University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)
FACULTY OF INFORMATION TECHNOLOGY

Mobile Application Development
Spring 2021

Section C, D, and R1(SE)

Assignment No.	02
Submission Deadline	*Tuesday April 27, 2021 11:59 pm*
Instruction(s)	***You need to submit a zip file containing following:*** 1. ***Kotlin folder***: *containing all kotlin files* 2. ***Layout Folder***: *containing all Xml files of layout* 3. ***Drawable folder (optional)***: *it contains all other images, icons if you use in your project* 4. ***Screenshots Folder***: *it contains screen shots of mobile screen with all possible outputs (Each screen) e.g. while testing your application, you have to take screen shot of each test case.* ***No Extension in deadline***

Description:

You need to design an android application with multiple screens as following:

Screen 01: Phone

This screen has only 1 EditText and 1 Button. User need to enter phone no. here in this screen that will be used to send notification to user. This screen should only be displayed to user very first time when he launches application. Next time when user opens application he should always be displayed/redirected to screen 2.

Screen 02: Home Screen

This screen continuously displays the current Location of user in the form of Latitude and Longitude. There should be a button 'Actual Location' on this screen that displays the current location of user in the form of string e.g. Physical location i.e. Block B, Johar town, Lahore, Pakistan.

There should be another button 'Favourite Locations' that displays list of user's favorite locations in the form of a well-designed ListView on screen 3. If user long-clicks on a specific location, this location should be deleted from phone. You may use a alertDialog message to confirm that do really user want to delete this location from favorite list?

This screen should also have a button 'History' which navigates user to screen 4 'History'.

Screen 03: Favorite Locations

This screen displays all favorite locations of a user using a ListView. Each item should contain Lat, Long and physical address of a location.

This screen contains a button 'Add New Location' which navigates to the screen 04, where user can add a new location by providing Lat and Long. This new added location should also be displayed on ListView next time. You dont have to enter Physical address of a location instead onlyLat and Long will be entered by user. System should automatically fetch physicall address associated with GPS coordinates of location and save this address in phone (SharedPreferences can be used for this purpose)

Screen 04: History

This screen shows history of user's visits of his/her favourite locations. This history should be displayed using a ListView. Each item should contains Location Name, its Lat Long, Date and time of user's visit.

Whenever user visits to his/her favorite location (saved in mobile), system notify user by sending a Text Message on phone No. provided on screen 01. System should also save automatically this visit of user in history. You can user SharedPreferencs to store each visit of user.

Best of Luck ☺