AnswerSheet – Logic description

(Explain how your application works, briefly)

1) Create MainActivity and SubActivity for this assignment

- I firstly made a project called ‘My Application 5’ and created MainActivity and SubActivity.

2) Edit the layout of MainActivity as follow

- Using activity\_main.xml, I could easily edit the layout.

- This is a main activity! is textView.

- Put your phone number is PlainText and id is ‘editTextTextPersonName’.

- Button CALL is just a normal Button and id is ‘button’.

3)Write the code of MainActivity and SubActivity to complete the following scenario:

a) Launch your application. MainActivity must be opened.

- Checking AndroidManifest.xml, I set activity, MainActivy as a main screen automatically coming up by adding intent-filter including



b) Type any phone number in the textedit field.

- Text

Description automatically generatedChecking left picture of code, phone number is changed along user’s input, ‘inputNum’.

c) Your MainActivity must send “implicit intent” to find an application that can handle “dial capability (ACTION\_DIAL)” using the app chooser dialog, and your application must be shown in the list! (Add an intent-filter to your SubActivity to receive this implicit intent)

- Graphical user interface, text, application

Description automatically generatedCreating intent ‘calling’ calling implicit intent, it passes phone number we input on editTextTextPersonName and show the dial screen with the number if we press phone app. But before that choosing app page is coming up.Text

Description automatically generatedI also added new intent-filter on SubActivity in AndroidManifest.xml.

4) If you choose a normal Phone application, Phone application must show the number you provided (like in the lecture!)

- I explained this in 3)-c).

5) Press back buttons to go back to your application

- If I press back buttons, I can go back to MainActivity page.

6) Press Call button again in the MainActivity

- The same app choosing part is coming up.

7) In an app chooser dialog, if you choose your own application (My Application), your SubActivity must handle this request:

a) Take the phone number included in the intent

- In the 3)-c) picture, in the calling intent, I made take the phone number as inputNum.

b) Reply to the caller activity with the following string “You can’t call to [Extracted Phone Number] !!!!”

- (MainActivity)Text, letter

Description automatically generated

(SubActivity)

A picture containing timeline

Description automatically generated

Using requestLauncher, I could send data and receive data between MainActivity and SubActivity.

c) UI of your SubActivity doesn’t need to be shown.

- Checking second answer sheet in answer 5, you can check.

8) MainActivity must display the text from the callee activity using Toast dialog!

- I set callee activity ‘setResult(RESULT\_OK, intent).

AnswerSheet – Screenshot

1. Graphical user interface, application, Teams

Description automatically generated 2. Calendar

Description automatically generated with medium confidence 3. Graphical user interface, text, application, chat or text message

Description automatically generated

4. Graphical user interface, application, Teams

Description automatically generated 5. Graphical user interface, application

Description automatically generated

1. Main Page when I run the emulator

2. Pressing phone number

3. Pressing call button and choosing app(For your information, I tried this assignment on the other project called ‘Assignment2’ so it came up together.)

4. After pressing Phone app

5. After pressing ‘My application 5’, current project app