



Bahria University
Discovering Knowledge

FINAL YAER PROJECT REPORT

ONLINE FLIPPED LEARNING CLASSROOM

By

RUBIA IRSHAD	(32777)
AINSIA SHABBIR	(32724)
SARAH KHAN	(32779)
QAUSEEN MAAB ZAIFUDDIN	(32774)

SUPERVISED BY

(ASIA SAMREEN)

BAHRIA UNIVERSITY (KARACHI CAMPUS)

2016

Acknowledgments

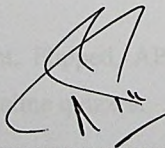
We certify that this project report entitled "ONLINE FLIPPED LEARNING CLASSROOM" is prepared by the students Ainsia Shabbir, Qauseen Maab, Rubia Irshad and Sarah Khan of Bahria University Karachi Campus (Computer Science Department) with all sincerity. It is our final year project report and would never see this day without the support of many valuable persons. We would like to thanks everyone who had contributed to the successful completion of this project.

We would like to express our gratitude to our researcher supervisor Asia Samreen for her valuable advice, guidance and her enormous patience throughout the project development.

In addition, we would like to thanks our teachers for their encouragement and guidance and our Head of Department Dr. HumeraFarooq the use of facilities with which the project was carried out.

Moreover, we would like to express our gratitude to our loving parents and friends who had helped and given us encouragement.

Approved By,



Signature:

Supervisor: Asia Samreen

Date:

31 - JAN - 2017

Abstract

The objective of our project is to create a learning management website which may help teachers in implementing a Flipped concept in more efficient and effective manner. It provides teachers and students a better platform to get in touch and access documents and files. It also provides them a limitless prospect to do their everyday work in more enhanced way. This project uses different APIs and integrated module to develop application for Bahria University. Online learning classrooms are quite common in this era and provide many features to teachers and students like Document sharing, Discussion board, Uploading and Downloading files and online quizzes. Using these all features teachers have now been providing education using the current technologies to all who want to learn in interactive and facilitating way. This is achieved by using different web technologies and APIs available.

Key words:

Learning management, Flipped, APIs, integrated module, Document sharing, Uploading and Downloading files, Online quizzes.

Table of contents

1. INTRODUCTION.....	10
1.1 Purpose.....	25
1.2 Problem.....	26
1.3 Solution.....	26
2. BACKGROUND AND LITERATURE REVIEW	27
3. REQUIREMENTS.....	32
3.1 Importance of requirement.....	32
3.2 Requirements traceability.....	32
3.3 Functional requirement.....	33
3.4 Non-Functional requirement.....	33
3.5 Application development table.....	34
3.6 Work breakdown structure.....	34
4. METHODOLOGY AND DESIGN	35
4.1 Physical modeling.....	37
4.2 Diagrams (use- cases, context, ERD etc.).....	39
4.3 GUI.....	41
5. IMPLEMENTATION.....	44
5.1. Components in project.....	44
5.1.1. Class Creation.....	44

ONLINE FLIPPED LEARNING CLASSROOM

5.1.2. Files upload on basis of scheduling.....45

5.1.3. Validation technique.....45

5.1.4. Save account.....46

5.1.5. Sign in and Signup.....46

5.1.6. Upload documents.....47

5.2.7. Video.....48

5.1.8. Logout.....49

5.1.9. Create Post.....49

5.1.10. Save quiz.....50

6. TESTING AND EVALUATION.....51

6.1. What is testing?51

6.2. Types of testing.....51

6.3. Test Cases53

7. CONCLUSION AND FUTURE WORK.....59

APPENDICES.....61

REFERENCES.....62

List of References.....63

Web Based..... 64