PUSL2021
COMPUTING GROUP PROJECT

Group (A) - 48

Student Data Management System for School

Members 's Name	Members 's Position	Index Number
Edirisinghe Nimsara	Project & Group Leader	10898578
Galbokka Thathsarani	Planning Leader	10899715
Hapuarachchige Anushan	Technical Leader	10898413
Wijesinghe Dinushika	Programming Leader	10903094
Gihansie Piyarathna	Quality Leader	10898614
Jayasuriya Jayasuriya	Testing & Maintenance Leader	10898500

CONTENT

Project Overview

In Sri Lanka, many local schools use manual process to store students' details. It is a very complex system. So, our group decided to develop a "Student Data Management System" (SDMS) for those schools.

This Student Data Management System (SDMS) is a Software Application designed to streamline and centralize student data management for educational schools. It provides a user-friendly interface for managing students' records, generating reports, and facilitating communication between administrators, teachers, students & parents.

This system can be used to manage a wide range of student related information including:

- Personal Information
- Academic Information
- Behavioral Records
- Financial Records

Administrative Tasks such as Student Enrollment, Student Registration, Course Scheduling & Grade Reporting also added to this Student Data Management system.

Objectives

- Automate the manual processes involved in SMS

- Improve the efficiency and accuracy of student record keeping

- Teachers and administrators can easily access and manage students data

- Students can easily access to their academic information.

- Track student progress and generate reports

Target Users

- ❖ Teachers

- ❖ Students

- ❖ Administrators

- ❖ Parents

Application Features & Description

- **Sign up:-** Teachers/Students/Administrators will sign up to the system and they will get their unique login ID & password.

- **Teachers login:-** Teachers can login to the system and check students records and access to the academic tasks.

- **Students login:-** Students can login to the system and access to their academic works and check their own progress

- **Administrators login:-** Administrators can login to the system and access both students & teachers records

- **Student Page:-** Student personal details, Guardian details, academic enrollments , time table, progress records will visible in the page

- **Teachers Page:-** Teacher's personal details, time table, academic enrollments will visible in the page.

Time Frame & Gantt Chart

Student Data Management System for School

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Project start date: 01-10-23

Milestone marker: 1

Scrolling increment: 30

Milestone description	Assigned to	Progress	Start	End	Days
Start					
Create Team	Edirisinghe Nimsara	100%	01-10-23	03-10-23	3
Choose Project	Edirisinghe Nimsara	100%	01-10-23	09-10-23	10
Requirement Gathering					
User Interviews	Galbokka Thathsarani	100%	04-10-23	09-10-23	5
Surveys and Feedbacks	Galbokka Thathsarani	100%	05-10-23	12-10-23	7
Analysis					
Project Scope Statement	Galbokka Thathsarani	40%	11-10-23	19-10-23	7
Use Case Scenarios	Galbokka Thathsarani	50%	11-10-23	26-10-23	12
Data Flow Diagrams	Galbokka Thathsarani	0%	22-10-23	06-11-23	12
Design					
ER Diagrams	Hapuarachchige Anushan	0%	24-10-23	13-11-23	15
Class Diagrams	Galbokka Thathsarani	0%	12-11-23	21-11-23	8
UI/UX Design	Hapuarachchige Anushan	0%	30-11-23	19-12-23	14
Development					
Front End	Wijesinghe Dinushika	0%	16-11-23	20-03-24	90
Back End	Wijesinghe Dinushika	0%	16-11-23	20-03-24	90
Debugging	Wijesinghe Dinushika	0%	30-11-23	20-03-24	85
Data Initialization	Wijesinghe Dinushika	0%	10-12-23	20-03-24	75
Testing					
Unit Testing	Gihansie Piyarathna	0%	28-02-24	19-03-24	14
User Acceptance Testing	Gihansie Piyarathna	0%	28-02-24	28-03-24	21
Implementation					
Rollout Planning	Gihansie Piyarathna	0%	24-03-24	04-04-24	10
User Training	Gihansie Piyarathna	0%	24-03-24	09-04-24	13
Maintainance					
Bug Fixes and Updates	Jayasuriya Jayasuriya	0%	11-04-24	18-04-24	5
Performance Optimization	Jayasuriya Jayasuriya	0%	11-04-24	18-04-24	6
Finish	Edirisinghe Nimsara	0%	20-04-24	20-04-24	1

GANTT chart Link:

https://drive.google.com/drive/folders/1BR3Nv50GxZaRCkFk2CM3y386wjkIpFv0?usp=sharing