THAKUR DEGREE COLLEGE OF SCIENCE AND COMMERCE

KANDIVALI (EAST) MUMBAI

A PROJECT REPORT ON

Cloud Based Free E-Learning Application

For

Thakur College of Science and Commerce

By

OJHA ABHISHEK DEVMANI

Submitted in partial fulfilment of

Master of Science (Computer Science)

[UNIVERSITY OF MUMBAI]

Thakur Degree College of Science and Commerce Kandivali (East), Mumbai.

ACADEMIC YEAR 2021-2022



Thakur Educational Trust's (Regd.)

Thakur College of Science & Commerce

UGC Recognised • Affiliated to University Of Mumbai (NAAC Accredited with Grade "A" [3rd Cycle] & ISO 9001:2015 Certified)

DATE: <u>28-03-2022</u>

COMPUTER SCIENCE DEPARTMENT (2021-2022)

CERTIFICATE OF APPROVAL

This is to certify that the project work entitled "Cloud based Free E-Learning Application" is prepared by Ojha Abhishek Devmani a student of "Masters of Science (Computer Science) Part1" course of University of Mumbai, which is conducted by our college.

This is the original study work and important sources used have been duly acknowledged in the report. The report is submitted in partial fulfilment of M.Sc. (Computer Science) course as per rules of University of Mumbai.

PROJECT GUIDE	HEAD OF DEPARTMENT	EXTERNAL EXAMINER

DECLARATION

I / We hereby declare that the project entitled, "Cloud based Free E-Learning Application" done at THAKUR DEGREE COLLEGE OF SCIENCE AND COMMERCE, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfilment of the requirement for the award of degree of MASTER OF SCIENCE (COMPUTER SCIENCE) to be submitted as semester II Mini project as part of our curriculum.

OJHA ABHISHEK DEVMANI

ACKNOWLEDGEMENT

Achievement is finding out what you would be doing rather than what you have to do. It is not until you undertake such a project that you realize how much effort and hard work it really is, what are your capabilities and how well you can present yourself or other things. It gives me immense pleasure to present this report towards the fulfillment of my project.

It has been rightly said that we are built on the shoulder of others. For everything I have achieved, the credit goes to all those who had helped me to complete this project successfully.

I take this opportunity to express my profound gratitude to management of Thakur Degree College of Science & Commerce for giving me this opportunity to accomplish this project work.

I am very much thankful to **Mrs. C. T. Chakraborty** - Principal of Thakur College for their kind co-operation in the completion of my project.

A special vote of thanks to our HOD **Mr. Ashish Trivedi** .Thanks to all our teachers for helping and guiding me throughout my project.

Finally, I would like to thank all my friends & entire Computer Science department who directly or indirectly helped me in completion of this project & to my family without whose support, motivation & encouragement this would not have been possible.

(OJHA ABHISHEK DEVMANI)

THAKUR DEGREE COLLEGE OF SCIENCE AND COMMERCE

Department of Computer Science 2021-2022

Students Name: OJHA ABHISHEK DEVMANI

Project Name: Cloud Based Free E-Learning Application.

College Name: Thakur College of Science and Commerce

PHASES	EXPECTED	ACTUAL	SIGNATURE
	DATE OF	DATE OF	
	COMPLETION	COMPLETION	
Preliminary	28/03/22	28/03/22	
Investigation			
System Analysis	28/03/22	28/03/22	
System Designing	28/03/22	28/03/22	
System Coding	28/03/22	28/03/22	
System	28/03/22	28/03/22	
Implementation			
Report Submission	28/03/22	28/03/22	

Organizational Overview

The **Thakur College of Science and Commerce (TCSC)** is a college in Kandivali in Mumbai of Maharashtra, India running by Thakur Educational Trust.

Thakur College was started in 1992 to serve the needs of students passing SSC examination from the schools around Kandivali area and Thakur Vidhya Mandir which has already established itself as one of the schools in the area. It offers courses at primarily the higher secondary and under-graduate levels. The courses at the undergraduate and post- graduate level are offered in affiliation with Mumbai University, Mumbai. An ISO 9001:2008 College with A grade as assessed by the National Assessment and Accreditation Council NAAC.

Name:	Thakur College of Science and Commerce
Founded:	1997
Address:	Thakur College of Science and Commerce, Thakur Village
	Kandivali(E), Mumbai – 400 001
Motto:	Journey towards Excellence
Total Staff:	200
Number of Students:	12500
Email:	Helpdesk@tcsc.org.in

INDEX

CHAPTER 01: INTRODUCTION
CHAPTER 02: PROBLEM STATEMENT
CHAPTER 03: THEORY, FIGURE, DIAGRAM
CHAPTER 04: LITERATURE REVIEW
CHAPTER 05: ANALYSIS AND DESIGN OF PROJECT
CHAPTER 06: IMPLEMENTATION OF PROJECT
CHAPTER 07: RESULT OF PROJECT
CHAPTER 08: CONCLUSION
CHAPTER 09: FUTURE SCOPE
CHAPTER 10: REFERENCES
LIST OF TABLES
Activity Diagram Symbol23
LIST OF FIGURES
Fig 1: Architecture E- Learning Application
Fig 2: Connection Between E-Learning Application
Fig 3: Data Flow Diagram
Fig 4: Entity Relationship Diagram15
Fig 5: ER Diagram16
Fig 6: Use Case Diagram for User App of Free E-Learning Course Application20
Fig 7: Use Case Diagram for User App of Free E-Learning Course Application21
Fig 8: Activity Diagram Tables24
Fig 9: Activity Diagram of Free E-Learning Application24
Fig 10: Class Diagram of Free E-Learning Application29
Fig 11: Sequence Diagram of Free E-Learning Application30
Fig 12: Admin App Code Main.dart31
Fig 13: Admin App Code Pubspec.yaml (App Configuration Files)31
Fig 14: Snapshots of Admin Panels
Fig 15: Snapshots of User App
Fig 16: Overall User acquisitions Report48