Team-Pavankumar Biradar
Ragini Pandey

SRS Document

Purpose Of Project:

This document is meant to focus the features of Online Portal for Student Management System for a CDAC Institute so as to serve as a guide to the developers on one hand and software validation document .

It is a system designed especially for a CDAC Institute. This system provides complete functionality of student and Teacher login where students can access the marks, attendance and submission related work

Scope of Project:

This system will be the best medium between the College Management and the Students in all aspects to achieve one to one connection with students.

Definitions:

SRS- Software Requirement Specification

GUI- Graphical User Interface

OSMS- Online Student Management System

Overall Description:

This Student Management System will act as a mediator between the management and Students where student can access everything they need to and vice versa. Students will have their own portal where they can interact with the college management System talking about both teaching as well as non-Teaching .

Admin can control all the activities on this portal teachers can perform their respective functionalities and at the end students are the one for whom this all is for.

Product Perspective:

This product aimed toward students who can access their own as well as provided data for them and college can fulfill having its own student portal ,no need of scattered existing system.

Constraints:

A full internet connection is required for CRS.

Assumptions and Dependencies:

Working of CRS need Internet Connection.

- **Functional Requirements:**

This System focuses on the Student as the final User and everything is designed in this system by considering Student at the centre Point.

Admin-Admin can administrate the whole System,admin can access this system using login id and password after registering through registration form,after login admin can have different functionalities such as adding Particular teacher as he/she joins the organisation and assign the role as such as lab faculty or teaching faculty,and provides the login credentials such as id and password,using that teacher can access the system and student are also added to the system by admin and provide id and password .admin can remove particular teacher if teacher leaves the organisation and same for students .admin is going to post the weekly timetable and the notice if there any.

Teacher-Teacher have their role as per the role they have their respective functionalities teaching faculty can post the daily data as well as assignments for students and can have access to the weekly timetable ,notice for them posted by Admin.if teacher is a lab faculty they can give marks to the students for assignments submitted on portal by students as well for end module ,mark the attendance of student modulewise in terms of percentage.

Student-Student is the end user of our system who can have access to all the data provided for them as well student can update in the profile if there any changes and can submit assignments on this portal,can acess to

the marks and attendance .Students can give feedback trough this portal as well.

College can access the total data of their Students from this System

- **NonFunctional Requirement:**

Security

Registered Admin will allowed to access the administration of System
Each User will be to access system through authentication process. Who are you ?
System will provide access to the content , operations using Role based security (Authorization) (Permissions based on Role)
System will automatically log of user after some time due to inactiveness (if Session is timed Out)
System will internally maintain secure communiction channel between Servers (Web Servers, App Servers, databse Server)
Sensitive data will be always encrypted across communcation.

Reliability

The system will backup business data on regular basis and recover in short time duration to keep system operational
Continous updates are matained , continous Adminstration is done to keep system operational.
During the traffic system will maintain same user experaince by managing load balancing .

Availability

24* 7 available as user can acess the portal at any time as per its requirement

Maintainability:

Commercial database software will be used to maintain System data Persistence.

IT operations team will easily monitor and configure System using Adminstrative tools provided by Servers.

Separate enviornment will be maintained for system for isolation in production, testing, and development.

Portablility:

PDA: Portable Device Application
System will provide portable User Interface (HTML, CSS, JS) through users will be able to access online portal.
System can be deployed to single server, multi server, to any OS, Cloud (Azure or AWS or GCP)

Accessibility:

only added user will be able to acess the system.
Admin can add or remove the users.
management team will be able to view the system through admin login.

Durability:

System is going to be the best medium between College Authority and the Students.

Efficiency:

At the time of high traffic on the System,System will remain as efficient as favourable conditions

Modularity:

System will designed and developed for the basically three modules Admin as the principal actor,teacher as a first user and Student as end User.

These modules are Interlinked together in this System

Scalability:

System will be able to provide consistent user exeprience to college management as well as Users irrespective of load.

Safety:

online portal functionalilites are protected from outside with proper firewall configuration.as anyone could not interfere in others functionalities

online portal will be always kept updated with latest anit virus software.

Data will be backed up periodically to ensure safty of data using increamental back up strategy.

Performance Requirements:

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

Technical Issues:

This system will work on client-server architecture. It will require an internet server and which will be able to run PHP application. The system should support some commonly used browser such as IE,mozzila

firefox,chrome etc.