

SOFTWARE PROJECT-3

Academic Performance Evaluation System



MASTER'S DEGREE IN COMPUTER APPLICATIONS (M.C.A.)

GUJARAT TECHNOLOGICAL UNIVERSITY

**UNDER THE GUIDANCE OF
Prof. Anjum Mansuri**

DEVELOPED BY

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GROUP NO: - MCA_4_74

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Acknowledgement

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CERTIFICATE

Enrollment No: 205170694116

This is to certify that Mr. / Ms. **Mansuri Mohammed Sufyan Mohammed Taufiq** studying in Master of Computer Applications, Semester IV, Roll No **32** has satisfactorily completed his/her Project Titled **Academic Performance Evaluation System** under the supervision of

Prof. Anjum Mansuri

Signature

Date of Submission:

Director

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Signature

Date of Submission:

Director

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1. Introduction

- Student Performance with Graph & Academic Project Work Reporting System is a web-based application developed using MERN Stack and PowerBI. This application provides an easy way to student and teacher in searching the details of their academic attendance, marks percentage and Academic Performance based on attendance, marks (grades) details with graph.

1.1. Existing System

- Student performance means their actions when the students are completing some tasks, roles or obligation. That is related to the word “students’ performance” and now when it comes to the word “evaluation”, it means the examination, judgment, appraisal and assignment a value of a particular performance.
- Currently all this is done using pen & paper. The student assignment submission, attendance and exam results are all stored on a sheet of paper. The teacher then evaluates the student based on these parameters and puts marks.

1.2. Need for The New System

- As we saw that the entire process is done using pen & paper which can be difficult to manage sometimes. Also, there's a chance of the paper sheet getting destroyed or lost.
- In the proposed system all this problem will be solved as there will be no paper involved in the new system and the data cannot be lost as it is stored in a secure remote database.

1.3. Scope and Objective

- The proposed system provides the faculty an easy and accurate data about attendance reports and Academic percentages reports and Students details reports.
- The proposed system provides the student an easy and accurate data about attendance and academic percentages. Students can view all the information in just one click which saves a lot of time and effort. The proposed system maintains a database to store all the information. In this system, there is no chance of losing data. Adding and searching the information is very easy which does not take much time and physical effort.

1.4. Problem Definition

- The goal of the project is to analyse and visualize student details, attendance, faculty details and student performance in a useful and meaningful way.
- This can be achieved by using PowerBI which is a business integration tool developed by Microsoft.
- Before the visualization of the data, it needs to be noise free that is dataset needs to be cleaned which can be done in PowerBI.

1.5. Core Components

- **Faculty Module**
 - Authentication
 - Manage Student Attendance
 - Manage Student Performance
 - Manage Profile
 - View Reports
- **Student Module**
 - Authentication
 - View Attendance
 - View Performance
- **Admin Module**
 - Authentication/Authorization
 - Manage Users
 - Manage Students
 - Manage Results Details
 - Manage Profile
 - View Reports

1.6. Project Profile

- **Name: Academic Performance Evaluation System**
- **Technologies**
 - **Front-end (ReactJS)**
 - HTML
 - CSS
 - JavaScript
 - **Back-end**
 - NodeJS
 - PowerBI
 - MongoDB
 - Express
 - AdminJS

1.7. Assumptions & Constraints

1.7.1. Assumptions

- All group members have required skills.
- All of the PC/Laptops are in good conditions.
- All needed resources will be available.
- Active internet connection is available to all members.

1.7.2. Constraints

- Project needs to completed in the given timeline.
- Group members need to learn MERN (MongoDB, Express, ReactJS and NodeJS) stack as well as Power Bi (Data Cleaning & Visualization).
- Requirements for the installation of PowerBI
 - Windows 8.1 or Later
 - .NET 4.6.2 or later

1.8. Advantages & Limitations of the Proposed System

1.8.1. Advantages

- This evaluation system is more accurate than conventional methods.
- Student Information uploaded once should not be lost and errors can be corrected.
- This system is very beneficial for education institutes or universities for academic performance evaluation of student efficiently.

1.8.2. Limitations

- Wrong data entry for attendance or marks may causes problems in accuracy of academic performance.

2. Requirement Determination & Analysis

2.1. Requirement Determination

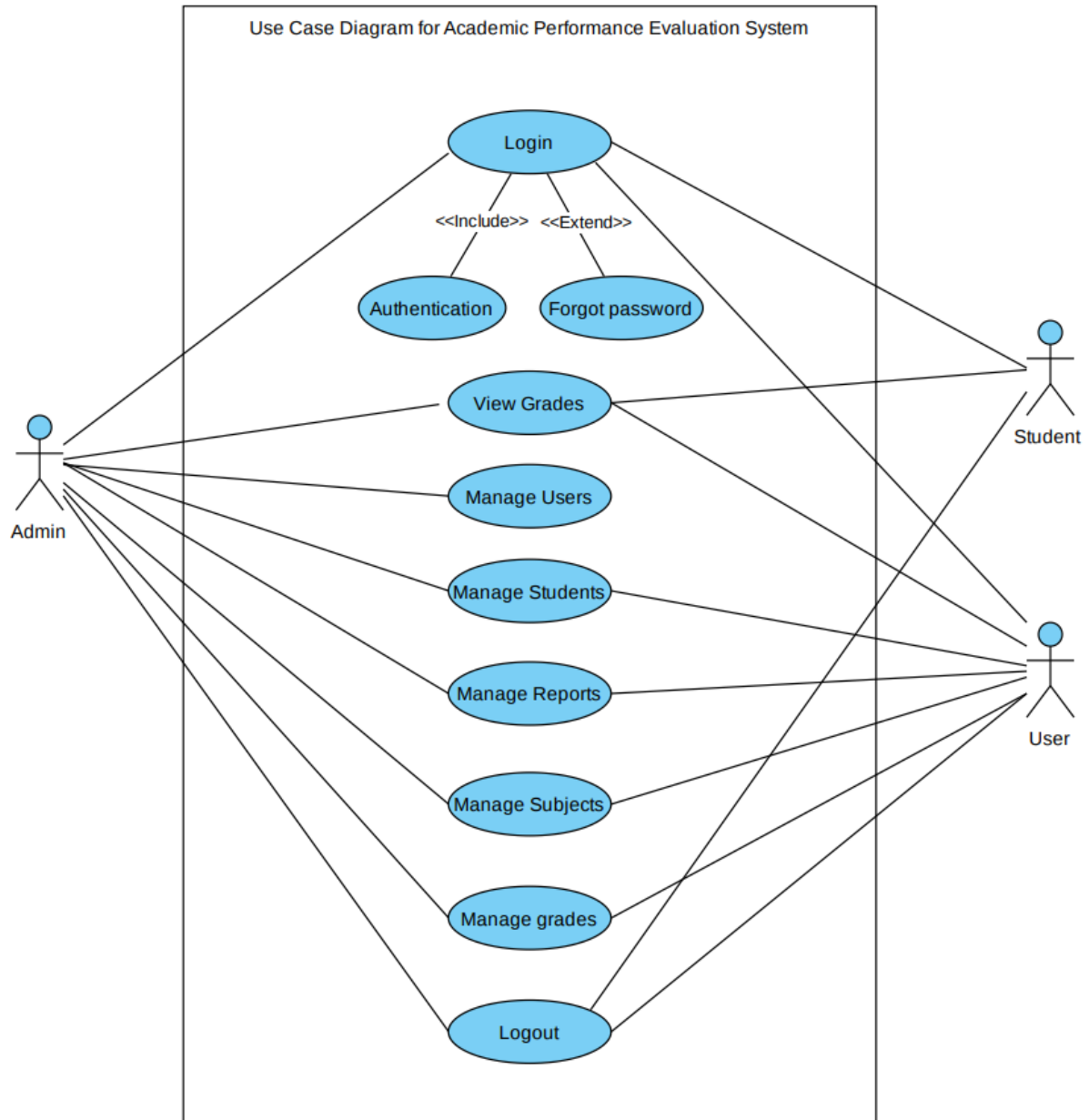
- To develop a web application with the tools to handle all the tasks that are needed for student's academic performance evaluation as well as visualize the data in a meaningful way so that the user can analyze it easily.
- The application should be very easy to use enabling even a novice person to use it.
- Our team determined that the application can be built using the combination MERN and PowerBI.

2.2. Targeted Users

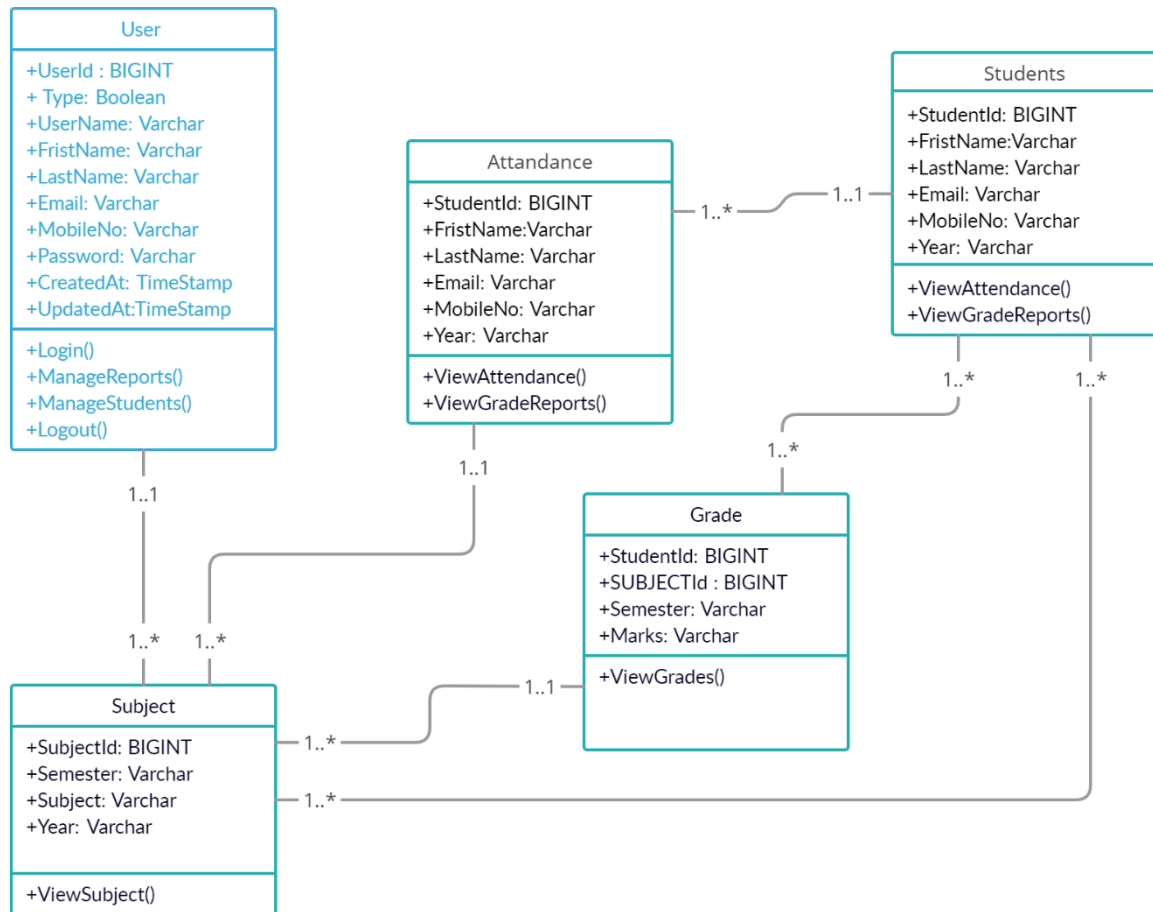
- Students
- Faculty
- Admin

3. System Design

3.1. Use Case Diagram

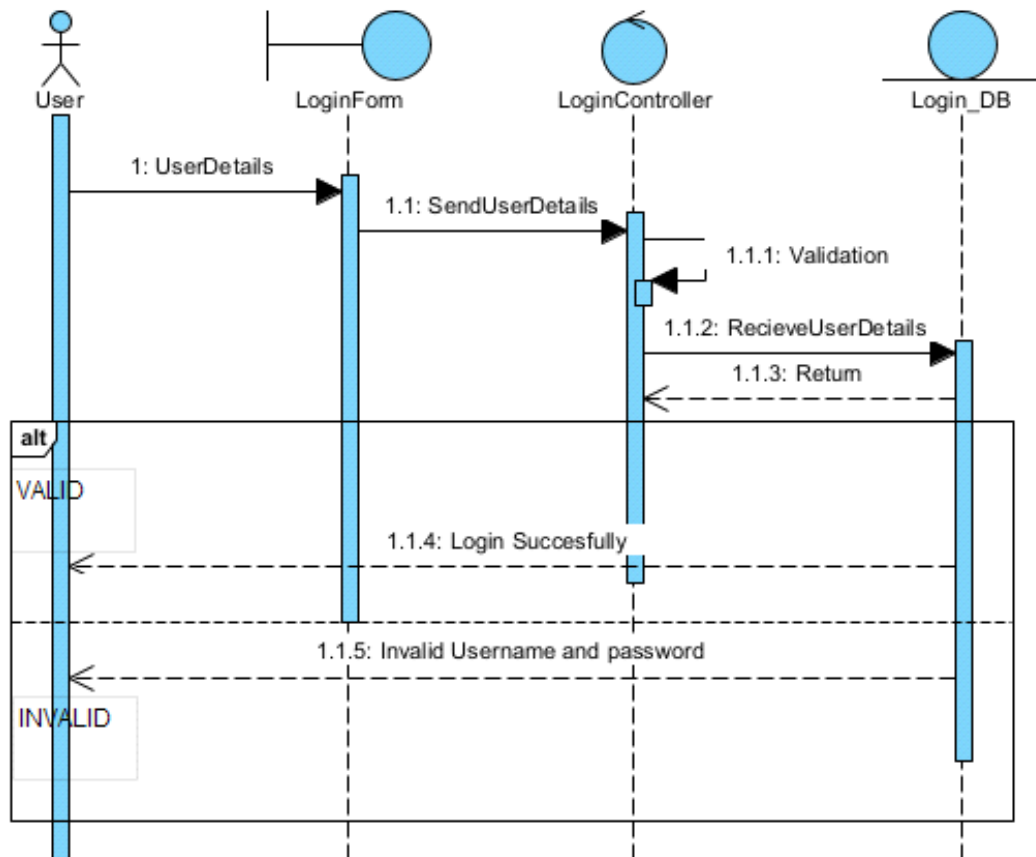


3.2. Class Diagram

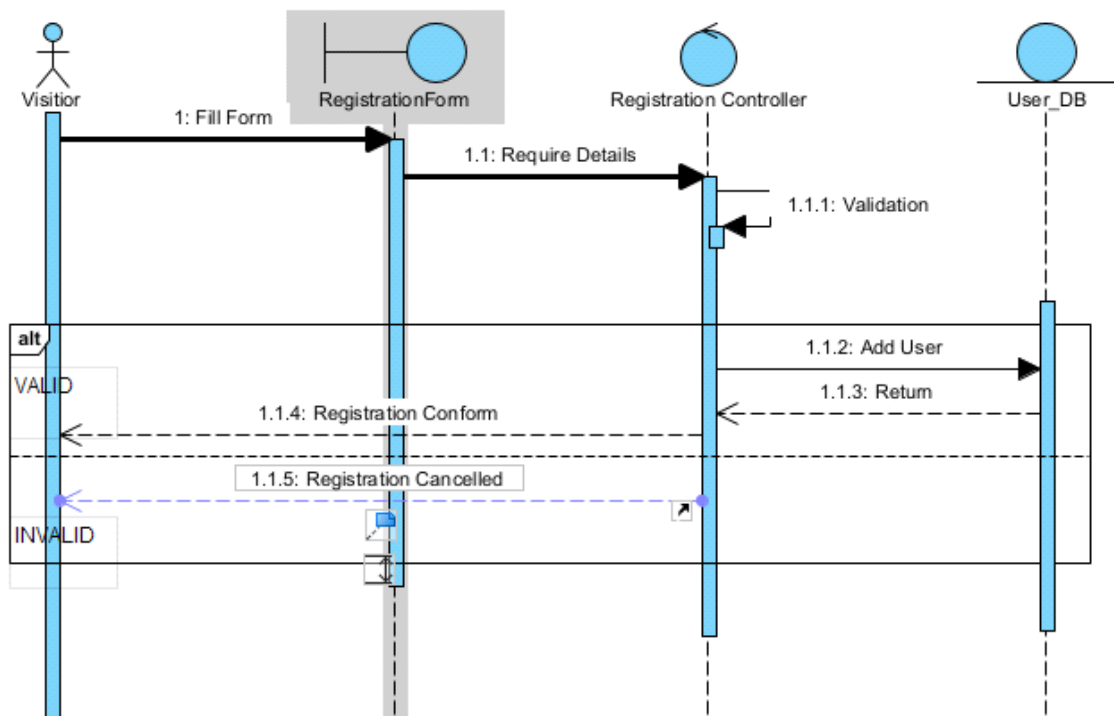


3.3. Interaction Diagram

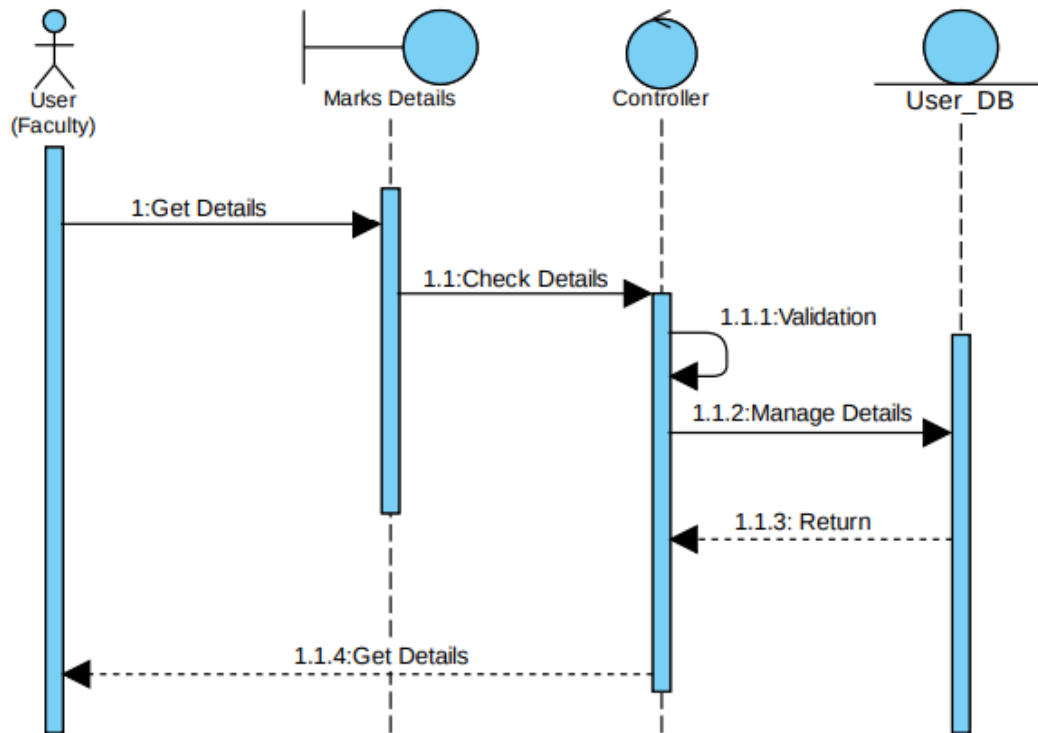
Login



Register

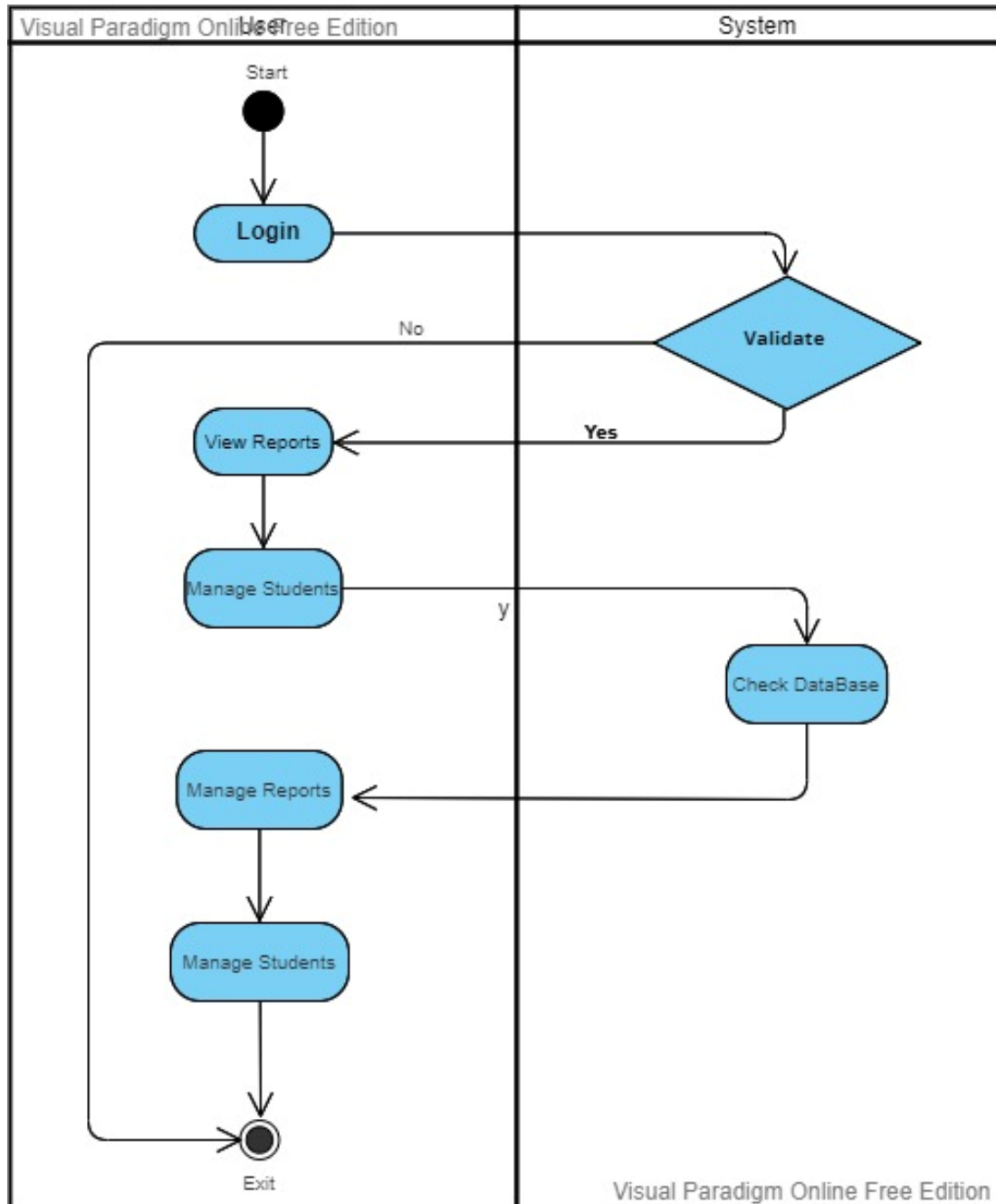


Manage Grades

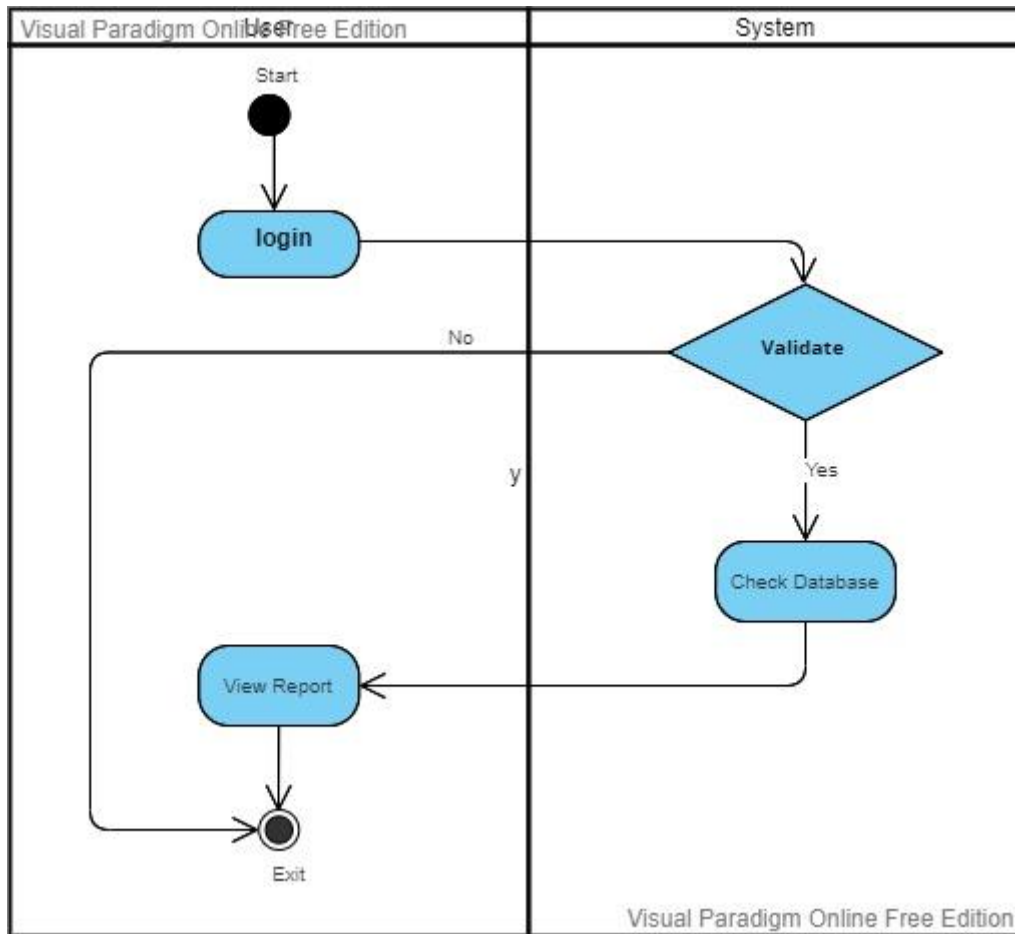


3.4. Activity Diagram

Admin



Student



3.5. Data Dictionary

- Table: **User**
- Description: Stores user & login details.
- Primary Key: **UserId**

Field	Type	Constraints	Description	Sample Data
UserId	BIGINT (15)	PRIMARY KEY	Id of user	1
Type	BOOLEAN (1)	NOTNULL	1: user 0: admin	1
Username	VARCHAR (50)	NOT NULL, UNIQUE	Website Name of User	SufyanMansuri
FirstName	VARCHAR (50)	-	Name of User	Sufyan
LastName	VARCHAR (50)	-	Last Name of User	Mansuri
Email	VARCHAR (320)	NOT NULL, UNIQUE	Email of User	sufi@gmail.com
MobileNo	VARCHAR (13)	UNIQUE	Mobile No of user	+919687557156
Password	VARCHAR (120)	NOTNULL	Password of User account	pbkdf2_sha256\$260000...
CreatedAt	TIMESTAMP	NOTNULL	Date & Time of User Created	2022-03-25T18:39:41.694+00:00
UpdatedAt	TIMESTAMP	NOTNULL	Date & Time of User Created	2022-03-25T18:39:41.694+00:00

- Table: **Student**
- Description: Stores student details.
- Primary Key: **StudentId**

Column	Type	Constraints	Description	Sample Data
StudentId	BIGINT (15)	PRIMARYKEY	Id of user	1
FirstName	VARCHAR (50)	-	Frist Name of User	Roshan
LastName	VARCHAR (50)	-	Last Name of User	Rajendra
Email	VARCHAR (320)	NOT NULL, UNIQUE	Email of User	sufi@gmail.com
MobileNo	VARCHAR (13)	UNIQUE	Mobile No of user	+919687557156
Semester	VARCHAR (5)	-	Semester Details	Sem-1
Year	VARCHAR (10)	-	Enrolled Year	2022

- Table: **Subject**
- Description: Stores subject information and the term that they belong to.
- Primary Key: **SubjectId**

Column	Type	Constraints	Description	Sample Data
SubjectId	BIGINT (15)	NOTNULL	Id of Subjects	1
Semester	VARCHAR (5)	-	Semester Details	Sem-1
Subject	VARCHAR (50)	-	Name of Subject	Java
Year	VARCHRE (10)	-	Year details	2022

- Table: **Grades**
- Description: Stores grades/marks of students in individual subjects.
- Primary Key: **StudentId + SubjectId**

Column	Type	Constraints	Description	Sample Data
StudentId	BIGINT (15)	FOREIGNKEY	Id of student	1
SubjectId	BIGINT (15)	FOREIGNKEY	Id of Subjects	1
Semester	VARCHAR (5)	-	Semester Details	Sem-1
Marks	VARCHAR (3)	-	Marks of Students	76

- Table: **Attendance**
- Description: Stores student's attendance details.
- Primary Key: **StudentId + SubjectId**

Column	Type	Constraints	Description	Sample Data
StudentId	BIGINT (15)	FOREIGNKEY	Id of Student	1
SubjectId	BIGINT (15)	FOREIGNKEY	Id of Subjects	1
Semester	VARCHAR (5)	-	Semester Details	Sem-1
Attendance	DECIMAL (5,2)	NOTNULL, MIN: 0, MAX: 100	Attendance Percent	81.00

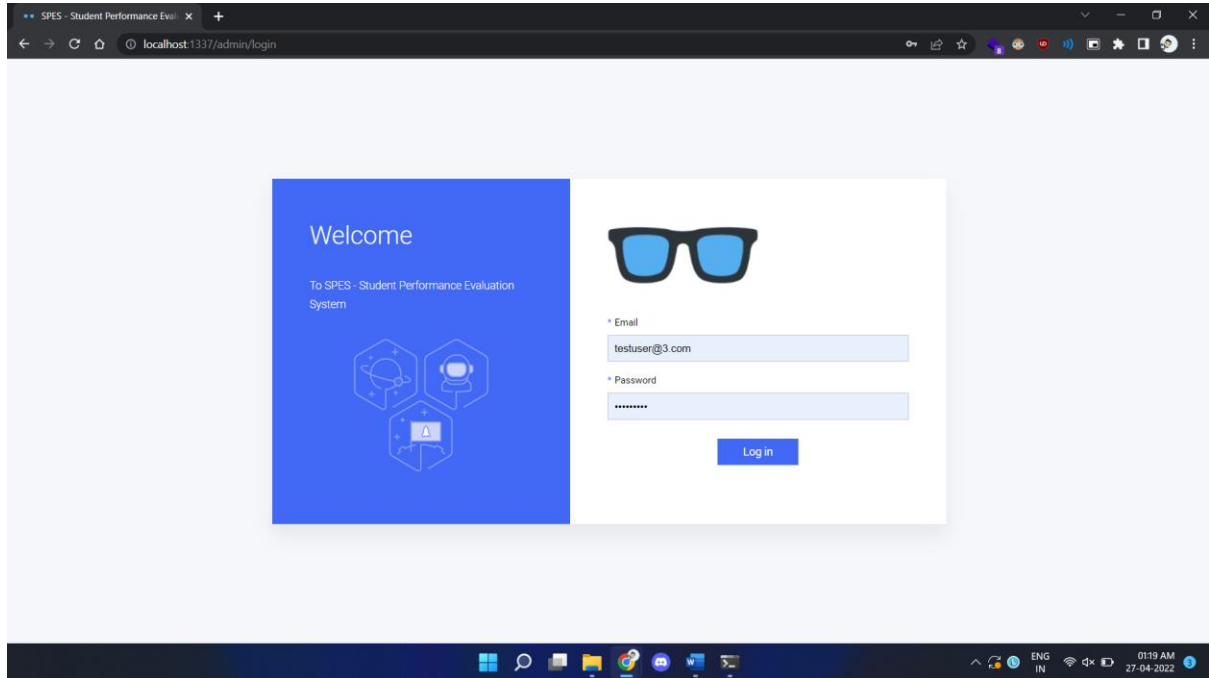
4. Development

4.1. Coding Standards

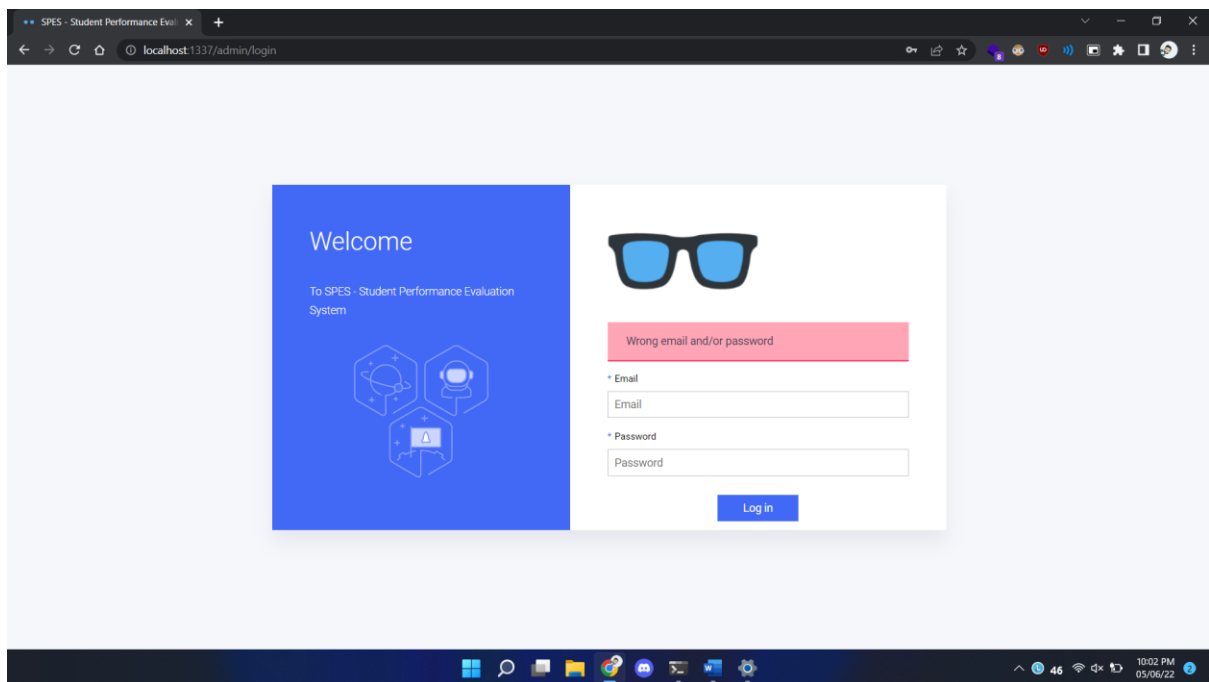
- Coding standard of this projects were
 - At Least one blank line between functions.
 - At least two blank lines between classes.
 - Proper Indentation in every type of file.
 - Single space before and after operators, except in parameters.
 - Every item on new line.
 - Every word should be case sensitive in variable and function names.

4.2. Screenshots

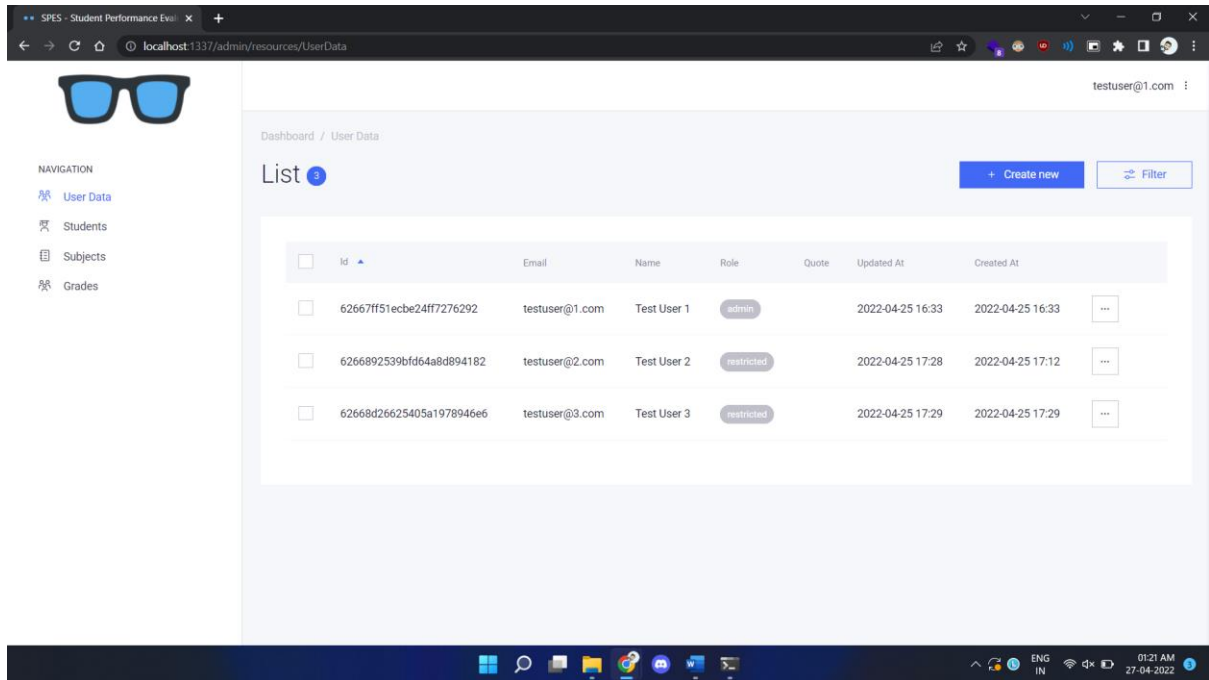
Login Page



Login Page → Validations



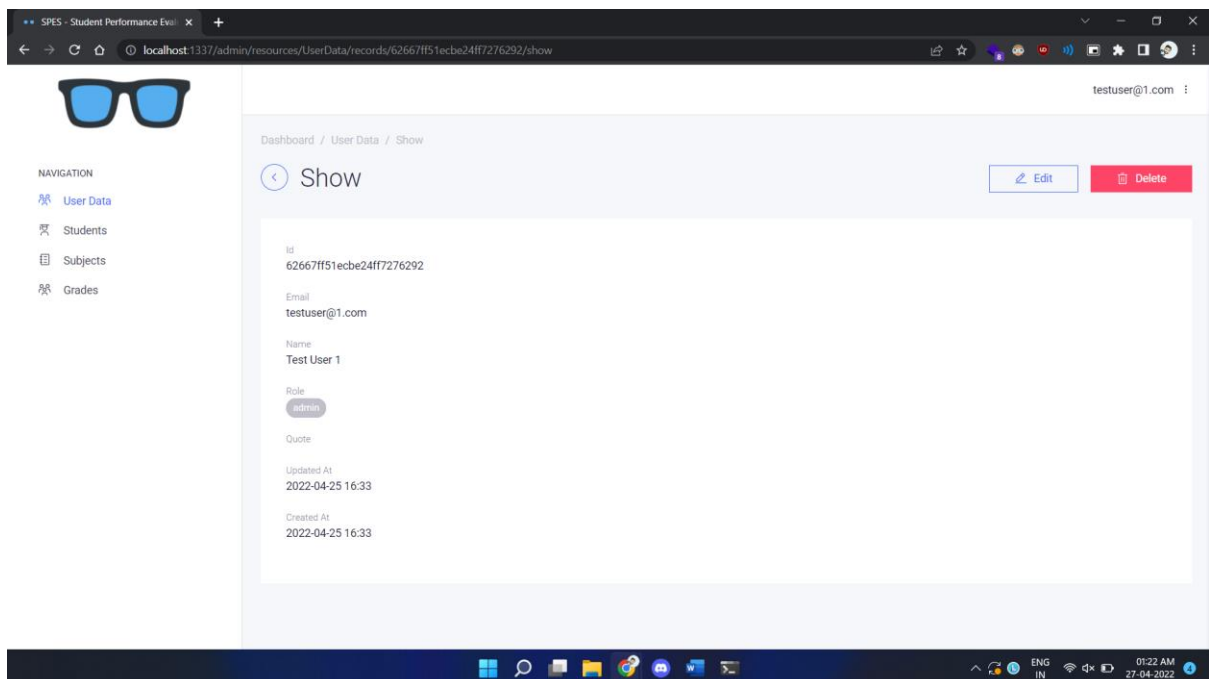
Admin Panel → Users



The screenshot shows the 'Admin Panel → Users' interface. The browser address bar displays 'localhost:1337/admin/resources/UserData'. The page features a navigation sidebar on the left with a logo of blue sunglasses and links for 'User Data', 'Students', 'Subjects', and 'Grades'. The main content area is titled 'Dashboard / User Data' and contains a 'List' section with a '+ Create new' button and a 'Filter' button. A table lists three users with columns for Id, Email, Name, Role, Quote, Updated At, and Created At. The first user is 'Test User 1' with role 'admin', and the other two are 'Test User 2' and 'Test User 3' with role 'restricted'. The Windows taskbar at the bottom shows the time as 01:21 AM on 27-04-2022.

Id	Email	Name	Role	Quote	Updated At	Created At
62667ff51ecbe24ff7276292	testuser@1.com	Test User 1	admin		2022-04-25 16:33	2022-04-25 16:33
6266892539bfd64a8d894182	testuser@2.com	Test User 2	restricted		2022-04-25 17:28	2022-04-25 17:12
62668d26625405a1978946e6	testuser@3.com	Test User 3	restricted		2022-04-25 17:29	2022-04-25 17:29

Show User Details



The screenshot shows the 'Show User Details' page for the user with ID '62667ff51ecbe24ff7276292'. The browser address bar displays 'localhost:1337/admin/resources/UserData/records/62667ff51ecbe24ff7276292/show'. The page features a navigation sidebar on the left with a logo of blue sunglasses and links for 'User Data', 'Students', 'Subjects', and 'Grades'. The main content area is titled 'Dashboard / User Data / Show' and contains a 'Show' section with a '<' button, an 'Edit' button, and a 'Delete' button. The user details are displayed in a form with fields for Id, Email, Name, Role, Quote, Updated At, and Created At. The role is 'admin'.

Id	62667ff51ecbe24ff7276292
Email	testuser@1.com
Name	Test User 1
Role	admin
Quote	
Updated At	2022-04-25 16:33
Created At	2022-04-25 16:33

Add New User

The screenshot shows a web browser window with the URL `localhost:1337/admin/resources/UserData/actions/new`. The page has a sidebar with a navigation menu containing 'User Data', 'Students', 'Subjects', and 'Grades'. The main content area is titled 'Create new' and contains a form with the following fields:

- * Email:
- * Name:
- * Role:
- * Password:

A blue 'Save' button is located at the bottom right of the form.

Add New User → Validations

The screenshot shows the same 'Add New User' form, but with validation errors. A pink error message at the top states: 'There are validation errors - check them out below'. The form fields are populated with the following values:

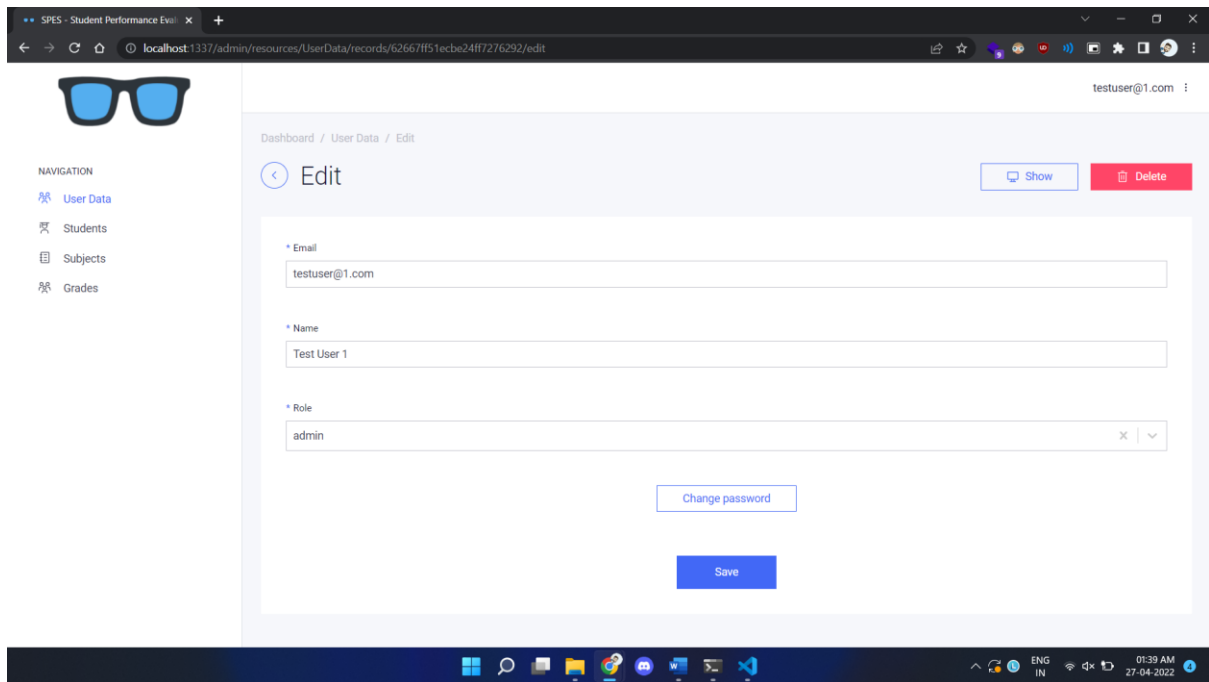
- * Email:
- * Name:
- * Role:
- * Password:

Red error messages are displayed below the 'Role' and 'Password' fields:

- Path 'role' is required.
- Path 'password' is required.

The 'Save' button is still present at the bottom right.

Edit a user

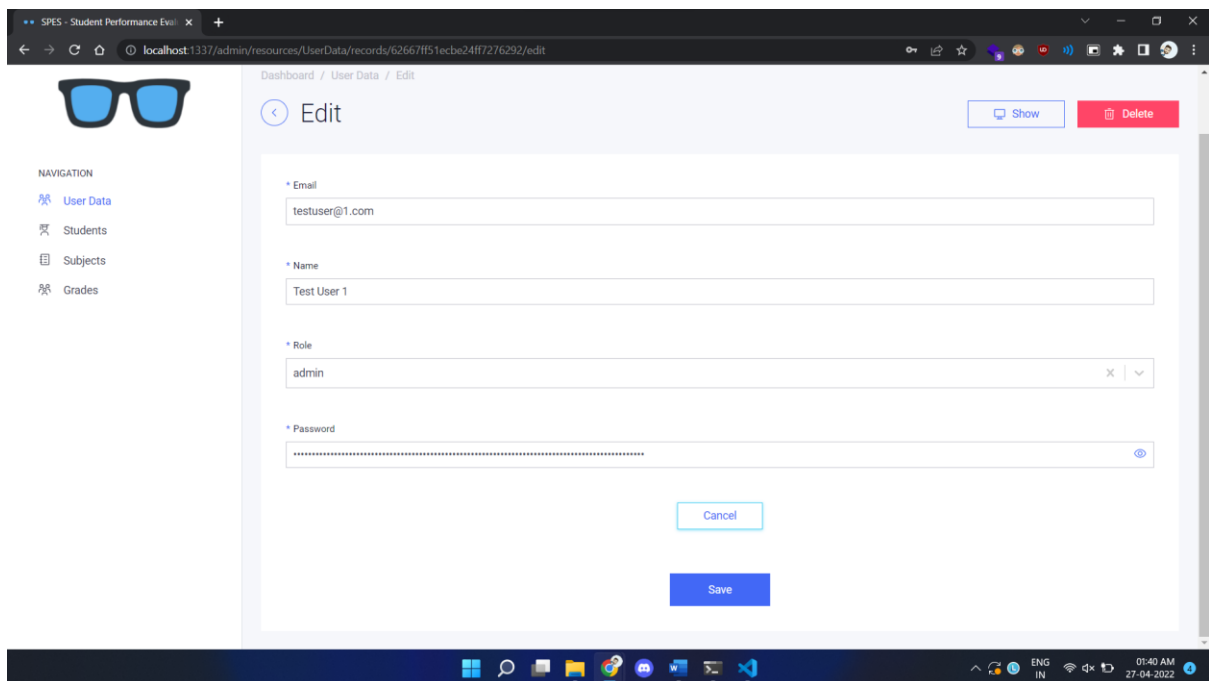


The screenshot shows a web browser window with the URL `localhost:1337/admin/resources/UserData/records/62667ff51ecbe24ff7276292/edit`. The page title is "SPES - Student Performance Eval". The user is logged in as `testuser@1.com`. The page layout includes a navigation sidebar on the left with links for "User Data", "Students", "Subjects", and "Grades". The main content area is titled "Edit" and contains a form with the following fields:

- Email:** `testuser@1.com`
- Name:** `Test User 1`
- Role:** `admin` (dropdown menu)

Below the form, there are two buttons: "Change password" and "Save". The "Save" button is highlighted in blue.

Change password



The screenshot shows the same web browser window as the previous one, but the form is now titled "Change password". The form contains the following fields:

- Email:** `testuser@1.com`
- Name:** `Test User 1`
- Role:** `admin` (dropdown menu)
- Password:** A text input field with a masked password (represented by dots) and a toggle icon to show/hide the password.

Below the form, there are two buttons: "Cancel" and "Save". The "Save" button is highlighted in blue.

Admin Panel → Student

The screenshot shows the 'Admin Panel → Student' view in the SPES system. The browser address bar displays 'localhost:1337/admin/resources/Students'. The page features a navigation sidebar on the left with a 'SUNGLASSES' logo and links for 'User Data', 'Students', 'Subjects', and 'Grades'. The main content area is titled 'Dashboard / Students' and 'List 1'. It includes a '+ Create new' button and a 'Filter' button. A table lists student records with columns: Email, Id, First Name, Last Name, Mobile, Semester, Term, and Updated At. One record is visible for 'test@test.com' with Id '623e0ac8083018914e02c5cc', First Name 'Test', Last Name 'Test', Semester 'Sem-1', Term '2019', and Updated At '2022-03-26 00:02'. The Windows taskbar at the bottom shows the time as 01:41 AM on 27-04-2022.

Email	Id	First Name	Last Name	Mobile	Semester	Term	Updated At
test@test.com	623e0ac8083018914e02c5cc	Test	Test		Sem-1	2019	2022-03-26 00:02

Admin Panel → Subject

The screenshot shows the 'Admin Panel → Subject' view in the SPES system. The browser address bar displays 'localhost:1337/admin/resources/Subjects'. The page features a navigation sidebar on the left with a 'SUNGLASSES' logo and links for 'User Data', 'Students', 'Subjects', and 'Grades'. The main content area is titled 'Dashboard / Subjects' and 'List 3'. It includes a '+ Create new' button and a 'Filter' button. A table lists subject records with columns: Id, Sub Name, Semester, Term, Updated At, and Created At. Three records are visible: 'Test Subject', 'Test Subject 2', and 'Test Subject 3', all with Semester 'Sem-1' and Term '2019'. The Windows taskbar at the bottom shows the time as 01:42 AM on 27-04-2022.

Id	Sub Name	Semester	Term	Updated At	Created At
623e0b525e5064b96ee4bd7c	Test Subject	Sem-1	2019	2022-03-26 00:04	2022-03-26 00:04
623e89ce02dfd07b87a53329	Test Subject 2	Sem-1	2019	2022-03-26 09:04	2022-03-26 09:04
623e89dc02dfd07b87a5332d	Test Subject 3	Sem-1	2019	2022-03-26 09:04	2022-03-26 09:04

Admin Panel → Grades

Dashboard / Grades

List 3 + Create new Filter

<input type="checkbox"/>	Subject	Id	Student	Semester	Marks	Updated At	Created At	
<input type="checkbox"/>	Test Subject	623e0c6d509a4ef8bdd3ea4a	test@test.com	Sem-1	75	2022-03-26 00:09	2022-03-26 00:09	...
<input type="checkbox"/>	Test Subject	623e89f802dfd07b87a53345	test@test.com	Sem-1	65	2022-03-26 09:05	2022-03-26 09:05	...
<input type="checkbox"/>	Test Subject 2	623e89ee02dfd07b87a53339	test@test.com	Sem-1	72	2022-03-26 09:05	2022-03-26 09:05	...

Admin Panel → Report

Student Performance Dashboard

Student_ID: All, Semester_Name: All, Paper_Name: All, Paper_ID: All

2,09,611 | 2019&2020

Count of Student_ID by Semester_Name

Semster_Name	Count	Percentage
Sem_1	26.19K	12.5%
Sem_2	26.24K	12.52%
Sem_3	26.2K	12.5%
Sem_4	26.2K	12.5%
Sem_5	26.2K	12.5%
Sem_6	26.2K	12.5%
Sem_7	26.18K	12.49%
Sem_8	26.22K	12.51%

Marks by Student_ID, Paper_Name, Semester_Name and Paper_ID

Student_ID	Semster_Name	Paper_Name	Marks
SID20131143	Sem_1	Paper 1	44
SID20131143	Sem_1	Paper 2	74
SID20131143	Sem_1	Paper 3	80
SID20131143	Sem_1	Paper 4	44
SID20131143	Sem_1	Paper 5	95
SID20131143	Sem_1	Paper 6	61
SID20131143	Sem_1	Paper 7	90
SID20131151	Sem_1	Paper 1	78
Total			14586740

Logout

SPES - Student Performance Eval... x +

localhost:1337/admin/resources/UserData

testuser@1.com

Dashboard / User Data

Log out

+ Create new Filter

List 4

<input type="checkbox"/>	Id	Email	Name	Role	Quote	Updated At	Created At	
<input type="checkbox"/>	62667ff51ecbe24ff7276292	testuser@1.com	Test User 1	admin		2022-04-25 16:33	2022-04-25 16:33	...
<input type="checkbox"/>	6266892539bfd64a8d894182	testuser@2.com	Test User 2	restricted		2022-04-25 17:28	2022-04-25 17:12	...
<input type="checkbox"/>	62668d26625405a1978946e6	testuser@3.com	Test User 3	restricted		2022-04-27 01:40	2022-04-25 17:29	...
<input type="checkbox"/>	6266b9480bea88d337f3ae7b	testuser@4.com	Test User 4	restricted		2022-04-27 09:02	2022-04-27 09:02	...

10:09 PM 05/06/22

5. Agile Documentation

5.1. Agile Project Charter

General Project Information	
Project Name	Academic Performance Evaluation System
Project Champion	Sufyan Mansuri, Roshan Chachre
Project Sponsor	Prof. Anjum Mansuri
Project Manager	
Stakeholders	Prof. Jinal
Expected Start Date	27 th Nov 2022
Expected Completion Date	10 th May 2022
Project Details	
Mission	In the proposed system all this problem will be solved as there will be no paper involved in the new system and the data cannot be lost as it is stored in a secure remote database.
Vision	The goal of the project is to analyze and visualize student details, attendance, faculty details and student performance in a useful and meaningful way.
Scope	The proposed system provides the faculty an easy and accurate data about attendance reports and Academic percentages reports and Students details reports.
Success metrics	We found that the application should be very easy to use enabling even for everyone to use it. We built this web-application in MERN STACK as well as POWER BI and we will try to make it easy.

5.2. Agile Project Plan

Project Name	Academic Performance Evaluation System	Browser:	Chrome
Test Case ID	FIRST_108	Version:	100.0.4896.127
Written By:	Roshan Chachre	Description:	Test case written by Sufyan & Roshan
Tested By:	Sufyan Mansuri	Tested On:	17/04/2022

Start Date		17-Nov			
End Date		10-May			
Overall Progress		90%			
Task Name	Responsible	Start	End	Days	Status
Sprint 1	Roshan, Sufyan	01/24	04/08	34	Complete
Introduction	Roshan	01/24	01/26	2	Complete
Project Profile	Sufyan	02/01	02/10	10	Complete
Development	Roshan	02/11	02/12	2	Complete
System Diagram	Sufyan	02/14	02/20	6	Complete
Coding Standards	Roshan	02/21	02/22	2	Complete
Agile	Roshan	03/02	03/14	12	Complete
Sprint 2	Roshan	02/22	03/10	18	Complete
PowerBI Details	Roshan	02/23	03/05	12	Complete
Students Data	Roshan	03/02	03/04	2	Complete
Reports	Roshan	03/06	03/10	4	Complete
Sprint 3	Sufyan	02/02	04/22	28	Complete
Front End	Roshan	02/03	02/15	12	Complete

Login	Sufyan	02/22	02/28	6	Complete
Reports (Embedded)	Sufyan	03/02	03/07	5	Complete
Edit Details	Sufyan	03/15	03/16	1	Complete
Validation	Sufyan	03/18	03/22	4	Complete

5.3. Agile User Story

User Story ID	As a <type of user>	I want to <perform some task>	so that I can <achieve some goal>	Pass?
1	Admin	Sign In	Access Admin Dashboard	True
2	Admin	Manage Users	Manage User Details	True
3	Faculty	Sign in	Access Faculty Dashboard	True
4	Admin	Manage Students	Manage Student Details	True
5	Admin	Manage Subjects	Manage Student Details	True
6	Faculty	Manage Grades	Manage Student Grades	True
7	Student	View Grades	View Grades	True

5.4. Agile Release Plan

Sprint	Task	Start	End	Duration	Status	Release Date	Goal
1	Task 1	27/01/2022	29/01/2022	2	Released	28/01/2022	Gather requirement refer previous interact system
1	Task 2	29/01/2022	04/02/2022	6	Released	03/02/2022	Understand Whole Project
1	Task 3	04/02/2022	09/02/2022	5	Released	08/02/2022	make one user can Create Reports
1	Task 4	09/02/2022	16/02/2022	2	Released	15/02/2022	Make common login page
2	Task 1	26/02/2022	01/03/2022	2	Released	28/02/2022	make dashboard in PowerBI (For Reports)
2	Task 2	01/03/2022	07/03/2022	1	Released	05/03/2022	Authentication and Learn About the Embedded Project
2	Task 3	07/03/2022	11/03/2022	8	Released	10/03/2022	decide operation which perform on this system
2	Task 4	12/03/2022	18/03/2022	2	Released	17/03/2022	list operation
2	Task 5	18/03/2022	25/03/2022	2	Released	24/03/2022	User can add details of Students

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3	Task 1	05/04/2022	05/04/2022	2	Released	07/04/2022	User can edit their Reports and Subjects details
3	Task 2	05/04/2022	08/04/2022	2	Released	12/04/2022	manage Reports and Students as well as Subject report
3	Task 3	09/04/2022	13/04/2022	1	Released	15/04/2022	manage User profile by Admin
3	Task 4	13/04/2022	16/04/2022	5	Released	21/04/2022	Admin can manage user
3	Task 5	17/04/2022	22/04/2022	2	Released	19/04/2022	Admin can manage Reports as well as Students
4	Task 1	23/04/2022	30/04/2022	2	Released	27/04/2022	admin can view entire reports

5.5. Agile Test Plan

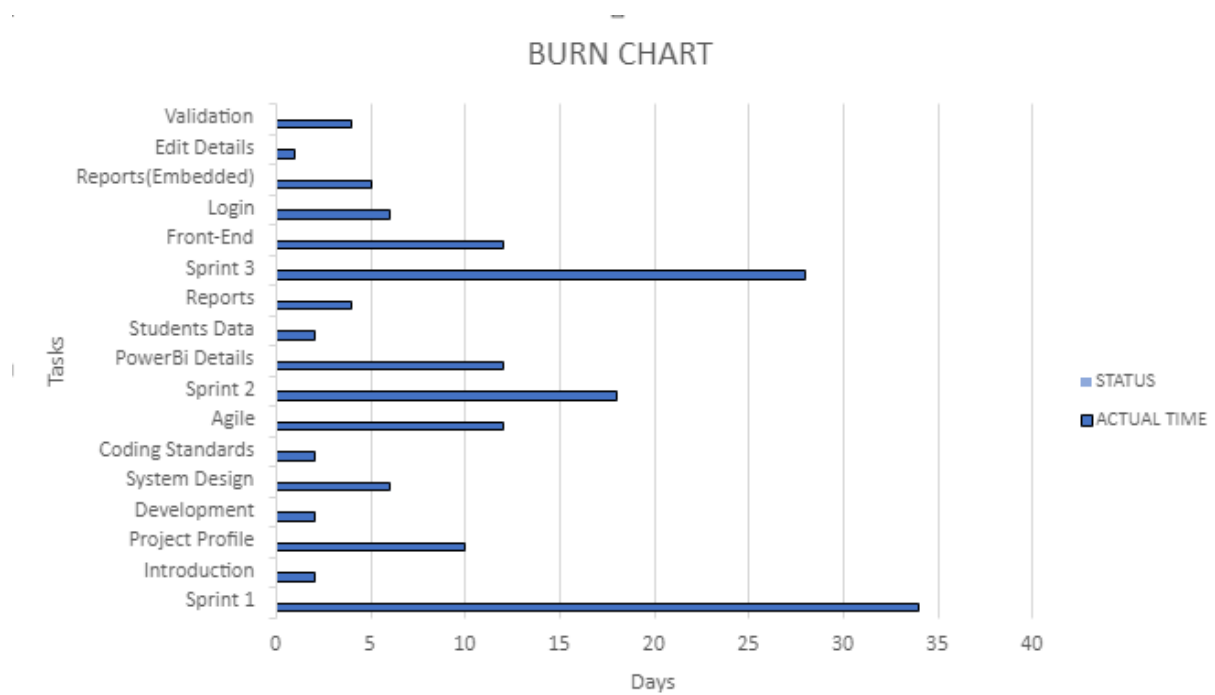
Project Name	Academic Performance Evaluation System	Browser:	Chrome
Test Case ID	Frist_108	Version	101.0.4951.41
Written By:	Roshan Chachre	Description:	test case written by Roshan
Tested By:	Sufyan Mansuri	Tested On:	17/04/2022

Test #	Date	Action	Expected Results	Actual Results	Pass?
1	29-Jan	Logging in	Should get to home screen	User directed to different page	<input checked="" type="checkbox"/>
2	03-Feb	Create Reports (PoweBI)	Visualization Data And create BICarts	Adding Report Canvas	<input checked="" type="checkbox"/>
3	07-Feb	functions in admin penal	create reports	created reports	<input checked="" type="checkbox"/>
4	10-Feb	Manage user	Manage user Details	Manage Successfully	<input checked="" type="checkbox"/>
5	20-Feb	manage Report(Ma rks)	manage Report by admin as well as User	Manage Marks Report Details Successfully	<input checked="" type="checkbox"/>
6	22-Feb	manage Students By admin	Manage Students Details	Manage Details	<input checked="" type="checkbox"/>

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		as well as Faculty			
7	10-Mar	user Login	Should get to home screen	User directed to different page	<input checked="" type="checkbox"/>
8	20-Mar	manage Students Details	Manage Students details by User	manage successfully	<input checked="" type="checkbox"/>
9	28-Mar	manager edit User details	manage User Details by admin	manage successfully	<input checked="" type="checkbox"/>
10	10-Apr	generate report of Marks	generate report of Marks	getting error	<input type="checkbox"/>
11	20-Apr	Dashboard Reports (PowerBI)	home page Dashboard Report Embedded from PowerBI	home page Embedded Report from PowerBI Dashboard Load Successfully	<input type="checkbox"/>

5.6. Burn Chart



6. Proposed Enhancements

- Functionality to chat with admins
- Daily Attendance
- Automatically calculate Attendance and Assignments Grades
- Grades Reassessment Request
- Generate Better Reports

7. Conclusion

- We developed a web application that replaces old evaluation system that uses papers to store data & generate results with a modern easy to use web application system that not only generate reports but also utilises the data by visualizing it in different charts to make decisions.

8. **Bibliography**

During the development of project, we have used following resources:

- Software Engineering - A Practitioner's Approach, 7th Edition
Roger S. Pressman
McGraw Hill Publications
- Beginning JavaScript
Jeremy McPeak, Paul Wilton
Wrox Publications
- <https://stackoverflow.com>
- <https://reactjs.org/docs/hello-world.html>
- <https://expressjs.com/en/starter/installing.html>
- <https://www.youtube.com/codedamn/>
- <https://online.visual-paradigm.com/>
- <https://creatly.com>
- <https://app.powerbi.com/home>