Evolving Dungeon

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Namespace Index

1.1 Namespace List

ED::Constant											
Constants for the evolving dungeon game						 					

2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

sf::Drawable	
ED::System::Button	1
ED::System::Game	4
ED::System::GameState	5
ED::System::MenuState	ϵ
ED::System::PausedState	ę
ED::System::PlayingState	!1
$\label{eq:Resource} \textit{Resource}, \textit{ID} > \dots $	3
$\label{eq:Resources} \textit{Resources} < \textit{sf}:: \textit{Font}, \; \textit{ED}:: \textit{Font}:: \textit{ID} > \dots $	3
Resources < sf::Texture, ED::Texture::ID >	2

4 Hierarchical Index

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

EDSystembutton	
Class for clickable and non-clickable buttons	- 11
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The class responsible for running the application	14
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Namespace Documentation

5.1 ED::Constant Namespace Reference

Constants for the evolving dungeon game.

Enumerations

enum class ButtonType {
 none , startGame , unpauseGame , quitToMenu ,
 quitToDesktop }
 Types of buttons.

5.1.1 Detailed Description

Constants for the evolving dungeon game.

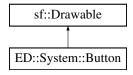
Class Documentation

6.1 ED::System::Button Class Reference

Class for clickable and non-clickable buttons.

#include <Button.hpp>

Inheritance diagram for ED::System::Button:



Public Member Functions

Button (std::string text, sf::Vector2f position, sf::Color color, sf::Color fontColor, Constant::ButtonType type, const Fonts &fonts)

Construct a new Button object (button is also used for non-clickable objects)

• Button ()=default

Construct a new Button object (button is also used for non-clickable objects)

• ∼Button ()

Destroy the Button object.

• void calcPosition ()

Calculate the position of the button's box and text.

• sf::Vector2f position () const

Get the position of the button.

void setPosition (sf::Vector2f)

Set the position of the button.

Constant::ButtonType type () const

Get the type of the button.

void setType (Constant::ButtonType)

Set the type of the button.

sf::Vector2f size () const

Get the size of the button.

void setString (std::string)

Set the button's text's string.

• std::string string () const

Get the button's text's string.

bool clickButton (sf::Vector2i mousePosition) const

6.1.1 Detailed Description

Class for clickable and non-clickable buttons.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 Button()

Construct a new Button object (button is also used for non-clickable objects)

Parameters

text	Text inside the button				
position	position Position of the button				
color	Color of the button				
fontColor	Color of the font				
type	Type of the button, e.g. is the button clickable or not				
fonts	Fonts used in the game				

6.1.3 Member Function Documentation

6.1.3.1 clickButton()

Parameters

may a Desition	Position of the mouse
mouserosidon	Fosition of the mouse

Returns

Whether mouse is over a clickable button or not

6.1.3.2 position()

```
sf::Vector2f ED::System::Button::position ( ) const
```

Get the position of the button.

Returns

Current position of the button

6.1.3.3 setPosition()

```
void ED::System::Button::setPosition ( sf:: Vector2f\ \textit{position}\ )
```

Set the position of the button.

Parameters

6.1.3.4 setString()

Set the button's text's string.

Parameters

string	The new button's text's string
--------	--------------------------------

6.1.3.5 setType()

Set the type of the button.

Parameters

type	The new type of the button
------	----------------------------

6.1.3.6 size()

```
sf::Vector2f ED::System::Button::size ( ) const
```

Get the size of the button.

Returns

Size of the button

6.1.3.7 string()

```
std::string ED::System::Button::string ( ) const
```

Get the button's text's string.

Returns

Button's text's string

6.1.3.8 type()

```
Constant::ButtonType ED::System::Button::type ( ) const
```

Get the type of the button.

Returns

Type of the button

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

- · include/system/Button.hpp
- · src/system/Button.cpp

6.2 ED::System::Game Class Reference

The class responsible for running the application.

```
#include <Game.hpp>
```

Public Member Functions

• Game ()

Construct a new Game object.

• void run ()

Run the game loop.

6.2.1 Detailed Description

The class responsible for running the application.

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

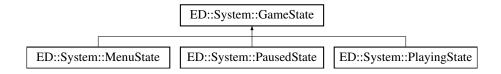
- include/system/Game.hpp
- src/system/Game.cpp

6.3 ED::System::GameState Class Reference

Abstract class for state of the game.

```
#include <GameState.hpp>
```

Inheritance diagram for ED::System::GameState:



Public Member Functions

virtual GameState * handleEvent (const sf::Event &)=0

Handle user input events.

virtual void update (sf::Time)=0

Update the state.

virtual void render ()=0

Render the state.

virtual ~GameState ()=default

Destroy the Game State object.

6.3.1 Detailed Description

Abstract class for state of the game.

6.3.2 Member Function Documentation

6.3.2.1 handleEvent()

Handle user input events.

Returns

Pointer to new current state or nullptr if did not change

Implemented in ED::System::MenuState, ED::System::PausedState, and ED::System::PlayingState.

6.3.2.2 render()

```
virtual void ED::System::GameState::render ( ) [pure virtual]
```

Render the state.

Implemented in ED::System::MenuState, ED::System::PausedState, and ED::System::PlayingState.

6.3.2.3 update()

Update the state.

Implemented in ED::System::MenuState, ED::System::PausedState, and ED::System::PlayingState.

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

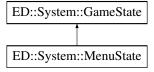
• include/system/states/GameState.hpp

6.4 ED::System::MenuState Class Reference

Class for the state of the game when inside menu.

```
#include <MenuState.hpp>
```

Inheritance diagram for ED::System::MenuState:



Public Member Functions

MenuState (sf::RenderWindow &window, const Fonts &fonts)

Construct a new Menu State object.

• GameState * handleEvent (const sf::Event &) final

Handle user input events.

void update (sf::Time) final

Update the state.

· void render () final

Render the state.

void setPlayingState (PlayingState &playingState)

Set the Playing State object.

Public Member Functions inherited from ED::System::GameState

• virtual ~GameState ()=default

Destroy the Game State object.

6.4.1 Detailed Description

Class for the state of the game when inside menu.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 MenuState()

Construct a new Menu State object.

Parameters

window	Window of the state
fonts	Fonts of the state

6.4.3 Member Function Documentation

6.4.3.1 handleEvent()

Handle user input events.

Returns

Pointer to new current state or nullptr if did not change

Implements ED::System::GameState.

6.4.3.2 render()

```
void ED::System::MenuState::render ( ) [final], [virtual]
```

Render the state.

Implements ED::System::GameState.

6.4.3.3 setPlayingState()

Set the Playing State object.

Parameters

playingState	The new playing state object

6.4.3.4 update()

Update the state.

Implements ED::System::GameState.

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

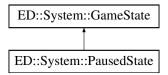
- include/system/states/MenuState.hpp
- src/system/states/MenuState.cpp

6.5 ED::System::PausedState Class Reference

Class for the state of the game when playing the game (unpaused)

```
#include <PausedState.hpp>
```

Inheritance diagram for ED::System::PausedState:



Public Member Functions

PausedState (sf::RenderWindow &window, const Fonts &fonts)

Construct a new Paused State object.

• GameState * handleEvent (const sf::Event &) final

Handle user input events.

· void update (sf::Time) final

Update the state.

· void render () final

Render the state.

• void setMenuState (MenuState &menuState)

Set the Menu State object.

void setPlayingState (PlayingState &playingState)

Set the Playing State object.

Public Member Functions inherited from ED::System::GameState

virtual ~GameState ()=default
 Destroy the Game State object.

6.5.1 Detailed Description

Class for the state of the game when playing the game (unpaused)

6.5.2 Constructor & Destructor Documentation

6.5.2.1 PausedState()

Construct a new Paused State object.

Parameters

window	Window of the state
fonts	Fonts of the state

6.5.3 Member Function Documentation

6.5.3.1 handleEvent()

Handle user input events.

Returns

Pointer to new current state or nullptr if did not change

Implements ED::System::GameState.

6.5.3.2 render()

```
void ED::System::PausedState::render ( ) [final], [virtual]
```

Render the state.

Implements ED::System::GameState.

6.5.3.3 setMenuState()

Set the Menu State object.

Parameters

```
menuState The new menu state object
```

6.5.3.4 setPlayingState()

Set the Playing State object.

Parameters

playingState	The new playing state object	
--------------	------------------------------	--

6.5.3.5 update()

Update the state.

Implements ED::System::GameState.

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

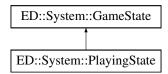
- include/system/states/PausedState.hpp
- src/system/states/PausedState.cpp

6.6 ED::System::PlayingState Class Reference

Class for the state of the game when playing the game (unpaused)

```
#include <PlayingState.hpp>
```

Inheritance diagram for ED::System::PlayingState:



Public Member Functions

- PlayingState (sf::RenderWindow &window, const Fonts &fonts, const Textures &textures)
 - Construct a new Playing State object.
- GameState * handleEvent (const sf::Event &) final

Handle user input events.

· void update (sf::Time) final

Update the state.

· void render () final

Render the state.

void setMenuState (MenuState &menuState)

Set the Menu State object.

• void setPausedState (PausedState &pausedState)

Set the Paused State object.

Public Member Functions inherited from ED::System::GameState

virtual ~GameState ()=default
 Destroy the Game State object.

6.6.1 Detailed Description

Class for the state of the game when playing the game (unpaused)

6.6.2 Constructor & Destructor Documentation

6.6.2.1 PlayingState()

Construct a new Playing State object.

Parameters

window	Window of the state
fonts	Fonts of the state
textures	Texture of the state

6.6.3 Member Function Documentation

6.6.3.1 handleEvent()

Handle user input events.

Returns

Pointer to new current state or nullptr if did not change

Implements ED::System::GameState.

6.6.3.2 render()

```
void ED::System::PlayingState::render ( ) [final], [virtual]
```

Render the state.

Implements ED::System::GameState.

6.6.3.3 setMenuState()

Set the Menu State object.

Parameters

menuState	The new menu state object
-----------	---------------------------

6.6.3.4 setPausedState()

Set the Paused State object.

Parameters

pausedState

6.6.3.5 update()

Update the state.

Implements ED::System::GameState.

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

- include/system/states/PlayingState.hpp
- · src/system/states/PlayingState.cpp

6.7 Resources < Resource, ID > Class Template Reference

Class for handling resource allocation.

```
#include <Resources.hpp>
```

Public Member Functions

• void load (ID id, const std::string &filename)

Load specified resource.

• Resource & resource (ID id)

Get resource object.

· const Resource & resource (ID id) const

Get constant reference to the resource object.

6.7.1 Detailed Description

template<typename Resource, typename ID> class Resources< Resource, ID >

Class for handling resource allocation.

Template Parameters

ResourceType	Resource type
ID	Identifier for a resource

Note

Heavily inspired by the book SFML Game Development by Artur Moreira etc.

6.7.2 Member Function Documentation

6.7.2.1 load()

Load specified resource.

Parameters

id	Identifier of the resource
filename	File name of the resource

6.7.2.2 resource() [1/2]

```
template<typename Resource , typename ID > Resource & Resources< Resource, ID >::resource ( $\tt ID$\ id )
```

Get resource object.

Parameters

id Identifier of the resource

Returns

The resource object

6.7.2.3 resource() [2/2]

```
template<typename Resource , typename ID > const Resource & Resources< Resource, ID >::resource ( \, ID id ) const
```

Get constant reference to the resource object.

Parameters

id Identifier of the resource

Returns

Constant reference to the resource object

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

- · include/Constants.hpp
- · include/Resources.hpp
- include/Resources.inl

File Documentation

7.1 Constants.hpp

```
00001 #pragma once
00002
00003 #include <string>
00005 namespace ED {
00010 namespace Constant {
          static unsigned windowHeight = 1000;
00015
00016
00021
           static unsigned windowWidth = 1000;
00022
00027
           static unsigned frameRate = 60;
00028
           static std::string gameName = "Evolving Dungeon";
00033
00034
00039
           enum class ButtonType {
               none,
00041
               startGame,
00042
               unpauseGame,
00043
               quitToMenu,
               quitToDesktop,
00044
00045
          };
00046 } // namespace Constant
00047 namespace Texture
00048
       enum class ID {
00049
               enemy,
00050
               player,
00051
               tiles.
00052
               weapon,
00053
               item,
00054 };
00055 } // namespace Texture
00056 namespace Font {
00057
        enum class ID {
00058
              normal,
00059 };
00060 } // namespace Font
00061 namespace Sound {
00062
        enum class ID {}; // FIXME: Should have id's for different possible sounds
00062 Final Class ID {};
00063 } // namespace Sound
00064 } // namespace ED
00065
00066 // Forward declarations
00067 template <typename Resource, typename ID>
00068 class Resources;
00069
00070 namespace sf {
00071 class Texture;
00072 class Font;
00073 class Sound;
00074 \} // namespace sf
00075
00076 typedef Resources<sf::Texture, ED::Texture::ID> Textures; 00077 typedef Resources<sf::Font, ED::Font::ID> Fonts;
00078 typedef Resources<sf::Sound, ED::Sound::ID> Sounds;
```

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7.2 Resources.hpp

```
00001 #pragma once
00002
00003 #include <cassert>
00004 #include <map>
00005 #include <memory>
00006 #include <stdexcept>
00007 #include <string>
80000
00016 template <typename Resource, typename ID>
00017 class Resources {
00018 public:
00025
          void load(ID id, const std::string& filename);
00026
00033
          Resource@ resource(ID id);
00034
00041
          const Resource@ resource(ID id) const:
00042
00043 private:
00048
          std::map<ID, std::unique_ptr<Resource» m_resources;</pre>
00049 };
00050
00051 #include "Resources.inl"
```

7.3 Resources.inl

```
00001 template <typename Resource, typename ID> 00002 void Resources<Resource, ID>::load(ID id, const std::string& filename)
00004
          std::unique_ptr<Resource> resource(new Resource());
00005
          if (!resource->loadFromFile(filename)) {
              throw std::runtime_error("Resources::load - File loading failed for " + filename);
00006
00007
00008
00009
          auto inserted = m_resources.insert(std::make_pair(id, std::move(resource)));
00010
00011
          // In debug mode, checks that there was no previous inserted value for given id
00012
          assert (inserted.second);
00013 }
00014
00015 template <typename Resource, typename ID>
00016 Resource& Resources<Resource, ID>::resource(ID id)
00017 {
00018
          auto found = m_resources.find(id);
00019
          // In debug mode, checks that we did not reach the end pointer, i.e. check that the resource
     exists
00020
          assert(found != m_resources.end());
00021
          return *found->second;
00022 }
00023
00024 template <typename Resource, typename ID>
00025 const Resource& Resources<Resource, ID>::resource(ID id) const
00026 {
00027
          auto found = m resources.find(id);
          // In debug mode, checks that we did not reach the end pointer, i.e. check that the resource
00028
00029
          assert(found != m_resources.end());
00030
          return *found->second:
00031 }
```

7.4 Button.hpp

```
00001 #pragma once
00002
00003 #include "Constants.hpp"
00004 #include "Resources.hpp"
00005 #include <SFML/Graphics.hpp>
00006
00007 namespace ED::System {
00012 class Button : public sf::Drawable {
00013 public:
          Button(std::string text, sf::Vector2f position, sf::Color color, sf::Color fontColor,
      Constant::ButtonType type, const Fonts& fonts);
00025
00030
           Button() = default;
00031
00036
           ~Button();
00037
```

7.5 Game.hpp 29

```
00042
          void calcPosition();
00043
00049
          sf::Vector2f position() const;
00050
00056
          void setPosition(sf::Vector2f);
00057
00063
          Constant::ButtonType type() const;
00064
00070
          void setType(Constant::ButtonType);
00071
00077
          sf::Vector2f size() const;
00078
00084
          void setString(std::string);
00085
00091
          std::string string() const;
00092
00099
          bool clickButton(sf::Vector2i mousePosition) const;
00100
00101 private:
00106
          sf::Text m_text;
00107
00112
          sf::Vector2f m_position;
00113
00118
          sf::Vector2f m size;
00119
00124
          sf::RectangleShape m_button;
00125
00130
          Constant::ButtonType m_type;
00131
00138
          void draw(sf::RenderTarget& target, const sf::RenderStates& states) const final;
00139 };
00140 } // namespace ED::System
```

7.5 Game.hpp

```
00001 #pragma once
00003 #include "Constants.hpp"
00004 #include "Constants.npp"
00005 #include "Resources.hpp"
00005 #include "system/Button.hpp"
00006 #include "system/states/MenuState.hpp"
00007 #include "system/states/PausedState.hpp"
00008 #include "system/states/PlayingState.hpp"
00009 #include <SFML/Graphics.hpp>
00010 #include <SFML/Window.hpp>
00011 #include <algorithm>
00012
00013 namespace ED::System {
00018 class Game {
00019 public:
00024
00025
00030
             void run();
00031
00032 private:
             Fonts m_fonts;
00038
00043
             Textures m_textures;
00044
00049
             sf::RenderWindow m window;
00050
00055
             MenuState m_menuState;
00056
00061
             PausedState m_pausedState;
00062
00067
             PlayingState m_playingState;
00068
00073
             GameState* m_currentState;
00074
00079
             sf::Event m_event;
00080
00085
             void loadResources();
00086
00092
             sf::VideoMode init();
00093 };
00094 };
```

7.6 GameState.hpp

```
00001 #pragma once
```

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```
00003 #include <SFML/Graphics.hpp>
00004
00005 namespace ED::System {
00010 class GameState {
00011 public:
         virtual GameState* handleEvent(const sf::Event&) = 0;
00018
00023
          virtual void update(sf::Time) = 0;
00024
00029
         virtual void render() = 0;
00030
00035
          virtual ~GameState() = default;
00036 };
00037 };
```

7.7 MenuState.hpp

```
00001 #pragma once
00002
00003 // #include "../Menu.hpp"
00004 // #include "GameState.hpp"
00005 #include "Constants.hpp"
00006 #include "Resources.hpp"
00007 #include "system/Button.hpp"
00008 #include "system/states/GameState.hpp"
00009 #include "system/states/PlayingState.hpp"
00010 #include <SFML/Graphics.hpp>
00011 #include <algorithm>
00012
00013 namespace ED::System {
00014
00015 class PlayingState;
00020 class MenuState : public GameState {
00021 public:
00028
          MenuState(sf::RenderWindow& window, const Fonts& fonts);
00029
00035
           GameState* handleEvent(const sf::Event&) final;
00036
00041
           void update(sf::Time) final;
00042
00047
           void render() final;
00048
00054
           void setPlayingState(PlayingState& playingState);
00055
00056 private:
00061
          sf::RenderWindow& m_window;
00062
00067
           std::vector<Button> m UI;
00068
00073
           PlayingState* m playingState:
00074
00079
           void initializeUI(const Fonts& fonts);
00080 };
00081 };
```

7.8 PausedState.hpp

```
00001 #pragma once
00002
00003 #include "Constants.hpp"
00004 #include "Resources.hpp"
00005 #include "system/Button.hpp"
00006 #include "system/states/GameState.hpp"
00007 #include "system/states/MenuState.hpp"
00008 #include "system/states/PlayingState.hpp"
00009 #include <SFML/Graphics.hpp2
00010
00011 namespace ED::System {
00012
00013 class MenuState;
00014 class PlayingState;
00015
00020 class PausedState : public GameState {
00021 public:
00028
          PausedState(sf::RenderWindow& window, const Fonts& fonts):
00029
          GameState* handleEvent(const sf::Event&) final;
00036
```

7.9 PlayingState.hpp 31

```
00041
          void update(sf::Time) final;
00042
00047
          void render() final;
00048
00054
          void setMenuState (MenuState& menuState);
00055
          void setPlayingState(PlayingState& playingState);
00062
00063 private:
00068
          sf::RenderWindow& m_window;
00069
00074
          std::vector<Button> m UI;
00075
08000
          sf::RectangleShape m_background;
00081
00086
          MenuState* m_menuState;
00087
00092
          PlayingState* m_playingState;
00093
00098
          void initializeUI(const Fonts& fonts);
00099 };
00100 };
```

7.9 PlayingState.hpp

```
00001 #pragma once
00003 #include "Constants.hpp"
00004 #include "Resources.hpp"
00005 #include "system/Button.hpp"
00006 #include "system/states/GameState.hpp"
00007 #include "system/states/MenuState.hpp"
00008 #include "system/states/PausedState.hpp"
00009 #include <SFML/Graphics.hpp>
00010 #include <algorithm>
00011
00012 namespace ED::System {
00013
00014 class MenuState;
00015 class PausedState;
00016
00021 class PlayingState : public GameState {
00022 public:
00030
           PlayingState(sf::RenderWindow& window, const Fonts& fonts, const Textures& textures);
00031
00037
           GameState* handleEvent(const sf::Event&) final;
00038
00043
           void update(sf::Time) final;
00044
00049
           void render() final;
00050
00056
           void setMenuState(MenuState& menuState);
00057
00063
           void setPausedState(PausedState& pausedState);
00064
00065 private:
00070
           sf::RenderWindow& m_window;
00071
00076
           MenuState* m_menuState;
00077
00082
           PausedState* m_pausedState;
00083 };
00084 };
```

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