



Charotar University of Science and Technology
Devang Patel Institute of Advance Technology and Research
Department of Computer Science & Engineering

Subject: Mobile Application Development

Semester: 5

Subject Code: CE380


Academic Year: 2021-22

Course Outcomes (COs):


After completion of the course students will be able to:

1. Understand various technologies and business trends impacting mobile applications
2. Apply a deep knowledge of mobile device, features, architecture and android functionality.
3. Analyze and implement frameworks, database and design patterns in Mobile Applications
4. Create a small but realistic working mobile application using features such as data persistence and data communications
5. Create a mobile application using the Swift programming language.

Practical List

Sr. No.	AIM	Hours	CO
1	Installation & Configuration of Android Studio. Along with its all major Gradle, SDK, AVD etc.	2	1
	Introduction to Android and Create “Custom Message” application. That will display “Custom Message” in the middle of the screen in the Black color with the Yellow background.	1	1
2	Design an application representing a simple calculator.	1	2
	Create a login application with following features: 1. Successful Login message in TextView with Green background if Username & password is correct 2. Failure message in TextView with Red background if Username or password is incorrect. 3. Disable Login Button after three wrong login attempts. 4. Close application if user selects Cancel Button.	2	2
	Create android application to demonstrate life cycle of activity.	2	2
3	Create simple Application which show the use of List view.	1	2
	Create simple program which show the use of Auto Complete Text View.	1	2
	Create simple Application which show the use of Radio view, take 3 radio button. When radio button is selected it will show the text of radio button using Toast.	1	2
4	Create simple Application which show the use of SeekBar.	1	2
	Create simple Application which show the use of RatingBar.	1	2
	Create simple Application which show the use of Alert Dialog.	1	2
5	Implement the given layout using Linear Layout. HINT: LinearLayout is a view group that aligns children in single direction, Horizontal or Vertical. The attribute android:orientation is used to set the direction. E.g.android:orientation="vertical". 	2	3
6	1. Create login application where you will have to validate EmailID (UserName). Till the username and password is not validated, login button should remain disabled. 2. On successful login, go to on new Activity.	2	3
	Understand Menu option. Create an application that will change color of the screen, based on selected options from the menu.	2	3
7	Create an application to make a Phone call on specific entered number by user in the EditText.	1	3
8	Create an Android Application where user will enter the destination email address, subject and a message. On clicking Send button, it will prompt email client only and email will compose. Also put some logic over EditText field that no one fields are empty otherwise notify with toast.	1	3
	Create an Application in which user pass the data with intent object to another activity.	1	3
9	Create an application to make Insert, update, Delete and retrieve operation on the SQLite database.	4	3 & 4

CHECKBOX
IMAGEVIEW
SPINNER
CUSTOM SPINNER

			
10	Introduction to I-phone & installation of x-code on MAC.	2	4
11	Create I OS application that will display “Custom Message” in the middle of the screen in the Black color with the Yellow background.	2	5
12	Create an I-OS application to calculate sum of two numbers and gives result in Toast Message.	2	5
	Design an I-OS application representing a simple calculator.	2	5
13	Create an I-OS Application to Change the Image Displayed on the Screen	2	5
14	Understanding of UI: Create an UI such that, one screen has list of all the types of cars. On selecting of any car name, next screen should show Car details like: name, launched date, company name, images (using gallery) if available, show different colors in which it is available.	2	5