package com.chase.application  
  
object ApplicationConfig{  
 @JvmField var shouldMockAuthentication = true  
 @JvmField var shouldMockPaymentService = true  
 @JvmField var shouldMockTerminalService = true  
 @JvmField var shouldMockReportService = true  
 @JvmField var shouldMockPreferenceService = true  
 @JvmField var shouldMockEnrollmentService = true  
 @JvmField var digitalChannelId = "C30" //*TODO update to "MSD" once setup* @JvmField var digitalEnvironment = "QF02"  
 @JvmField var digitalBaseUrl = "https://qap2-secure01a.chase.com/"  
 @JvmField var mockServerEnabled = false  
 @JvmField var mockServerIp = "192.168.10.1"  
 @JvmField var mockServerPort = "8080"  
}

com>application>ApplicationConfig

Activity\_tips

<?xml version="1.0" encoding="utf-8"?>  
<layout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:bind="http://schemas.android.com/apk/res-auto"  
 >  
  
 <data>  
 <import type="android.view.View"/>  
 <variable  
 name="viewModel"  
 type="com.checkout.preferences.tips.TipsViewModel" />  
 </data>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="@dimen/marginLayoutTop"  
 >  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/tipLayout"  
 style="@style/cell"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 >  
  
 <RadioGroup  
 android:id="@+id/tipRadioGroup"  
 android:checkedButton="@={viewModel.radioGroupCheckedId}"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="@dimen/toggle\_big\_height"  
 android:orientation="horizontal"  
 android:weightSum="3"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 >  
  
 <RadioButton  
 android:id="@+id/tipOffRadioButton"  
 style="@style/bigSegmentButtonLeft"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOff" />  
  
 <RadioButton  
 android:id="@+id/tipOnScreenRadioButton"  
 style="@style/bigSegmentButtonCenter"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOnScreen" />  
  
 <RadioButton  
 android:id="@+id/tipOnReceiptRadioButton"  
 style="@style/bigSegmentButtonRight"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOnReceipt"/>  
 </RadioGroup>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_marginTop="@dimen/marginLayout"  
 app:layout\_constraintBottom\_toTopOf="@id/buttonLayout"  
 app:layout\_constraintTop\_toBottomOf="@id/tipLayout"  
 app:layout\_constraintVertical\_bias="0.0"  
 tools:layout\_editor\_absoluteX="36dp">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <androidx.fragment.app.FragmentContainerView  
 android:id="@+id/tipOnReceiptFragment"  
 android:name="com.checkout.preferences.tips.tiponreceipt.TipOnReceiptFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:tag="tipOnReceiptFragmentTag"  
 android:visibility="@{viewModel.tipOnReceiptVisibility}"  
 tools:layout="@layout/fragment\_tip\_on\_receipt" />  
  
 <androidx.fragment.app.FragmentContainerView  
 android:id="@+id/tipOnScreenFragment"  
 android:name="com.checkout.preferences.tips.tiponscreen.TipOnScreenFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:tag="tipOnScreenFragmentTag"  
 android:visibility="@{viewModel.tipOnScreenVisibility}"  
 tools:layout="@layout/tip\_on\_screen\_fragment" />  
 </FrameLayout>  
 </ScrollView>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/buttonLayout"  
 android:layout\_width="match\_parent"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 android:layout\_height="wrap\_content">  
  
 <View  
 android:id="@+id/dividerLineBottom"  
 style="@style/secondaryDividerLine"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="1dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/saveButton"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 />  
  
 <Button  
 android:id="@+id/saveButton"  
 style="@style/primaryButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/lbl\_save"  
 app:layout\_constraintTop\_toBottomOf="@+id/dividerLineBottom"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
</layout>

TipOnReceipt

package com.checkout.preferences.tips  
  
import android.view.View  
import androidx.lifecycle.MutableLiveData  
import androidx.lifecycle.ViewModel  
import androidx.lifecycle.*viewModelScope*import com.chase.preferences.service.PreferenceResult  
import com.chase.preferences.tip.TipSettings  
import com.chase.preferences.tip.TipsUseCase  
import com.cp.mpos.R  
import kotlinx.coroutines.launch  
  
  
class TipsViewModel(private val tipsUseCase: TipsUseCase): ViewModel() {  
 var radioGroupCheckedId = MutableLiveData<Int>()  
 var tipOnScreenVisibility = MutableLiveData<Int>()  
 var tipOnReceiptVisibility = MutableLiveData<Int>()  
 init {  
 radioGroupCheckedId.*value* = when {  
 tipsUseCase.isTipOnReceiptEnabled() -> R.id.*tipOnReceiptRadioButton* tipsUseCase.isTipOnScreenEnabled() -> R.id.*tipOnScreenRadioButton* else -> R.id.*tipOffRadioButton* }  
  
 updateTipOption()  
 }  
  
 fun saveTipSettings(tipSettings: TipSettings): MutableLiveData<PreferenceResult> {  
 val result = MutableLiveData<PreferenceResult>()  
  
 *viewModelScope*.*launch* **{** result.*value* = tipsUseCase.setTipSettings(tipSettings)  
 **}** return result  
 }  
  
  
 fun updateTipOption() {  
 val tipOnReceiptEnabled = radioGroupCheckedId.*value* == R.id.*tipOnReceiptRadioButton* val tipOnScreenEnabled = radioGroupCheckedId.*value* == R.id.*tipOnScreenRadioButton* tipOnReceiptVisibility.*value* = if (tipOnReceiptEnabled) View.*VISIBLE* else View.*GONE* tipOnScreenVisibility.*value* = if (tipOnScreenEnabled) View.*VISIBLE* else View.*GONE* }  
}

TipOnScreen

package com.checkout.preferences.tips  
  
import android.view.View  
import androidx.lifecycle.MutableLiveData  
import androidx.lifecycle.ViewModel  
import androidx.lifecycle.*viewModelScope*import com.chase.preferences.service.PreferenceResult  
import com.chase.preferences.tip.TipSettings  
import com.chase.preferences.tip.TipsUseCase  
import com.cp.mpos.R  
import kotlinx.coroutines.launch  
  
  
class TipsViewModel(private val tipsUseCase: TipsUseCase): ViewModel() {  
 var radioGroupCheckedId = MutableLiveData<Int>()  
 var tipOnScreenVisibility = MutableLiveData<Int>()  
 var tipOnReceiptVisibility = MutableLiveData<Int>()  
 init {  
 radioGroupCheckedId.*value* = when {  
 tipsUseCase.isTipOnReceiptEnabled() -> R.id.*tipOnReceiptRadioButton* tipsUseCase.isTipOnScreenEnabled() -> R.id.*tipOnScreenRadioButton* else -> R.id.*tipOffRadioButton* }  
  
 updateTipOption()  
 }  
  
 fun saveTipSettings(tipSettings: TipSettings): MutableLiveData<PreferenceResult> {  
 val result = MutableLiveData<PreferenceResult>()  
  
 *viewModelScope*.*launch* **{** result.*value* = tipsUseCase.setTipSettings(tipSettings)  
 **}** return result  
 }  
  
  
 fun updateTipOption() {  
 val tipOnReceiptEnabled = radioGroupCheckedId.*value* == R.id.*tipOnReceiptRadioButton* val tipOnScreenEnabled = radioGroupCheckedId.*value* == R.id.*tipOnScreenRadioButton* tipOnReceiptVisibility.*value* = if (tipOnReceiptEnabled) View.*VISIBLE* else View.*GONE* tipOnScreenVisibility.*value* = if (tipOnScreenEnabled) View.*VISIBLE* else View.*GONE* }  
}

TipOnReceipt ViewModel

<?xml version="1.0" encoding="utf-8"?>  
<layout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto">  
  
  
 <data>  
 <import type="android.view.View"/>  
 <variable  
 name="viewModel"  
 type="com.checkout.preferences.tips.tiponreceipt.TipsOnReceiptViewModel" />  
 </data>  
  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="@dimen/marginLayoutTop">  
  
 <TextView  
 android:id="@+id/tipPreferenceHeaderTextView"  
 style="@style/sectionHeader"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/tip\_preferences"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/showTipSuggestionsLayout"  
 style="@style/section"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toBottomOf="@id/tipPreferenceHeaderTextView"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent">  
  
 <TextView  
 android:id="@+id/showTipSuggestionsTextView"  
 android:textAppearance="@style/textAppearancePrimaryLabel1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:labelFor="@id/showTipSuggestionsSwitch"  
 android:text="@string/show\_tip\_suggestions"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintBottom\_toBottomOf="parent" />  
  
 <Switch  
 android:id="@+id/showTipSuggestionsSwitch"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:checked="@={viewModel.showReceiptTipSuggestions}"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintBottom\_toBottomOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/tipSuggestionsLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toBottomOf="@id/showTipSuggestionsLayout"  
 android:visibility="@{viewModel.showReceiptTipSuggestions? View.VISIBLE: View.GONE}"  
 >  
  
 <TextView  
 android:id="@+id/tipPresetsHeaderTextView"  
 style="@style/sectionHeader"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/tip\_presets"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/tipPresetsLayout"  
 style="@style/cell"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toBottomOf="@id/tipPresetsHeaderTextView">  
  
 <TextView  
 android:id="@+id/enterPercentageTextView"  
 android:textAppearance="@style/textAppearanceSecondaryLabel"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/enter\_percentage"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
  
 <TextView  
 android:id="@+id/tip1TextView"  
 style="@style/formLabel"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:labelFor="@+id/tip1EditText"  
 android:text="@string/tip\_1"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/enterPercentageTextView" />  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/tip1TextInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:errorTextAppearance="@style/textAppearanceSecondaryAlert"  
 app:hintEnabled="false"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tip1TextView">  
  
 <EditText  
 android:id="@+id/tip1EditText"  
 style="@style/formTextField"  
 android:singleLine="true"  
 android:inputType="number"  
 android:text="@={viewModel.tip1}"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:maxLength="30"  
 android:importantForAutofill="no" />  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
  
 <TextView  
 android:id="@+id/tip2TextView"  
 style="@style/formLabel"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:labelFor="@+id/tip2EditText"  
 android:text="@string/tip\_2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tip1TextInput" />  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/tip2TextInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:errorTextAppearance="@style/textAppearanceSecondaryAlert"  
 app:hintEnabled="false"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tip2TextView">  
  
 <EditText  
 android:id="@+id/tip2EditText"  
 style="@style/formTextField"  
 android:singleLine="true"  
 android:inputType="number"  
 android:text="@={viewModel.tip2}"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:maxLength="30"  
 android:importantForAutofill="no" />  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
  
 <TextView  
 android:id="@+id/tip3TextView"  
 style="@style/formLabel"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:labelFor="@+id/tip3EditText"  
 android:text="@string/tip\_3"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tip2TextInput" />  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/tip3TextInput"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:errorTextAppearance="@style/textAppearanceSecondaryAlert"  
 app:hintEnabled="false"  
  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/tip3TextView">  
  
 <EditText  
 android:id="@+id/tip3EditText"  
 style="@style/formTextField"  
 android:singleLine="true"  
 android:inputType="number"  
 android:text="@={viewModel.tip3}"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:maxLength="30"  
 android:importantForAutofill="no" />  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
</layout>

TopOnScreen ViewModel

<?xml version="1.0" encoding="utf-8"?>  
<layout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:bind="http://schemas.android.com/apk/res-auto"  
 >  
  
 <data>  
 <import type="android.view.View"/>  
 <variable  
 name="viewModel"  
 type="com.checkout.preferences.tips.TipsViewModel" />  
 </data>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="@dimen/marginLayoutTop"  
 >  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/tipLayout"  
 style="@style/cell"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 >  
  
 <RadioGroup  
 android:id="@+id/tipRadioGroup"  
 android:checkedButton="@={viewModel.radioGroupCheckedId}"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="@dimen/toggle\_big\_height"  
 android:orientation="horizontal"  
 android:weightSum="3"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 >  
  
 <RadioButton  
 android:id="@+id/tipOffRadioButton"  
 style="@style/bigSegmentButtonLeft"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOff" />  
  
 <RadioButton  
 android:id="@+id/tipOnScreenRadioButton"  
 style="@style/bigSegmentButtonCenter"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOnScreen" />  
  
 <RadioButton  
 android:id="@+id/tipOnReceiptRadioButton"  
 style="@style/bigSegmentButtonRight"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:text="@string/tipsOnReceipt"/>  
 </RadioGroup>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_marginTop="@dimen/marginLayout"  
 app:layout\_constraintBottom\_toTopOf="@id/buttonLayout"  
 app:layout\_constraintTop\_toBottomOf="@id/tipLayout"  
 app:layout\_constraintVertical\_bias="0.0"  
 tools:layout\_editor\_absoluteX="36dp">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <androidx.fragment.app.FragmentContainerView  
 android:id="@+id/tipOnReceiptFragment"  
 android:name="com.checkout.preferences.tips.tiponreceipt.TipOnReceiptFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:tag="tipOnReceiptFragmentTag"  
 android:visibility="@{viewModel.tipOnReceiptVisibility}"  
 tools:layout="@layout/fragment\_tip\_on\_receipt" />  
  
 <androidx.fragment.app.FragmentContainerView  
 android:id="@+id/tipOnScreenFragment"  
 android:name="com.checkout.preferences.tips.tiponscreen.TipOnScreenFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:tag="tipOnScreenFragmentTag"  
 android:visibility="@{viewModel.tipOnScreenVisibility}"  
 tools:layout="@layout/tip\_on\_screen\_fragment" />  
 </FrameLayout>  
 </ScrollView>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/buttonLayout"  
 android:layout\_width="match\_parent"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 android:layout\_height="wrap\_content">  
  
 <View  
 android:id="@+id/dividerLineBottom"  
 style="@style/secondaryDividerLine"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="1dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/saveButton"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 />  
  
 <Button  
 android:id="@+id/saveButton"  
 style="@style/primaryButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/lbl\_save"  
 app:layout\_constraintTop\_toBottomOf="@+id/dividerLineBottom"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
</layout>