

# **20MCA243 MOBILE APPLICATION DEVELOPMENT LAB**

*Lab Report Submitted By*

**TEENA ROSE MATHEW**

**Reg. No.: AJC20MCA-2080**

*In Partial fulfillment for the Award of the Degree Of*

**MASTER OF COMPUTER APPLICATIONS (2 Year)**

**(MCA)**

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**



**AMAL JYOTHI COLLEGE OF ENGINEERING  
KANJIRAPPALLY**

[Affiliated to APJ Abdul Kalam Technological University, Kerala. Approved by AICTE, Accredited by NAAC with 'A' grade. Koovapally, Kanjirappally, Kottayam, Kerala – 686518]

**2021-2022**

**DEPARTMENT OF COMPUTER APPLICATIONS  
AMAL JYOTHI COLLEGE OF ENGINEERING  
KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the lab report, “**20MCA243 MOBILE APPLICATION DEVELOPMENT LAB**” is the bonafide work of **TEENA ROSE MATHEW (Reg.No: AJC20MCA-2080)** in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications under APJ Abdul Kalam Technological University during the year 2021-22.

**Head of the Department**

Ms. Sona Maria Sebastian

**Staff In-Charge**

**External Examiner**

**Internal Examiner**

## Content

<b>S.No</b>	<b>Name of the Experiment</b>	<b>Date</b>	<b>Page No</b>	<b>Signature of Staff-In-Charge</b>
<b>1</b>	Design a Login Form with username and password using Linear Layout and toast validcredentials.	24/11/2021	<b>5</b>	
<b>2</b>	Write a program that demonstrates Activity Lifecycle.	24/11/2021	<b>10</b>	
<b>3</b>	Implementing basic arithmetic operations of a simple calculator	01/12/2021	<b>13</b>	
<b>4</b>	Implement validations on various UI controls	01/12/2021	<b>20</b>	
<b>5</b>	Design a registration activity and store registration details in local memory of phoneusing Intents and SharedPreferences	08/12/2021	<b>29</b>	
<b>6</b>	Design a simple Calculator using GridLayout and Cascaded LinearLayout	08/12/2021	<b>38</b>	
<b>7</b>	Create a Facebook page using RelativeLayout;set properties using .xml file	15/12/2021	<b>47</b>	
<b>8</b>	Develop an application that toggles image using FrameLayout	15/12/2021	<b>52</b>	
<b>9</b>	Implement Adapters and perform exception handling	22/12/2021	<b>56</b>	
<b>10</b>	Implement Intent to navigate between multiple activities	05/01/2022	<b>59</b>	
<b>11</b>	Develop application that works with explicitintents	19/01/2022	<b>62</b>	
<b>12</b>	Implement Options Menu to navigate to activities	02/02/2022	<b>70</b>	
<b>13</b>	Develop an application	02/02/2022	<b>75</b>	

	that uses ArrayAdapter with ListView.			
<b>14</b>	Develop an application that use GridView with images and display Alert box on selection	09/02/2022	<b>80</b>	
<b>15</b>	Develop an application that implements Spinner component and perform event handling	14/02/2022	<b>84</b>	
<b>16</b>	Apply themes via code and manifest file	15/02/2022	<b>89</b>	
<b>17</b>	Develop application using Fragments	15/02/2022	<b>92</b>	
<b>18</b>	Implement Navigation drawer	16/02/2022	<b>100</b>	
<b>19</b>	Program to implement various SQLite operations : (INSERT, UPDATE ,DELETE ,SELECT)	23/02/2022	<b>104</b>	