (Color.TRANSPARENT);
00033
00037
          @LavoutRes
          private final int layout;
          @IdRes
00044
00045
         private final int dismissViewId;
00046
          protected OverlayDialog (@NonNull Context context, @LayoutRes int layout, @IdRes int dismissViewId)
00054
```

```
super (context);
00056
              this.layout = layout;
00057
              this.dismissViewId = dismissViewId;
00058
00059
00067
          @SuppressWarnings("unused")
          protected OverlayDialog(@NonNull Context context, @LayoutRes int layout) {
00069
              this(context, layout, NO_DISMISS_VIEW);
00070
00071
00084
          @Override
          protected void onCreate(Bundle savedInstanceState) {
00085
00086
              super.onCreate(savedInstanceState);
00087
00088
              setContentView(layout);
00089
              Window window = Objects.requireNonNull(getWindow());
00090
00091
              window.setLayout(ViewGroup.LayoutParams.MATCH_PARENT); window.setBackgroundDrawable(BACKGROUND);
00092
00093
00094
              if (dismissViewId != NO_DISMISS_VIEW)
00095
                  findViewById(dismissViewId).setOnClickListener(v -> dismiss());
00096
00097
              setCancelable(true):
00098
          }
00099 }
```

6.40 IndicatorManager.java

```
00001 package com.peternaggschga.gwent.ui.introduction;
00002
00003 import android.view.Window;
00004 import android.widget.ImageView;
00005
00006 import androidx.annotation.IntRange;
00007 import androidx.annotation.NonNull;
00008
00009 import com.peternaggschga.gwent.R;
00010
00015 class IndicatorManager {
00019
         @NonNull
         private final ImageView[] indicators = new ImageView[5];
00021
00029
          @IntRange(from = 0, to = 4)
00030
         private int currentView = 0;
00031
00043
          IndicatorManager(@NonNull Window window) {
              indicators[0] = window.findViewById(R.id.introduction_indicator_0);
00045
              indicators[1] = window.findViewById(R.id.introduction_indicator_1);
00046
              indicators[2] = window.findViewById(R.id.introduction_indicator_2);
              indicators[3] = window.findViewById(R.id.introduction_indicator_3);
00047
00048
              indicators[4] = window.findViewById(R.id.introduction_indicator_4);
00049
          }
00050
00059
          void updateIndicators(@IntRange(from = 0, to = 4) int position) {
00060
              indicators[currentView].setImageResource(R.drawable.indicator_unselected);
00061
              indicators[position].setImageResource(R.drawable.indicator_selected);
00062
              currentView = position;
00063
          }
00064 }
```

6.41 IntroductionActivity.java

```
00001 package com.peternaggschga.gwent.ui.introduction;
00002
00003 import android.os.Bundle;
00004 import android.view.View;
00005 import android.widget.Button;
00006 import android.widget.ImageButton;
00008 import androidx.activity.OnBackPressedCallback;
00009 import androidx.appcompat.app.AppCompatActivity;
00010 import androidx.preference.PreferenceManager;
00011 import androidx.viewpager2.widget.ViewPager2;
00012
00013 import com.peternaggschga.gwent.R;
00014
00020 public class IntroductionActivity extends AppCompatActivity {
00025
         private IndicatorManager indicatorManager;
00026
00036
00037
         protected void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
00039
00040
              setContentView(R.layout.activity_introduction);
00041
00042
              if (indicatorManager == null) {
00043
                  indicatorManager = new IndicatorManager(getWindow());
00045
00046
              final ViewPager2 viewPager = findViewById(R.id.introduction_viewPager);
00047
              OnBackPressedCallback callback = new OnBackPressedCallback(false)
00052
                  @Override
00053
                  public void handleOnBackPressed() {
00054
                      viewPager.setCurrentItem(viewPager.getCurrentItem() - 1);
00055
00056
00057
              getOnBackPressedDispatcher().addCallback(callback);
00058
00059
              View.OnClickListener onFinish = view -> {
                  PreferenceManager.getDefaultSharedPreferences(getApplicationContext())
00060
00061
00062
                          .putBoolean(getString(R.string.preference_first_use_key), false)
00063
                           .apply();
                  callback.setEnabled(false);
00064
00065
                  getOnBackPressedDispatcher().onBackPressed();
00066
              };
00067
00068
              final Button skipButton = findViewById(R.id.introduction_button_skip);
00069
              final ImageButton nextButton = findViewById(R.id.introduction_button_next);
00070
              final Button finishButton = findViewById(R.id.introduction_button_finish);
00071
00072
              skipButton.setOnClickListener(onFinish);
00073
              nextButton.setOnClickListener(v -> viewPager.setCurrentItem(viewPager.getCurrentItem() + 1));
00074
              finishButton.setOnClickListener(onFinish);
00075
00076
              viewPager.setAdapter(new SectionsPagerAdapter(this));
00077
              viewPager.registerOnPageChangeCallback(new ViewPager2.OnPageChangeCallback() {
00084
                  @Override
                  public void onPageSelected(int position) {
00086
                      indicatorManager.updateIndicators(position);
                      skipButton.setVisibility(position == IntroductionFragment.PAGES_COUNT - 1 ? View.GONE
00087
      : View.VISIBLE);
00088
                      nextButton.setVisibility(position == IntroductionFragment.PAGES COUNT - 1 ? View.GONE
      : View.VISIBLE);
00089
                      finishButton.setVisibility(position == IntroductionFragment.PAGES_COUNT - 1 ?
      View.VISIBLE : View.GONE);
00090
                      callback.setEnabled(position != 0);
00091
00092
              });
          }
00093
00094 }
```

6.42 IntroductionFragment.java

```
00001 package com.peternaggschga.gwent.ui.introduction;
00002
00003 import android.os.Bundle;
00004 import android.text.Html;
00005 import android.text.method.LinkMovementMethod;
00006 import android.view.LayoutInflater;
00007 import android.view.View;
00008 import android.view.ViewGroup;
00009 import android.widget.ImageView;
00010 import android.widget.TextView;
00011
00012 import androidx.annotation.IntRange;
00013 import androidx.annotation.NonNull;
00014 import androidx.fragment.app.Fragment;
00015
00016 import com.peternaggschga.gwent.R;
00017
00021 public class IntroductionFragment extends Fragment {
00026
        public static final int PAGES_COUNT = 5;
00030
         private static final String ARG_SECTION_NUMBER = "section_number";
00034
         private static final int[] imageIds = {R.drawable.introduction_1, R.drawable.introduction_2,
00035
                R.drawable.introduction_3, R.drawable.introduction_4, R.drawable.introduction_5);
         00039
00040
00049
         @NonNull
         public static IntroductionFragment newInstance(@IntRange(from = 0, to = PAGES_COUNT - 1) int
00050
     index) {
00051
             if (index < 0 || index >= PAGES COUNT) {
00052
                throw new IllegalArqumentException("Index must be in [0, PAGES_COUNT - 1] but is " + index
     + ".");
00053
```

```
00054
              Bundle arguments = new Bundle();
00055
              arguments.putInt(ARG_SECTION_NUMBER, index);
00056
              IntroductionFragment fragment = new IntroductionFragment();
00057
              {\tt fragment.setArguments\,(arguments);}
00058
              return fragment;
00059
          }
00074
00075
          public View onCreateView(@NonNull LayoutInflater inflater, ViewGroup container, Bundle
     savedInstanceState) {
00076
              int page = getArguments() != null ? getArguments().getInt(ARG_SECTION_NUMBER) : 0;
00077
00078
              View root = inflater.inflate(R.layout.fragment introduction, container, false);
00079
00080
              TextView textView = root.findViewById(R.id.introduction_textView);
00081
              textView.setText(Html.fromHtml(getString(stringIds[page]), Html.FROM_HTML_MODE_LEGACY));
              textView.setMovementMethod(LinkMovementMethod.getInstance()):
00082
00083
00084
              ((ImageView) root.findViewById(R.id.introduction_imageView)).setImageResource(imageIds[page]);
00085
              return root;
00086
00087 }
```

6.43 SectionsPagerAdapter.java

```
00001 package com.peternaggschga.gwent.ui.introduction;
00002
00003 import androidx.annotation.NonNull:
00004 import androidx.fragment.app.Fragment;
00005 import androidx.fragment.app.FragmentActivity;
00006 import androidx.viewpager2.adapter.FragmentStateAdapter;
00007
{\tt 00012~public~class~SectionsPagerAdapter~extends~FragmentStateAdapter~\{}
00018
         public SectionsPagerAdapter(@NonNull FragmentActivity fragmentActivity) {
00019
             super(fragmentActivity);
00020
00021
00027
         @Override
00028
          public int getItemCount() {
00029
            return IntroductionFragment PAGES_COUNT;
00030
00037
          @NonNull
00038
          @Override
00039
          public Fragment createFragment(int position) {
00040
              return IntroductionFragment.newInstance(position);
00041
00042 }
```

6.44 FactionSwitchListener.java

```
00001 package com.peternaggschga.gwent.ui.main;
00003 import android.content.Context;
00004 import android.content.SharedPreferences;
00005 import android.content.res.TypedArray;
00006 import android.os.Build:
00007 import android.view.Window;
00008 import android.widget.ImageButton;
00009 import android.widget.ImageView;
00010 import android.widget.TextView;
00011
00012 import androidx.annotation.NonNull;
00013 import androidx.annotation.Nullable;
00014 import androidx.constraintlayout.widget.ConstraintLayout;
00015 import androidx.preference.PreferenceManager;
00016
00017 import com.peternaggschga.gwent.R;
00018
00019 import org.jetbrains.annotations.Contract;
00021 import java.util.ArrayList;
00022 import java.util.List;
00023
00031 \ \texttt{public class} \ \textbf{FactionSwitchListener} \ \texttt{implements} \ \texttt{SharedPreferences.OnSharedPreferenceChangeListener} \ \{\texttt{SharedPreferences.OnSharedPreferenceChangeListener} \} \ \texttt{SharedPreferences.OnSharedPreferenceChangeListener} \} \ \texttt{SharedPreferences.OnSharedPreferenceChangeListener} \} \ \texttt{SharedPreferenceSharedPreferenceChangeListener} \} \ \texttt{SharedPreferenceSharedPreferenceChangeListener} \} \ \texttt{SharedPreferenceSharedPreferenceChangeListener} \} \ \texttt{SharedPreferenceChangeListener} \} \ \texttt{SharedPreferenceChange
00035
                               @NonNull
                                public static final String THEME_PREFERENCE_KEY = "theme";
00037
00041
                                public static final int THEME_MONSTER = 0;
00042
                                public static final int THEME NILFGAARD = 1;
00046
00047
```

```
public static final int THEME_NORTHERN_KINGDOMS = 2;
00052
00056
          public static final int THEME_SCOIATAEL = 3;
00057
00065
          @NonNull1
00066
          private final List<ImageView> ballViews;
00067
00075
00076
          private final List<ImageView> cardViews;
00077
00085
          @NonNull
00086
          private final List<TextView> unitViews:
00087
00095
00096
          private final ImageButton factionButton;
00097
          private FactionSwitchListener(@NonNull List<ImageView> ballViews, @NonNull List<ImageView>
00108
      cardViews,
                                         @NonNull List<TextView> unitViews, @NonNull ImageButton
      factionButton) {
00110
              this.ballViews = ballViews;
              this.cardViews = cardViews;
this.unitViews = unitViews;
00111
00112
00113
              this.factionButton = factionButton;
00114
          }
00115
00122
          @NonNull
00123
          @Contract("_ -> new")
          public static FactionSwitchListener getListener(@NonNull Window mainWindow) {
00124
              List<ImageView> ballViews = new ArrayList<>(4);
List<ImageView> cardViews = new ArrayList<>(3);
00125
00126
00127
              List<TextView> unitViews = new ArrayList<>(3);
00128
00129
              for (int id : new int[]{R.id.firstRow, R.id.secondRow, R.id.thirdRow}) {
00130
                  ConstraintLayout rowLayout = mainWindow.findViewById(id);
00131
00132
                  ballViews.add(rowLayout.findViewById(R.id.pointBall));
                  cardViews.add(rowLayout.findViewById(R.id.cardsImage));
00133
00134
                  unitViews.add(rowLayout.findViewById(R.id.cardCountView));
00135
00136
              ballViews.add(mainWindow.findViewById(R.id.overallPointBall));
00137
00138
00139
              return new FactionSwitchListener(ballViews, cardViews, unitViews,
     mainWindow.findViewById(R.id.factionButton));
00140
00141
          public static void setTheme(@NonNull Context context) {
00148
00149
              switch (PreferenceManager.getDefaultSharedPreferences(context)
00150
                       .getInt(THEME_PREFERENCE_KEY, THEME_SCOIATAEL)) {
                  case THEME_MONSTER:
00151
00152
                       context.setTheme(R.style.MonsterTheme);
                       break;
00153
00154
                  case THEME_NILFGAARD:
                      context.setTheme(R.style.NilfgaardTheme);
00155
00156
                      break;
                  case THEME_NORTHERN_KINGDOMS:
00158
                       context.setTheme(R.style.NorthernKingdomsTheme);
00159
                       break;
00160
                  case THEME SCOIATAEL:
00161
                  default:
00162
                       context.setTheme(R.style.ScoiataelTheme);
00163
              }
00164
          }
00165
00175
          @Override
00176
          public void onSharedPreferenceChanged(SharedPreferences sharedPreferences, @Nullable String key) {
              if (!THEME_PREFERENCE_KEY.equals(key)) {
00177
00178
                   return:
00179
              }
00180
00181
              Context context = factionButton.getContext();
00182
00183
              switch (sharedPreferences.getInt(key, THEME_SCOIATAEL)) {
00184
                  case THEME_MONSTER:
00185
                       context.setTheme(R.style.MonsterTheme);
00186
00187
                  case THEME_NILFGAARD:
00188
                       context.setTheme(R.style.NilfgaardTheme);
00189
                      break:
                  case THEME_NORTHERN_KINGDOMS:
00190
00191
                      context.setTheme(R.style.NorthernKingdomsTheme);
00192
00193
                  case THEME_SCOIATAEL:
00194
                  default:
00195
                       context.setTheme(R.style.ScoiataelTheme);
00196
              }
```

```
00197
00198
             int ballImageRes;
             int cardImageRes;
00199
00200
             int unitNumberTextColor;
             int factionButtonImageRes;
00201
             if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.S) {
00202
00203
                 try (TypedArray attributeValues :
     context.getTheme().obtainStyledAttributes(R.styleable.theme)) {
00204
                    ballImageRes = attributeValues.getResourceId(R.styleable.theme_point_ball_mipmap,
     R.drawable.ball_green);
00205
                    cardImageRes = attributeValues.getResourceId(R.styleable.theme_card_view_mipmap,
     00206
     context.getColor(R.color.color_text_scoiatael));
00207
                    factionButtonImageRes =
     attributeValues.getResourceId(R.styleable.theme_android_alertDialogIcon,
     R.drawable.icon_round_scoiatael);
00208
00209
             } else {
00210
                 //noinspection resource
                TypedArray attributeValues = context.getTheme().obtainStyledAttributes(R.styleable.theme);
00211
00212
                ballImageRes = attributeValues.getResourceId(R.styleable.theme_point_ball_mipmap,
     R.drawable.ball_green);
00213
                cardImageRes = attributeValues.getResourceId(R.styleable.theme_card_view_mipmap,
     R.drawable.card_scoiatael_landscape_free);
                unitNumberTextColor = attributeValues.getColor(R.styleable.theme_colorPrimary,
     context.getColor(R.color.color_text_scoiatael));
00215
                factionButtonImageRes =
     R.drawable.icon_round_scoiatael);
00216
                attributeValues.recycle();
00217
00218
00219
             ballViews.forEach(view -> ImageViewSwitchAnimator.animatedSwitch(view,
     ballImageRes).subscribe());
00220
             cardViews.forEach(view -> ImageViewSwitchAnimator.animatedSwitch(view,
     cardImageRes).subscribe());
00221
            unitViews.forEach(textView -> textView.setTextColor(unitNumberTextColor));
00222
             Image View Switch Animator. an imated Switch (faction Button, faction Button Image Res). subscribe(); \\
00223
00224 }
```

6.45 GameBoardViewModel.java

```
00001 package com.peternaggschga.gwent.ui.main;
00002
00003 \ \texttt{import static and roidx.lifecycle.ViewModelProvider.And roidViewModelFactory.APPLICATION\_KEY;}
00004
00005 import android.content.Context;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.lifecycle.AndroidViewModel;
00009 import androidx.lifecycle.ViewModelProvider;
00010 import androidx.lifecycle.ViewModelStoreOwner;
00011 import androidx.lifecycle.viewmodel.ViewModelInitializer;
00012
00013 import com.peternaggschga.gwent.GwentApplication;
00014 import com.peternaggschga.gwent.data.RowType;
00015 import com.peternaggschga.gwent.data.UnitRepository;
00016 import com.peternaggschga.gwent.domain.cases.BurnDialogUseCase;
00018 import com.peternaggschga.gwent.domain.cases.ResetDialogUseCase;
{\tt 00019 \ import \ com.peternaggschga.gwent.domain.damage.DamageCalculator;}
{\tt 00020~import~com.peternaggschga.gwent.ui.sounds.SoundManager;}
00021
00022 import java.util.HashMap;
00023 import java.util.Map;
00024 import java.util.Objects;
00025 import java.util.concurrent.TimeUnit;
00026
00027 import io.reactivex.rxjava3.android.schedulers.AndroidSchedulers;
00028 import io.reactivex.rxjava3.core.Completable;
00029 import io.reactivex.rxjava3.core.Flowable;
00030 import io.reactivex.rxjava3.core.Single;
00031 import io.reactivex.rxjava3.schedulers.Schedulers;
00032
00038 public class GameBoardViewModel extends AndroidViewModel {
00044
         private static final ViewModelInitializer<GameBoardViewModel> INITIALIZER = new
     ViewModelInitializer<>(
00046
                 GameBoardViewModel.class,
00047
                 creationExtras -> {
00048
                     GwentApplication app = (GwentApplication) creationExtras.get(APPLICATION_KEY);
00049
                     assert app != null;
00050
                     return new GameBoardViewModel(app);
```

```
});
00052
00060
          private GameBoardViewModel(@NonNull GwentApplication application) {
00061
              super (application);
00062
00063
00070
          @NonNull
00071
          private final Map<RowType, Flowable<RowUiState» rowUiStates = new</pre>
     HashMap<> (RowType.values().length);
00072
00079
          @NonNull
00080
          private Flowable<MenuUiState> menuUiState = Flowable.empty();
00081
00085
          private SoundManager soundManager;
00086
00097
          @NonNull1
          public static GameBoardViewModel getModel(@NonNull ViewModelStoreOwner owner,
00098
00099
                                                      @NonNull UnitRepository repository,
                                                      @NonNull SoundManager soundManager) {
00100
00101
              GameBoardViewModel result = new ViewModelProvider(owner,
      ViewModelProvider.Factory.from(INITIALIZER))
00102
                       .get(GameBoardViewModel.class);
00103
00104
              for (RowType row : RowType.values()) {
00105
                  result.rowUiStates.put(row,
                          Flowable.combineLatest(repository.isWeatherFlowable(row),
00106
00107
                                   repository.isHornFlowable(row),
00108
                                   repository.getUnitsFlowable(row),
00109
                                   (weather, horn, units) -> {
                                       DamageCalculator calculator =
00110
      DamageCalculatorUseCase.getDamageCalculator(weather, horn, units);
00111
                                       int damage = units.stream()
00112
                                               .map(unitEntity -> unitEntity.calculateDamage(calculator))
00113
                                                .reduce(0, Integer::sum);
00114
                                       return new RowUiState(damage, weather, horn, units.size());
00115
                                   })
00116
                                   .distinctUntilChanged()
00117
                                   .onBackpressureLatest()
00118
                                   .debounce(10, TimeUnit.MILLISECONDS)
00119
                                   .subscribeOn(Schedulers.io())
00120
                                   .observeOn(AndroidSchedulers.mainThread())
00121
                  );
00122
              }
00123
00124
              Flowable<MenuUiState> combinedRowStates = Flowable.combineLatest(result.rowUiStates.values(),
     (Object[] rowUiStates) ->
00125
                  int damage = 0;
00126
                  boolean reset = false;
00127
                  boolean weather = false;
00128
                  for (Object state : rowUiStates) {
                       RowUiState rowUiState = (RowUiState) state;
damage += rowUiState.getDamage();
00129
00130
00131
                       reset |= rowUiState.isHorn() || rowUiState.getUnits() != 0;
00132
                       weather |= rowUiState.isWeather();
00133
00134
                  reset |= weather;
00135
                   return new MenuUiState(damage, reset, weather, false);
00136
              }).distinctUntilChanged().onBackpressureLatest();
00137
00138
              result.menuUiState = Flowable.combineLatest(combinedRowStates,
                               repository.hasNonEpicUnitsFlowable(),
00139
00140
                               (menuUiState, hasNonEpicUnits) -> new MenuUiState(menuUiState.getDamage(),
00141
                                       menuUiState.isReset(),
00142
                                       menuUiState.isWeather(),
00143
                                       hasNonEpicUnits))
00144
                       .distinctUntilChanged()
00145
                       .onBackpressureLatest()
                       .debounce(10, TimeUnit.MILLISECONDS)
00146
                       .subscribeOn(Schedulers.io())
00147
00148
                       .observeOn(AndroidSchedulers.mainThread());
00149
00150
              result.soundManager = soundManager;
00151
              return result;
00152
          }
00153
00161
          private Single<UnitRepository> getRepository() {
00162
              return GwentApplication.getRepository(getApplication());
00163
00164
00172
          @NonNull1
00173
          public Flowable<RowUiState> getRowUiState(@NonNull RowType row) {
00174
              return Objects.requireNonNull(rowUiStates.get(row));
00175
00176
00184
          @NonNull
          public Flowable<MenuUiState> getMenuUiState() {
00185
00186
              return menuUiState:
```

```
00187
                     }
00188
00194
                     @NonNull
00195
                     public SoundManager getSoundManager() {
00196
                            return soundManager;
00197
00198
00206
                     @NonNull
00207
                    public Completable onWeatherViewPressed(@NonNull RowType row) {
00208
                             return getRepository()
                                              .flatMap(repository -> repository
00209
00210
                                                              .switchWeather(row)
00211
                                                               .andThen(repository.isWeather(row)))
00212
                                               .doOnSuccess(weather -> {
00213
                                                      if (weather) {
00214
                                                               soundManager.playWeatherSound(row);
00215
00216
                                              })
                                               .ignoreElement();
00218
00219
00227
                    public Completable onHornViewPressed(@NonNull RowType row) {
00228
                          return getRepository()
                                               .flatMap(repository -> repository
00229
00230
                                                               .switchHorn(row)
00231
                                                               .andThen(repository.isHorn(row)))
00232
                                               .doOnSuccess(horn -> {
00233
                                                      if (horn) {
00234
                                                               soundManager.playHornSound();
00235
00236
                                              })
00237
                                               .ignoreElement();
00238
00239
00249
                     @NonNull
                     public Completable onResetButtonPressed(@NonNull Context context) {
00250
00251
                            return reset(context, ResetDialogUseCase.Trigger.BUTTON_CLICK);
00253
00262
                     @NonNull
00263
                    public Completable onFactionSwitchReset(@NonNull Context context) {
00264
                            return reset(context, ResetDialogUseCase.Trigger.FACTION_SWITCH);
00265
00266
00275
00276
                    private Completable reset(@NonNull Context context, @NonNull ResetDialogUseCase.Trigger trigger) {
00277
                             return ResetDialogUseCase
00278
                                              .reset(context, trigger, soundManager)
00279
                                               .doOnSuccess(playSound -> {
00280
                                                      if (playSound) {
00281
                                                               soundManager.playResetSound();
00282
00283
                                              })
00284
                                               .ignoreElement();
00285
00286
00294
                     @NonNull
00295
                    public Completable onWeatherButtonPressed() {
00296
            {\tt getRepository} \ () \ . {\tt flatMapCompletable} \ ({\tt UnitRepository::clearWeather}) \ . \\ {\tt doOnComplete} \ ({\tt soundManager::playClearWeatherSound}) \ ; \\ {\tt flatMapCompletable} \ ({\tt UnitRepository::clearWeather}) \ . \\ {\tt doOnComplete} \ ({\tt soundManager::playClearWeatherSound}) \ ; \\ {\tt flatMapCompletable} \ ({\tt UnitRepository::clearWeather}) \ . \\ {\tt doOnComplete} \ ({\tt soundManager::playClearWeatherSound}) \ ; \\ {\tt flatMapCompletable} \ ({\tt UnitRepository::clearWeather}) \ . \\ {\tt doOnComplete} \ ({\tt soundManager::playClearWeatherSound}) \ ; \\ {\tt flatMapCompletable} \ ({\tt UnitRepository::clearWeather}) \ . \\ {\tt flatMapCompletable} \ . \\ {\tt flatMapCompletabl
00297
00298
00309
                     @NonNull
                    public Completable onBurnButtonPressed(@NonNull Context context) {
00311
                             return BurnDialogUseCase
00312
                                               .burn(context, soundManager)
00313
                                               .doOnSuccess(playSound -> {
00314
                                                       if (playSound) {
00315
                                                               soundManager.playBurnSound();
00317
                                              })
00318
                                               .ignoreElement();
00319
                     }
00320 }
```

6.46 ImageViewSwitchAnimator.java

```
00001 package com.peternaggschga.gwent.ui.main;

00002

00003 import android.view.ViewGroup;

00004 import android.view.animation.Animation;

00005 import android.view.animation.AnimationUtils;

00006 import android.widget.ImageView;

00007

00008 import androidx.annotation.DrawableRes;
```

```
00009 import androidx.annotation.NonNull;
00010 import androidx.constraintlayout.widget.ConstraintLayout;
00011
00012 import io.reactivex.rxjava3.core.Completable;
00013
00020 public class ImageViewSwitchAnimator {
          @NonNull
00027
          private static ImageView getOverlayView(@NonNull ImageView template) {
00028
              ImageView result = new ImageView(template.getContext());
00029
              ViewGroup.LayoutParams oldParams = template.getLayoutParams();
             ConstraintLayout.LayoutParams newParams = new ConstraintLayout.LayoutParams(oldParams.width,
00030
     oldParams.height);
00031
              newParams.topToTop = template.getId();
              newParams.endToEnd = template.getId();
00032
00033
              newParams.startToStart = template.getId();
00034
              newParams.bottomToBottom = template.getId();
00035
              result.setLavoutParams(newParams);
              result.setImageDrawable(template.getDrawable());
result.setScaleType(template.getScaleType());
00036
00038
              result.setTranslationZ(template.getTranslationZ() + 1);
00039
00040
          }
00041
00052
          @NonNull1
00053
          public static Completable animatedSwitch (@NonNull ImageView view, @DrawableRes int resId) {
           return Completable.create(emitter -> {
                  Animation fadeAnimation = AnimationUtils.loadAnimation(view.getContext(),
00055
     android.R.anim.fade_out);
00056
                  ImageView foregroundView = getOverlayView(view);
00057
                  ViewGroup parent = (ViewGroup) view.getParent();
00058
00059
                  fadeAnimation.setAnimationListener(new Animation.AnimationListener() {
00060
                       @Override
00061
                       public void onAnimationStart(Animation animation) {
00062
                           view.setImageResource(resId);
00063
00064
00065
                       @Override
00066
                      public void onAnimationEnd(Animation animation) {
00067
                         parent.removeView(foregroundView);
00068
                           emitter.onComplete();
00069
00070
00071
                       @Override
00072
                       public void onAnimationRepeat(Animation animation) {
00073
00074
                  });
00075
00076
                  parent.addView(foregroundView);
00077
                  foregroundView.startAnimation(fadeAnimation);
00078
              });
00079
          }
00080 }
```

6.47 MainActivity.java

```
00001 package com.peternaggschga.gwent.ui.main;
00002
00003 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_PREFERENCE_KEY;
00004 import static com.peternaggschga.gwent.ui.main.FactionSwitchListener.THEME_SCOIATAEL;
00005
00006 import android.app.Dialog;
00007 import android.content.Context;
00008 import android.content.Intent:
00009 import android.content.SharedPreferences;
00010 import android.os.Bundle;
00011 import android.os.Handler;
00012 import android.os.Looper;
00013 import android.view.View;
00014 import android.view.WindowManager;
00015 import android.widget.ImageButton;
00016 import android.widget.ImageView;
00017
00018 import androidx.annotation.NonNull;
00019 import androidx.annotation.Nullable;
00020 import androidx.appcompat.app.AppCompatActivity;
00021 import androidx.constraintlayout.widget.ConstraintLayout;
00022 import androidx.core.view.WindowCompat;
00023 import androidx.core.view.WindowInsetsCompat;
00024 import androidx.core.view.WindowInsetsControllerCompat;
00025 import androidx.preference.PreferenceManager;
00026
00027 import com.peternaggschga.gwent.GwentApplication;
00028 import com.peternaggschga.gwent.R;
00029 import com.peternaggschga.gwent.data.RowType;
```

6.47 MainActivity.java 241

```
00030 import com.peternaggschga.gwent.ui.dialogs.ChangeFactionDialog;
00031 import com.peternaggschga.gwent.ui.dialogs.CoinFlipDialog;
00032 import com.peternaggschga.gwent.ui.dialogs.OverlayDialog;
{\tt 00033~import~com.peternaggschga.gwent.ui.dialogs.addcard.AddCardDialog;}
00034 import com.peternaggschga.gwent.ui.dialogs.cards.ShowUnitsDialog;
00035 import com.peternaggschga.gwent.ui.introduction.IntroductionActivity;
00036 import com.peternaggschga.gwent.ui.settings.SettingsActivity;
00037 import com.peternaggschga.gwent.ui.sounds.SoundManager;
00038
00039 import io.reactivex.rxjava3.core.Single;
00040 import io.reactivex.rxjava3.disposables.CompositeDisposable;
00041 import io.reactivex.rxjava3.functions.Function;
00042
00046 public class MainActivity extends AppCompatActivity {
00051
          @NonNull
00052
          private final CompositeDisposable disposables = new CompositeDisposable();
00053
00061
          private SharedPreferences.OnSharedPreferenceChangeListener factionSwitchListener;
00062
00066
          private GameBoardViewModel gameBoardViewModel;
00067
00082
          @Override
00083
          protected void onCreate(@Nullable Bundle savedInstanceState) {
00084
              super.onCreate(savedInstanceState);
00085
00086
              SharedPreferences preferences = PreferenceManager.getDefaultSharedPreferences(this);
00087
00088
              if (preferences.getBoolean(getString(R.string.preference_first_use_key), true)) {
00089
                   startActivity(new Intent(this, IntroductionActivity.class));
00090
00091
00092
              FactionSwitchListener.setTheme(this);
00093
              setContentView(R.layout.activity_main);
00094
00095
              if (gameBoardViewModel == null) {
00096
                   disposables.add(
00097
                           GwentApplication.getRepository(this)
00098
                                    .map(repository ->
00099
                                            GameBoardViewModel.getModel(MainActivity.this,
00100
                                                    repository,
00101
                                                     new SoundManager(this)))
                                    .subscribe(gameBoardViewModel -> {
   this.gameBoardViewModel = gameBoardViewModel;
00102
00103
00104
                                        initializeViewModel();
00105
00106
                  );
00107
              }
00108
00109
              if (factionSwitchListener == null) {
00110
                   factionSwitchListener = FactionSwitchListener.getListener(getWindow());
00111
                  preferences.registerOnSharedPreferenceChangeListener(factionSwitchListener);
00112
00113
              findViewById(R.id.factionButton).setOnClickListener(v -> inflateFactionPopup());
findViewById(R.id.coinButton).setOnClickListener(v -> inflateCoinFlipPopup());
00114
00115
              findViewById(R.id.settingsButton).setOnClickListener(v -> startActivity(new
00116
     Intent(MainActivity.this, SettingsActivity.class)));
00117
         }
00118
00123
          @Override
00124
          protected void onResume() {
00125
              super.onResume();
00126
               // set background image according to preferences
              int backgroundImageKey = Integer.parseInt(
00127
00128
                       PreferenceManager.getDefaultSharedPreferences(this)
00129
                               .getString(getString(R.string.preference_key_design),
00130
                                        getString(R.string.design_preference_default))
00131
00132
              ImageView backgroundImage = findViewById(R.id.backgroundImageView);
              if (backgroundImageKey != 0) {
00133
00134
                   backgroundImage.setVisibility(View.VISIBLE);
00135
                  backgroundImage.setImageResource(new int[]{
00136
                           R.drawable.background_geralt,
00137
                           R.drawable.background_ciri,
00138
                           R.drawable.background jaskier,
00139
                           R.drawable.background_yennefer,
00140
                           R.drawable.background_eredin
00141
                   }[backgroundImageKey - 1]);
00142
              } else {
00143
                  backgroundImage.setVisibility(View.INVISIBLE);
00144
00145
          }
00146
00153
          @Override
00154
          public void onWindowFocusChanged(boolean hasFocus) {
00155
              super.onWindowFocusChanged(hasFocus);
00156
```

```
if (hasFocus) {
                  new Handler(Looper.getMainLooper()).postDelayed(() -> {
00158
00159
                      if (!hasWindowFocus()) {
00160
                          return;
00161
00162
                      // hide system UI
00163
                      WindowInsetsControllerCompat windowController =
00164
      \label{thm:prop:controller} \verb|Window(), getWindow().getDecorView()); \\
00165
                      windowController.hide(WindowInsetsCompat.Type.systemBars());
                      \verb|windowController.hide(WindowInsetsCompat.Type.tappableElement())|;\\
00166
00167
      windowController.setSystemBarsBehavior(WindowInsetsControllerCompat.BEHAVIOR SHOW TRANSIENT BARS BY SWIPE);
00168
00169
                      // keep screen on
00170
                      getWindow().addFlags(WindowManager.LayoutParams.FLAG_KEEP_SCREEN_ON);
                  }, 250);
00171
00172
              }
00173
         }
00174
00179
          @Override
00180
          protected void onDestroy() {
00181
              super.onDestroy();
00182
              disposables.dispose();
00183
              disposables.clear();
00184
         }
00185
00191
         private void initializeViewModel() {
00192
              int[] rowIds = {R.id.firstRow, R.id.secondRow, R.id.thirdRow};
              for (int rowId = 0; rowId < rowIds.length; rowId++) {</pre>
00193
                  RowType row = RowType.values()[rowId];
00194
00195
                  ConstraintLayout rowLayout = findViewById(rowIds[rowId]);
00196
00197
                  ImageView weather = rowLayout.findViewById(R.id.weatherView);
00198
                  ImageView horn = rowLayout.findViewById(R.id.hornView);
                  ConstraintLayout cards = rowLayout.findViewById(R.id.cardView);
00199
00200
00201
                  weather.setOnClickListener(v ->
00202
                          disposables.add(gameBoardViewModel.onWeatherViewPressed(row).subscribe()));
00203
                  horn.setOnClickListener(v ->
00204
                          disposables.add(gameBoardViewModel.onHornViewPressed(row).subscribe()));
00205
                  cards.setOnClickListener(v -> disposables.add(
00206
00207
                          GwentApplication.getRepository(this)
                                   .flatMap(repository -> repository.countUnits(row))
00208
                                   .map(count -> count == 0)
00209
00210
                                   .flatMap((Function<Boolean, Single<? extends OverlayDialog») rowEmpty ->
                                           rowEmpty
? Single.just(new AddCardDialog(MainActivity.this, row,
00211
00212
      gameBoardViewModel.getSoundManager()))
00213
                                                   : ShowUnitsDialog.getDialog(MainActivity.this, row,
      gameBoardViewModel.getSoundManager()))
00214
                                  .subscribe(Dialog::show)
00215
                  ));
00216
00217
                  final RowUiStateObserver observer = RowUiStateObserver.getObserver(row,
                          rowLayout.findViewById(R.id.pointView),
00218
00219
00220
                          horn,
00221
                          rowLayout.findViewById(R.id.cardCountView));
00222
                  disposables.add(gameBoardViewModel.getRowUiState(row).subscribe(observer));
00223
              }
00224
00225
              ImageButton reset = findViewById(R.id.resetButton);
00226
              ImageButton weather = findViewById(R.id.weatherButton);
00227
              ImageButton burn = findViewById(R.id.burnButton);
00228
              final MenuUiStateObserver observer = new
00229
     MenuUiStateObserver(findViewById(R.id.overallPointView),
00230
                      reset,
00231
                      weather,
00232
                      burn);
00233
              disposables.add(gameBoardViewModel.getMenuUiState().subscribe(observer));
00234
00235
              reset.setOnClickListener(v ->
00236
                      disposables.add(gameBoardViewModel.onResetButtonPressed(this).subscribe()));
00237
              weather.setOnClickListener(v ->
00238
                      disposables.add(gameBoardViewModel.onWeatherButtonPressed().subscribe()));
00239
              burn.setOnClickListener(v ->
00240
     disposables.add(gameBoardViewModel.onBurnButtonPressed(MainActivity.this).subscribe()));
00241
00242
00250
          private void inflateFactionPopup() {
00251
              new ChangeFactionDialog(this, theme -> {
                  SharedPreferences preferences = PreferenceManager.getDefaultSharedPreferences(this);
00252
00253
```

6.48 MenuUiState.java 243

```
if (preferences.getInt(THEME_PREFERENCE_KEY, THEME_SCOIATAEL) == theme) {
00255
00256
00257
                  boolean resetOnFactionSwitch = preferences.getBoolean(
00258
00259
                          getString(R.string.preference key faction reset).
                          getResources().getBoolean(R.bool.faction_reset_preference_default)
00261
00262
                  if (resetOnFactionSwitch) {
00263
                      disposables.add(gameBoardViewModel.onFactionSwitchReset(this).subscribe());
00264
00265
                  preferences.edit()
00266
                          .putInt(THEME_PREFERENCE_KEY, theme)
00267
                          .apply();
00268
              }).show();
00269
         }
00270
00274
         private void inflateCoinFlipPopup() {
             new CoinFlipDialog(this).show();
00276
             gameBoardViewModel.getSoundManager().playCoinSound();
00277
00278 }
```

6.48 MenuUiState.java

```
00001 package com.peternaggschga.gwent.ui.main;
00002
00003
00004
00005 import androidx.annotation.IntRange;
00006
00010 public class MenuUiState {
00014
         @IntRange(from = 0)
         private final int damage;
00015
00016
00020
         private final boolean reset;
00021
00025
         private final boolean weather;
00026
00030
         private final boolean burn;
00031
         public MenuUiState(@IntRange(from = 0) int damage, boolean reset, boolean weather, boolean burn) {
00042
            if (damage < 0) {</pre>
00043
                  throw new IllegalArgumentException("Damage must be greater or equal to 0 but is " + damage
     + ".");
00044
00045
             this.damage = damage;
             this.reset = reset;
00047
              this.weather = weather;
00048
             this.burn = burn;
00049
         }
00050
          @IntRange(from = 0)
00056
         public int getDamage() {
00058
            return damage;
00059
00060
          public boolean isReset() {
00066
00067
             return reset;
00068
00069
00075
          public boolean isWeather() {
00076
            return weather;
00077
00078
00084
         public boolean isBurn() {
00085
            return burn;
00086
00087
00088
         @Override
         public boolean equals(Object o) {
00089
             if (this == o) return true;
00090
              if (!(o instanceof MenuUiState)) return false;
00092
              MenuUiState that = (MenuUiState) o;
00093
              return damage == that.damage && reset == that.reset && weather == that.weather && burn ==
     that burn;
00094
00095 }
```

6.49 MenuUiStateObserver.java

00001 package com.peternaggschga.gwent.ui.main;

```
00003 import android.widget.ImageButton;
00004 import android.widget.TextView;
00005
00006 import androidx.annotation.NonNull;
00007
00008 import com.peternaggschga.gwent.R;
00009
00010 import io.reactivex.rxjava3.functions.Consumer;
00011
00018 public class MenuUiStateObserver implements Consumer<MenuUiState> {
00022
          @NonNull
          private final TextView damageView;
00024
00030
          @NonNull
00031
          private final ImageButton resetButton;
00032
00037
          @NonNull
00038
          private final ImageButton weatherButton;
00039
00044
          @NonNull1
00045
          private final ImageButton burnButton;
00046
          public MenuUiStateObserver(@NonNull TextView damageView, @NonNull ImageButton resetButton,
00055
00056
                                      @NonNull ImageButton weatherButton, @NonNull ImageButton burnButton) {
              this.damageView = damageView;
00057
00058
              this.resetButton = resetButton;
00059
              this.weatherButton = weatherButton;
00060
              this.burnButton = burnButton;
00061
          }
00062
00071
          @Override
00072
          public void accept(@NonNull MenuUiState menuUiState) {
00073
              damageView.setText(String.valueOf(menuUiState.getDamage()));
00074
              resetButton.setClickable(menuUiState.isReset());
00075
              ImageViewSwitchAnimator.animatedSwitch(resetButton, menuUiState.isReset() ?
     R.drawable.icon_reset : R.drawable.icon_reset_grey)
00076
                      .subscribe();
00077
              weatherButton.setClickable(menuUiState.isWeather());
00078
              Image View Switch Animator. animated Switch (weather Button, menu UiState.is Weather ()? ?
      R.drawable.icon_weather : R.drawable.icon_weather_grey)
00079
                      .subscribe();
00080
              burnButton.setClickable(menuUiState.isBurn()):
00081
              ImageViewSwitchAnimator.animatedSwitch(burnButton, menuUiState.isBurn() ? R.drawable.icon_burn
      : R.drawable.icon_burn_grey)
00082
                      .subscribe();
00083
00084 }
```

6.50 RowUiState.java

```
00001 package com.peternaggschga.gwent.ui.main;
00002
00003
00004
00005 import androidx.annotation.IntRange;
00006
00010 public class RowUiState {
00014
          @IntRange(from = 0)
00015
          private final int damage;
00016
00020
          private final boolean weather;
00021
          private final boolean horn;
00025
00026
00030
          @IntRange(from = 0)
00031
          private final int units;
00032
00041
          public RowUiState(@IntRange(from = 0) int damage, boolean weather, boolean horn, @IntRange(from =
      0) int units) {
00042
              if (damage < 0) {
                  throw new IllegalArgumentException("Damage must be greater or equal to 0 but is " + damage
00043
      + ".");
00044
              if (units < 0) {</pre>
00045
                  throw new IllegalArgumentException("Units must be greater or equal to 0 but is " + units +
00046
      ".");
00047
              this.damage = damage;
00048
00049
              this.weather = weather;
00050
              this.horn = horn;
00051
              this.units = units;
00052
          }
00053
00058
          @IntRange(from = 0)
```

```
public int getDamage() {
00060
            return damage;
00061
00062
00067
         return weather;
         public boolean isWeather() {
00068
00070
00075
         public boolean isHorn() {
         return horn;
00076
00077
00078
00083
         @IntRange(from = 0)
00084
         public int getUnits() {
00085
            return units;
00086
00087
00088
         @Override
00089
         public boolean equals(Object o) {
00090
             if (this == o) return true;
00091
              if (!(o instanceof RowUiState)) return false;
00092
              RowUiState state = (RowUiState) o;
              return damage == state.damage && weather == state.weather && horn == state.horn && units ==
00093
     state.units;
00094
00095 }
```

6.51 RowUiStateObserver.java

```
00001 package com.peternaggschga.gwent.ui.main;
00002
00003 import android.widget.ImageView;
00004 import android.widget.TextView;
00005
00006 import androidx.annotation.DrawableRes;
00007 import androidx.annotation.NonNull;
00008
00009 import com.peternaggschga.gwent.R;
00010 import com.peternaggschga.gwent.data.RowType;
00011
00012 import org.jetbrains.annotations.Contract;
00013
00014 import io.reactivex.rxjava3.functions.Consumer;
00015
00022 public class RowUiStateObserver implements Consumer<RowUiState> {
00027
         @NonNull
          private final TextView damageView;
00029
00036
          @NonNull
00037
          private final ImageView weatherView;
00038
00045
          @DrawableRes
00046
          private final int weatherResource;
00047
00054
          @NonNull
00055
          private final ImageView hornView;
00056
00060
          @NonNull
          private final TextView unitView;
00062
00074
          private RowUiStateObserver(@NonNull TextView damageView, @NonNull ImageView weatherView,
00075
                                      @DrawableRes int weatherResource, @NonNull ImageView hornView,
00076
                                      @NonNull TextView unitView) {
00077
              this.damageView = damageView;
00078
              this.weatherView = weatherView;
              this.weatherResource = weatherResource;
              this.hornView = hornView;
this.unitView = unitView;
08000
00081
00082
          }
00083
00097
          @NonNull
00098
          @Contract("_,
                               _, _ -> new")
          public static RowUiStateObserver getObserver(@NonNull RowType row, @NonNull TextView damageView,
00100
                                                        @NonNull ImageView weatherView, @NonNull ImageView
     hornView.
00101
                                                        @NonNull TextView unitView) {
00102
              int weatherResource;
              switch (row)
                 case MELEE:
00104
00105
                     weatherResource = R.drawable.frost_weather;
00106
00107
                  case RANGE:
00108
                      weatherResource = R.drawable.fog weather;
00109
00110
                  case SIEGE:
```

```
weatherResource = R.drawable.rain_weather;
00112
                      break;
00113
                  default:
00114
                      weatherResource = R.drawable.good weather;
00115
00116
              return new RowUiStateObserver(damageView, weatherView, weatherResource, hornView, unitView);
00117
          }
00118
00126
          @Override
          public void accept(@NonNull RowUiState rowUiState) {
00127
00128
              damageView.setText(String.valueOf(rowUiState.getDamage()));
00129
              ImageViewSwitchAnimator.animatedSwitch(weatherView, rowUiState.isWeather() ? weatherResource :
     R.drawable.good weather)
00130
                      .subscribe();
00131
              ImageViewSwitchAnimator.animatedSwitch(hornView, rowUiState.isHorn() ? R.drawable.horn:
      R.drawable.horn_grey)
00132
                      .subscribe();
00133
              unitView.setText(String.valueOf(rowUiState.getUnits()));
00135 }
```

6.52 RuleActivity.java

```
00001 package com.peternaggschga.gwent.ui.settings;
00002
00003 import android.os.Bundle;
00004 import android.text.Html:
00005 import android.view.MenuItem;
00006 import android.widget.TextView;
00007
00008 import androidx.annotation.NonNull;
00009 import androidx.appcompat.app.ActionBar;
00010 import androidx.appcompat.app.AppCompatActivity;
00011
00012 import com.peternaggschga.gwent.R;
00013
00014 import java.util.Objects;
00015
00022 public class RuleActivity extends AppCompatActivity {
00027
                                                         "rule_section";
         public static final String INTENT_EXTRA_TAG =
00028
00036
00037
         public void onCreate(Bundle savedInstanceState) {
00038
              super.onCreate(savedInstanceState);
00039
00040
              setContentView(R.lavout.activity rules);
00041
              RuleSection section = Objects.requireNonNull((RuleSection)
     getIntent().getSerializableExtra(INTENT_EXTRA_TAG));
00043
00044
              setSupportActionBar(findViewById(R.id.rulesToolbar));
00045
00046
              TextView textView = findViewById(R.id.rulesTextView);
00047
00048
              ActionBar actionBar = Objects.requireNonNull(getSupportActionBar());
00049
              actionBar.setDisplayHomeAsUpEnabled(true);
00050
00051
              switch (section) {
00052
                 case GENERAL:
00053
                     textView.setText(Html.fromHtml(getString(R.string.rules_general_text),
00054
                              Html.FROM_HTML_MODE_LEGACY));
00055
                      actionBar.setTitle(R.string.preference_rules_general_title);
00056
                     break:
                  case COURSE:
00057
00058
                     textView.setText(Html.fromHtml(getString(R.string.rules_course_text),
00059
                             Html.FROM_HTML_MODE_LEGACY));
00060
                      actionBar.setTitle(R.string.preference_rules_course_title);
00061
                     break;
00062
                  case FACTIONS:
00063
                     textView.setText(Html.fromHtml(getString(R.string.rules_factions_text),
00064
                              Html.FROM_HTML_MODE_LEGACY));
00065
                      actionBar.setTitle(R.string.preference rules factions title);
00066
00067
                  case COMMANDER:
00068
                      textView.setText(Html.fromHtml(getString(R.string.rules_commander_text),
                             Html.FROM_HTML_MODE_LEGACY));
00069
00070
                      actionBar.setTitle(R.string.preference_rules_commander_title);
00071
00072
                  case CARDS:
00073
                     textView.setText(Html.fromHtml(getString(R.string.rules_cards_text),
00074
                             Html.FROM_HTML_MODE_LEGACY));
00075
                      actionBar.setTitle(R.string.preference_rules_cards_title);
00076
                     break:
00077
                  case CARD_ABILITIES:
                      textView.setText(Html.fromHtml(getString(R.string.rules_card_abilities_text),
```

6.53 RuleSection.java 247

```
00079
                              Html.FROM_HTML_MODE_LEGACY));
00080
                      actionBar.setTitle(R.string.preference_rules_card_abilities_title);
00081
00082
                  case SPECIAL CARDS:
00083
                     textView.setText(Html.fromHtml(getString(R.string.rules_special_cards_text),
00084
                              Html.FROM_HTML_MODE_LEGACY));
                      actionBar.setTitle(R.string.preference_rules_special_cards_title);
00086
00087
          }
00088
00096
          @Override
00097
          public boolean onOptionsItemSelected(@NonNull MenuItem item) {
             if (item.getItemId() == android.R.id.home) {
00098
00099
                  getOnBackPressedDispatcher().onBackPressed();
00100
00101
00102
              return super.onOptionsItemSelected(item);
          }
00103
00104 }
```

6.53 RuleSection.java

```
00001 package com.peternaggschga.gwent.ui.settings;
00006 enum RuleSection {
00010
          GENERAL,
00011
          COURSE,
00015
00016
          FACTIONS,
00021
00025
          COMMANDER,
00026
          CARDS,
00030
00031
00035
          CARD_ABILITIES,
00036
00040
          SPECIAL_CARDS
00041 3
```

6.54 SettingsActivity.java

```
00001 package com.peternaggschga.gwent.ui.settings;
00002
00003 import android.content.SharedPreferences;
00004 import android.os.Bundle;
00005 import android.view.MenuItem;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.annotation.Nullable;
00009 import androidx.appcompat.app.ActionBar;
00010 import androidx.appcompat.app.AppCompatActivity;
00011 import androidx.fragment.app.Fragment;
00012 import androidx.preference.Preference;
{\tt 00013 \ import \ and roidx.preference.PreferenceFragmentCompat;}
00014
00015 import com.peternaggschga.gwent.R;
00016 import com.peternaggschga.gwent.ui.main.FactionSwitchListener;
00017
00018 import java.util.Objects;
00019
00024 public class SettingsActivity extends AppCompatActivity implements
             PreferenceFragmentCompat.OnPreferenceStartFragmentCallback {
00029
                      private static final String CURRENT_FRAGMENT_KEY = "currentFragment";
00030
00037
00038
                       protected void onCreate(@Nullable Bundle savedInstanceState) {
00039
                                 super.onCreate(savedInstanceState):
00040
                                 FactionSwitchListener.setTheme(this);
00041
00042
                                 setContentView(R.layout.activity_settings);
00043
00044
                                 setSupportActionBar(findViewById(R.id.settingsToolbar));
00045
                                 ActionBar actionBar = getSupportActionBar();
if (actionBar != null) {
00046
00047
                                          actionBar.setDisplayHomeAsUpEnabled(true);
00048
00049
00050
                                 Fragment currentFragment = null;
                                 if (savedInstanceState != null) {
00051
                                           \verb|currentFragment| = \verb|getSupportFragmentManager().getFragment(|savedInstanceState|, |savedInstanceState|, |
00052
              CURRENT_FRAGMENT_KEY);
```

```
00054
              currentFragment = currentFragment == null ? new SettingsHeaderFragment() : currentFragment;
00055
              getSupportFragmentManager().beginTransaction()
00056
                      .replace(R.id.settingsFrameLayout, currentFragment)
00057
                       .commit();
00058
          }
00059
00065
00066
          protected void onSaveInstanceState(@NonNull Bundle outState) {
00067
              super.onSaveInstanceState(outState);
00068
00069
              getSupportFragmentManager().getFragments()
00070
                       .stream()
00071
                       .filter(Fragment::isVisible)
00072
                       .findAny()
                       .ifPresent(fragment ->
00073
                               getSupportFragmentManager().putFragment(outState, CURRENT_FRAGMENT_KEY,
00074
      fragment));
00075
00076
00084
          @Override
00085
          public boolean onOptionsItemSelected(@NonNull MenuItem item) {
00086
             if (item.getItemId() == android.R.id.home) {
                  getOnBackPressedDispatcher().onBackPressed();
00087
00088
                  return true;
00089
00090
              return super.onOptionsItemSelected(item);
00091
          }
00092
00101
          @Override
          public boolean onPreferenceStartFragment(@NonNull PreferenceFragmentCompat caller, @NonNull
00102
     Preference pref) {
00103
              // Instantiate the new Fragment
00104
              final Bundle args = pref.getExtras();
00105
00106
              Fragment fragment = getSupportFragmentManager()
                      .getFragmentFactory()
.instantiate(getClassLoader(), Objects.requireNonNull(pref.getFragment()));
00107
00109
              fragment.setArguments(args);
00110
00111
              \ensuremath{//} Replace the existing Fragment with the new Fragment
              getSupportFragmentManager().beginTransaction()
00112
00113
                      .replace(R.id.settingsFrameLayout, fragment)
00114
                       .addToBackStack(null)
00115
                       .commit();
00116
              setTitle(pref.getTitle());
00117
              return true;
00118
          }
00119 }
```

6.55 SettingsHeaderFragment.java

```
00001 package com.peternaggschga.gwent.ui.settings;
00003 import android.content.Intent;
00004 import android.os.Bundle;
00005
00006 import androidx.preference.Preference;
00007 import androidx.preference.PreferenceFragmentCompat;
00008
00009 import com.peternaggschga.gwent.R;
00010 import com.peternaggschga.gwent.ui.introduction.IntroductionActivity;
00011
00012 import java.util.Objects;
00013
00018 public class SettingsHeaderFragment extends PreferenceFragmentCompat {
        @Override
00030
00031
         public void onCreatePreferences(Bundle savedInstanceState, String rootKey) {
00032
             setPreferencesFromResource(R.xml.header_preferences, rootKey);
00033
00034
             Preference introductionPreference =
     Objects.requireNonNull(findPreference(getString(R.string.preference_key_introduction)));
00035
             introductionPreference.setOnPreferenceClickListener(preference -> {
00036
                 startActivity(new Intent(getContext(), IntroductionActivity.class));
00037
00038
             });
         }
00039
00040 }
```

6.56 SettingsRuleFragment.java

00001 package com.peternaggschga.gwent.ui.settings;

```
00002
00003 import static com.peternaggschga.gwent.ui.settings.RuleSection.CARDS;
00004 import static com.peternaggschga.gwent.ui.settings.RuleSection.CARD_ABILITIES;
{\tt 00005 \ import \ static \ com.peternaggschga.gwent.ui.settings.RuleSection.COMMANDER;}
00006 import static com.peternaggschga.gwent.ui.settings.RuleSection.COURSE;
00007 import static com.peternaggschga.gwent.ui.settings.RuleSection.FACTIONS;
00008 import static com.peternaggschga.gwent.ui.settings.RuleSection.GENERAL;
00009 import static com.peternaggschga.gwent.ui.settings.RuleSection.SPECIAL_CARDS;
00010
00011 import android.content.Intent;
00012 import android.os.Bundle;
00013
00014 import androidx.annotation.Keep;
00015 import androidx.annotation.NonNull;
00016 import androidx.preference.Preference;
00017 import androidx.preference.PreferenceFragmentCompat;
00018
00019 import com.peternaggschga.gwent.R;
00021 import org.jetbrains.annotations.Contract;
00022
00023 import java.io.Serializable;
00024 import java.util.Objects;
00025
00030 @Keep
00031 public class SettingsRuleFragment extends PreferenceFragmentCompat {
00041
          @NonNull
          @Contract(pure = true)
00042
00043
          private Preference.OnPreferenceClickListener getSectionClickListener(@NonNull RuleSection section)
00044
              return preference -> {
00045
                 startActivity(
00046
                          new Intent(getContext(), RuleActivity.class)
00047
                                  .putExtra(RuleActivity.INTENT_EXTRA_TAG, section)
00048
00049
                  return true:
00050
              };
00052
00065
          @Override
00066
          public void onCreatePreferences(Bundle savedInstanceState, String rootKey) {
00067
             setPreferencesFromResource(R.xml.rule_preferences, rootKey);
00068
00069
             Preference rulesGeneral =
      Objects.requireNonNull(findPreference(getString(R.string.preference_rules_general_key)));
00070
              rulesGeneral.setOnPreferenceClickListener(getSectionClickListener(GENERAL));
00071
00072
              Preference rulesCourse =
      Objects.requireNonNull(findPreference(getString(R.string.preference rules course kev)));
00073
             rulesCourse.setOnPreferenceClickListener(getSectionClickListener(COURSE));
00074
              Preference ruleFactions =
      Objects.requireNonNull(findPreference(getString(R.string.preference_rules_factions_key)));
00076
              ruleFactions.setOnPreferenceClickListener(getSectionClickListener(FACTIONS));
00077
00078
              Preference rulesCommander =
      Objects.requireNonNull(findPreference(getString(R.string.preference_rules_commander_key)));
00079
              rulesCommander.setOnPreferenceClickListener(getSectionClickListener(COMMANDER));
00080
00081
              Preference rulesCards =
      Objects.requireNonNull(findPreference(getString(R.string.preference rules cards key)));
00082
              rulesCards.setOnPreferenceClickListener(getSectionClickListener(CARDS));
00083
              Preference ruleCardAbilities :
      Objects.requireNonNull(findPreference(getString(R.string.preference_rules_card_abilities_key)));
00085
              \verb|ruleCardAbilities.setOnPreferenceClickListener(getSectionClickListener(CARD\_ABILITIES))|; \\
00086
00087
              Preference rulesSpecialCards =
      Objects.requireNonNull(findPreference(getString(R.string.preference_rules_special_cards_key)));
00088
              rulesSpecialCards.setOnPreferenceClickListener(getSectionClickListener(SPECIAL_CARDS));
00089
00090 }
```

6.57 SettingsSoundFragment.java

```
00001 package com.peternaggschga.gwent.ui.settings;
00002
00003 import android.os.Bundle;
00004
00005 import androidx.annotation.Keep;
00006 import androidx.preference.Preference;
00007 import androidx.preference.PreferenceFragmentCompat;
00008
00009 import com.peternaggschga.gwent.R;
```

6.58 Sound.java

```
00001 package com.peternaggschga.gwent.ui.sounds;
00002
00003 import android.content.Context;
00004 import android.content.SharedPreferences;
00005 import android.media.SoundPool;
00006
00007 import androidx.annotation.NonNull;
00008 import androidx.annotation.RawRes;
00009 import androidx.annotation.StringRes;
00010 import androidx.preference.PreferenceManager;
00011
00012 import com.peternaggschga.gwent.R;
00014 import org.jetbrains.annotations.Contract;
00015
00020 class Sound {
00026
          @NonNulll
          private final String preferenceKey;
00027
00028
          private final int soundId;
00033
00037
          private boolean activated;
00038
          private Sound(@NonNull String preferenceKey, int soundId, boolean activated) {
00048
00049
              this.preferenceKey = preferenceKey;
00050
              this.soundId = soundId;
00051
              this.activated = activated;
00052
00053
00067
          @NonNull
00068
          @Contract("_, _, _, -> new")
          static Sound createSound(@NonNull Context context, @StringRes int preferenceRes,
00070
                                   @NonNull SoundPool soundPool, @RawRes int resId) {
00071
              String preferenceKey = context.getString(preferenceRes);
              int soundId = soundPool.load(context, resId, 1);
SharedPreferences pref = PreferenceManager.getDefaultSharedPreferences(context);
00072
00073
00074
              boolean activated = context.getResources().getBoolean(R.bool.sound_preference_default);
              activated = pref.getBoolean(context.getString(R.string.preference_key_sounds_all), activated)
00076
                      && pref.getBoolean(preferenceKey, activated);
00077
              return new Sound(preferenceKey, soundId, activated);
00078
          }
00079
00085
          @NonNull
          String getPreferenceKey() {
00087
             return preferenceKey;
00088
00089
          int getSoundId() {
00095
00096
              return soundId;
00097
00098
00104
          boolean isActivated() {
00105
             return activated;
00106
00107
00114
          void setActivated(boolean activated) {
00115
             this.activated = activated;
00116
00117
          void setActivated(@NonNull SharedPreferences sharedPreferences) {
00124
00125
              setActivated(sharedPreferences.getBoolean(preferenceKey, activated));
00126
00127 }
```

6.59 SoundManager.java

```
00001 package com.peternaggschga.gwent.ui.sounds;
00002
00003 import android.content.Context;
00004 import android.content.SharedPreferences;
00005 import android.media.AudioAttributes;
00006 import android.media.SoundPool;
```

```
00007 import android.os.Build;
00008
00009 import androidx.annotation.IntRange;
00010 import androidx.annotation.NonNull;
00011 import androidx.preference.PreferenceManager;
00012
00013 import com.peternaggschga.gwent.R;
00014 import com.peternaggschga.gwent.data.RowType;
00015
00016 import java.util.Arrays;
00017
00023 public class SoundManager {
00030
          public static final int SOUND_WEATHER_GOOD = 0;
00031
00038
          public static final int SOUND_WEATHER_FROST = 1;
00039
          public static final int SOUND WEATHER FOG = 2:
00046
00047
00054
          public static final int SOUND_WEATHER_RAIN = 3;
00055
          public static final int SOUND_HORN = 4;
00062
00063
          public static final int SOUND CARDS EPIC = 5;
00071
00078
          public static final int SOUND_CARDS_MELEE = 6;
00079
00086
          public static final int SOUND_CARDS_RANGE = 7;
00087
00094
          public static final int SOUND_CARDS_SIEGE = 8;
00095
00102
          public static final int SOUND RESET = 9:
00103
00110
          public static final int SOUND_BURN = 10;
00111
00118
          public static final int SOUND_COIN = 11;
00119
00127
          @NonNull
          private final Sound[] sounds = new Sound[SOUND_COIN + 1];
00129
00133
00134
          private final SoundPool soundPool;
00135
00143
          @NonNulll
00144
          @SuppressWarnings("FieldCanBeLocal")
          private final SharedPreferences.OnSharedPreferenceChangeListener changeListener;
00146
00156
          public SoundManager(@NonNull Context context) {
00157
              AudioAttributes attributes = new AudioAttributes.Builder()
                       .setUsage(AudioAttributes.USAGE GAME)
00158
00159
                       .setContentType(AudioAttributes.CONTENT TYPE SONIFICATION)
00160
                       .build();
00161
00162
              if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.UPSIDE_DOWN_CAKE) {
00163
                  soundPool = new
      SoundPool.Builder().setMaxStreams(5).setAudioAttributes(attributes).setContext(context).build();
00164
             } else {
                  soundPool = new
00165
      SoundPool.Builder().setMaxStreams(5).setAudioAttributes(attributes).build();
00166
             }
00167
00168
              sounds[SOUND WEATHER GOOD] = Sound.createSound(context.
      R.string.preference_key_sounds_weather, soundPool, R.raw.weather_good);
00169
              sounds[SOUND_WEATHER_FROST] = Sound.createSound(context,
      R.string.preference_key_sounds_weather, soundPool, R.raw.weather_frost);
00170
              sounds[SOUND_WEATHER_FOG] = Sound.createSound(context, R.string.preference_key_sounds_weather,
      soundPool, R.raw.weather_fog);
00171
             sounds[SOUND_WEATHER_RAIN] = Sound.createSound(context,
      R.string.preference_key_sounds_weather, soundPool, R.raw.weather_rain);
sounds[SOUND_HORN] = Sound.createSound(context, R.string.preference_key_sounds_horn,
00172
      soundPool, R.raw.horn);
00173
              sounds[SOUND_CARDS_EPIC] = Sound.createSound(context, R.string.preference_key_sounds_cards,
      soundPool, R.raw.card_epic);
00174
              sounds[SOUND_CARDS_MELEE] = Sound.createSound(context, R.string.preference_key_sounds_cards,
      soundPool, R.raw.card_melee);
00175
              sounds[SOUND_CARDS_RANGE] = Sound.createSound(context, R.string.preference_key_sounds_cards,
      soundPool, R.raw.card_range);
00176
              sounds[SOUND_CARDS_SIEGE] = Sound.createSound(context, R.string.preference_key_sounds_cards,
      soundPool, R.raw.card_siege);
00177
              sounds[SOUND_RESET] = Sound.createSound(context, R.string.preference_key_sounds_reset,
      soundPool, R.raw.reset);
             sounds[SOUND_BURN] = Sound.createSound(context, R.string.preference_key_sounds_burn,
00178
      soundPool, R.raw.burn);
              sounds[SOUND_COIN] = Sound.createSound(context, R.string.preference_key_sounds_coin,
00179
      soundPool, R.raw.coin);
00180
              SharedPreferences pref = PreferenceManager.getDefaultSharedPreferences(context);
00181
              changeListener = (sharedPreferences, kev) -> {
00182
```

```
if (context.getResources().getString(R.string.preference_key_sounds_all).equals(key)) {
00184
                      if (sharedPreferences.getBoolean(key,
00185
                              context.getResources().getBoolean(R.bool.sound_preference_default))) {
00186
                          Arrays.stream(sounds).forEach(sound -> sound.setActivated(sharedPreferences));
00187
                      } else {
00188
                         Arrays.stream(sounds).forEach(sound -> sound.setActivated(false));
00189
00190
                  } else {
00191
                     Arrays.stream(sounds)
00192
                              .filter(sound -> sound.getPreferenceKey().equals(key))
00193
                              .forEach(sound -> sound.setActivated(sharedPreferences.getBoolean(key,
00194
                                      context.getResources().getBoolean(R.bool.sound_preference_default))));
00195
                 }
00196
00197
              pref.registerOnSharedPreferenceChangeListener(changeListener);
00198
          }
00199
          public void playSound(@IntRange(from = SOUND_WEATHER_GOOD, to = SOUND_COIN) int soundId) {
00213
00214
             if (sounds[soundId].isActivated()) {
00215
                  soundPool.play(sounds[soundId].getSoundId(), 1, 1, 0, 0, 1);
00216
00217
          }
00218
          public void playClearWeatherSound() {
00225
00226
             playSound (SOUND_WEATHER_GOOD);
00227
00228
00236
         public void playWeatherSound(@NonNull RowType row) {
             switch (row) {
00237
00238
                 case MELEE:
00239
                     playSound(SOUND_WEATHER_FROST);
00240
00241
                  case RANGE:
00242
                     playSound(SOUND_WEATHER_FOG);
00243
                  case SIEGE:
00244
00245
                     playSound(SOUND_WEATHER_RAIN);
             }
00247
         }
00248
00255
         public void playHornSound() {
00256
            playSound(SOUND_HORN);
00257
00258
00268
         public void playCardAddSound(@NonNull RowType row, boolean epic) {
00269
             if (epic) {
                 playSound(SOUND_CARDS_EPIC);
00270
00271
                  return;
00272
00273
              switch (row)
                 case MELEE:
00275
                     playSound(SOUND_CARDS_MELEE);
00276
00277
                  case RANGE:
                     playSound(SOUND_CARDS_RANGE);
00278
00279
00280
                 case SIEGE:
                     playSound(SOUND_CARDS_SIEGE);
00281
00282
             }
00283
         }
00284
          public void playCardRemovedSound() {
00291
00292
             playSound(SOUND_RESET);
00293
00294
00301
          public void playResetSound() {
00302
             playSound(SOUND_RESET);
00303
00304
         public void playBurnSound() {
00312
           playSound(SOUND_BURN);
00313
00314
          public void playCoinSound() {
00320
00321
             playSound(SOUND COIN);
00322
00323 }
```

6.60 background_drawable.xml

6.61 icon_copy.xml 253

```
android:viewportHeight="299.9978">
00007
00008
                                                                  android:fillColor="#5f4f2d"
00009
                                                                  android:pathData="M-0,-0h510.033v299.998h-510.033z" android:strokeWidth="0.264583"
00010
00011
                                                                 android:strokeColor="#00000000" />
00013
00014
00015
                                                                  android:fillColor="#35270a"
                                                                  \verb"android:pathData="m495.074,15h15v-14.997zM15.004,15L0,15v-15zM465.07,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.065,15h30.004l-15,-15zM435.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,15h30.004,
00016
                                                                  android:strokeWidth="0.264583"
00017
                                                                  android:strokeColor="#00000000"
00018
00019
                                                                  android:strokeLineCap="butt"
00020
                                                                  android:strokeLineJoin="miter"
00021
                                                                  tools:ignore="VectorPath" />
00022 </vector>
```

6.61 icon_copy.xml

```
00001 vector xmlns:android="http://schemas.android.com/apk/res/android"
                                     android:width="50dp"
00002
                                      android:height="50dp"
00004
                                      android:autoMirrored="true"
00005
                                      android:viewportWidth="112.7125"
00006
                                      android:viewportHeight="112.7125">
00007
00008
00009
                                                    android:fillColor="?attr/card_view_button_background"
                                                      android:pathData="M56.356,56.356m-56.356,0a56.356,56.356 0,1 1,112.713 0a56.356,56.356 0,1
00010
                      1,-112.713 0"
00011
                                                    android:strokeWidth="0.907308" />
00012
00013
                                       <path
00014
                                                     android:fillColor="#ffffff"
                                                     android:pathData="M63.681,91.414L38.472,91.414c-5.822,0 -10.559,-4.914
00015
                        -10.559, -10.955 \\ \text{L}27.914, 43.347 \\ \text{c}0, -6.041 \\ \text{4.736}, -10.955 \\ \text{10.559}, -10.955 \\ \text{h}25.209 \\ \text{c}5.822, 0 \\ \text{10.559}, 4.914 \\ \text{10.559}, -10.955 \\ \text{10.550}, -10.955 \\ \text{10.550},
                      10.559,10.955v37.111c0,6.041 -4.736,10.955 -10.559,10.955zM38.472,37.869c-2.911,0 -5.279,2.457 -5.279,5.478v37.111c0,3.02 2.369,5.478 5.279,5.478h25.209c2.911,0 5.279,-2.457 5.279,-5.478L68.961,43.347c0,-3.02 -2.369,-5.478 -5.279,-5.478zM84.799,73.611L84.799,32.254c0,-6.041
                       -4.736,-10.955 -10.559,-10.955L44.94,21.299c-1.458,0 -2.64,1.226 -2.64,2.739 0,1.513 1.182,2.739 2.64,2.739h29.301c2.911,0 5.279,2.457 5.279,5.478v41.357c0,1.513 1.182,2.739 2.64,2.739 1.458,0
                        2.64,-1.226 2.64,-2.739zM84.799,73.611"
00016
                                                     android:strokeWidth="0.13444" />
00017 </vector>
```

6.62 icon_delete.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
00002
          android:width="50dp"
          android:height="50dp"
00004
          android:viewportWidth="150.28333"
00005
          android:viewportHeight="150.28333">
00006
00007
              android:fillColor="?attr/card_view_button_background"
00008
               android:pathData="M75.142,75.142m-75.142,0a75.142,75.142 0,1 1,150.283 0a75.142,75.142 0,1
00009
      1,-150.283 0"
00010
              android:strokeWidth="0.264583" />
00011
00012
               android:fillColor="#fffffff"
00013
      android:pathData="m112.311,48.0661-63.967,63.8471-10.372,-10.393163.967,-63.847zM48.414,37.623 L112.261,101.59 101.868,111.962 38.021,47.996z"
00014
00015
              android:strokeWidth="0.264583" />
00016 </vector>
```

6.63 icon_design.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
00002
          android:width="24dp"
          android:height="24dp"
00003
00004
          android:tint="?android:attr/colorControlNormal"
00005
          android:viewportWidth="24"
00006
          android:viewportHeight="24">
00007
00008
          <path
              android:fillColor="@android:color/white"
00009
```

```
00010 android:pathData="M21,19V5c0,-1.1 -0.9,-2 -2,-2H5c-1.1,0 -2,0.9 -2,2v14c0,1.1 0.9,2 2,2h14c1.1,0 2,-0.9 2,-2zM8.5,13.512.5,3.01L14.5,1214.5,6H513.5,-4.5z" /> 00011
```

6.64 icon explore.xml

```
00001 vector xmlns:android="http://schemas.android.com/apk/res/android"
00002 android:width="24dp"
            android:height="24dp"
00003
00004
            android:autoMirrored="true"
00005
            android:tint="?android:attr/colorControlNormal"
00006
            android:viewportWidth="24"
00007
            android:viewportHeight="24">
            <path
00008
                 android:fillColor="@android:color/white"
00009
       android:pathbata="M12,10.9c-0.61,0 -1.1,0.49 -1.1,1.1s0.49,1.1 1.1,1.1c0.61,0 1.1,-0.49 1.1,-1.1s-0.49,-1.1 -1.1,-1.1zM12,2C6.48,2 2,6.48 2,12s4.48,10 10,10 10,-4.48 10,-10S17.52,2
00010
       12,2zM14.19,14.19L6,1813.81,-8.19L18,61-3.81,8.19z" />
00011 </vector>
```

6.65 icon_factionreset.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
00002
          android:width="24dp"
          android:height="24dp"
00003
          android:tint="?android:attr/colorControlNormal"
00004
          android:viewportWidth="24"
00005
00006
          android:viewportHeight="24">
00007
00008
00009
               android:fillColor="@android:color/white"
               android:pathData="M12,6v314,-4 -4,-4v3c-4.42,0 -8,3.58 -8,8 0,1.57 0.46,3.03
00010
      1.24,4.26L6.7,14.8c-0.45,-0.83 -0.7,-1.79 -0.7,-2.8 0,-3.31 2.69,-6
      6,-62M18.76,7.74L17.3,9.2c0.44,0.84 0.7,1.79 0.7,2.8 0,3.31 -2.69,6 -6,6v-31-4,4 4,4v-3c4.42,0 8,-3.58 8,-8 0,-1.57 -0.46,-3.03 -1.24,-4.26z" />
00011
```

6.66 icon_next.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
00002
          android:width="24dp"
          android:height="24dp"
00003
          android:autoMirrored="true"
00004
00005
          android:tint="#FFFFFF"
          android:viewportWidth="24"
00006
          android:viewportHeight="24">
00007
00008
          <path
00009
              android:fillColor="@android:color/white"
              android:pathData="M10,6L8.59,7.41 13.17,121-4.58,4.59L10,1816,-6z" />
00011 </vector>
```

6.67 icon_rules.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
00002
          android:width="24dp"
           android:height="24dp"
00003
          android:tint="?android:attr/colorControlNormal"
00004
00005
           android:viewportWidth="24"
          android:viewportHeight="24">
00006
00007
00008
00009
              android:fillColor="@android:color/white"
      android:pathData="M18,2H6c-1.1,0 -2,0.9 -2,2v16c0,1.1 0.9,2 2,2h12c1.1,0 2,-0.9 2,-2v4c0,-1.1 -0.9,-2 -2,-2zM6,4h5v8l-2.5,-1.5L6,12V4z" />
00010
```

6.68 icon sounds.xml

6.69 icon warnings.xml

```
00001 <vector xmlns:android="http://schemas.android.com/apk/res/android"
          android:width="24dp"
00003
          android:height="24dp"
00004
          android:tint="?android:attr/colorControlNormal"
00005
          android:viewportWidth="24"
          android:viewportHeight="24">
00006
00007
00008
00009
             android:fillColor="@android:color/white"
00010
              android:pathData="M1,21h22L12,2 1,21zM13,18h-2v-2h2v2zM13,14h-2v-4h2v4z" />
00011 </vector>
```

6.70 indicator_selected.xml

6.71 indicator unselected.xml

6.72 rectangle.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <shape xmlns:android="http://schemas.android.com/apk/res/android"
00003
          android:shape="rectangle">
00004
00005
          <stroke
             android:width="@dimen/rectangle_stroke_width"
00006
00007
              android:color="?attr/colorPrimary" />
80000
00009
          <corners android:radius="@dimen/rectangle_corner_radius" />
00010
00011
          <gradient
00012
             android:angle="90"
              android:centerColor="?attr/card_background_color"
              android:endColor="?attr/card_background_gradient"
00014
00015
              android:startColor="?attr/card_background_gradient" />
00016 </shape>
```

6.73 rectangle_black_transparent.xml

6.74 rectangle_cancel_popup.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <shape xmlns:android="http://schemas.android.com/apk/res/android"
```

```
android:shape="rectangle">
00004
00005
          <gradient
00006
              android:angle="90"
              android:centerColor="@color/color_cancel_popup_background"
00007
00008
              android:endColor="@color/color_cancel_popup_background_gradient"
              android:startColor="@color/color_cancel_popup_background_gradient" />
00010
00011
          <corners android:radius="@dimen/rectangle_corner_radius" />
00012
00013
          <stroke
             android:width="@dimen/rectangle_stroke_width"
00014
00015
              android:color="@color/color_popup_cancel_text" />
```

6.75 fragment introduction.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
           xmlns:app="http://schemas.android.com/apk/res-auto"
00003
           xmlns:tools="http://schemas.android.com/tools"
00004
00005
           android:layout_width="match_parent'
           android:layout_height="match_parent"
00006
00007
           tools:context=".ui.introduction.IntroductionFragment">
00008
00009
           <ImageView
00010
               android:id="@+id/introduction_imageView"
00011
               android:layout_width="0dp"
               android:layout_height="match_parent"
00012
               android:layout_margin="@dimen/activity_horizontal_margin"
00013
00014
               android:contentDescription="@string/content_description_introduction_image"
00015
               app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@id/introduction_scrollView"
00016
00017
               app:layout_constraintStart_toStartOf="parent"
00018
               app:layout_constraintTop_toTopOf="parent"
00019
               app:layout_constraintWidth_percent=".5" />
00020
00021
           <ScrollView
               android:id="@+id/introduction_scrollView"
00022
00023
               android:layout_width="0dp"
               android:layout_height="wrap_content"
00025
               app:layout_constraintBottom_toBottomOf="parent"
               app:layout_constraintEnd_toEndOf="parent"
00026
00027
               app:layout_constraintStart_toEndOf="@id/introduction_imageView"
               app:layout_constraintTop_toTopOf="parent">
00028
00029
00030
               <TextView
                    android:id="@+id/introduction_textView"
00031
00032
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
00033
00034
                   android:layout_marginHorizontal="@dimen/activity_horizontal_margin"
android:justificationMode="inter_word"
00035
00036
                    android:textSize="@dimen/rules_textSize" />
           </ScrollView>
00037
00038
00039 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.76 fragment_introduction.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
00003
           xmlns:app="http://schemas.android.com/apk/res-auto
00004
           xmlns:tools="http://schemas.android.com/tools"
00005
           android:layout_width="match_parent"
           android:layout_height="match_parent"
tools:context=".ui.introduction.IntroductionFragment">
00006
00007
00008
00009
00010
               android:id="@+id/introduction_imageView"
00011
               android:layout_width="0dp"
00012
               android:layout_height="match_parent"
               android:layout_margin="@dimen/activity_horizontal_margin" android:contentDescription="@string/content_description_introduction_image"
00013
00014
00015
               app:layout_constraintBottom_toBottomOf="parent"
00016
               app:layout_constraintEnd_toStartOf="@id/introduction_scrollView"
               app:layout_constraintStart_toStartOf="parent"
00017
00018
               app:layout_constraintTop_toTopOf="parent"
00019
               app:layout_constraintWidth_percent=".5" />
00020
           <ScrollView
00021
```

```
android:id="@+id/introduction_scrollView"
00023
                android:layout_width="0dp"
00024
                android:layout_height="wrap_content"
00025
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@id/introduction_imageView"
00026
00027
00028
                app:layout_constraintTop_toTopOf="parent">
00029
00030
                <TextView
00031
                     android:id="@+id/introduction_textView"
00032
                     android:layout_width="match_parent"
                    android:layout_meight="wrap_content"
android:layout_merginHorizontal="@dimen/activity_horizontal_margin"
00033
00034
00035
                     android:textSize="@dimen/rules_textSize" />
00036
            </ScrollView>
00037
00038 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.77 fragment introduction.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
00003
           xmlns:app="http://schemas.android.com/apk/res-auto"
00004
           xmlns:tools="http://schemas.android.com/tools"
           android:layout_width="match_parent" android:layout_height="match_parent"
00005
00006
00007
           tools:context=".ui.introduction.IntroductionFragment">
00008
00009
00010
               android:id="@+id/introduction_imageView"
00011
               android:layout_width="match_parent'
00012
               android:layout_height="0dp"
00013
               android:layout_margin="@dimen/activity_horizontal_margin"
               android:contentDescription="@string/content_description_introduction_image" app:layout_constraintBottom_toTopOf="@id/introduction_scrollView"
00014
00015
00016
               app:layout_constraintEnd_toEndOf="parent"
               app:layout_constraintStart_toStartOf="parent"
00017
               app:layout_constraintTop_toTopOf="parent'
00018
00019
               app:layout_constraintVertical_weight="1" />
00020
00022
               android:id="@+id/introduction_scrollView"
00023
               android:layout_width="match_parent"
               android:layout_height="0dp"
00024
00025
               app:layout_constraintBottom_toBottomOf="parent"
00026
               app:layout_constraintEnd_toEndOf="parent"
               app:layout_constraintStart_toStartOf="parent"
               app:layout_constraintTop_toBottomOf="@id/introduction_imageView"
00028
00029
               app:layout_constraintVertical_weight="2">
00030
00031
               <TextView
                   android:id="@+id/introduction_textView"
00032
00033
                    android:layout_width="match_parent"
00034
                    android:layout_height="wrap_content"
                    android:layout_gravity="center"
00035
00036
                    android:layout_marginHorizontal="@dimen/activity_horizontal_margin"
android:justificationMode="inter_word"
00037
00038
                    android:textSize="@dimen/rules_textSize" />
00039
           </ScrollView>
00041 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.78 fragment_introduction.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
{\tt 00002} \>\>\> {\tt constraintlayout.widget.ConstraintLayout}
      xmlns:android="http://schemas.android.com/apk/res/android"
00003
           xmlns:app="http://schemas.android.com/apk/res-auto"
00004
           xmlns:tools="http://schemas.android.com/tools"
00005
           android:layout_width="match_parent"
00006
           android:layout_height="match_parent"
00007
           tools:context=".ui.introduction.IntroductionFragment">
00008
00009
           <ImageView
00010
                android:id="@+id/introduction_imageView"
00011
                android:layout_width="match_parent"
                android:layout_height="0dp" android:layout_margin="@dimen/activity_horizontal_margin"
00012
00013
                android:contentDescription="@string/content_description_introduction_image" app:layout_constraintBottom_toTopOf="@id/introduction_scrollView"
00014
00015
                app:layout_constraintEnd_toEndOf="parent'
00016
```

```
app:layout_constraintStart_toStartOf="parent"
00018
               app:layout_constraintTop_toTopOf="parent"
00019
               app:layout_constraintVertical_weight="1" />
00020
00021
00022
              android:id="@+id/introduction_scrollView"
               android:layout_width="match_parent"
00024
               android:layout_height="0dp"
00025
               app:layout_constraintBottom_toBottomOf="parent"
00026
               app:layout_constraintEnd_toEndOf="parent"
00027
               app:layout_constraintStart_toStartOf="parent"
               app:layout_constraintTop_toBottomOf="@id/introduction_imageView"
00028
00029
              app:layout_constraintVertical_weight="2">
00030
00031
               <TextView
                   android:id="@+id/introduction_textView"
android:layout_width="match_parent"
00032
00033
00034
                   android:layout_height="wrap_content"
                   android:layout_gravity="center"
00035
00036
                   android:layout_marginHorizontal="@dimen/activity_horizontal_margin"
00037
                   android:textSize="@dimen/rules_textSize" />
00038
          </ScrollView>
00039
00040 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.79 activity_rules.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
00003
            xmlns:app="http://schemas.android.com/apk/res-auto"
00004
           android:layout_width="match_parent"
00005
           android:layout_height="match_parent">
00006
00007
            <androidx.appcompat.widget.Toolbar</pre>
00008
                android:id="@+id/rulesToolbar"
00009
                android:layout_width="match_parent"
                android:layout_height="?attr/actionBarSize"
app:layout_constraintTop_toTopOf="parent" />
00010
00011
00012
00013
           <ScrollView
00014
                android:layout_width="match_parent"
00015
                android:layout_height="0dp"
00016
                android:layout_marginBottom="@dimen/margin_row_buttons"
                app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintTop_toBottomOf="@id/rulesToolbar">
00017
00018
00019
00020
                <TextView
00021
                    android:id="@+id/rulesTextView"
00022
                     android:layout_width="match_parent"
                    android:layout_height="wrap_content"
00023
                    android:layout_marginHorizontal="@dimen/activity_horizontal_margin" android:justificationMode="inter_word"
00024
00025
                    android:textColor="@android:color/secondary_text_dark"
00026
                    android:textSize="@dimen/rules_textSize" /
00027
           </ScrollView>
00028
00029 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.80 activity_rules.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
     xmlns:android="http://schemas.android.com/apk/res/android"
00003
          xmlns:app="http://schemas.android.com/apk/res-auto
00004
          android:layout_width="match_parent"
00005
          android:layout_height="match_parent">
00006
00007
          <androidx.appcompat.widget.Toolbar</pre>
00008
              android:id="@+id/rulesToolbar"
00009
              android:layout_width="match_parent"
00010
              android:layout_height="?attr/actionBarSize"
00011
              app:layout_constraintTop_toTopOf="parent" />
00012
00013
          <ScrollView
              android:layout_width="match_parent"
00014
00015
              android:layout_height="0dp"
00016
              android:layout_marginBottom="@dimen/margin_row_buttons"
00017
              app:layout_constraintBottom_toBottomOf="parent"
00018
              app:layout_constraintTop_toBottomOf="@id/rulesToolbar">
00019
00020
              <TextView
                  android:id="@+id/rulesTextView"
00021
```

6.81 activity_introduction.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
            xmlns:app="http://schemas.android.com/apk/res-auto"
00003
00004
            xmlns:tools="http://schemas.android.com/tools"
00005
            android:layout_width="match_parent"
00006
            android:layout_height="match_parent"
00007
            android:fitsSystemWindows="true"
            tools:context=".ui.introduction.IntroductionActivity">
00008
00009
00010
            <androidx.viewpager2.widget.ViewPager2</pre>
00011
                android:id="@+id/introduction_viewPager"
00012
                android:layout_width="match_parent'
00013
                 android:layout_height="0dp"
                android:layout_marginTop="@dimen/activity_vertical_margin"
app:layout_behavior="@string/appbar_scrolling_view_behavior"
app:layout_constraintBottom_toTopOf="@id/introduction_bottomLayout"
00014
00015
00016
00017
                app:layout_constraintTop_toTopOf="parent" />
00018
00019
                android:layout_width="match_parent"
android:layout_height="@dimen/divider_strength"
00020
00021
                android:alpha="0.12"
00022
00023
                android:background="@android:color/white"
00024
                app:layout_constraintBottom_toTopOf="@id/introduction_bottomLayout" />
00025
            <FrameLayout
00026
                android:id="@+id/introduction_bottomLayout"
android:layout_width="match_parent"
00027
00028
                android:layout_height="?attr/actionBarSize"
00029
                android:layout_marginStart="@dimen/activity_horizontal_margin"
00030
00031
                android:layout_marginEnd="@dimen/activity_horizontal_margin"
00032
                app:layout_constraintBottom_toBottomOf="parent">
00033
00034
                <Button
00035
                     android:id="@+id/introduction_button_skip"
00036
                     style="@style/Widget.AppCompat.Button.Borderless"
00037
                     android:layout_width="wrap_content"
                     android:layout_height="wrap_content"
android:layout_gravity="start|center_vertical"
android:text="@string/introduction_button_skip" />
00038
00039
00040
00041
00042
                <LinearLayout
00043
                     android:layout_width="wrap_content"
00044
                     android:layout_height="wrap_content"
00045
                     android:layout_gravity="center'
00046
                     android:orientation="horizontal">
00047
00048
                     <ImageView</pre>
00049
                          android:id="@+id/introduction_indicator_0"
00050
                          android:layout_width="@dimen/indicator_radius"
                          android:layout_height="@dimen/indicator_radius"
00051
                          android:layout_marginEnd="@dimen/border_margin"
app:srcCompat="@drawable/indicator_selected"
00052
00053
00054
                          android:contentDescription="@string/content_description_introduction_indicator" />
00055
00056
00057
                          android:id="@+id/introduction_indicator_1"
                          android:layout_width="@dimen/indicator_radius"
android:layout_height="@dimen/indicator_radius"
00058
00059
00060
                          android:layout_marginEnd="@dimen/border_margin"
                          app:srcCompat="@drawable/indicator_unselected"
00061
00062
                          android:contentDescription="@string/content_description_introduction_indicator" />
00063
00064
                     <ImageView
                          android:id="@+id/introduction_indicator_2"
00065
                          android:layout_width="@dimen/indicator_radius"
00066
                          android:layout_height="@dimen/indicator_radius"
00067
00068
                          android:layout_marginEnd="@dimen/border_margin"
                          app:srcCompat="@drawable/indicator_unselected"
00069
00070
                          android:contentDescription="@string/content_description_introduction_indicator" />
00071
00072
                     <ImageView
00073
                          android:id="@+id/introduction_indicator_3"
                          android:layout_width="@dimen/indicator_radius"
```

```
android:layout_height="@dimen/indicator_radius'
00076
                         android:layout_marginEnd="@dimen/border_margin"
00077
                         app:srcCompat="@drawable/indicator_unselected"
00078
                         android:contentDescription="@string/content_description_introduction_indicator" />
00079
00080
                    <ImageView
                         android:id="@+id/introduction_indicator_4"
00082
                         android:layout_width="@dimen/indicator_radius"
00083
                         android:layout_height="@dimen/indicator_radius"
00084
                         app:srcCompat="@drawable/indicator_unselected"
                        android:contentDescription="@string/content_description_introduction_indicator" />
00085
00086
               </LinearLayout>
00087
00088
00089
                    android:id="@+id/introduction_button_finish"
                    style="@style/Widget.AppCompat.Button.Borderless"
android:layout_width="wrap_content"
00090
00091
00092
                    android:layout_height="wrap_content"
                    android:layout_gravity="end|center_vertical"
00093
00094
                    android:text="@string/introduction_button_finish"
00095
                    android:visibility="gone" />
00096
00097
               <ImageButton</pre>
                    android:id="@+id/introduction_button_next"
00098
00099
                    style="@style/Widget.AppCompat.Button.Borderless"
                    android:layout_width="wrap_content"
00100
00101
                    android:layout_height="wrap_content"
00102
                    android:layout_gravity="end|center_vertical"
                    android:contentDescription="@string/content_description_introduction_next"
android:padding="@dimen/activity_horizontal_margin"
app:srcCompat="@drawable/icon_next" />
00103
00104
00105
00106
           </FrameLayout>
00108 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.82 activity_main.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
00003
            xmlns:app="http://schemas.android.com/apk/res-auto"
00004
            xmlns:tools="http://schemas.android.com/tools"
           android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@drawable/background_drawable"
00005
00006
00007
           tools:context=".ui.main.MainActivity">
00008
00009
00010
            <ImageView
00011
                android:id="@+id/backgroundImageView"
                android:layout_width="match_parent"
android:layout_height="match_parent"
00012
00013
00014
                android:contentDescription="@string/content_description_activity_main_background"
                android:scaleType="centerCrop"
00015
00016
                android:visibility="gone" />
00017
00018
                android:layout_width="match_parent"
android:layout_height="wrap_content"
00019
00020
00021
                android:baselineAligned="false"
00022
                android:orientation="horizontal"
00023
                app:layout_constraintBottom_toBottomOf="parent"
00024
                app:layout_constraintTop_toTopOf="parent">
00025
00026
                <include
00027
                    android:id="@+id/firstRow"
                     layout="@layout/row"
00028
00029
                     android:layout_width="0dp"
00030
                     android:layout_height="wrap_content"
                     android:layout_gravity="center"
00031
                     android:layout_marginHorizontal="@dimen/border_margin"
00032
                     android:layout_marginVertical="@dimen/activity_vertical_margin"
00033
                     android:layout_weight="1" />
00034
00035
00036
                <include
                     android:id="@+id/secondRow"
00037
                     layout="@layout/row"
00038
                     android:layout_width="0dp"
00039
                     android:layout_height="wrap_content"
00040
00041
                     android:layout_gravity="center"
00042
                     android:layout_marginHorizontal="@dimen/border_margin"
                    android:layout_marginVertical="@dimen/activity_vertical_margin" android:layout_weight="1" />
00043
00044
00045
00046
                     android:id="@+id/thirdRow"
```

6.82 activity_main.xml 261

```
00048
                      layout="@layout/row"
00049
                      android:layout_width="0dp"
                      android:layout_height="wrap_content"
android:layout_gravity="center"
00050
00051
                      android:layout_marginVertical="@dimen/activity_vertical_margin" android:layout_marginStart="@dimen/border_margin"
00052
00053
                      android:layout_marginEnd="@dimen/margin_row_buttons"
00054
00055
                      android:layout_weight="1" />
00056
                 <androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="0dp"
    android:layout_height="match_parent"</pre>
00057
00058
00059
                      android:layout_gravity="center'
00060
                      android:layout_marginVertical="@dimen/activity_vertical_margin"
00061
00062
                      android:layout_marginStart="@dimen/margin_row_buttons"
                      android:layout_marginEnd="@dimen/border_margin" android:layout_weight="1">
00063
00064
00065
00066
                      <androidx.constraintlayout.widget.ConstraintLayout</pre>
00067
                           android:id="@+id/overallPointLayout
00068
                           android:layout_width="match_parent"
                           android:layout_height="0dp"
00069
                           android:layout_margin="ddimen/margin_menu_buttons" app:layout_constraintBottom_toTopOf="@id/menuView"
00070
00071
00072
                           app:layout_constraintTop_toTopOf="parent"
00073
                           app:layout_constraintVertical_weight="1">
00074
00075
                           <ImageView
                                android:id="@+id/overallPointBall"
00076
00077
                                android:layout_width="match_parent"
android:layout_height="match_parent"
00078
00079
                                android:background="@null"
00080
                                android:contentDescription="@string/content_description_activity_main_point_ball"
00081
                                android:scaleType="fitCenter"
                                android:src="?attr/point_ball_mipmap"
android:translationZ="5dp" />
00082
00083
00084
00085
                                android:id="@+id/overallPointView"
00086
                                android:la="e="e="a" overall_roin.cve" android:layout_width="wrap_content" android:layout_height="wrap_content" android:textColor="@color/circle_text" android:textSize="@dimen/overall_point_circle_textSize"
00087
00088
00089
00090
                                android:translationZ="10dp"
00091
00092
                                app:layout_constraintBottom_toBottomOf="parent"
00093
                                app:layout_constraintEnd_toEndOf="parent"
00094
                                app:layout_constraintStart_toStartOf="parent"
00095
                                app:layout_constraintTop_toTopOf="parent" />
00096
                      </androidx.constraintlayout.widget.ConstraintLayout>
00097
00098
                      <androidx.constraintlayout.widget.ConstraintLayout</pre>
00099
                           android:id="@+id/menuView"
00100
                           android:layout_width="match_parent"
00101
                           android:layout_height="0dp"
00102
                           app:layout_constraintBottom_toBottomOf="parent"
                           app:layout_constraintTop_toBottomOf="@id/overallPointLayout"
00103
                           app:layout_constraintVertical_weight="3">
00104
00105
00106
                           <ImageButton</pre>
                                android:id="@+id/factionButton"
00107
                                android:layout_width="0dp"
android:layout_height="0dp"
android:layout_margin="ddimen/margin_menu_buttons"
00108
00109
00110
                                android:background="@null"
00111
00112
       00113
                                android:scaleType="fitCenter"
android:src="?android:attr/alertDialogIcon"
00114
00115
                                app:layout_constraintBottom_toTopOf="@id/weatherButton"
                                app:layout_constraintEnd_toStartOf="@id/resetButton"
00116
00117
                                app:layout_constraintStart_toStartOf="parent"
00118
                                app:layout_constraintTop_toTopOf="parent" />
00119
00120
                           <ImageButton</pre>
                                android:id="@+id/resetButton"
00121
                                android:layout_width="0dp"
00122
00123
                                android:layout_height="0dp"
                                android:layout_margin="@dimen/margin_menu_buttons"
android:background="@null"
00124
00125
                                android:clickable="false"
00126
00127
       android:contentDescription="@string/content_description_activity_main_reset_button"
                                android:scaleType="fitCenter"
00128
00129
                                android:src="@drawable/icon_reset_grey"
                                app:layout_constraintBottom_toTopOf="@id/burnButton"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@id/factionButton"
00130
00131
00132
```

```
app:layout_constraintTop_toTopOf="parent" />
00134
00135
                       <ImageButton</pre>
                           android:id="@+id/weatherButton"
00136
                           android:layout_width="0dp"
android:layout_height="0dp"
00137
00138
                           android:layout_margin="@dimen/margin_menu_buttons"
00139
00140
                           android:background="@null"
                           android:clickable="false"
00141
00142
      android:scaleType="fitCenter"
00143
                           android:src="@drawable/icon_weather_grey"
00144
00145
                           app:layout_constraintBottom_toTopOf="@id/coinButton"
00146
                           app:layout_constraintEnd_toStartOf="@id/burnButton"
00147
                           app:layout_constraintStart_toStartOf="parent"
                           app:layout_constraintTop_toBottomOf="@id/factionButton" />
00148
00149
00150
                           android:id="@+id/burnButton"
00151
00152
                           android:layout_width="0dp"
00153
                           android:layout_height="0dp"
                           android:layout_margin="@dimen/margin_menu_buttons" android:background="@null"
00154
00155
00156
                           android:clickable="false"
00157
                           android:contentDescription="@string/content_description_activity_main_burn_button"
00158
                           android:scaleType="fitCenter"
                           android:src="@drawable/icon_burn_grey" app:layout_constraintBottom_toTopOf="@id/settingsButton"
00159
00160
                           app:layout_constraintEnd_toEndOf="parent"
00161
                           app:layout_constraintStart_toEndOf="@+id/weatherButton"
00162
00163
                           app:layout_constraintTop_toBottomOf="@id/resetButton" />
00164
00165
                       <ImageButton</pre>
                           android:id="@+id/coinButton"
android:layout_width="0dp"
00166
00167
                           android:layout_height="0dp"
00168
                           android:layout_margin="@dimen/margin_menu_buttons"
00169
00170
                           android:background="@null"
00171
                           android:contentDescription="@string/content_description_activity_main_coin_button"
00172
                           android:scaleType="fitCenter"
                           android:src="@drawable/icon_coin"
00173
00174
                           app:layout_constraintBottom_toBottomOf="parent"
00175
                           app:layout_constraintEnd_toStartOf="@id/settingsButton"
00176
                           app:layout_constraintStart_toStartOf="parent"
00177
                           app:layout_constraintTop_toBottomOf="@id/weatherButton" />
00178
00179
                       <ImageButton</pre>
                           android:id="@+id/settingsButton"
00180
                           android:layout_width="0dp" android:layout_height="0dp"
00181
00182
                           android:layout_margin="@dimen/margin_menu_buttons"
00183
00184
                           android:background="@null"
00185
      00186
                           android:scaleType="fitCenter"
00187
                           android:src="@drawable/icon_settings"
00188
                           app:layout_constraintBottom_toBottomOf="parent"
                           app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toEndOf="@+id/coinButton"
00189
00190
                           app:layout_constraintTop_toBottomOf="@id/burnButton" />
00191
00192
                  </androidx.constraintlayout.widget.ConstraintLayout>
00193
              </androidx.constraintlayout.widget.ConstraintLayout>
          </LinearLayout>
00195 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.83 activity_settings.xml

```
00002
          xmlns:app="http://schemas.android.com/apk/res-auto"
00003
          android:layout_width="match_parent"
00004
          android:layout_height="match_parent"
00005
          android:fitsSystemWindows="true">
00006
          <androidx.appcompat.widget.Toolbar
android:id="@+id/settingsToolbar"</pre>
00007
00008
              android:layout_width="match_parent"
00010
              android:layout_height="?attr/actionBarSize"
00011
              app:layout_constraintBottom_toTopOf="@id/settingsFrameLayout"
              app:layout_constraintTop_toTopOf="parent"
app:title="@string/settings_title" />
00012
00013
00014
00015
00016
              android:id="@+id/settingsFrameLayout"
```

6.84 alertdialog_checkbox.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
          android:layout_width="match_parent'
00004
          android:layout_height="match_parent">
00005
00006
          <CheckBox
              android:id="@+id/alertDialog_checkbox"
00007
00008
              android:layout_width="match_parent'
              android:layout_height="wrap_content"
00009
00010
              android:layout_marginStart="@dimen/alertDialog_checkBox_marginStart"
              android:layout_marginEnd="@dimen/alertDialog_checkBox_marginEnd"
android:checked="true"
00011
00012
              android:layoutDirection="rtl"
00013
              android:minHeight="@dimen/alertDialog_checkBox_minHeight"
00014
              android:text="@string/alertDialog_reset_checkbox" />
00016 </FrameLayout>
```

6.85 card.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
          xmlns:app="http://schemas.android.com/apk/res-auto"
00003
          android:layout_width="@dimen/popUp_card_width"
00004
          android:layout_height="match_parent"
00005
          android:layout_margin="@dimen/border_margin"
00006
00007
          android:background="@drawable/rectangle"
00008
00009
          <TextView
00010
              android:id="@+id/damageView"
00011
               android:layout_width="@dimen/popUp_card_image_diameter"
00012
               android:layout_height="@dimen/popUp_card_image_diameter"
00013
               android:background="@drawable/icon_damage_background"
              android:gravity="center"
android:textColor="@color/color_damage_textColor"
00014
00015
               android:textSize="@dimen/popUp_card_textSize"
00016
               android:textStyle="bold"
00018
               app:layout_constraintBottom_toTopOf="@+id/abilityView"
00019
               app:layout_constraintEnd_toEndOf="parent"
00020
               app:layout_constraintStart_toStartOf="parent"
00021
              app:layout_constraintTop_toTopOf="parent" />
00022
00023
          <ImageView
00024
              android:id="@+id/abilityView"
00025
               android:layout_width="@dimen/popUp_card_image_diameter"
00026
               android:layout_height="@dimen/popUp_card_image_diameter"
              android:contentDescription="@string/content_description_card_ability" android:visibility="gone"
00027
00028
00029
               app:layout_constraintBottom_toTopOf="@id/copyButton"
               app:layout_constraintEnd_toStartOf="@id/bindingView"
00031
               app:layout_constraintStart_toStartOf="parent"
00032
               app:layout_constraintTop_toBottomOf="@+id/damageView"
00033
               app:srcCompat="@drawable/icon_binding" />
00034
00035
          <TextView
00036
              android:id="@+id/bindingView"
00037
               android:layout_width="@dimen/popUp_card_image_diameter"
00038
               android:layout_height="@dimen/popUp_card_image_diameter"
00039
              android:background="@drawable/icon_damage_background"
android:gravity="center"
00040
00041
               android:textColor="@color/color_damage_textColor"
00042
               android:textSize="@dimen/popUp_card_textSize"
               android:textStyle="bold"
00043
00044
               android: visibility="gone"
00045
               app:layout_constraintBottom_toBottomOf="@id/abilityView"
00046
              app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@id/abilityView"
00047
              app:layout_constraintTop_toTopOf="@+id/abilityView" />
00048
00049
00050
00051
               android:id="@+id/copyButton"
00052
               android:layout_width="@dimen/popUp_card_image_diameter"
               android:layout_height="@dimen/popUp_card_image_diameter"
00053
               android:background="@null'
00054
```

```
android:contentDescription="@string/content_description_card_copy"
00056
                                                app:layout_constraintBottom_toBottomOf="parent"
00057
                                                app:layout_constraintEnd_toStartOf="@id/deleteButton"
                                                app:layout_constraintStart_toStartOf="parent"
00058
                                                app:layout_constraintTop_toBottomOf="@id/abilityView"
00059
00060
                                                app:srcCompat="@drawable/icon_copy" />
00061
00062
00063
                                                android:id="@+id/deleteButton"
00064
                                                android:layout_width="@dimen/popUp_card_image_diameter"
                                               android:layout_height="@dimen/popUp_card_image_diameter"
android:background="@null"
00065
00066
00067
                                                android:contentDescription="@string/content_description_card_delete"
00068
                                                app:layout_constraintBottom_toBottomOf="@id/copyButton"
00069
                                                app:layout_constraintEnd_toEndOf="parent"
00070
                                                \verb"app:layout_constraintStart_toEndOf="@id/copyButton"" app:layout_constraintStart_toEndOf="@id/copyButton" app:layout_co
                                               app:layout_constraintTop_toTopOf="@id/copyButton"
app:srcCompat="@drawable/icon_delete" />
00071
00072
00073 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.86 popup_add_card.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
           xmlns:android="http://schemas.android.com/apk/res/android"
                    xmlns:app="http://schemas.android.com/apk/res-auto"
00003
                    android:layout_width="match_parent"
00004
00005
                    android:layout_height="match_parent"
00006
                    android:fitsSystemWindows="true">
00007
                    <androidx.constraintlayout.widget.ConstraintLayout
android:id="@+id/card_layout"</pre>
00008
00009
                           android:layout_width="0dp"
android:layout_height="wrap_content"
00010
00011
00012
                            android:layout_marginHorizontal="@dimen/border_margin"
00013
                            android:layout_marginTop="@dimen/border_margin"
00014
                            android:background="@drawable/rectangle"
                           app:layout_constraintEndtom_toTopOf="@id/button_layout" app:layout_constraintEnd_toEndOf="@id/button_layout"
00015
00016
                            app:layout_constraintHeight_max="@dimen/popUp_add_card_max_card_height"
00017
00018
                            app:layout_constraintStart_toStartOf="@id/button_layout"
                            app:layout_constraintTop_toTopOf="parent">
00019
00020
00021
                            <TextView
                                    android:id="@+id/popup_add_card_epic_picker_label"
00022
                                    android:layout_width="0dp"
00023
                                    android:layout_height="wrap_content"
00024
00025
                                    android:layout_marginBottom="@dimen/popUp_add_card_label_marginBottom"
00026
                                    android:gravity="center"
                                   android:labelFor="@id/popup_add_card_epic_picker" android:text="@string/popUp_add_card_label_epic" android:textColor="?attr/card_count_text_color"
00027
00028
00029
                                    android:textSize="@dimen/popUp_add_card_label_textSize"
00030
00031
                                    app:layout_constraintBottom_toBottomOf="parent"
                                   app:layout_constraintEnd_toEndOf="@id/popup_add_card_epic_picker"
app:layout_constraintStart_toStartOf="@id/popup_add_card_epic_picker"
00032
00033
                                    app:layout_constraintTop_toBottomOf="@id/popup_add_card_epic_picker" />
00034
00035
00036
                            <NumberPicker
00037
                                   android:id="@+id/popup_add_card_epic_picker"
00038
                                    android:layout_width="0dp"
                                    android:layout_height="wrap_content"
00039
                                   android:layout_marginHorizontal="@dimen/border_margin"
android:layout_marginTop="@dimen/border_margin"
00040
00041
00042
                                    android:descendantFocusability="blocksDescendants"
                                    app:layout_constraintBottom_toTopOf="@id/popup_add_card_epic_picker_label"
00043
                                    app:layout_constraintEnd_toStartOf="@id/popup_add_card_dmg_picker"
app:layout_constraintStart_toStartOf="parent"
00044
00045
00046
                                    app:layout_constraintTop_toTopOf="parent" />
00047
00048
                            <TextView
                                   android:id="@+id/popup_add_card_dmg_picker_label"
android:layout_width="0dp"
00049
00050
                                    android:layout_height="wrap_content"
00051
00052
                                    \verb"android:layout_marginBottom="@dimen/popUp_add_card_label_marginBottom" and add_card_label_marginBottom = "@dimen/popUp_add_card_label_marginBottom" and add_card_label_marginBottom = "@dimen/popUp_add_card_label_marginBottom" = "@dimen/popup_a
                                    android:gravity="center"
00053
                                    android:labelFor="@id/popup_add_card_dmg_picker'
00054
00055
                                    android:text="@string/popUp_add_card_label_dmg
00056
                                    android:textColor="?attr/card_count_text_color"
00057
                                    android:textSize="@dimen/popUp_add_card_label_textSize"
                                   app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="@id/popup_add_card_dmg_picker"
app:layout_constraintStart_toStartOf="@id/popup_add_card_dmg_picker"
00058
00059
00060
00061
                                    app:layout_constraintTop_toBottomOf="@id/popup_add_card_dmg_picker" />
00062
```

```
00063
                         <NumberPicker
                                android:id="@+id/popup_add_card_dmg_picker"
android:layout_width="0dp"
android:layout_height="wrap_content"
00064
00065
00066
                                android:layout_marginHorizontal="@dimen/border_margin"
00067
                                android:layout_marginTop="@dimen/border_margin"
00068
                                android:descendantFocusability="blocksDescendants"
00069
00070
                                app:layout_constraintBottom_toTopOf="@id/popup_add_card_dmg_picker_label"
                                app:layout_constraintEnd_toStartOf="@id/popup_add_card_ability_picker"
app:layout_constraintStart_toEndOf="@id/popup_add_card_epic_picker"
00071
00072
00073
                                app:layout_constraintTop_toTopOf="parent"
00074
                         <TextView
00075
00076
                                android:id="@+id/popup_add_card_ability_picker_label"
00077
                                android:layout_width="0dp"
                                android:layout_height="wrap_content"
00078
00079
                                android:layout_marginBottom="@dimen/popUp_add_card_label_marginBottom"
00080
                                android:gravity="center"
                                android: labelFor="@id/popup_add_card_ability_picker"
00081
00082
                                android:text="@string/popUp_add_card_label_ability
                                android:textColor="?attr/card_count_text_color"
00083
00084
                                android:textSize="@dimen/popUp_add_card_label_textSize"
00085
                                app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="@id/popup_add_card_ability_picker"
app:layout_constraintStart_toStartOf="@id/popup_add_card_ability_picker"
00086
00087
                                app:layout_constraintTop_toBottomOf="@id/popup_add_card_ability_picker" />
00088
00089
00090
                         <NumberPicker
                                android:id="@+id/popup_add_card_ability_picker"
00091
                                android:layout_width="0dp"
android:layout_height="wrap_content"
00092
00093
00094
                                android:layout_marginHorizontal="@dimen/border_margin"
                                android:layout_marginTop="@dimen/border_margin"
00095
00096
                                android:descendantFocusability="blocksDescendants"
                                app:layout_constraintBottom_toTopOf="@id/popup_add_card_ability_picker_label"app:layout_constraintEnd_toStartOf="@id/popup_add_card_binding_picker"
00097
00098
                                app:layout_constraintStart_toEndOf="@id/popup_add_card_dmg_picker"
app:layout_constraintTop_toTopOf="parent" />
00099
00100
00101
00102
                         <TextView
                                \label{local_cond_problem} $$ and roid:id="@+id/popup_add_card_binding_picker_label" and roid:layout_width="0dp" $$
00103
00104
                                android:layout_height="wrap_content"
00105
00106
                                android:layout_marginBottom="@dimen/popUp_add_card_label_marginBottom"
                                android:gravity="center"
00107
00108
                                android: labelFor="@id/popup_add_card_binding_picker"
00109
                                android:text="@string/popUp_add_card_label_binding"
                                android:textColor="?attr/card_count_text_color"
00110
                                android:textSize="@dimen/popUp_add_card_label_textSize"
app:layout_constraintBottom_toBottomOf="parent"
00111
00112
                                app:layout_constraintEnd_toEndOf="@id/popup_add_card_binding_picker"
00113
00114
                                app:layout_constraintStart_toStartOf="@id/popup_add_card_binding_picker"
00115
                                app:layout_constraintTop_toBottomOf="@id/popup_add_card_binding_picker" />
00116
00117
                         <NumberPicker
                                android:id="@+id/popup_add_card_binding_picker"
00118
                                android:layout_width="0dp"
00119
00120
                                android:layout_height="wrap_content"
                                android:layout_marginHorizontal="@dimen/border_margin" android:layout_marginTop="@dimen/border_margin"
00121
00122
                                android:descendantFocusability="blocksDescendants"
00123
                                android:visibility="gone"
00124
00125
                                app:layout_constraintBottom_toTopOf="@id/popup_add_card_binding_picker_label"
                                app:layout_constraintEnd_toStartOf="@id/popup_add_card_number_picker" app:layout_constraintStart_toEndOf="@id/popup_add_card_ability_picker"
00126
00127
00128
                                app:layout_constraintTop_toTopOf="parent" />
00129
00130
                         <TextView
                                android:id="@+id/popup_add_card_number_picker_label"
00131
                                android:layout_width="0dp"
00132
00133
                                android:layout_height="wrap_content"
00134
                                \verb"android:layout_marginBottom="@dimen/popUp_add_card_label_marginBottom" and all of the control of the contro
                                android:gravity="center"
android:labelFor="@id/popup_add_card_number_picker"
00135
00136
                                android:text="@string/popUp_add_card_label_number
00137
00138
                                android:textColor="?attr/card_count_text_color"
00139
                                android:textSize="@dimen/popUp_add_card_label_textSize"
                                app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="@id/popup_add_card_number_picker"
app:layout_constraintStart_toStartOf="@id/popup_add_card_number_picker"
00140
00141
00142
                                app:layout_constraintTop_toBottomOf="@id/popup_add_card_number_picker" />
00143
00144
00145
                         <NumberPicker
00146
                                android:id="@+id/popup_add_card_number_picker"
                                android:layout_width="0dp" android:layout_height="wrap_content"
00147
00148
00149
                                android: layout marginHorizontal="@dimen/border margin"
```

```
00150
                           android:layout_marginTop="@dimen/border_margin"
                            android:descendantFocusability="blocksDescendants"
00151
                           amp:layout_constraintEnd_toEndOf="@id/popup_add_card_number_picker_label" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintEnd_toEndOf="@id/popup_add_card_binding_picker" app:layout_constraintStart_toEndOf="@id/popup_add_card_binding_picker" app:layout_constraintTop_toTopOf="parent" />
00152
00153
00154
00155
               </androidx.constraintlayout.widget.ConstraintLayout>
00156
00157
               <androidx.constraintlayout.widget.ConstraintLayout
    android:id="@+id/button_layout"
    android:layout_width="wrap_content"
    android:layout_height="0dp"</pre>
00158
00159
00160
00161
                     android:layout_margin="@dimen/border_margin"
00162
                     app:layout_constraintBottom_toBottomOf="parent"
00163
00164
                      app:layout_constraintEnd_toEndOf="parent"
                     app:layout_constraintHeight_max="@dimen/popUp_card_button_height" app:layout_constraintStart_toStartOf="parent"
00165
00166
                     app:layout_constraintTop_toBottomOf="@id/card_layout">
00167
00168
00169
                      <Button
                           android:id="@+id/popup_add_card_cancel_button"
android:layout_width="@dimen/popUp_card_button_width"
android:layout_height="match_parent"
android:layout_marginEnd="@dimen/popUp_card_button_margin"
android:background="@drawable/rectangle_cancel_popup"
00170
00171
00172
00173
00174
00175
                           android:text="@string/alertDialog_cancel"
00176
                            android:textAllCaps="false"
                            android:textColor="@color/color_popup_cancel_text"
00177
                           android:textSize="@dimen/popUp_card_textSize"
app:layout_constraintEnd_toStartOf="@id/popup_add_card_save_button"
00178
00179
                           app:layout_constraintHeight_max="@dimen/popUp_card_button_height" app:layout_constraintStart_toStartOf="parent" />
00180
00181
00182
                     <Button
00183
                           android:id="@+id/popup_add_card_save_button"
android:layout_width="@dimen/popUp_card_button_width"
00184
00185
                           android:layout_height="match_parent"
00186
                           android:layout_marginStart="@dimen/popUp_card_button_margin"
00187
00188
                           android:background="@drawable/rectangle
                           android:text="@string/popUp_cards_save"
android:textAllCaps="false"
android:textColor="?attr/card_count_text_color"
00189
00190
00191
                           android:textSize="@dimen/popUp_card_textSize"
app:layout_constraintEnd_toEndOf="parent"
00192
00193
00194
                           app:layout_constraintHeight_max="@dimen/popUp_card_button_height"
00195
                            app:layout_constraintStart_toEndOf="@id/popup_add_card_cancel_button" />
00196
               </androidx.constraintlayout.widget.ConstraintLayout>
00197 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.87 popup_cards.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
           xmlns:app="http://schemas.android.com/apk/res-auto"
00003
00004
           android:layout_width="match_parent'
           android:layout_height="match_parent"
00005
           android:fitsSystemWindows="true"
00006
00007
           app:layout_constraintBottom_toBottomOf="parent"
00008
           app:layout_constraintTop_toTopOf="parent">
00009
           <androidx.recyclerview.widget.RecyclerView
    android:id="@+id/cards_list"</pre>
00010
00011
                android:layout_width="0dp"
00012
                android:layout_height="@dimen/popUp_card_list_height"
00013
                android:layout_margin="@dimen/activity_horizontal_margin"
app:layout_constraintBottom_toTopOf="@id/button_layout"
00014
00015
                app:layout_constraintEnd_toEndOf="parent"
00016
                app:layout_constraintStart_toStartOf="parent"
00017
00018
                app:layout_constraintTop_toTopOf="parent" />
00019
00020
           <androidx.constraintlayout.widget.ConstraintLayout</pre>
00021
                android:id="@+id/button_layout'
                android:layout_width="wrap_content"
android:layout_height="0dp"
00022
00023
                android:layout_margin="@dimen/border_margin"
app:layout_constraintBottom_toBottomOf="parent"
00024
00025
                app:layout_constraintEnd_toEndOf="parent"
00026
00027
                app:layout_constraintHeight_max="@dimen/popUp_card_button_height"
00028
                app:layout_constraintStart_toStartOf="parent
                app:layout_constraintTop_toBottomOf="@id/cards_list">
00029
00030
00031
                <Button
00032
                    android:id="@+id/popup_cards_cancel_button"
00033
                    android:layout_width="@dimen/popUp_card_button_width"
```

```
00034
                     android:layout_height="match_parent"
00035
                     android:layout_marginEnd="@dimen/popUp_card_button_margin"
00036
                     android:background="@drawable/rectangle_cancel_popup'
                    android:text="@string/alertDialog_cancel"
android:textAllCaps="false"
00037
00038
                     android:textColor="@color/color_popup_cancel_text"
00039
                     android:textSize="@dimen/popUp_card_textSize"
00041
                     app:layout_constraintEnd_toStartOf="@id/popup_cards_add_button"
00042
                     app:layout_constraintStart_toStartOf="parent" />
00043
00044
                <Button
                    android:id="@+id/popup_cards_add_button"
android:layout_width="@dimen/popUp_card_button_width"
00045
00046
00047
                     android:layout_height="match_parent"
00048
                     android:layout_marginStart="@dimen/popUp_card_button_margin"
                    android:background="@drawable/rectangle"
android:text="@string/popUp_cards_add"
android:textAllCaps="false"
00049
00050
00051
                     android:textColor="?attr/card_count_text_color"
00052
00053
                     android:textSize="@dimen/popUp_card_textSize"
00054
                     app:layout_constraintEnd_toEndOf="parent"
00055
                     app:layout_constraintStart_toEndOf="@id/popup_cards_cancel_button" />
00056
           </androidx.constraintlayout.widget.ConstraintLayout>
00057 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.88 popup_coin_normal.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
00003
            xmlns:app="http://schemas.android.com/apk/res-auto"
00004
            android:id="@+id/coinflipBackground"
00005
           android:layout_width="match_parent"
android:layout_height="match_parent"
00006
00007
           android:fitsSystemWindows="true">
00008
00009
            <LinearLayout
                android:layout_width="wrap_content"
android:layout_height="wrap_content"
00010
00011
                android:background="@drawable/rectangle_black_transparent"
00012
                android:orientation="vertical"
00013
00014
                app:layout_constraintBottom_toBottomOf="parent"
00015
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
00016
00017
                app:layout_constraintTop_toTopOf="parent">
00018
00019
                <ImageView
00020
                     android:id="@+id/popup_coin_normal_coinView"
00021
                     android:layout_width="@dimen/popUp_coin_diameter"
                     android:layout_height="@dimen/popUp_coin_diameter"
android:layout_gravity="center"
00022
00023
                     android:layout_margin="@dimen/activity_horizontal_margin"
android:contentDescription="@string/content_description_coinpopup_coin"
00024
00025
                     android:src="@drawable/coin_win" />
00026
00027
00028
                     android:id="@+id/popup_coin_normal_textView"
android:layout_width="wrap_content"
00029
00030
                     android:layout_height="wrap_content"
00031
                     android:layout_gravity="center"
00032
                     android:layout_margin="@dimen/activity_horizontal_margin" android:text="@string/popUp_coin_normal_win"
00033
00034
00035
                     android:textColor="@color/color_coin_text"
                     android:textSize="@dimen/popUp_coin_title_textSize" />
00036
            </LinearLavout>
00037
00038 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.89 popup_coin_stewie.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
00003
           xmlns:app="http://schemas.android.com/apk/res-auto
           android:id="@+id/coinflipBackground" android:layout_width="match_parent"
00004
00005
00006
           android:layout_height="match_parent"
00007
           android:fitsSystemWindows="true">
00008
00009
           <androidx.constraintlayout.widget.ConstraintLayout</pre>
                android:layout_width="wrap_content"
android:layout_height="0dp"
00010
00011
                android:layout_margin="@dimen/activity_vertical_margin"
00012
```

```
android:background="@drawable/rectangle_black_transparent"
                 app:layout_constraintBottom_toBottomOf="parent"
00014
00015
                 app:layout_constraintEnd_toEndOf="parent"
                 app:layout_constraintHeight_max="@dimen/popUp_coin_window_max_height"
00016
                 app:layout_constraintStart_toStartOf="parent"
00017
                 app:layout_constraintTop_toTopOf="parent">
00018
00019
00020
00021
                     android:id="@+id/imageLayout"
00022
                     android:layout_width="wrap_content"
                     android:layout_height="match_parent"
00023
                     android:layout_margin="@dimen/activity_horizontal_margin"
00024
                     android:orientation="vertical"
00025
00026
                     app:layout_constraintEnd_toStartOf="@id/textLayout"
00027
                     app:layout_constraintStart_toStartOf="parent">
00028
00029
                     <ImageView
00030
                           android:layout_width="wrap_content"
                           android:layout_height="0dp"
00031
00032
                           android:layout_weight="1"
00033
                           android:contentDescription="@string/content_description_coinpopup_stewie_1"
00034
                           android:src="@drawable/stewie_1" />
00035
00036
                     <ImageView
00037
                          android:layout_width="wrap_content"
                           android:layout_height="0dp"
00038
00039
                           android:layout_weight="1"
00040
                           android:contentDescription="@string/content_description_coinpopup_stewie_2"
                           android:src="@drawable/stewie_2" />
00041
00042
00043
                     <ImageView
00044
                           android:layout_width="wrap_content"
00045
                           android:layout_height="0dp"
00046
                           android:layout_weight="1"
                          android:contentDescription="@string/content_description_coinpopup_stewie_3"
android:src="@drawable/stewie_3" />
00047
00048
00049
                </LinearLayout>
00050
00051
                 <androidx.constraintlayout.widget.ConstraintLayout</pre>
00052
                     android:id="@+id/textLayout"
                     android:layout_width="wrap_content"
android:layout_height="match_parent"
00053
00054
                     android:layout_margin="@dimen/activity_horizontal_margin"
00055
                     app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintEnd_toEndOf="@id/imageLayout"
00056
00057
00058
                     app:layout_constraintWidth_max="@dimen/popUp_coin_textview_max_width">
00059
00060
                      <TextView
00061
                           android:id="@+id/text1"
                           android:layout_width="match_parent"
00062
                          android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_margin="@dimen/border_margin"
00063
00064
00065
                           android:gravity="center"
                          android:fext="@string/popUp_coin_stewie_1"
android:textColor="@color/color_coin_text"
00066
00067
                          android:textSize="@dimen/popUp_coin_title_textSize"
app:layout_constraintTop_toTopOf="parent" />
00068
00069
00070
00071
                     <TextView
                          android:id="@+id/text2"
00072
                          android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_margin="@dimen/border_margin"
00073
00074
00075
00076
                           android:gravity="center"
00077
                           android:text="@string/popUp_coin_stewie_2"
                          android:textColor="@color/color_coin_text"
android:textSize="@dimen/popUp_coin_dialog_textSize"
app:layout_constraintTop_toBottomOf="@id/text1" />
00078
00079
00080
00081
00082
                      <TextView
00083
                          android:id="@+id/text3"
00084
                           android:layout_width="match_parent"
                           android:layout_height="wrap_content"
00085
                          android:layout_margin="@dimen/border_margin"
android:gravity="center"
android:text="@string/popUp_coin_stewie_3"
00086
00087
00088
00089
                           android:textColor="@color/color_coin_text"
                           android:textSize="@dimen/popUp_coin_dialog_textSize"
00090
00091
                           app:layout_constraintBottom_toTopOf="@id/text4"
                           app:layout_constraintTop_toBottomOf="@id/text2" />
00092
00093
00094
                      <TextView
00095
                           android:id="@+id/text4"
00096
                           android:layout_width="match_parent"
                           android:layout_height="wrap_content"
00097
                          android:layout_margin="@dimen/border_margin"
android:gravity="center"
00098
00099
```

```
00100 android:text="@string/popUp_coin_stewie_4"
00101 android:textColor="@color/color_coin_text"
00102 android:textSize="@dimen/popUp_coin_dialog_textSize"
00103 app:layout_constraintBottom_toBottomOf="parent"
00104 app:layout_constraintTop_toBottomOf="@id/text3" />
00105 </androidx.constraintlayout.widget.ConstraintLayout>
00106 </androidx.constraintlayout.widget.ConstraintLayout>
00107 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.90 popup_coin_terry.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
            xmlns:android="http://schemas.android.com/apk/res/android"
                   xmlns:app="http://schemas.android.com/apk/res-auto"
00003
00004
                    android:id="@+id/coinflipBackground"
00005
                    android:layout_width="match_parent"
00006
                    android:layout_height="match_parent"
00007
                    android:fitsSystemWindows="true">
00008
00009
                    <androidx.constraintlayout.widget.ConstraintLayout</pre>
00010
                           android:layout_width="wrap_content"
                           android:layout_height="Odp"
android:layout_margin="@dimen/activity_vertical_margin"
00011
00012
                           android:background="@drawable/rectangle_black_transparent"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
00013
00014
00015
00016
                           app:layout_constraintHeight_max="@dimen/popUp_coin_window_max_height"
00017
                           app:layout_constraintStart_toStartOf="parent
00018
                           app:layout_constraintTop_toTopOf="parent">
00019
00020
                           <LinearLayout
00021
                                   android:id="@+id/imageLayout"
                                   android:layout_width="wrap_content"
00022
00023
                                   android:layout_height="match_parent"
                                   android:layout_margin="@dimen/activity_horizontal_margin" android:orientation="vertical"
00024
00025
00026
                                   \verb"app:layout_constraintEnd_toStartOf="@id/textLayout"" app:layout_constraintEnd_toStartOf="@id/textLayout" app:layout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartOf="@id/textLayout_constraintEnd_toStartO
                                   app:layout_constraintStart_toStartOf="parent">
00027
00028
00029
                                   <ImageView</pre>
00030
                                           android:layout_width="wrap_content"
00031
                                           android:layout_height="0dp"
                                           android:layout_weight="1"
00032
                                           android:contentDescription="@string/content_description_coinpopup_terry_1"
00033
00034
                                           android:src="@drawable/terry_1" />
00036
                                   <ImageView
00037
                                           android:layout_width="wrap_content"
00038
                                           android:layout_height="0dp"
                                           android:layout_weight="1"
00039
00040
                                           android:contentDescription="@string/content_description_coinpopup_terry_2"
                                           android:src="@drawable/terry_2" />
00041
00042
00043
                                   <ImageView
00044
                                           android:layout_width="wrap_content"
00045
                                           android:layout_height="0dp'
                                           android:layout_weight="1"
00046
00047
                                           android:contentDescription="@string/content_description_coinpopup_terry_3"
00048
                                           android:src="@drawable/terry_3" />
00049
                           </LinearLayout>
00050
00051
                           \verb|<| and roidx.constraintlayout.widget.ConstraintLayout| \\
                                   android:id="@+id/textLayout"
00052
                                   android:layout_width="wrap_content"
00053
                                   android:layout_height="match_parent"
android:layout_height="match_parent"
android:layout_margin="@dimen/activity_horizontal_margin"
00054
00055
00056
                                   app:layout_constraintEnd_toEndOf="parent"
                                  app:layout_constraintStart_toEndOf="@id/imageLayout" app:layout_constraintWidth_max="@dimen/popUp_coin_textview_max_width">
00057
00058
00059
00060
                                   <TextView
00061
                                           android:id="@+id/text1"
                                           android:layout_width="match_parent"
android:layout_height="wrap_content"
00062
00063
                                           android:layout_margin="@dimen/border_margin"
android:gravity="center"
00064
00065
                                           android:text="@string/popUp_coin_terry_1"
00066
00067
                                           android:textColor="@color/color_coin_text"
                                           android:textSize="@dimen/popUp_coin_title_textSize" app:layout_constraintBottom_toTopOf="@id/text2"
00068
00069
                                           app:layout_constraintTop_toTopOf="parent" />
00070
00071
00072
                                           android:id="@+id/text2"
```

```
android:layout_width="match_parent"
00075
                           android:layout_height="wrap_content"
                          android:layout_margin="@dimen/border_margin"
android:gravity="center"
android:text="@string/popUp_coin_terry_2"
00076
00077
00078
                           android:textColor="@color/color_coin_text"
00079
                           android:textSize="@dimen/popUp_coin_dialog_textSize"
00080
00081
                           app:layout_constraintBottom_toTopOf="@id/text3"
00082
                           app:layout_constraintTop_toBottomOf="@id/text1" />
00083
00084
                     <TextView
00085
                          android:id="@+id/text3"
00086
                           android:layout_width="match_parent"
                           android:layout_height="wrap_content"
00087
00088
                           android:layout_margin="@dimen/border_margin"
                          android:gravity="center"
android:text="@string/popUp_coin_terry_3"
00089
00090
                          android:textColor="@color/color_coin_text"
android:textColor="@color/color_coin_text"
android:textSize="@dimen/popUp_coin_dialog_textSize"
00091
00092
00093
                           app:layout_constraintBottom_toBottomOf="parent
00094
                           app:layout_constraintTop_toBottomOf="@id/text2" />
00095
                 </androidx.constraintlayout.widget.ConstraintLayout>
00096
            </androidx.constraintlayout.widget.ConstraintLayout>
00097 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.91 popup_coin_vin.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
       xmlns:android="http://schemas.android.com/apk/res/android"
00003
            xmlns:app="http://schemas.android.com/apk/res-auto"
00004
           android:id="@+id/coinflipBackground"
00005
           android:layout_width="match_parent"
android:layout_height="match_parent"
00006
00007
           android:fitsSystemWindows="true">
00008
00009
            <androidx.constraintlayout.widget.ConstraintLayout</pre>
                android:layout_width="wrap_content"
android:layout_height="0dp"
00010
00011
                android:layout_mergin="@dimen/activity_vertical_margin" android:background="@drawable/rectangle_black_transparent"
00012
00013
00014
                app:layout_constraintBottom_toBottomOf="parent"
00015
                app:layout_constraintEnd_toEndOf="parent"
00016
                app:layout_constraintHeight_max="@dimen/popUp_coin_window_max_height"
00017
                app:layout_constraintStart_toStartOf="parent
                app:layout_constraintTop_toTopOf="parent">
00018
00019
00020
                <ImageView
                     android:id="@+id/imageView"
00021
00022
                     android:layout_width="wrap_content"
                     android:layout_height="match_parent"
00023
                    android:layout_margin="@dimen/activity_vertical_margin" android:contentDescription="@string/content_description_coinpopup_vin"
00024
00025
00026
                     android:src="@drawable/vin"
00027
                     app:layout_constraintEnd_toStartOf="@id/textView"
00028
                     app:layout_constraintStart_toStartOf="parent" /:
00029
00030
                <TextView
00031
                    android:id="@+id/textView"
00032
                     android:layout_width="wrap_content"
                     android:layout_height="match_parent"
00033
00034
                     android:layout_margin="@dimen/activity_horizontal_margin"
                    android:gravity="center"
android:text="@string/popUp_coin_vin"
android:textColor="@color/color_coin_text"
00035
00036
00037
                     android:textSize="@dimen/popUp_coin_title_textSize"
00038
                     app:layout_constraintEnd_toEndOf="parent"
00039
00040
                     app:layout_constraintStart_toEndOf="@id/imageView"
00041
                     app:layout_constraintWidth_max="@dimen/popUp_coin_textview_max_width" />
00042
           </androidx.constraintlayout.widget.ConstraintLayout>
00043 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.92 popup_faction.xml

```
00008
00009
            <ImageView
00010
                android:id="@+id/monsterCardView"
00011
                android:layout_width="0dp"
                android:layout_height="wrap_content"
00012
                android:layout_margin="@dimen/border_margin"
00013
                android:contentDescription="@string/content_description_factionpopup_monster"
00014
00015
                android:src="@drawable/card_monster"
00016
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintBottom_toBottomOf="parent"
00017
                app:layout_constraintEnd_toEndOf="@id/monsterButton"
00018
00019
                app:layout_constraintStart_toStartOf="@id/monsterButton" />
00020
00021
00022
                android:id="@+id/monsterButton"
                android:layout_width="0dp"
android:layout_height="wrap_content"
00023
00024
                android:layout_mergin="@dimen/popUp_faction_margin"
android:layout_margin="@dimen/popUp_faction_margin"
android:background="@drawable/rectangle"
00025
00026
                android:text="@string/faction_monster"
00027
                android:textAllCaps="false"
android:textColor="@color/color_text_monster"
00028
00029
                android:textcolor ecolor/color_text_monster android:textSize="@dimen/rectangle_textSize" android:theme="@style/MonsterTheme"
00030
00031
00032
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toStartOf="@id/nilfgaardButton"
00033
00034
                app:layout_constraintHeight_min="@dimen/rectangle_height"
00035
                app:layout_constraintStart_toStartOf="parent"
00036
                app:layout_constraintTop_toBottomOf="@+id/monsterCardView"
                app:layout_constraintWidth_max="@dimen/popUp_faction_button_max_width" />
00037
00038
00039
            <ImageView
00040
                android:id="@+id/nilfgaardCardView"
00041
                android:layout_width="0dp"
00042
                android:layout_height="wrap_content"
                android:layout_margin="@dimen/border_margin"
00043
                android:contentDescription="@string/content_description_factionpopup_nilfgaard"
00044
00045
                android:src="@drawable/card_nilfgaard"
00046
                app:layout_constraintBottom_toBottomOf="parent"
00047
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintEnd_toEndOf="@id/nilfgaardButton"
00048
                app:layout_constraintStart_toStartOf="@id/nilfgaardButton" />
00049
00050
00051
00052
                android:id="@+id/nilfgaardButton"
00053
                android:layout_width="0dp"
00054
                android:layout_height="wrap_content"
                android:layout_margin="ddimen/popUp_faction_margin" android:background="@drawable/rectangle" android:text="@string/faction_nilfgaard"
00055
00056
00057
                android:textAllCaps="false"
00058
00059
                android:textColor="@color/color_text_nilfgaard"
00060
                android:textSize="@dimen/rectangle_textSize"
00061
                android:theme="@style/NilfgaardTheme"
00062
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toStartOf="@id/northernKingdomsButton"
app:layout_constraintHeight_min="@dimen/rectangle_height"
00063
00064
00065
                app:layout_constraintStart_toEndOf="@id/monsterButton
                app:layout_constraintTop_toBottomOf="@id/nilfgaardCardView" app:layout_constraintWidth_max="@dimen/popUp_faction_button_max_width" />
00066
00067
00068
00069
           <ImageView
00070
                android:id="@+id/northernKingdomsCardView"
00071
                android:layout_width="0dp"
00072
                android:layout_height="wrap_content"
                android:layout_margin="@dimen/border_margin"
00073
                \verb| and roid: content Description="@string/content_description_faction popup_northern\_king doms"|
00074
00075
                android:src="@drawable/card_northern_kingdoms"
00076
                app:layout_constraintTop_toTopOf="parent"
00077
                app:layout_constraintBottom_toBottomOf="parent"
00078
                app:layout_constraintEnd_toEndOf="@id/northernKingdomsButton"
00079
                app:layout_constraintStart_toStartOf="@id/northernKingdomsButton" />
00080
00081
            <Button
00082
                android:id="@+id/northernKingdomsButton"
                android:layout_width="0dp"
00083
00084
                android:layout_height="wrap_content"
                android:layout_margin="@dimen/popUp_faction_margin" android:background="@drawable/rectangle"
00085
00086
                android:text="@string/faction_northern_kingdoms" android:textAllCaps="false"
00087
00088
                android:textColor="@color/color_text_northern_kingdoms"
00089
                android:textSize="@dimen/rectangle_textSize"
00090
00091
                android:theme="@style/NorthernKingdomsTheme"
                app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@id/scoiataelButton"
00092
00093
                app:layout_constraintHeight_min="@dimen/rectangle_height"
00094
```

```
app:layout_constraintStart_toEndOf="@id/nilfgaardButton"
00096
               app:layout_constraintTop_toBottomOf="@id/northernKingdomsCardView"
               app:layout_constraintWidth_max="@dimen/popUp_faction_button_max_width" />
00097
00098
00099
           <ImageView
00100
               android:id="@+id/scoiataelCardView"
               android:layout_width="0dp"
00102
               android:layout_height="wrap_content"
               android:layout_margin="@dimen/border_margin"
00103
00104
               \verb"android:contentDescription="@string/content_description_factionpopup_scoiatael" \\
               android:src="@drawable/card_scoiatael"
00105
               app:layout_constraintTop_toTopOf="parent"
00106
00107
               app:layout_constraintBottom_toBottomOf="parent"
00108
               app:layout_constraintEnd_toEndOf="@id/scoiataelButton"
00109
               app:layout_constraintStart_toStartOf="@id/scoiataelButton" />
00110
00111
          <Button
               android:id="@+id/scoiataelButton"
00112
               android:layout_width="0dp"
00113
               android:layout_height="wrap_content"
00114
               android:layout_margin="@dimen/popUp_faction_margin"
00115
               android:background="@drawable/rectangle"
00116
               android:text="@string/faction_scoiatael" android:textAllCaps="false"
00117
00118
00119
               android:textColor="@color/color_text_scoiatael"
               android:textSize="@dimen/rectangle_textSize"
00120
00121
               android:theme="@style/ScoiataelTheme"
00122
               app:layout_constraintBottom_toBottomOf="parent"
               app:layout_constraintEnd_toEndOf="parent"
00123
               app:layout_constraintHeight_min="@dimen/rectangle_height"
app:layout_constraintStart_toEndOf="@id/northernKingdomsButton"
00124
00125
00126
               app:layout_constraintTop_toBottomOf="@id/scoiataelCardView"
               app:layout_constraintWidth_max="@dimen/popUp_faction_button_max_width" />
00128 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.93 row.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <androidx.constraintlayout.widget.ConstraintLayout
      xmlns:android="http://schemas.android.com/apk/res/android"
00003
          xmlns:app="http://schemas.android.com/apk/res-auto"
00004
          android:layout_width="wrap_content"
00005
          android:layout_height="wrap_content">
00006
00007
          <androidx.constraintlayout.widget.ConstraintLayout</p>
              android:layout_width="@dimen/point_circle_diameter"
00008
               android:layout_height="@dimen/point_circle_diameter"
00009
               android:translationZ="5dp"
00010
00011
               app:layout_constraintEnd_toEndOf="parent"
00012
               app:layout_constraintStart_toStartOf="parent"
00013
              app:layout_constraintTop_toTopOf="parent">
00014
00015
               <ImageView
00016
                   android:id="@+id/pointBall"
00017
                   android:layout_width="match_parent"
00018
                   android:layout_height="match_parent"
                   android:background="@null"
00019
                   android:contentDescription="@string/content_description_row_pointball"
00020
                   android:scaleType="fitXY"
00021
00022
                   android:src="?attr/point_ball_mipmap"
00023
                   android:translationZ="5dp" />
00024
00025
               <TextView
00026
                   android:id="@+id/pointView"
00027
                   android:layout_width="match_parent"
                   android:layout_height="match_parent"
00028
00029
                   android:gravity="center"
00030
                   android:textColor="@color/circle_text"
                   android:textSize="@dimen/point_circle_textSize" android:translationZ="10dp" />
00031
00032
          </androidx.constraintlayout.widget.ConstraintLayout>
00033
00034
00035
          <ImageView
00036
               android:id="@+id/weatherView"
00037
               android:layout_width="0dp"
               android:layout_height="0dp"
00038
               android:layout_marginTop="@dimen/point_circle_diameter_div2"
00039
               android:contentDescription="@string/content_description_row_weather"
00040
00041
               android:scaleType="centerCrop"
00042
               app:layout_constraintBottom_toTopOf="@id/hornView"
              app:layout_constraintDimensionRatio="1048:674" app:layout_constraintEnd_toEndOf="@id/cardView"
00043
00044
00045
               app:layout_constraintStart_toStartOf="@id/cardView"
00046
               app:layout_constraintTop_toTopOf="parent"
00047
               app:srcCompat="@drawable/good_weather" />
```

6.94 icon launcher.xml 273

```
00048
00049
          <ImageView
00050
              android:id="@+id/hornView"
00051
              android:layout_width="0dp"
              android:layout_height="0dp"
00052
00053
              android:contentDescription="@string/content_description_row_horn"
              android:scaleType="centerCrop"
00055
              app:layout_constraintBottom_toTopOf="@id/cardView"
00056
              app:layout_constraintDimensionRatio="1048:674"
00057
              app:layout_constraintEnd_toEndOf="@id/cardView"
              app:layout_constraintStart_toStartOf="@id/cardView"
00058
              app:layout_constraintTop_toBottomOf="@id/weatherView"
00059
00060
              app:srcCompat="@drawable/horn_grey" />
00061
00062
          <androidx.constraintlayout.widget.ConstraintLayout</pre>
00063
              android:id="@+id/cardView"
              android:layout_width="wrap_content"
00064
              android:layout_height="0dp"
00065
00066
              app:layout_constraintBottom_toBottomOf="parent"
00067
              app:layout_constraintEnd_toEndOf="parent
              app:layout_constraintStart_toStartOf="parent"
00068
00069
              app:layout_constraintTop_toBottomOf="@id/hornView">
00070
00071
              <ImageView
00072
                  android:id="@+id/cardsImage"
00073
                  android:layout_width="match_parent"
00074
                  android:layout_height="match_parent"
00075
                  android:contentDescription="@string/content_description_row_card"
00076
                  android:src="?attr/card_view_mipmap"
                  android:translationZ="5dp" />
00077
00078
00079
              <TextView
00080
                  android:id="@+id/cardCountView"
00081
                  android:layout_width="wrap_content"
                  android:layout_height="wrap_content"
android:textColor="?attr/card_count_text_color"
00082
00083
                  android:textSize="@dimen/card_count_textSize"
00084
                  android:translationZ="10dp"
00086
                  app:layout_constraintBottom_toBottomOf="parent"
00087
                   app:layout_constraintEnd_toEndOf="parent"
00088
                  app:layout_constraintStart_toStartOf="parent"
                  app:layout_constraintTop_toTopOf="parent" />
00089
00090
          </androidx.constraintlayout.widget.ConstraintLayout>
00091 </androidx.constraintlayout.widget.ConstraintLayout>
```

6.94 icon launcher.xml

6.95 icon launcher round.xml

6.96 strings.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <resources>
00003
           <string name="app_name">Gwint</string>
00004
          <string name="app_description">Eine App, die es ermöglicht, das Kartenspiel Gwint aus The Witcher
      00005
00006
00007
          <string name="faction_nilfgaard">Kaiserreich Nilfgaard/string>
00008
          <string name="faction_northern_kingdoms">Nördliche Königreiche</string>
00009
00010
          <string name="popUp_cards_add">Karte hinzufügen</string>
          <string name="popUp_cards_save">Speichern</string
<string name="popUp_cards_save">Speichern</string>
<string name="popUp_add_card_label_dmg">Stärke</string>
00011
00012
00013
          <string name="popUp_add_card_label_ability">Fähigkeit</string>
```

```
<string name="popUp_add_card_label_binding">Gruppe</string>
           <string name="popUp_add_card_label_number">Anzahl</string>
00015
00016
          <string name="popUp_coin_normal_win">Du beginnst.</string>
<string name="popUp_coin_normal_lose">Dein Gegner beginnt.</string>
00017
00018
           <string name="popUp_coin_terry_1">Terry Jeffords hat die Münze verbogen!</string>
00019
           <string name="popUp_coin_stewie_1">Chris Griffin hat die Münze gegessen!</string>
00020
00021
           <string name="popUp_coin_vin">Vin hat Stahl verbrannt und die Münze weggedrückt!</string>
00022
00023
          <string name="unit_toString">%1$s%2$s (%3$d) - Fähigkeit: %4$s %5$s</string>
          <string name="unit_toString_multiplicity">%1$dx %2$sc/string>
<string name="unit_toString_melee">Nahkampf</string>
00024
00025
           <string name="unit_toString_range">Fernkampf</string>
00026
           <string name="unit_toString_siege">Belagerungs</string>
00027
          <string name="unit_toString_epic">held</string>
<string name="unit_toString_epic">held</string>
<string name="unit_toString_unit">einheit</string>
<string name="unit_toString_ability_none">Keine</string>
<string name="unit_toString_squad">(%1$d)</string>
00028
00029
00030
00031
           <string name="unit_collection_toString_accumulation_word">%1$s und %2$s</string>
00033
00034
           <string name="alertDialog_cancel">Abbrechen</string>
00035
00036
          <string name="alertDialog_burn_title">Verbrennen</string>
          <string name="alertDialog_burn_positive">Verbrennen</string>
00037
00038
           <string name="alertDialog_burn_msg">Möchtest du wirklich %1$s verbrennen?</string>
           <string name="alertDialog_burn_negative">Nicht verbrennen</string>
00039
00040
00041
           <string name="alertDialog_reset_title">Spielfeld zurücksetzen</string>
           <string name="alertDialog_reset_msg_default">Willst du wirklich das gesamte Spielfeld
00042
      zurücksetzen?</string>
      00043
          <string name="alertDialog_reset_checkbox">Die Fähigkeit der Monsterfraktion auslösen (du behältst
00044
      eine zufällige Einheit)</string>
          <string name="alertDialog_factionreset_monster_toast_keep">Du behältst: %1$s</string>
<string name="alertDialog_reset_positive">Zurücksetzen</string>
00045
00046
00047
          <string name="alertDialog_reset_negative">Nicht zurücksetzen</string>
00049
           <string name="alertDialog_revenge_title">Rächerfähigkeit</string>
          <string name="alertDialog_revenge_msg">Du hast eine Einheit vom Spielfeld entfernt, die einen
00050
      Rächer herbeirufen kann. Möchtest du diese Fähigkeit auslösen?</string>
00051
          <string name="alertDialog_revenge_positive">Rächer rufen</string>
00052
00053
           <string name="preference_design">Hintergrundbild</string>
           <string name="preference_warnings_title">Warnungen</string>
00054
00055
          <string name="preference_warnings_desc">Legt fest, ob beim Zurücksetzen eine Warnung erscheinen
      soll.</string>
00056
          <string name="preference_faction_reset_title">Zurücksetzen bei Fraktionswechsel</string>
          <string name="preference_faction_reset_desc">Legt fest, ob das Spielfeld beim Fraktionswechsel
00057
      automatisch zurückgesetzt werden soll.</string>
00058
00059
           <string name="preference_sounds_header">Tonausgabe</string>
00060
          <string name="preference_sounds_category">Ereignisse</string>
          <string name="preference_sounds_cards_new">Neue Einheit
00061
          <string name="preference_sounds_cards_delete">Einheit entfernt</string>
00062
           <string name="preference_sounds_weather">Wetteränderung</string>
00063
           <string name="preference_sounds_horn">Horn des Kommandanten</string>
00064
00065
           <string name="preference_sounds_burn">Verbrennen</string>
00066
          <string name="preference_sounds_coin">Münzwurf</string>
00067
          <string name="preference_info_introduction">Einführung</string>
00068
00069
00070
          <string name="preference_rules_header">Spielregeln</string>
00071
           <string name="preference_rules_general_title">Allgemein</string>
00072
           <string name="preference_rules_course_title">Spielablauf</string>
          <string name="preference_rules_factions_title">Fraktionen</string>
00073
00074
           <string name="preference_rules_commander_title">Anführer</string>
           <string name="preference_rules_cards_title">Kartensatz und Spielfeld</string>
00075
00076
           <string name="preference_rules_card_abilities_title">Kartenfähigkeiten</string>
00077
          <string name="preference_rules_special_cards_title">Spezialkarten</string>
00078
00079
          <string name="introduction_button_skip">Überspringen</string>
          <string name="introduction_button_finish">Fertig</string>
00080
00081
00082
          <string name="content description activity main background">Hintergrundbild</string>
           <string name="content_description_activity_main_point_ball">Gesamtpunktzahl</string>
00083
00084
           <string name="content_description_activity_main_faction_button">Fraktionslogo</string>
00085
           <string name="content_description_activity_main_weather_button">Gutes-Wetter-Icon</string>
           <string name="content_description_activity_main_burn_button">Verbrennen-Icon/string>
00086
00087
           <string name="content_description_activity_main_coin_button">Münzen-Icon</string>
           <string name="content_description_activity_main_settings_button">Einstellungs-Icon</string>
00088
          <string name="content_description_card_ability">Fähigkeits-Icon</string>
<string name="content_description_card_delete">Löschen-Icon</string>
00090
00091
           <string name="content_description_card_copy">Kopieren-Icon</string>
           <string name="content_description_coinpopup_coin">Münze</string>
00092
          <string name="content_description_coinpopup_stewie_1">Chris Griffin, der betroffen die Arme
00093
      hebt</string>
```

6.96 strings.xml 275

```
<string name="content_description_coinpopup_stewie_2">Stewie Griffin, der etwas erzählt</string>
          <string name="content_description_coinpopup_stewie_3">Stewie Griffin, der etwas schreit</string>
00095
00096
          <string name="content_description_coinpopup_terry_1">Eine Münze, die verbogen auf einem Tisch
     liegt</string>
00097
         <string name="content description coinpopup terry 2">Jake Peralta (Andy Samberg), der erstaunt
      etwas sagt</string>
         <string name="content_description_coinpopup_terry_3">Terry Jeffords (Terry Crews), der wütend, mit
      erhobenem Finger etwas sagt und dabei von Charles Boyle (Joe Lo Truglio) erschrocken angesehen
      wird</string>
00099
         <string name="content_description_coinpopup_vin">Ein Bild von Vin aus der Mistborn-Reihe von
      Brandon Sanderson</string>
         <string name="content_description_factionpopup_monster">Karte mit Symbol der
00100
      Monsterfraktion</string>
          <string name="content_description_factionpopup_nilfgaard">Karte mit Symbol der
00101
      Kaiserreich-Nilfgaard-Fraktion</string>
00102
          <string name="content_description_factionpopup_northern_kingdoms">Karte mit Symbol der
     Nördliche-Königreiche-Fraktion</string>
          <string name="content_description_factionpopup_scoiatael">Karte mit Symbol der
00103
     Scoia\'taelfraktion</string>
00104
         <string name="content_description_row_pointball">Punktanzeige der Angriffsreihe</string>
          <string name="content_description_row_weather">Wetteranzeige der Angriffsreihe</string>
00105
00106
          <string name="content_description_row_horn">Hornanzeige der Angriffsreihe</string>
          <string name="content_description_row_card">Kartenanzeige der Angriffsreihe</string>
00107
          <string name="content_description_introduction_image">Screenshots der App</string>
00108
          <string name="content_description_introduction_indicator">Punkt, der den Fortschritt der
00109
     Einführung zeigt</string>
00110
         <string name="content_description_introduction_next">Pfeil, der zum nächsten Schritt
      führt</string>
00111
         <string name="rules_general_text"><![CDATA[<p>Gwint ist ein altes Kartenspiel für zwei Spieler,
00112
      das vor allem bei Zwergen beliebt ist. Es stellt die Konfrontation zweier Armeen in einer Schlacht
      nach. Die Spieler sind die Generäle und die Karten ihre Streitkräfte. Jeder Gwintspieler verwendet
      seinen eigenen, individuell zusammengestellten Kartensatz. Für jede der vier Fraktionen lässt sich ein
      eigenes Deck erstellen: Monster, Kaiserreich Nilfgaard, Nördliche Königreiche und Scoia\'tael. Jede
      Fraktion enthält einige einzigartige Karten, die eine unterschiedliche Spielweise ermöglichen. Des
      Weiteren gibt es eine Anzahl neutraler Karten, die in allen vier Fraktionen eingesetzt werden können.
      Ziel des Spiels ist es, den Gegner zu besiegen, indem man in zwei von drei Runden eine höhere
      Punktzahl als der Gegner erreicht.]]></string>
          <string name="rules_course_text"><![CDATA[<p>Zu Beginn der ersten Runde ziehen beide Spieler
      jeweils 10 Karten aus ihrem Deck. Danach dürfen zwei Karten abgelegt und neu gezogen werden. Dieser
      Schritt ist optional, die abgelegten Karten werden wieder in den Nachziehstapel eingemischt. Der
      Spieler, der den ersten Zug macht, wird per Münzwurf ermittelt.
<br/>
00114
         Die Spieler legen abwechselnd Karten. Es besteht Legezwang! Wenn ein Spieler keine Karte
      ausspielen möchte, muss er passen und darf den Rest der Runde keinen Spielzug mehr durchführen.
      Daraufhin kann der Gegner noch weitere Karten ausspielen, bis er selbst passt. Sollte ein Spieler
      keine Handkarten mehr haben, muss er ebenfalls passen.<br/>>
00115
         Wenn beide Spieler gepasst haben, ist die Runde beendet und der Gewinner wird anhand der
      Gesamtstärke der Einheiten ermittelt. Sollte die Gesamtstärke gleich sein, zählt die Runde als Sieg
      für beide Spieler. Nun werden alle Karten vom Spielfeld auf den Ablagestapel gelegt. Die Handkarten
      werden in der nächsten Runde weiter verwendet, es werden keine neuen Karten gezogen. Der Gewinner hat
      in der nächsten Runde den ersten Zug. Bei Unentschieden beginnt derjenige, der in der vergangenen
      Runde den zweiten Zug hatte. Ziel des Spiels ist es, zwei Runden zu gewinnen.
00116
         ]]></string>
00117
          <string name="rules_factions_text"><![CDATA[<p>
         Bei Gwint unterscheidet man vier Fraktionen: Monster, Kaiserreich Nilfgaard, Nördliche Königreiche
00118
      und die Scoia\'tael. Jede dieser Fraktionen besitzt einzigartige Karten, Anführer und jeweils einen
      bestimmten Fraktionsvorteil. Zusätzlich gibt es noch neutrale Einheiten, welche keiner Fraktion
      zugehörig sind und somit in jedem Deck auftauchen können.
         Die Monster werden vom König der Wilden Jagd Eredin Bréacc Glas, auch Sperber genannt, angeführt.
00119
     Ihr Vorteil ist die Eisenhaut, welche es ermöglicht, dass nach jeder Runde eine zufällige Einheit auf
      dem Feld verbleibt.<br />
         Emhyr var Emreis, der sich auch "Die Weiße Flamme, Die Auf den Grabhügeln Der Feinde tanzt" nennt,
00120
      ist Kaiser von Nilfgaard, dessen Stärke der Verrat ist. Dieser ermöglicht es, dass Spieler mit einem
      Nilfgaard-Deck jede Runde gewinnen, die sonst als Unentschieden enden würde. <br/> />
         Den expandierenden Nilfgaardern stellen sich die Nördlichen Königreiche unter Foltest, König
00121
      Temeriens, entgegen. Diese erhalten nach einer gewonnenen Runde eine Verstärkung, dürfen also eine
      Karte vom Nachziehstapel ziehen.<br />
00122
         In ihrem Kampf versuchen die Königreiche, Anderlinge zu dezimieren, darunter die Scoia\'tael,
      welche als nicht-menschliche Rebellen gegen die Repressionen aufbegehren und sich dafür den Hinterhalt
      zunutze machen: Die Scoia\'tael können in der ersten Runde entscheiden, wer den ersten Zug macht. Sie
      werden von der Elfin Francesca Findabair angeführt, die auch als Enid an Gleanna (Gänseblümchen des
      Tals) bekannt ist.
00123
          ]]></string>
          <string name="rules_commander_text"><![CDATA[<p>
00124
00125
          Jede Fraktion besitzt bestimmte Anführer mit unterschiedlichen Fähigkeiten. Diese werden hier
      aufgezählt.
00126
          <h1>Monster: Eredin Bréacc Glas</h1>
00127
          Der Trügerische: <br />Passiv - Verdoppelt die Stärke aller Karten mit der Fähigkeit "Spion"
      (wirkt auf beide Spieler).
00128
          Kartensatz.
00129
          Führer der Roten Reiter: <br/> />Durchsuche deinen Nachziehstapel nach einer Wetterkarte und
      spiele sie sofort aus.
00130
         König der Wilden Jagd: <br/> />Verdopple die Stärke deiner Nahkampfeinheiten, sofern kein "Horn
     des Kommandanten" in der Reihe liegt.
00131
          Zerstörer der Welten: <br />Nimm eine Karte von deinem Ablagestapel zurück auf die Hand.
00132
          <h1>Kaiserreich Nilfgaard: Emhyr var Emreis</h1>
```

```
Die Weiße Flamme: <br />Lass die Anführer-Fähigkeit deines Gegners unwirksam werden.
00134
00135
             Invasor des Nordens: <br/> />Fähigkeiten, die Einheiten auf dem Schlachtfeld wiederherstellen,
        stellen zufällig ausgewählte Einheiten wieder her. Wirkt auf beide Spieler.
00136
             Kaiser von Nilfgaard: <br />Schau dir drei zufällig gewählte Karten aus der Hand deines Gegners
       an.
00137
             Kaiserliche Majestät: <br />Durchsuche deinen Nachziehstapel nach "Strömender Regen" und spiele
        die Karte sofort aus.
00138
             <h1>Nördliche Königreiche: Foltest</h1>
00139
             Der Stählerne: <br />Zerstöre die stärkste(n) Belagerungseinheit(en) des Gegners, sofern deren
       Gesamtstärke mindestens 10 beträgt.
             Oper Anführer des Nordens: <br/>Sentferne durch "Klirrende Kälte", "Strömender Regen" und
00140
        00141
        Kommandanten" in der Reihe liegt.
00142
             die Karte sofort aus.
             Sohn des Medell: <br/> <br/> />Zerstöre die stärkste(n) Fernkampfeinheit(en) des Gegners, wenn die
00143
       Gesamtstärke seiner Fernkampfeinheiten mindestens 10 beträgt.
00144
             <h1>Scoia\'tael: Francesca Findabair</h1>
             Gänseblümchen des Tals: <br />Zieh zu Beginn der Schlacht eine Extrakarte.
00145
00146
             00147
       die Gesamtstärke seiner Nahkampfeinheiten mindestens 10 beträgt.
             Die Schöne: <br />Verdopple die Stärke deiner Fernkampfeinheiten, sofern kein "Horn des
        Kommandanten" in der Reihe liegt.
00149
             Reinblütige Elfin: <br />Durchsuche deinen Nachziehstapel nach "Klirrende Kälte" und spiele die
       Karte sofort aus.
00150
             ]]></string>
00151
             <string name="rules_cards_text"><![CDATA[<p>
00152
             Man unterscheidet bei den Kartentypen in drei Hauptkategorien: Anführer-, Einheiten- und
        Sonderkarten. In jedem Kartensatz gibt es genau eine Anführerkarte (je Fraktion kann der Spieler
        zwischen vier unterschiedlichen wählen). Diese hat eine bestimmte Fähigkeit, die nur einmal im ganzen
        Spiel während eines Zuges aktiviert werden kann, dafür aber unabhängig von den Handkarten immer
        verfügbar ist.<br />
       Dazu kommen mindestens 22 Einheitenkarten, zu denen auch die Heldenkarten zählen. Letztere sind gegen Karteneffekte jeglicher Art (positiv wie negativ) immun. Die Einheitenkarten werden während
00153
        eines Spielzuges in Angriffsreihen gelegt. Jeder Spieler besitzt davon drei, jeweils eine für
        Nahkämpfer, Fernkämpfer und Belagerungsgeräte. In welche dieser Reihen die Einheit gelegt werden kann,
        erkennt man am orange hinterlegten Symbol.<br />
            Schließlich gibt es noch maximal zehn Sonderkarten, zu denen "Finte", "Verbrennen", "Horn des
00154
       \texttt{Kommandanten} \verb"und" die Wetterkarten geh\"{o}ren (\texttt{Effektbeschreibungen sind unter "Spezialkarten"}) and \texttt{Spezialkarten} \verb"variation" and \texttt{Spezialkarten} and \texttt{Spezi
        nachzulesen). Wetterkarten werden in einen abgesonderten Bereich des Spielfelds platziert, da sie die
        Reihen beider Spieler betreffen. Das Horn des Kommandanten wird an die Reihe angelegt, für die es
        ausgespielt wird.
00155
             ]]></string>
             <string name="rules_card_abilities_text"><![CDATA[</pre>
00156
             00157
00158
       des Gegners angerechnet - und ziehe zwei Karten.
00159
             Enge Bindung: <br />Liegt diese Karte neben einer mit demselben Namen, verdopple die Stärke
       beider Karten.
00160
             Musterung: <br />Wird diese Karte gespielt, durchsuche deinen Nachziehstapel nach Einheiten mit
       demselben Namen und spiele diese sofort aus.
             Moralschub: <br/>Verstärke alle anderen Einheiten der Reihe um einen Stärkepunkt.
00161
             Heilung: <br/>
Sp>Heilung: <br/>
Sp / Wird diese Karte gespielt, wähle eine Einheitenkarte aus deinem Ablagestapel
00162
        (Heldenkarten ausgenommen) und spiele diese aus. Karten mit der Fähigkeit Gewandtheit müssen wieder in
        ihre ursprüngliche Reihe zurückgelegt werden.
00163
             Horn des Kommandanten: <br/> <br/> />Verdoppele die Stärke aller anderen Einheitenkarten dieser Reihe.
        Dieser Effekt kumuliert nicht mit dem Effekt der Spezialkarte Horn des Kommandanten! Liegen also beide
        Karten in der Angriffsreihe, wird der Schaden aller Einheiten (einschließlich dieser) nur einmal
        verdoppelt.
             Gewandtheit: <br />Platziere diese Karte in der Nah- oder Fernkampfreihe. Nach dem Ausspielen
       kannst du sie nicht mehr verschieben.
00165
             {\tt Gesamtst\"{a}rke \ seiner \ Nahkampfeinheiten \ mindestens \ 10 \ betr\"{a}gt.}
             Rächer herbeirufen: <pr />Wird diese Karte vom Spielfeld entfernt (egal auf welche Art), wird
00166
       ein Rächer herbeigerufen.
00167
             ]]></string>
             <string name="rules_special_cards_text"><![CDATA[</pre>
00168
00169
             Spezialkarten können alternativ zu Einheitenkarten gespielt werden, wobei bestimmte Effekte
        ausgelöst werden, die hier erklärt werden.
00170
             Klirrende Kälte: <br />Setze die Stärke aller Nahkampfeinheiten beider Spieler auf 1. Wenn
       diese Karte bereits ausgespielt wurde, lege sie sofort auf den Ablagestapel.
             Wenn diese Karte bereits ausgespielt wurde, lege sie sofort auf den Ablagestapel.
00172
             Strömender Regen: <br/> />Setze die Stärke aller Belagerungseinheiten beider Spieler auf 1. Wenn
       diese Karte bereits ausgespielt wurde, lege sie sofort auf den Ablagestapel.
00173
             Gutes Wetter: <br/> />Entferne alle Effekte von Wetterkarten und lege sie mit dieser Karte auf
       den Ablagestapel.
00174
             Finte: <br />Tausche diese Karte gegen eine Einheitenkarte auf dem Schlachtfeld aus, um sie
        wieder deiner Hand hinzuzufügen. 
00175
             Horn des Kommandanten: <br/> <br/> Verdoppele die Stärke aller Einheitenkarte dieser Reihe (maximal
        einmal pro Reihe). Dieser Effekt kumuliert nicht mit dem Karteneffekt Rittersporns! Liegen also beide
        Karten in der Angriffsreihe, wird der Schaden aller Einheiten (einschließlich Rittersporn) nur einmal
```

verdoppelt.

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```
lege sie mit dieser Karte auf den Ablagestapel.
00177
         ]]></string>
         <string name="introduction_page1"><![CDATA[</pre>
00178
         Danke, dass du "Gwint - Eine Rechenhilfe" installiert hast! Bitte beachte, dass diese App nur
00179
     dazu da ist, dich bei einem Spiel mit analogen Gwintkarten zu unterstützen, indem sie deinen
     Punktestand errechnet. Du kannst in dieser App nicht gegen KI-Gegner oder ohne analoge Gwintkarten
00180
         Also falls du es noch nicht getan hast: Drucke dir einen Satz Gwintkarten aus (<a</p>
     href="https://github.com/PeterNaggschga/Gwent#overview">Anleitung hier</a>) und suche dir einen
     Gegner, der dasselbe tut (ihr braucht beide diese App)!
00181
         11></string>
00182
          <string name="introduction_page2"><![CDATA[</pre>
         Dein Spielfeld besteht aus drei Angriffsreihen: Nahkampfreihe, Fernkampfreihe und
00183
     Belagerungsreihe (von links nach rechts). In diese Reihen werden die Einheitenkarten beim Ausspielen
      gelegt. Jede Angriffsreihe kann außerdem durch eine bestimmte Wetterlage geschwächt oder durch ein
     Horn des Kommandanten verstärkt werden.
00184
         11></string>
          <string name="introduction_page3"><![CDATA[</pre>
00186
         Die Angriffsreihen sind wie folgt aufgebaut:
          1: Die Gesamtstärke aller Einheiten in der Reihe.
00187
00188
          2: Das aktuelle Wetter (kann durch antippen geändert werden).
00189
         3: Die Verstärkung durch ein Horn des Kommandanten (kann durch antippen geändert werden).
00190
         <p: Die Anzahl der Einheiten in dieser Reihe (durch Tippen können Einheiten hinzugefügt oder</p>
     entfernt werden).
00191
         ]]></string>
          <string name="introduction_page4"><![CDATA[</pre>
00192
         Neben deinem eigentlichen Spielfeld gibt es an der Seite ein Menü mit weiteren nützlichen
00193
     Funktionen:
00194
         1: Gesamtstärke aller Einheiten auf dem Spielfeld
00195
         2: Fraktion ändern
00196
         3: Spielfeld zurücksetzen
00197
          4: Wettereffekte entfernen
00198
          >5: Stärkste Einheit(en) verbrennen
00199
         6: Münzwurf
00200
         7: Einstellungen
00201
         1]></string>
         <string name="introduction_page5"><![CDATA[</pre>
00203
          Weitere Informationen zum Spiel und seinen Regeln findest du in den Einstellungen. Dort kannst
     du diese Tour auch wiederholen!
00204
         Doch jetzt erstmal: viel Spaß mit analogem Gwint! Über Verbesserungsvorschläge, Fehlermeldungen
     und sonstiges Feedback freue ich mich sehr, nutze dazu gerne den <a
     href="https://play.google.com/store/apps/details?id=com.peternaggschga.gwint">Google Play Store</a>
     oder <a href="https://github.com/PeterNaggschga/Gwent/issues/new/choose">GitHub</a>!
         ]]></string>
00206
          <string name="faction_monster">Monster</string>
         <string name="array_design_jaskier">Fittersporn</string>
<string name="array_design_default">Standard</string>
00207
00208
         <string name="array_design_geralt">Geralt von Riva</string>
00209
00210
         <string name="array_design_yennefer">Yennefer von Vengerberg</string>
         <string name="add_picker_epic_epic">Held</string>
         <string name="add_picker_ability_default">Keine</string>
00212
00213
         <string name="add_picker_ability_moralBoost">Moralschub</string>
         <string name="add_picker_ability_revenge">Rächer</string>
00214
         <string name="add_picker_ability_binding">Enge Bindung</string>
00215
         <string name="popUp_add_card_binding_count">Anzahl Einheiten in %1$d. Gruppe: %2$d</string>
00216
         <string name="alertDialog_revenge_negative">Nicht auslösen</string>
00218 </resources>
```

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```
00001 <resources>
           <string name="app_name">Gwent</string>
00002
           <string name="app_description">An app enabling you to play the Gwent card game from The Witcher 3
00003
      with analog cards.</string>
00004
00005
            <string name="faction_monster">Monsters</string>
00006
           <string name="faction_nilfgaard">Nilfgaardian Empire</string>
           <string name="faction_northern_kingdoms">Northern Kingdoms</string>
<string name="faction_scoiatael" translatable="false">Scoia\'tael</string>
00007
00008
00009
00010
            <string name="popUp_cards_add">Add card</string>
            <string name="popUp_cards_save">Save</string>
00011
           <string name="popUp_add_card_label_epic" translatable="false">Status</string>
<string name="add_picker_epic_normal" translatable="false">Normal</string>
00012
00013
           <string name="add_picker_epic_epic">Hero</string>
00014
            <string name="popUp_add_card_label_dmg">Strength</string>
00015
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00017
00018
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           <string name="add_picker_ability_horn" translatable="false">Horn</string>
<string name="add_picker_ability_revenge">Avenger</string>
00019
00020
           <string name="add_picker_ability_binding">Tight bond</string>
00021
00022
            <string name="popUp_add_card_label_binding">Squad</string>
           <string name="popUp_add_card_label_number">Number</string>
```

```
<string name="popUp_add_card_binding_count">Number of units in squad %1$d: %2$d</string>
00025
00026
                <string name="popUp_coin_normal_win">You begin.</string>
                <string name="popUp_coin_normal_lose">Your opponent begins.</string>
<string name="popUp_coin_terry_1">Terry Jeffords folded your coin!</string>
<string name="popUp_coin_terry_2" translatable="false">Oh my god! Did you just fold my quarter in
00027
00028
00029
         half?</string>
00030
                <string name="popUp_coin_terry_3" translatable="false">Fate\'s a bitch--you make the
         choice!</string>
               <string name="popUp_coin_stewie_1">Chris Griffin ate your coin!</string>
<string name="popUp_coin_stewie_2" translatable="false">But don\'t worry, it will come out of my
00031
00032
         body sooner or later!</string>

00033
         days -- but then pow! </string>
00035
                <string name="popUp_coin_vin">Vin burned steel and pushed away your coin!</string>
00036
00037
                <string name="unit toString">%1$s %2$s (%3$d) with %4$s ability %5$s</string>
                <string name="unit_toString_multiplicity">%1$dx %2$s</string>
                <string name="unit_toString_melee">Close combat</string>
00039
00040
                <string name="unit_toString_range">Ranged combat</string>
                <string name="unit_toString_siege">Siege combat</string>
<string name="unit_toString_epic">hero</string>
<string name="unit_toString_unit">vnit</string>
00041
00042
00043
                <string name="unit_toString_ability_none">no</string>
<string name="unit_toString_squad">(%1$d)</string>
00044
00045
00046
                <string name="unit_collection_toString_accumulation_symbol" translatable="false">%1$s,
         %2$s</string>
00047
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00048
00049
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00050
00051
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00052
                <string name="alertDialog_burn_positive">Scorch</string>
                <string name="alertDialog_burn_negative">Don\'t scorch</string>
00053
                <string name="alertDialog_burn_msg">Do you really want to scorch %1$s?</string>
00054
00055
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00057
                <string name="alertDialog_reset_msg_default">Do you really want to reset the board?</string>
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00058
         Do you really want to reset the board?</string>
                <string name="alertDialog_reset_checkbox">Activate perk of monster faction (you keep one random)
00059
         unit)</string>
00060
                <string name="alertDialog_factionreset_monster_toast_keep">You keep: %1$s</string>
                <string name="alertDialog_reset_positive">Reset</string>
00061
00062
                <string name="alertDialog_reset_negative">Don\'t reset</string>
00063
00064
                \verb| <string name="alertDialog_revenge_title" > Avenger ability < /string > Avenger ability < Avenger abil
                <string name="alertDialog_revenge_msg">You removed units that can summon an avenger. Do you want
00065
         to activate their ability?</string>
                <string name="alertDialog_revenge_positive">Summon avenger</string>
00066
                <string name="alertDialog_revenge_negative">Don\'t activate</string>
00067
00068
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<string name="array_design_geralt">Geralt of Rivia</string>
00069
00070
                <string name="array_design_ciri" translatable="false">Cirilla</string>
<string name="array_design_jaskier">Dandelion</string>
00071
00072
00073
                <string name="array_design_yennefer">Yennefer of Vengerberg</string>
00074
                <string name="array_design_eredin" translatable="false">Eredin Bréacc Glas</string>
00075
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00076
                <string name="preference_warnings_desc">Determines if warnings are shown before you can reset the
00077
         board.</string>
00078
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                <string name="preference_faction_reset_desc">Determines if the board is reset on change of
00079
         faction.</string>
08000
00081
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00082
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                <string name="preference_sounds_cards_new">New unit</string>
00083
00084
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00085
                <string name="preference_sounds_weather">Change of weather</string>
                <string name="preference_sounds_horn">Commander\'s horn</string>
<string name="preference_sounds_burn">Scorch</string>
00086
00087
00088
                <string name="preference_sounds_coin">Coin-flip</string>
00089
00090
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00091
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00092
00093
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00094
                <string name="preference_rules_course_title">Gameplay</string>
00095
00096
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00097
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                <string name="preference_rules_cards_title">Deck and playboard</string>
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00098
00099
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00100
```

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```
<string name="preference_rules_general_key" translatable="false">rules_general</string>
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00102
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<string name="preference_rules_cards_key" translatable="false">rules_cards</string>
00103
00104
00105
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00106
       translatable="false">rules_card_abilities</string>
00107
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       translatable="false">rules_special_cards</string>
00108
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00109
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00110
            <string name="introduction_button_finish">Finish</string>
00111
00112
00113
            <string name="content_description_activity_main_background">background</string>
            <string name="content_description_activity_main_point_ball">total score</string>
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00114
00115
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translatable="false">Reset-Icon</string>
00116
00117
            <string name="content_description_activity_main_weather_button">Clear-Weather-Icon/string>
            <string name="content_description_activity_main_burn_button">Scorch-Icon</string>
00118
00119
            <string name="content_description_activity_main_coin_button">Coin-Icon</string>
            <string name="content_description_activity_main_settings_button">Settings-Icon</string>
<string name="content_description_card_ability">Ability-Icon</string>
<string name="content_description_card_delete">Delete-Icon</string>
00120
00121
00122
            <string name="content_description_card_copy">Copy-Icon/string name="content_description_coinpopup_coin">coin/string>
00123
00124
            <string name="content_description_coinpopup_stewie_1">Chris Griffin who raises his arms in
00125
       consternation</string>
            <string name="content_description_coinpopup_stewie_2">Stewie Griffin who tells a story</string>
00126
            string name="content_description_coinpopup_stewie_3">Stewie Griffin who yells</string>
<string name="content_description_coinpopup_terry_1">A bent coin lying on a table</string>
<string name="content_description_coinpopup_terry_2">Jake Peralta (Andy Samberg) who says
00127
00128
00129
       something in astonishment</string>
       00130
00131
       Mistborn-series.</string>
00132
            <string name="content_description_factionpopup_monster">Card with symbol of monster
       faction</string>
00133
            <\!\!\!\text{string name} = \!\!\!\!\!\!\text{"content\_description\_factionpopup\_nilfgaard"} > \!\!\!\!\!\!\text{Card with symbol of nilfgaardian empire}
       faction</string>
            <string name="content_description_factionpopup_northern_kingdoms">Card with symbol of Northern
00134
       Kingdoms faction</string>
            <string name="content_description_factionpopup_scoiatael">Card with symbol of Scoia\'tael
       faction</string>
00136
            <string name="content_description_row_pointball">point display of combat row</string>
            <string name="content_description_row_weather">weather display of combat row/string>
00137
            <string name="content_description_row_horn">horn display of combat row</string>
<string name="content_description_row_card">card display of combat row</string>
00138
00139
            <string name="content_description_introduction_image">screenshots of this app</string>
            <string name="content_description_introduction_indicator">dot that indicates progress</string>
00141
00142
            <string name="content_description_introduction_next">forward arrow</string>
00143
            <string name="rules_general_text"><![CDATA[<p>Gwent is an old card game especially fancied by
00144
       dwarfs. It represents the confrontation of two opposing armies. The players are generals and cards represent their units. Every player uses his own unique deck of cards. Decks can be created for each
       of the four factions: Monsters, Nilfgaardian Empire, Northern Kingdoms and Scoia\'tael. Each faction
       has unique cards which lead to different play styles. Moreover, there are cards that can be used for
       every faction. Your goal is to win two rounds out of three by having more strength than your
       opponent.]]></string>
           <string name="rules_course_text"><![CDATA[<p>At the beginning of the first round each player draws
00145
       ten cards from their deck. After drawing, you can discard two cards and draw a new card for each. This step is optional, discarded cards are put back into the deck. The beginning player is determined by
       flipping a coin. <br/>br/>The players place cards alternately. You have to play one card every round! If a
       player doesn't want to play a card, they have to pass and aren't allowed to play another card until
       the round has ended. When one player passes, their opponent can still play cards until they pass too.
       If one of the opponents uses up all of his cards, he has to pass. Str />A round ends when both players
       pass. The player with the highest total score wins the round. When both opponents have the same number
       of points, the round is seen as a win for both sides. All cards are moved to the discard pile at the
       end of each round. Your hand is reused in the next round--you don\'t draw new cards. The winner of the
       last round gets the first turn. Goal of the game is to win two rounds.]]></string>
00146
            <string name="rules_factions_text"><![CDATA[<p>There are four factions: Monsters, Nilfgaardian
       Empire, Northern Kingdoms and Scoia\'tael. Every faction has got unique cards, leaders and perks.
       Moreover, there are some additional cards that are neutral and can be used in every faction.
King of monster faction is Eredin Bréacc Glas, also known as Sparrowhawk who is the King of the Wild Hunt.
       Their perk is iron skin which makes it possible to keep one unit at the end of each round />Emhyr
       var Emreis, also known as \"The White Flame Dancing on the Barrows of his Enemies\", is emperor of
       Nilfgaard. Treachery causes any player with a nilfgaardian deck to win if points draw level.<br/>
       />Archenemy of Nilfgaard is Foltest, King of Temeria and leader of the Northern Kingdoms faction. They
       are able to draw one card after a won round. <br/>br />In their fight, the Northern Kingdoms try to
       decimate Nonhumans which are represented by the Scoia/tael faction. Scoia/tael players may decide who gets the first turn in the first round. They are led by Francesca Findabair, also known as Enid an
       Gleanna (Daisy of the Valleys).]]></string>
            <string name="rules_commander_text"><![CDATA[<p>
00147
            Each faction has certain leaders with different abilities. They are listed here.
00148
00149
            <h5>Monsters: Eredin Bréacc Glas</h5>
```

```
00150
         The Treacherous: <br />Passive - Doubles the strength of all spy cards (affects both)
     players).
00151
         Springer of Death: <br/>
Are />Restore a card from your discard pile to your hand.
00152
         Commander of the Red Riders: <br/> <br/>Double the strength of all your Close combat units (unless a
     Commander\'s horn is also present in that row).
King of the Wild Hunt: <br />Pick any weather card from your deck and play it instantly.
00153
          Postroyer of Worlds: <br />Discard two cards and draw one card of your choice from your
00154
     deck.
00155
         <h5>Nilfgaardian Empire: Emhyr var Emreis</h5>
         The Relentless: <br />Draw a card from your opponent\'s discard pile.
The White Flame: <br />Cancel your opponent\'s Leader Ability.
00156
00157
          Invader of the North: <br />Abilities that restore a unit to the battlefield restore a
00158
     randomly-chosen unit. Affects both players.
00159
          Emperor of Nilfgaard: <br />Look at three random cards from your opponent\'s hand.
00160
         His Imperial Majesty: <br />Pick a Torrential Rain card from your deck and play it
     instantly.
00161
         <h5>Northern Kingdoms: Foltest</h5>
     The Steel-Forged: <br/> /Pestroy your enemy\'s strongest Siege unit(s) if the combined strength
of all their Siege units is 10 or more.
00162
         Torrential Rain or Impenetrable Fog cards) in play.
00164
         00165
00166
00167
         <h5>Scoia\'tael: Francesca Findabair</h5>
00168
         00169
          Hope of the Aen Seidhe: <br/>
<br/>
<br/>
Move agile units to whichever valid row maximizes their strength
     (don\'t move units already in optimal row).
     00170
         The Beautiful: <br/> <br/> />Doubles the strength of all your Ranged combat units (unless a
00171
     Commander\'s Horn is also present on that row).
00172
         Pureblood Elf: <br />Pick a Biting Frost card from your deck and play it instantly.
00173
         ]]></string>
          <string name="rules_cards_text"><![CDATA[<p>
00174
         There are three major types of cards: Leaders, units and Special Cards.
00176
         Each deck has one leader card.
00177
         It has a certain ability which can be activated once per game. <br/> />
00178
         Moreover, there are at least 22 Unit Cards including Heroes.
00179
         Heroes are immune to any boost or weakening.
         Units are played in turns.
00180
00181
         Each player has got three combat rows, one for Close combat, Ranged combat and Siege units each.
00182
         It can be seen on the cards which row must be used.<br/>>br />
00183
         Also there are Special Cards (maximum 10), \"Decoy\",
00184
         \"Scorch\", \"Commander\'s Horn\" and weather cards.
00185
         Weather cards are placed in a separate section of the board
         because they influence both players equally.
00186
         Commander\'s Horn is placed at the designated combat row.
00187
00188
         ]]></string>
          <string name="rules_card_abilities_text"><![CDATA[</pre>
00189
00190
         Some unit cards have got special abilities which are explained in the following.
00191
         Spy: <br />Must be placed on your opponent\'s battlefield (and counts toward your opponent\'s
     total score), and allows you to draw 2 cards extra from your deck.
00192
         Tight Bond: <br />When placed next to a card with the same name, double the strength of both
     cards.
00193
         Muster: <br/>Shr />When played, automatically find any cards with the same name in your deck and
     play them instantly.
00194
         Morale Boost: <br/> />When played, add +1 strength to all other units in the row it is played
     in.
00195
        Medic: <br/> <br/> Allow you to choose one card from your discard pile and play it instantly (no
     Heroes or Special Cards). Agile units have to be placed in the combat row they have been in
00196
         Commander\'s Horn: <br />Double the strength of all other units in this combat row.
00197
         Agile: <br/> />Can be placed in either the Close combat or the Ranged combat row. They cannot be
     moved once placed.
00198
         Scorch: <br />Kill the strongest card(s) in the specified row of the enemy.
         Summon Avenger: <br/>
Summon a powerful new unit card to take their place when they are removed
00199
     from the battlefield.
00200
         ]]></string>
00201
          <string name="rules_special_cards_text"><![CDATA[</pre>
00202
         Special Cards can be played instead of Unit Cards and trigger certain effects which are listed
     below.
00203
         Siting Frost: <br />Sets all Close combat units to strength 1 for both players.
          Impenetrable Fog: <br />Sets all Ranged combat units to strength 1 for both players.
00204
          Torrential Rain: <br />Sets all Siege units to strength 1 for both players.
00205
00206
          Clear Weather: <br />Removes all weather effects.
00207
         >Decoy: <br />Swap with a card on the battlefield.
         Commander\'s Horn: <br />Doubles the strength of the selected row.
00208
00209
         Scorch: <br />Discard after playing. Kills the strongest card(s) on the battlefield.
         ]]></string>

00211
00212
     you in playing Gwent using analog cards by calculating your points. This app does not allow you to
     00213
```

6.98 arrays.xml 281

```
href="https://github.com/PeterNaggschga/Gwent#overview">guidance here</a>) and find an opponent who
     does the same (both of you need to install this app).
00214
         ]]></string>
         <string name="introduction_page2"><![CDATA[</pre>
00215
         Your game board consists of three combat rows: Close combat, Ranged combat and Siege row
00216
00217
         (left to right).
00218
         These rows contain unit cards.
00219
         Each of them can be weakened by certain weather cards or boosted by a Commander\'s Horn.
00220
         ]]></string>
         <string name="introduction_page3"><![CDATA[</pre>
00221
         00222
00223
00224
         2: The current weather (can be changed by tapping).
00225
         3: The boost of a Commander\'s Horn (can be changed by tapping).
00226
         4: Number of units in this combat row (you can add or remove units by tapping).
00227
         ]]></string>
         <string name="introduction_page4"><![CDATA[</pre>
00228
00229
         Next to the game board there is a menu providing useful functions:
         1: Overall strength of all units
00231
         2: Change faction
00232
         3: Reset board
00233
         4: Clear weather
00234
         5: Scorch strongest unit(s)
00235
         6: Coin-flip
00236
         7: Settings
         ]]></string>
00237
         <string name="introduction_page5"><![CDATA[</pre>
00238
00239
         More information on Gwent and its rules can be found in the settings. There you can repeat this
     introduction too!
00240
         But first: Have fun with analog Gwent! Please use the <a
     href="https://play.google.com/store/apps/details?id=com.peternaggschga.gwint">Google Play Store</a> or
      a href="https://github.com/PeterNaggschga/Gwent/issues/new/choose">GitHub</a> to share improvement
     suggestions, bugs and other feedback with me!
00241
         ]]></string>
00242
         <string name="settings_title">Settings</string>
00243 </resources>
```

6.98 arrays.xml

```
00001 <resources>
00002
          <string-array name="design_names">
              <item>@string/array_design_default</item>
00004
              <item>@string/array_design_geralt</item>
00005
              <item>@string/array_design_ciri</item>
00006
              <item>@string/array_design_jaskier</item>
00007
              <item>@string/array_design_yennefer</item>
80000
              <item>@string/array_design_eredin</item>
         </string-array>
00010
00011
          <string-array name="design_values">
             <item>0</item>
00012
              <item>1</item>
00013
00014
              <item>2</item>
00015
              <item>3</item>
00016
              <item>4</item>
00017
              <item>5</item>
00018
         </string-array>
00019 </resources>
```

6.99 attr.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <resources>
00003
          <attr name="card_count_text_color" format="color" />
00004
00005
          <attr name="card_view_mipmap" format="reference" />
00006
00007
          <attr name="point ball mipmap" format="reference" />
00008
00009
          <attr name="card_background_color" format="reference" />
00010
00011
          <attr name="card background gradient" format="reference" />
00012
00013
          <attr name="card_view_button_background" format="reference" />
00014
00015
          <declare-styleable name="theme">
00016
             <attr name="point_ball_mipmap" />
              <attr name="card_view_mipmap" />
00017
              <attr name="colorPrimary" />
00018
              <attr name="android:alertDialogIcon" />
00019
          </declare-styleable>
00020
00021 </resources>
```

6.100 colors.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <resources>
          <color name="circle text">#000000</color>
00003
00004
00005
          <color name="color_popup_background">#BF000000</color>
          <color name="color_popup_cancel_text">#FFFFFF</color>
00006
00007
          <color name="color_coin_text">#FFFFFF</color>
          <color name="color_cancel_popup_background">#505050</color>
00008
          <color name="color_cancel_popup_background_gradient">#000000</color>
<color name="color_damage_textColor">#2F1700</color>
00009
00010
          <color name="color_damage_textColor_buffed">#10A010</color>
00012
          <color name="color_damage_textColor_debuffed">#E42020</color>
00013
00014
          <color name="color_text_scoiatael">#CAC559</color>
          <color name="color_background_scoiatael">#339300</color>
00015
          <color name="color_gradient_scoiatael">#164000</color>
00016
00017
          <color name="color_accent_scoiatael">#52EC00</color>
00018
          <color name="color_card_view_button_background_scoiatael">#40B900</color>
00019
00020
          <color name="color_text_monster">#B6D1DB</color>
          <color name="color_background_monster">#99030E</color>
00021
          <color name="color_gradient_monster">#430008</color>
00022
          <color name="color_accent_monster">#FF1F30</color>
00023
00024
          <color name="color_card_view_button_background_monster">#C80917</color>
00025
00026
          <color name="color_text_northern_kingdoms">#D9D9D9</color>
          <color name="color_background_northern_kingdoms">#005ADF</color>
00027
          <color name="color_gradient_northern_kingdoms">#002E71</color>
00028
00029
          <color name="color_accent_northern_kingdoms">#3285FF</color>
          <color name="color_card_view_button_background_northern_kingdoms">#003B92</color>
00031
00032
          <color name="color_text_nilfgaard">#EFC561</color>
00033
          <color name="color_background_nilfgaard">#424242</color>
          <color name="color_gradient_nilfgaard">#0C0C0C</color>
00034
          <color name="color_accent_nilfgaard">#CCCCCC</color>
00035
00036
          <color name="color_card_view_button_background_nilfgaard">#787878</color>
00037 </resources>
```

6.101 dimens.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <resources>
00003
          <dimen name="point_circle_diameter">80dp</dimen>
          <dimen name="point_circle_diameter_div2">40dp/dimen>
<dimen name="point_circle_textSize">40sp</dimen>
00004
00005
          <dimen name="overall_point_circle_textSize">45sp</dimen>
00006
00007
          <dimen name="card_count_textSize">40sp</dimen>
00008
          <dimen name="border_margin">8dp</dimen>
<dimen name="margin_row_buttons">16dp</dimen>
00009
00010
00011
          <dimen name="margin_menu_buttons">12dp</dimen>
00012
00013
          <dimen name="rectangle_height">65dp</dimen>
00014
          <dimen name="rectangle_stroke_width">4dp</dimen>
          <dimen name="rectangle_corner_radius">15dp</dimen>
00015
          <dimen name="rectangle_textSize">20sp</dimen>
00016
00017
00018
          <dimen name="popUp_faction_button_max_width">200dp</dimen>
          <dimen name="popUp_faction_margin">24dp</dimen>
00019
00020
00021
          <dimen name="popUp_card_list_height">240dp</dimen>
          <dimen name="popUp_card_width">160dp</dimen>
00022
          <dimen name="popUp_card_textSize">22sp</dimen>
00023
          <dimen name="popUp_card_button_width">200dp</dimen>
00024
00025
          <dimen name="popUp_card_button_height">80dp</dimen>
00026
          <dimen name="popUp_card_image_diameter">50dp</dimen>
00027
          <dimen name="popUp_card_button_margin">75dp</dimen>
00028
          <dimen name="popUp_add_card_label_textSize">21sp</dimen>
00029
00030
          <dimen name="popUp_add_card_label_marginBottom">24dp</dimen>
00031
          <dimen name="popUp_add_card_max_card_height">300dp</dimen>
00032
00033
          <dimen name="popUp_coin_textview_max_width">275dp</dimen>
00034
          <dimen name="popUp_coin_diameter">90dp</dimen>
          00035
00036
00037
          <dimen name="popUp_coin_dialog_textSize">18sp</dimen>
00038
00039
          <dimen name="alertDialog_checkBox_marginStart">40dp</dimen>
          <dimen name="alertDialog_checkBox_marginEnd">25dp</dimen>
00040
          <dimen name="alertDialog_checkBox_minHeight">48dp</dimen>
00041
00042
```

6.102 icon_launcher_background.xml

6.103 preferences.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <resources>
00003
            <string name="preference_key_design" translatable="false">design
00004
             <string name="design_preference_default" translatable="false">0</string>

<string name="warning_preference_default">translatable= laise /00/string/
<bool name="warning_preference_default">true</bool>
<string name="preference_key_warning" translatable="false">warnings</string>

00005
00006
00007
            <bool name="faction_reset_preference_default">false</bool>
             <string name="preference_key_faction_reset" translatable="false">factionReset</string>
00008
00009
            <string name="preference_key_introduction" translatable="false">introduction</string</pre>
00010
00011
            <!-- Sound preferences -->
            <bool name="sound_preference_default">true</pool>
00012
00013
00014
            <string name="preference_key_sounds_all" translatable="false">sound_all/string>
            <string name="preference_key_sounds_cards" translatable="false">sound_cards</string>
<string name="preference_key_sounds_reset" translatable="false">sound_reset</string>
00015
00016
            <string name="preference_key_sounds_weather" translatable="false">sound_weather</string>
<string name="preference_key_sounds_horn" translatable="false">sound_horn</string>
00017
00018
            <string name="preference_key_sounds_burn" translatable="false">sound_burn
00019
            <string name="preference_key_sounds_coin" translatable="false">sound_coin/string>
00021 </resources>
```

6.104 styles.xml

```
00001 <resources>
00002
           <style name="BaseTheme" parent="Theme.AppCompat.NoActionBar">
00003
               <item name="windowNoTitle">true</item>
00004
00005
               <item name="windowActionBar">false</item>
                <item name="android:windowFullscreen">true</item>
00007
               <item name="android:windowContentOverlay">@null</item>
00008
               <item name="android:windowTranslucentNavigation">true</item>
00009
           </style>
00010
00011
           <style name="MonsterTheme" parent="BaseTheme">
00012
               <item name="colorPrimary">@color/color_text_monster</item>
               <item name="colorAccent">@color/color_accent_monster</item>
00013
00014
               <item name="card_count_text_color">@color/color_text_monster</item>
               <item name="android:alertDialogIcon">@drawable/icon_round_monster</item>
<item name="point_ball_mipmap">@drawable/ball_red</item>
<item name="card_view_mipmap">@drawable/card_monster_landscape_free</item>
00015
00016
00017
               <item name="card_background_color">@color/color_background_monster</item>
00018
               <item name="card_background_gradient">@color/color_gradient_monster</item>
00019
00020
               <item name="card_view_button_background">@color/color_card_view_button_background_monster
               </item>
00021
          </style>
00022
00023
00024
           <style name="NilfgaardTheme" parent="BaseTheme">
                <item name="colorPrimary">@color/color_text_nilfgaard</item>
00025
               <item name="colorAccent">@color/color_accent_nilfgaard</item>
00026
00027
               <item name="card_count_text_color">@color/color_text_nilfgaard</item>
               <item name="android:alertDialogIcon">@drawable/icon_round_nilfgaard</item>
00028
               <item name="point_ball_mipmap">@drawable/lall_grey/item>
<item name="card_view_mipmap">@drawable/card_nilfgaard_landscape_free</item>
00029
00030
               <item name="card_background_color">@color/color_background_nilfgaard</item>
                <item name="card_background_gradient">@color/color_gradient_nilfgaard</item>
00032
00033
               <item name="card_view_button_background">
00034
                   {\tt @color/color\_card\_view\_button\_background\_nilfgaard}
               </item>
00035
00036
           </style>
```

```
00038
           <style name="NorthernKingdomsTheme" parent="BaseTheme">
00039
                <item name="colorPrimary">@color/color_text_northern_kingdoms</item>
                <item name="colorAccent">@color/color_accent_northern_kingdoms</item>
00040
                <item name="card_count_text_color">@color/color_text_northern_kingdoms</item>
00041
                <item name="android:alertDialogIcon">@drawable/icon_round_northern_kingdoms</item>
00042
                <item name="point_ball_mipmap">@drawable/ball_blue</item>
00044
                <item name="card_view_mipmap">@drawable/card_northern_kingdoms_landscape_free</item>
                <item name="card_background_color">@color/color_background_northern_kingdoms</item>
<item name="card_background_gradient">@color/color_gradient_northern_kingdoms</item>
00045
00046
                <item name="card_view_button_background">
00047
00048
                   @color/color_card_view_button_background_northern_kingdoms
                </item>
00049
           </style>
00050
00051
           00052
00053
00054
                <item name="card_count_text_color">@color/color_text_scoiatael</item>
                <item name="android:alertDialogIcon">@drawable/icon_round_scoiatael</item>
00056
00057
                <item name="point_ball_mipmap">@drawable/ball_green</item>
               <item name="card_view_mipmap">@drawable/card_scoiatael_landscape_free</item>
<item name="card_background_color">@color/color_background_scoiatael</item>
<item name="card_background_gradient">@color/color_gradient_scoiatael</item>
00058
00059
00060
00061
                <item name="card_view_button_background">
                    @color/color_card_view_button_background_scoiatael
00062
                </item>
00063
00064
           </style>
00065 </resources>
```

6.105 header_preferences.xml

```
00001 <PreferenceScreen xmlns:app="http://schemas.android.com/apk/res-auto">
00002
00003
           <ListPreference
00004
               app:defaultValue="0"
00005
               app:entries="@array/design_names"
               app:entryValues="@array/design_values" app:icon="@drawable/icon_design"
00006
00007
00008
               app:key="@string/preference_key_design"
               app:title="@string/preference_design"
00009
00010
               app:useSimpleSummaryProvider="true"
00011
00012
               app:defaultValue="@bool/warning_preference_default"
app:icon="@drawable/icon_warnings"
00013
00014
00015
               app:key="@string/preference_key_warning"
00016
               app:summary="@string/preference_warnings_desc"
               app:title="@string/preference_warnings_title" />
00017
00018
00019
           <SwitchPreference
               app:defaultValue="@bool/faction_reset_preference_default"
app:icon="@drawable/icon_factionreset"
00020
00021
00022
               app:key="@string/preference_key_faction_reset"
00023
               app:summary="@string/preference_faction_reset_desc"
00024
               app:title="@string/preference_faction_reset_title" />
00025
00026
00027
               \verb"app:fragment="com.peternaggschga.gwent.ui.settings.SettingsSoundFragment""
00028
               app:icon="@drawable/icon_sounds"
               app:title="@string/preference_sounds_header" />
00029
00030
00031
           <PreferenceCategory</pre>
00032
               app:allowDividerAbove="true"
               app:kev="info"
00033
00034
               app:title="@string/preference_info_category_header">
00035
00036
00037
                   app:fragment="com.peternaggschga.gwent.ui.settings.SettingsRuleFragment"
00038
                   app:icon="@drawable/icon_rules"
                   app:title="@string/preference_rules_header" />
00039
00040
00041
               <Preference
00042
                   app:icon="@drawable/icon_explore"
00043
                   app:key="@string/preference_key_introduction"
00044
                   app:title="@string/preference_info_introduction" />
00045
          </PreferenceCategory>
00046
00047 </PreferenceScreen>
```

6.106 rule preferences.xml

```
00001 <?xml version="1.0" encoding="utf-8"?>
00002 <PreferenceScreen xmlns:app="http://schemas.android.com/apk/res-auto">
00003
          <Preference
00004
              app:key="@string/preference_rules_general_key"
00005
              app:title="@string/preference_rules_general_title" />
00006
00007
00008
              app:key="@string/preference_rules_course_key"
              app:title="@string/preference_rules_course_title" />
00009
00010
00011
00012
              app:key="@string/preference_rules_factions_key"
00013
              app:title="@string/preference_rules_factions_title" />
00014
00015
          <Preference
00016
              app:key="@string/preference_rules_commander_key"
00017
              app:title="@string/preference_rules_commander_title" />
00018
00019
00020
              app:key="@string/preference_rules_cards_key"
00021
              app:title="@string/preference_rules_cards_title" />
00022
00023
00024
              app:key="@string/preference_rules_card_abilities_key"
00025
              app:title="@string/preference_rules_card_abilities_title" />
00026
00027
          <Preference
              app:key="@string/preference_rules_special_cards_key"
00028
              app:title="@string/preference_rules_special_cards_title" />
00029
00030 </PreferenceScreen>
```

6.107 sound_preferences.xml

```
00001 <PreferenceScreen xmlns:app="http://schemas.android.com/apk/res-auto">
00002
00003
           <SwitchPreference
                app:defaultValue="@bool/sound_preference_default"
00004
                app:iconSpaceReserved="false"
00005
00006
                app:key="@string/preference_key_sounds_all"
                app:title="@string/preference_sounds_header" />
00008
00009
           <PreferenceCategory</pre>
                app:allowDividerAbove="@bool/sound_preference_default"
00010
                app:dependency="@string/preference_key_sounds_all"
app:iconSpaceReserved="false"
00011
00012
00013
                app:title="@string/preference_sounds_category">
00014
00015
                <SwitchPreference
                    app:defaultValue="@bool/sound_preference_default" app:iconSpaceReserved="false"
00016
00017
00018
                    app:key="@string/preference_key_sounds_cards"
00019
                    app:title="@string/preference_sounds_cards_new" />
00020
00021
                <SwitchPreference
                    app:defaultValue="@bool/sound_preference_default"
00022
00023
                    app:iconSpaceReserved="false"
                    app:key="@string/preference_key_sounds_reset"
00024
00025
                    app:title="@string/preference_sounds_cards_delete" />
00026
00027
                    app:defaultValue="@bool/sound_preference_default"
app:iconSpaceReserved="false"
00028
00029
                    app:key="@string/preference_key_sounds_weather"
00030
00031
                    app:title="@string/preference_sounds_weather" />
00032
00033
                <SwitchPreference
00034
                    app:defaultValue="@bool/sound_preference_default"
                    app:iconSpaceReserved="false"
app:key="@string/preference_key_sounds_horn"
00035
00036
00037
                    app:title="@string/preference_sounds_horn" />
00038
00039
                    app:defaultValue="@bool/sound_preference_default" app:iconSpaceReserved="false"
00040
00041
00042
                    app:key="@string/preference_key_sounds_burn"
00043
                    app:title="@string/preference_sounds_burn" />
00044
                <SwitchPreference
00045
00046
                    app:defaultValue="@bool/sound_preference_default"
                    app:iconSpaceReserved="false"
app:key="@string/preference_key_sounds_coin"
00047
00048
                    app:title="@string/preference_sounds_coin" />
00049
```

00050 </PreferenceCategory>
00051 </PreferenceScreen>

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