

QuizActivity

onCreate (Bundle savedInstanceState) – called by OS

trueButton -> checkAnswer

falseButton -> checkAnswer

nextButton -> increment question id

reset isCheater variable, updateQuestion

cheatButton ->

COMMUNICATE BETWEEN ACTIVITIES WITH INTENTS

get the expected answer

Create intent with this QuizActivity as a context and the CheatActivity.class

Add the expected answer to the intent with the URL.answer_is_true key

Explain CheatActivity.this

*** startActivityForResult(intent, MY_ID)**

explain My_ID – saved in OS and returned in onActivityResult

If the input bundle exists get the current question id from the bundle

updateQuestion

checkAnswer

get the expected answer

if the user cheated -> get id for the cheat response string – mIsCheater is a field

if the user's answer matched the expected answer -> get the id for the correct response

if the user's answer does not match the expected answer -> get the id for the incorrect response

Create the toast

updateQuestion

using the current index get the id of question

* use the id to change the displayed text in the Question view

*** onSaveInstanceState – called by OS**

store question id into bundle with key

*** onActivityResult – called by OS if we started the activity asking for a result(startActivityForResult)**

(requestCode – predefined code (in Activity) indicating success of called activity

resultCode – is this a result from starting and running the the Activity from this activity

Intent – any information to be passed back)

If the activity ran correctly and this is a response from my call starting the activity and there is an intent

Get the boolean value indicating whether the user cheated or not from the intent

If there was no result assume the user did not cheat

Cheat Activity

onCreate(Bundle savedInstanceState)

get the expected answer from the intent

* **getIntent()**

get the Answer View (which is initially blank)

get the Show Answer Button -> show the expected answer in the AnswerView
setAnswerShownResult(true)

setAnswerShownResult(isAnswerShown -- which is always true)

Create the intent to send to previous activity (we don't use the one we received)

Put the indicator as to whether we cheated or not – (if we got here, we did cheat)

* **setResult**(request code – RESULT_OK inherited from Activity, the new return intent)

setResult is also inherited from activity

the information saved by calling setResult will be used in the Quiz activity the OS calls
onActivityResult

Fragments

Look at shippingFrameLayout and billingFrameLayout in the xml for activityOrderInfo

MainActivity

onCreate(Bundle savedInstanceState)

get the only button -> onClicked()

onClicked()

create new intent from (this, OrderInfoActivity.class);

startActivityForResult(intent, this activities id)

we are really starting a fragment

onActivityResult(requestCode, resultCode, return intent)

if this method was called in response to me starting the OrderInfoActivity and the result code shows success and there is an intent

Get the order from the intent and log it.

OrderInfoActivity is a FragmentActivity (an Activity that knows how to manage fragments)

Domain: see xml for layout

shippingAddressFragment
billingAddressFragment
checkbox
button

onCreate(Bundle savedInstanceState) – called by OS

getCheckBox

make is checked

setOnCheckedChangeListener(**OnCheckedChangeListener**)

override onCheckedChanged(CompoundButton, boolean isChecked) to call
onCheckedChangeListener

getButton ->onButtonClicked()

-- create the shippingAddressFragment as instance of AddressFragment

* **get the FragmentManager fm – this.getSupportFragmentManager()**

defined in FragmentActivity

fm.getFragmentById (R.id.shippingFrameLayout -- defined in xml)

get the fragment associated with the FrameLayout, if one exists

cast to AddressFragment(user defined)

If it has not been defined

Create new shippingAddressFragment from AddressFragment.newInstance

–method is user defined in AddressFragment

Passing in Header String

fm.beginTransaction.add(id of the shippingFrameLayout, shippingAddressFragment)

then commit it

-- adding the fragment to the GUI

* onCheckedChangeListener () called when checkbox checked or unchecked

get the fragment manager

if the checkbox (a field in this class) is checked (just a moment ago)

remove the billingAddressFragment from the GUI

fm.beginTransaction().remove(billingAddressFragment).commit()

else if the checkbox is not checked – which occurred just a moment ago

create the new billingAddressFragment – as above

AddressFragment.newInstance(headerString)

Fm.beginTransaction().add(billingAddressFragment).commit()

-- add the billingAddress to the GUI

onButtonClicked()

returnResult() – user defined, setResult then kill this activity

this.finish() – stop this activity

returnResult() – not really returned but setResult

 get the shipping address from the shippingAddress fragment (Address is a user defined class)

 if the billing address exists – get it from the billing addressFragment

 create an Order and add the shipping address and billing address

 create return intent

 add the order to it

 setResult(RESULT_OK, returnIntent) – saving info for the onActivityResult method in the parent

AddressFragment – looks a lot like an activity

Look at XML

 Title:TextView

 textAppearance

 GridLayout: 4 rows, 2 columns

 Each row has a text view (a label) and a EditText field – text you can type in

Domain:

 title: String

 TitleView : TextView

 StreetAddress : EditText

 City:EditText

 State:EditText

 ZipCode:EditText

static newInstance(title) – creating a new fragment, called by Order InfoActivity

create a new instance of this class – a new fragment

create a new bundle

put the title in the bundle

put the bundle in the fragment

return this fragment

onCreate(Bundle savedInstanceState) – called by the OS

 * **getArguments() -- get the arguments saved when this fragment was created**

 – only defined for fragments

 -- see “newInstance” above

 if there are arguments then get the title from it and store it in the field “title”

* **onCreateView(LayoutInflater, ViewGroup, Bundle – savedInstanceState)** – called from OS

View v = inflater.inflate(R.layout.fragment_address, -- **the xml file name**

container – views new parent,

boolean addToParentNow)

get the textView and set it to the string in the field “title”

initialize all of the textViews

return the newly created view

getAddress() – called from the returnResult() method in OrderInfoActivity, called when button clicked

-- called twice, once for the shipping address and if it exists once for the billing address

create empty instance of the Address class

set each of the street, city, state, and zip code from the respective TextViews

xTextView.getText().toString()