

MOBILE APPLICATION DEVELOPMENT LAB

(20MCA243)

LAB RECORD

Submitted in partial fulfilment of the requirements for the award of the degree of Master of Computer Applications of A P J Abdul Kalam Technological University, Kerala.

Submitted by:

SREYAS SATHEESH (SJC23MCA-2053)



**MASTER OF COMPUTER APPLICATIONS
ST. JOSEPH'S COLLEGE OF ENGINEERING AND
TECHNOLOGY, PALAI**

CHOONDACHERRY P.O, KOTTAYAM

KERALA

November 2024

ST. JOSEPH' S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI

(An ISO 9001: 2015 Certified College)

CHOONDACHERRY P.O, KOTTAYAM, KERALA



CERTIFICATE

This is to certify that the Mobile Application Development Lab Record (20MCA243) submitted by **Sreyas Satheesh**, student of **Third** semester **MCA** at **ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI** in partial fulfilment for the award of Master of Computer Applications is a bonafide record of the lab work carried out by him under our guidance and supervision. This record in any form has not been submitted to any other University or Institute for any purpose.

Dr. Rahul Shajan

Associate Professor
(Head, Department of
Computer Applications)

Ms. Jeena Maria Sebastian

Assistant Professor,
Dept. of Computer Applications
(Faculty In-Charge)

Submitted for the End Semester Examination held on _____

Examiner 1:

Examiner 2:

DECLARATION

I Sreyas Satheesh, do hereby declare that the Mobile Application Development Lab Record (20MCA243) is a record of work carried out under the guidance of Ms. Jeena Maria Sebastian, Asst. Professor, Department of Computer Applications, SJ CET, Palai as per the requirement of the curriculum of Master of Computer Applications Programme of A P J Abdul Kalam Technology University, Thiruvananthapuram. Further, I also declare that this record has not been submitted, full or part thereof, in any University / Institution for the award of any Degree / Diploma.

Place : Choondacherry

SREYAS SATHEESH

Date :

(SJC23MCA-2053)

DEPARTMENT OF COMPUTER APPLICATIONS

VISION

To emerge as a center of excellence in the field of computer education with distinct identity and quality in all areas of its activities and develop a new generation of computer professionals with proper leadership, commitment and moral values.

MISSION

- Provide quality education in Computer Applications and bridge the gap between the academia and industry.
- Promoting innovation research and leadership in areas relevant to the socio economic progress of the country.
- Develop intellectual curiosity and a commitment to lifelong learning instudents, with societal and environmental concerns.

COURSE OUTCOMES

After the completion of the course 20MCA243 Mobile Application Development Lab the student will be able to :

CO 1	Design and develop user interfaces for mobile apps using basic building blocks, UI components and application structure using Emulator	K3 (Apply)
CO 2	Write simple programs and develop small applications using the concepts of UI design, layouts and preferences	K3 (Apply)
CO 3	Develop applications with multiple activities using intents, array adapter, exceptions and options menu.	K3 (Apply)
CO 4	Implement activities with dialogs, spinner, fragments and navigation drawer by applying themes	K3 (Apply)
CO 5	Develop mobile applications using SQLite.	K3 (Apply)

CONTENT

Sl. No.	Program List	Page No.	Date	Remarks
1	Write a program to change text on button click	1	25-07-2024	
2	Write a program to toast text on button click	4	08-08-2024	
3	Write a program to change background color on button click	7	21-08-2024	
4	Design a Login Form with username and password using Constraint Layout and toast valid credentials	10	22-08-2024	
5	Write a program that demonstrates Activity Lifecycle.	14	29-08-2024	
6	Implementing basic arithmetic operations of a simple calculator	18	04-09-2024	
7	Implement Intent to navigate between multiple pages	24	05-09-2024	
8	Design a registration activity and store registration details in local memory of phone using Intents and Shared Preferences	30	12-09-2024	
9	Write a program to open Facebook page on button click	42	25-09-2024	
10	Design a Login Form with username and password using Linear Layout	45	03-10-2024	
11	Design a Login Form with username and password using Relative Layout	48	09-10-2024	
12	Develop an application that uses ArrayAdapter with List View	51	16-10-2024	
13	Develop an application that uses ArrayAdapter with Grid View	54	17-10-2024	
14	Create database using SQLite and perform INSERT, SELECT, UPDATE and DELETE	57	23-10-2024	