

Due: Feb 12 at 23:59

Points: 100

Objectives

Use some basic UI widgets
Use Intents to call other Activities
Handling the Keyboard
Using Fragments
Permanent storage

You will be trying out a number of different UI elements. You do not need different layouts for landscape and portrait views.

Person Activity

The first or main activity collects the basic information about a person. This activity's view will look like a basic form. The information we will collect is:

First (given) name
Family (last) name
Age
Email
Phone
Birthdate
Country and state(providence)

For each of the first six items (first name, last name, age, email and phone) use a text field to allow the user to enter the data. In each text field the appropriate keyboard needs to be used. The keyboard should not hide the text field the user is entering. All items need a label indicating what information they contain (first name, last name, etc). All items are on a separate line.

For the birthdate use the date picker, not the date picker dialog. This will not fit on the current activity. So on the birthdate line add a button labeled "Set". When tapped the button takes the user to a different activity/view - the date activity/view. When the user returns from the date activity after selecting a date that date should be shown. If the user does not select a date or cancels the date activity then no change is made to the date information shown. The user should not be able to edit the date information in the user activity view. They can only do that when they go to the date activity/view.

For the country and state we will also use a separate activity. Like the birthdate there is a set button on the country & state line which takes the user to the country/state view where the user can select a country and a state. When the user returns from the country/state view the result is displayed. If the user does not select anything in the country/state view then no change is made to the country/state data.

Finally there is a done button. When the done button is pressed the user information is saved. When the app is killed and restarted the saved data is displayed in this activity.

Date Activity

The date activity has a date picker date where the user can select a date using either year, month, and day spinners or a CalendarView. It also has a cancel button and a done button. When the done button is selected the date in the date picker is returned to the Person Activity, the view goes to the Person Activity and the date activity is destroyed. Make sure that the app goes to the previous user active and does not create a new Person Activity. When the cancel button is selected the operation is cancelled and like the done button the app goes back to the Person Activity

Country/State Activity

This activity has a list fragment, a done button and a cancel button. The done button and cancel button act like the buttons in the Date activity. The list contains the of countries given below. The user can select one item in the list. When they select a country they then see a list of state(providences) which they can select. You can either display the list of states in the same view or in a different view. In any case both lists need to use a list fragment.

Challenge Features

1. Allow the user to go back to the Person Activity via the action bar. Make sure that the app goes back to the first activity and not create a new instance of the first activity. If the app is displaying a one of the other activities, that activity needs to be destroyed when you go back to the first activity.

2. Add items to the Action Bar to allow the user to select which activity to go to.

Due to the size of the class challenge features will not be checked and will not be graded under any circumstances.

What to turn in

Create a zip file of your entire android project. Please no rar files. Turn in your assignment at: <http://bismarck.sdsu.edu/CoursePortal>. There is a link to that site in the assignment section of the course Blackboard site. You will need to create a password for the assignment site the first time you use it. Once you have logged on to the site select the assignments tab.

Grading

The assignment will be graded as follows:

Points	Item
10	Person activity can enter name, age, email, phone
5	Correct keyboard for each text field, Keyboard does not hide text field while user is entering data
20	Date activity uses correct date picker, done and cancel buttons work
15	Saving date data permanently and retrieving the data
20	Country activity uses fragments
15	Country activity works properly, User selects country before state, done & cancel buttons work
5	Going back to person activity does not create a new activity
5	Country and state data not hard coded in app source code
5	Look of the app. Items line up when appropriate, consistent use of font, spelling, proper & consistent capitalization, etc.

When you create your project set the minimum required SDK to API 19 (Android 4.4 KitKat) and target Nexus 4.

Country & States

China

Beijing Municipality
Tianjin Municipality
Hebei
Shanxi
Inner Mongolia
Liaoning
Jilin
Heilongjiang
Shanghai Municipality
Jiangsu
Zhejiang
Anhui
Fujian

Jiangxi
Shandong
Henan
Hubei
Hunan
Guangdong
Guangxi Zhuang
Hainan
Chongqing Municipality
Sichuan
Guizhou
Yunnan
Tibet Autonomous Region
Shaanxi
Gansu
Qinghai
Ningxia Hui
Xinjiang Uyghur
Hong Kong
Macau
Taiwan

India

Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chhattisgarh
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Punjab
Rajasthan
Sikkim

Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal

Mexico

Aguascalientes
Baja California
Baja California Sur
Campeche
Chiapas
Chihuahua
Coahuil
Colim
Durango
Guanajuato
Guerrero
Hidalgo
Jalisco
México
Michoacán
Morelos
Nayarit
Nuevo Leó
Oaxaca
Puebla
Querétaro
Quintana Roo
San Luis Potosí
Sinaloa
Sonor
Tabasc
Tamaulipa
Tlaxcala
Veracruz
Yucatá
Zacatecas

USA

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Alaska
Arizona
Arkansas
California

Colorado
Connecticut
Delaware
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Montana
Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wisconsin
Wyoming