

DevLearn - An eLearning Platform

TABLE OF CONTENTS

1 INTRODUCTION	3
1,1 PROJECT TITLE	3
1,2 PROJECT OVERVIEW STATEMENT	
1,3 PROJECT GOALS & OBJECTIVES	
1,4 HIGH_LEVEL SYSTEM COMPONENTS	4
1.5 LIST OF OPTIONAL FUNCTIONAL UNITS	
1.6 APPLICATION ARCHITECTURE	
1.7 GANTT CHART	5
1.8 HARDWARE AND SOFTWARE SPECIFICATION	5
1 9 TOOLS AND TECHNOLOGIES USED WITH REASONING	6

[©] Punjab University College of Information Technology, University Of The Punjab.

1.1 Project Title

DevLearn - An eLearning Platform.

1.2 Project Overview Statement.

Project Title: DevLearn - An eLearning Platform.

Group Leader: Mr. Abu Huraira

Project Members:

Name	Registration #	Email Address	Signature
Ikram Anwar	BSEF19A512	bsef19a512@pucit.edu.pk	
Ahmar Farooq	BSEF19A528	bsef19a528@pucit.edu.pk	
Muhammad Abdullah	BSEF19A529	bsef19a529@pucit.edu.pk	
M. Subhan Ansari	BSEF19A535	bsef19a535@pucit.edu.pk	
Abu Huraira	BSEF19A545	bsef19a545@pucit.edu.pk	

Project Goal: The goal is to automate the learning process and to give a free source of education by developing an e-learning platform.

Objectives:

Sr.#				
1	To provide an effective and reliable platform for learning.			
2	To fulfill the flaws of existing e-learning platforms. Like free-of-cost courses To save a lot of time and effort.			
3				
4	To help the students financially by giving them a free source of education.			
5	It helps the students to secure jobs in the growing field of development.			
6				

Project Success Criteria: Our project will meet the success criteria if it effectively manages the process of giving them high-quality courses of programming by collaborating with professional developers.

Assumptions, Risks, and Obstacles: Secure System

Organization Address (if any): FCIT Quaid-e-Azam Campus Lahore

Type of project: Development

Target End users: Every enthusiast can learn

Development Technology: Object-Oriented

[©] Punjab University College of Information Technology, University Of The Punjab.

Platform: Web-based
Suggested Project Supervisor: Sir Umair Babar
Approved By:
Date:

1.3 Project Goals & Objectives

The objective of this process is to develop an e-learning platform of different programming languages. This will be computerized and can be accessed online. This software will make the student capable to do their learning process online instead of visiting different departments and offices and don't want to pay expensive dues.

1.4 High-level system components

These are the high-level components of the system.

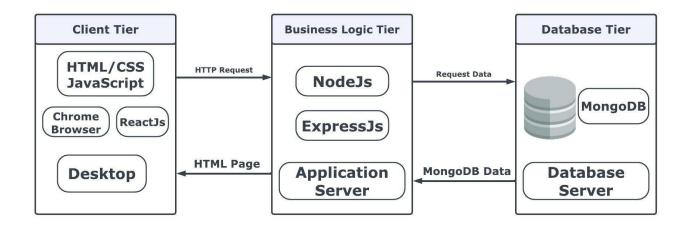
- Login
- Signup
- View user Dashboard.
- Verified persons can upload courses.
- Enroll for Courses.
- Generating results.
- Our own play-ground for programming
- Quizzes and assignments (play-ground Based).
- QnA section (query-based).

1.5 List of optional functional units

- Forget Password scenario
- Backup Data
- Signup with other accounts like google, Facebook, etc.
- Live Sessions like Google Meeting, zoom.

[©] Punjab University College of Information Technology, University Of The Punjab.

1.6 Application Architecture



1.7 Gantt chart



1.8 Hardware and Software Specification

- Intel CoreTM2 Duo Processor or higher
- RAM 512 or higher
- All operating systems having web browsers

[©] Punjab University College of Information Technology, University Of The Punjab.

1.9 Tools and Technologies

Development Process:

We will follow an iterative development process.

Programming Languages:

React and Redux

For front-end purposes, React and redux will be used.

Tailwind

For Styling purposes of the website, Tailwind will be used.

Express

For Server and back-end purposes, Express will be used.

Tools:

Adobe XD and Adobe Photoshop

We will use adobe photoshop for designing the layouts of our web pages.

VS Code

For writing code of Web page front end and handling the back-end business logic of the system as well as managing data by collaborating with the database. VS code will be used.

Node Js

We will use Node Js for creating an express server and react codes.

Rational Rose and Lucid Chart

For all types of UML diagrams and visual modeling for the conceptual representation of our system, we will use Rational Rose and Lucid Chart as our tools.

MS Word

Microsoft Word will be used for proper documentation as well as for making an elegant user manual of the Software System.

MongoDB

This MongoDB will be used as a database for storing data of students, faculty, and applications of other business rules.

GitHub and SourceTree

This will be used for uploading and pushing code to GitHub. For pushing purposes we'll use SourceTree.

[©] Punjab University College of Information Technology, University Of The Punjab.