**Project Name:** Online Learning Platform

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**Software Requirements Specification**

**Document**

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# **1. Introduction**

This document lays out a project plan for the development of an Online Learning Platform system. The intended readers of this document are current and future developers working on this project and the sponsors of the project. It includes the project overview and the software requirement

## Overview

E-learning is an education via the Internet, network, or standalone computer. E-learning is basically the network-enabled convey of skills and knowledge. E-learning refers to using electronic applications and processes to learn. E-learning includes all forms of electronically supported learning and teaching. Our project is based on this concept. It is an education platform where students can learn and teachers can create contents. For this project the user group of interests are users from Bangladesh.

## Purpose:

This project is chosen for building a platform for both students and teachers. Many students face trouble on understanding important concepts in the class properly. Besides, there are lots of students who are eager to learn but can’t get enough resources or accessibility. But most people now have access to the internet and smart devices. So, with this project we want to make things accessible to people who wants to learn and teach. This project is based on the following principles:

• To provide useful contents and resources to high school and university students.

• To create a platform for tutors to upload contents and sell them.

• This E-learning Website Can be Also Provide Information About Questions.

## 1.3 Scenario:

E-learning is getting popular in most of the developed countries. Web sites like Coursera, Khan Academy, EDX, Byjus are some of the leading e-learning platforms. We want to develop such platform in Bangladesh to provide a skill-based learning system for the users.

## Intended Use:

There are 3 types of service in this system:

1.Services for students: Students will be able to register, enroll in courses, have questions and answer session with course provider, ask questions, reply to questions, publish blogs, save progresses etc.

2.Services for teachers: Teachers can create and update courses. Can sell them in the marketplace or publish for free.

3.Mentorship Program: People can sign up for mentor. Chat system for student and mentor. Write blogs, answer to questions.

# 2. Overall Description

## 2.1 Users:

The system is developed for everyone. Anyone can use this application ranging from a child to and old-age person. The focused users are the peoples who want to learn and teach.

## 2.2 Goals & Scope:

Main goal of all projects is the satisfaction of the users. Without the usability and reliability, a project has no value. So, for the project to be successful the software has to be well designed, responsive and should contain uniqueness. Beside this it has to have good contents, and the course designers and providers also have to be very skillful. The system should help its user to learn and gain skills. It will help them to get employed and building connection by showcasing their skills in their profile.

## 2.3 Stakeholders

The project stakeholder includes both the client and the customers. It includes:

• Founder of the company

• Company that will run the business

• The development teams

• Testers

• Sponsors

• Students

• Teachers

• Content providers

• Parents of the students

# 3. Requirements Elicitation

## 3.1 Feasibility Study:

The Project focuses on a large group of users. It includes students, teachers, contributors and even the online users. Since this is a platform for mass users so, the development and maintenance cost will be very high. It is also necessary to know if the users are eager to use such system. Without the need it is completely worthless to build such a system. So, we have done some study based of demographic region of several areas in Bangladesh, accessibility to the internet and smart devices and collected opinions from people of different age group

## 3.2 Requirements Collection:

It is very important to know the demand of the market to decide if it is worthy of building an education platform. To analyze the market demand for such platform and to know about people’s reactions requirement collection is very necessary. We used brainstorming technique from generating ideas for the project. We have done small survey on group of people and collected their user stories for the project.

# 4. System Features and Requirements

## 4.1 Functional Requirements:

* The application should have responsive interface
* Users should be able to register for an account
* Users will be able to enroll in a course
* Users can review a course
* Teachers should be able to build and add contents to a course
* There should be secure payment gateway for users to buy a course
* There should be Content Management System (CMS) for content providers

## 4.2 Non-Functional Requirements

* The application shall be easy to use by all
* Users will be able to login with Google and Facebook
* User should be logged in for viewing a course
* Different interfaces for student and teachers

## 4.3 Technical Process

Following are the languages that would be used to develop the application:

Front-end development: HTML, CSS, JavaScript.

Back-end development: Python, PostgreSQL.

Framework: We will use Bootstrap as front-end framework and Django in the Backend and for building APIs.

# 5. User Story:

|  |  |  |  |
| --- | --- | --- | --- |
| **Product Backlog Online Learning Site** | | | |
| **Task ID** | **Story** | **Estimate**  **(Days)** | **Priority** |
| 4 | As a user, I want to view page contents, features and go through the whole site. | 10 | 1 |
| 2 | As a user, I want to able to register and log in to my account. | 4 | 2 |
| 3 | As an admin, I want to take control and view users activity. | 4 | 3 |
| 1 | As a content developer, want a system for easily design and upload contents | 7 | 4 |
| 6 | As a user of the site, it must have high security and easy payment gateway. | 6 | 5 |
| 10 | As a student, will be able to save my progress | 3 | 6 |
| 8 | As a student, will be able show my skill sets and completed courses to others in my profile | 5 | 7 |
| 7 | As a user, I want to be able to ask questions to the forum. | 9 | 8 |
| 9 | As a user, I want to write blogs and share resources. | 7 | 9 |
| 5 | As a student, I want to be able to chat we the course creator or a mentor. | 14 | 10 |