

Software Requirements Specification

for

Online Moodle Portal

Version 1.0 approved

Prepared by: Shivani Patel

Roll No: CE107

ID:18CEUOS115

<Computer Engineering department, DDU>

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Revision History

Name	Date	Reason For Changes	Version
Shivani Patel	10 th dec. 2020	Functional and non-functional requirements	1.0

1. Introduction

1.1 Purpose

Purpose of this document is to provide brief introduction about Online Moodle portal. It will show scope of system, features and as well as constraint of the system in detail.

1.2 Document Conventions

This document follows all the conventions of IEEE standards.

1.3 Intended Audience and Reading Suggestions

Document relates to software developers, software testers, software user, project manager and users.

1.4 Product Scope

This System is made in view of to make term work of school or college easy for teacher and even for students. teacher can put assignments here and student can easily submit their work through this system and teacher can easily evaluate them.

1.5 References

<https://egov.ddit.ac.in/moodle/login/index.php>

2. Overall Description

2.1 Product Perspective

Online Moodle portal is a web platform for a college or learning organization, it handles all submission of term-work of students online. Here teacher will add the work and student will submit in given deadline, so it makes evaluation of term work easy.

2.2 Product Functions

It allows teacher to upload new work with deadline. It shows students all the work he had done and pending work. Student can upload work for particular assignment he has been given and teacher can see what student have done for particular assignment. teacher can give marks to student for particular assignment. Student can see his evaluation. Student can see/edit his profile. teacher can see submissions by all the student for particular product or he can see all submissions made by particular student in given course.

2.3 User Classes and Characteristics

Here, teacher and student are the two User classes. It uses a Graphical User Interface (GUI).

2.4 Operating Environment

Software Requirements:

- Windows Operating System

Hardware Requirements:

- Core i5 processor
- 8GB RAM
- 1 TB hard disk

2.5 Design and Implementation Constraints

Only teacher have access to control system. Each user will have unique id and password. Django framework is used here.

2.6 Assumptions and Dependencies

Student and teacher need to login first to access the system. Server must be in running state when system need to work.

3. External Interface Requirements

3.1 User Interfaces

Teacher will be able to add/delete new course and he can add assignment work to any course. Teacher will be able to see uploaded work too. Student can view any course. he can upload his work. Student/ teacher, if forgot password then they can click on forgot password button.

3.2 Hardware Interfaces

Larger screen device for better looking GUI with enough memory.

3.3 Software Interfaces

This System is developed in Django framework of Python with SQLite database.

4. System Features

4.1 Manage Student side

4.1.1 Registration of Student

student need to register himself first with required details.

Input: valid details new student

Output: Account of student is created and system goes to home page for student

4.1.2 Login for student

Login with registered Email and valid password.

Input: valid information

Output: home page for student

4.1.3 View assignments for particular course

Student can see pending and completed, both kind of work given for particular course.

Input: user selection

Output: list of assignment for that course

4.1.4 Submission of work

Student can see particular assignment given with all the details along due date. If submission is pending then student can upload submission file in given deadline.

Input: upload of file

Output: successfully storing of file of student in database for that assignment

4.1.5 Edit profile

Student can view and edit his profile whenever he wants.

Input: user input

Output: data will be updated into database

4.1.6 Forgot password

If student have forgotten is password then he can reset it via email.

Input: enter email

Output: link for password change in mailbox

4.2 Manage Teacher side

4.2.1 Registration of teacher

Teacher will first register himself with required details.

Input: valid details

Output: home page for teacher is displayed

4.2.2 Login for teacher

Login with registered Email and valid password.

Input: valid information

Output: home page for teacher is displayed

4.2.3 Add new course

Input: enter necessary details

Output: new course is stored into database

4.2.4 Add new assignment

Input: upload file of assignment for particular course with deadline and other details

Output: assignment is stored and displayed in the list of all the assignments

4.2.5 Delete course/assignment

Input: user selection

Output: that course/assignment will be deleted from the database

4.2.6 Forgot password

If teacher have forgotten is password then he can reset it via email.

Input: enter email

Output: link for password change in mailbox

4.3 Manage Submissions

4.3.1 View submission of all the students

Teacher can see all the submission file for particular assignment

Input: selection button for particular assignment

Output: list of students with their submission files. Teacher can view any of that file

4.3.2 View submission of particular student

Input: selection button

Output: list of all the submission of that course by particular student

4.3.3 Evaluation of submission

Teacher will add marks of submission of student

Input: user input of marks

Output: those marks will be shown to user in his detail of that submission

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Performance of the system is based on connection with connectivity with database, response time of User-interface, regular database archiving, Virus Protection, Network Security and capacity to handle load.

5.2 Security Requirements

- Every registered user must have unique user Id and password.
- Only Teacher should be able to view and modify all information in system.
- No information of any user is leaked.