

ATTENDANCE AUTOMATION SYSTEM

DELIVERABLE 4

TEAM : CHARGERS

- ASHISH PULLURI
- HEMANTH UPPULURI
- SHIVA SHANKAR
- PREETHAM BONTHULA
- SASHWAT MADAN
- VARUN REDDY

Guided by, Prof. Henry Wong



DELIVERABLE: 4:

AGENDA

Project Overview

User Stories

Product Backlog

Test Cases

Sprints Review - Burndown Charts

MVP(Project Demo)

Retrospective

GitHub



PROJECT OVERVIEW

- The main purpose of this application is to replace the manual attendance method and human interference which consumes a lot of time and effort to maintain the student attendance.
- In our application we will be using face detection technique by machine learning algorithm to automate the whole process of managing the attendance in educational institutions.
- Our application uses the camera to capture the image and will compare with image in the student database and finally attendance will be recorded.
- Instructor will receive an email with a list of students who are absent.
- This will reduce manual errors and all the consolidated student attendance data will be available in the database which will make it easier for instructors to manage the student attendance.



ID	Features	As	We want	So that
1	Creating a Home Page	Users	A home page with Admin/ Faculty login	We can choose if our school admin or the faculty wants to login with necessary credentials
2	Creating a Login Page	Users	A secure login account with username and password for Admin and Faculty individually	Our personal credentials are safe and secure denying access to unauthorized persons
3	Creating a Database	Developers	Design a Database where we store all the user data (Admin, Faculty and Student private data)	Users can their confidential data with necessary restrictions
4	Creating an Admin Page	Users	To add and view student data along with checking reports	I can add or delete any student when required and will be able to check student report.
5	Creating a Faculty Page	Users	Login in page for existing faculty members if not a registration page. Once logged in, taking attendance and comparing reports	Faculty can login and check the report after each class and will be able to verify all the previous class data

User Stories

PRODUCT BACKLOG

Serial No	To Do List	Features	Date
1	Research Technologies	Finalizing all the technologies to be used in the project	9/6/2020-9/9/2020
2	Requirements gathering	Gathering all the requirements related to project	9/13/2020-9/18/2020
3	Decide on modules to be used in project	deciding on using modules like admin/faculty/	9/13/2020-9/18/2020
4	Design user interface of application	we have designed the user interface of application	9/22/2020-9/26/2020
5	Create home page of application	We have created home page of the application for admin and faculty	9/27/2020-10/03/2020
6	work on database	we have designed the database to store student and faculty details	10/04/2020-10/10/2020



PRODUCT BACKLOG

Serial No	To Do List	Features	Date
7	Create admin login and options page	we have created admin login page and options page for admin which should be displayed after login	10/04/2020-10/23/2020
8	Create student registration page	We have created student registration page	10/04/2020-10/25/2020
9	Draft the technical paper of project	We have drafted the technical paper which provides information on design and technologies used in project	10/10/2020-10/26/2020
10	Create faculty login and registration page	we have created faculty login and registration page	11/4/2020-11/16/2020
11	Add functionality to store details	We have added functionality to capture student image and students details into the database	10/29/2020-11/11/2020
12	view students page	We have added functionality to view the students registered in the database	11/12/2020-11/20/2020



TEST CASES

Scenario	Test Case	Expected Result
Main Dashboard	Able to see and hover Admin and Faculty page buttons	- User should be able to click on the Admin or Faculty based on the utility
	Should be able to redirect to the homepage of Faculty or Admin accordingly	- User should be able to login with their credentials
Admin/ Faculty Login page	Sign in using valid username and password	- User should be able to login using his username and password without any errors
	Should be able to see the dashboard page after login.	- Redirected to the dashboard page proving options to manage attendance or view reports.
Student registration page	Enter student name, student id, student email, capture image	Student should be added successfully
	If null details are entered into the form	Display error message to provide all the details
	If student image is not captured	Display error message to capture student image
	If all details are entered and image is captured	Display alert student is added successfully

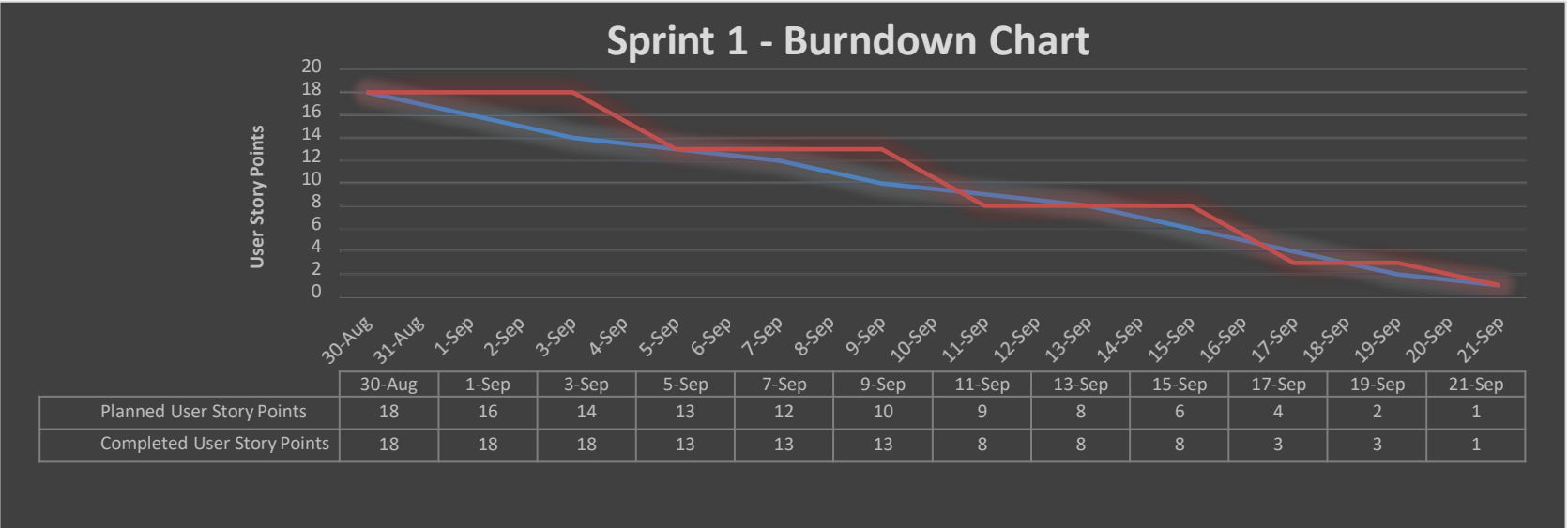


TEST CASES

Scenario	Test Case	Expected Result
Faculty Page - Registering a New Faculty Account and Viewing reports	-Sign up with the name, username, password, email address and mobile number	User should be able to signup/register successfully.
	-Displaying error message if any there are any invalid characters.	-Proper error message should be displayed if all the fields are not entered as expected.
	-Displaying error message if trying to register with an already registered/ invalid email address	-Error message should be displayed for invalid emails
	-User details verification at database	-User registration details should be stored in the MySQL database
Admin Page - Add and View student details and reports	-A separate page should pop up when user tries to add a student to the existing database with Name, ID and Picture	User should be able to add new student data when needed.
	-View existing registered student details with their ID's and count should be matching in the database	User should be check number of student registered for a class
	-Admin will be check entire report with Name, ID with a jpg file which should be the same in the database.	-User should be able to see report of entire class in a list



SPRINT 1 - BURNDOWN CHART

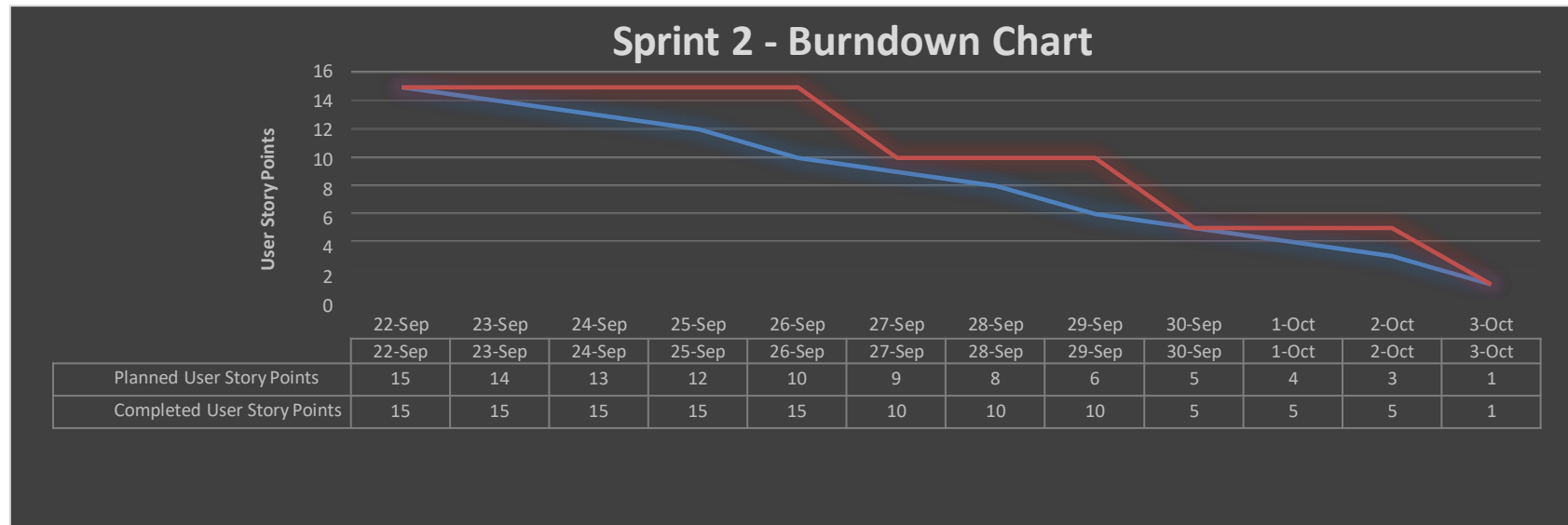


Calendar Days	Planned User Story Points	Completed User Story Points
30-Aug	18	18
1-Sep	16	18
3-Sep	14	18
5-Sep	13	13
7-Sep	12	13
9-Sep	10	13
11-Sep	9	8
13-Sep	8	8
15-Sep	6	8
17-Sep	4	3
19-Sep	2	3
21-Sep	1	1

User Stories	User Story Points
Brainstorming Project ideas	5
Finalizing Project idea and Technologies	5
Gathering requirements	5
Deciding on modules allocation	3



SPRINT 2 - BURNDOWN CHART

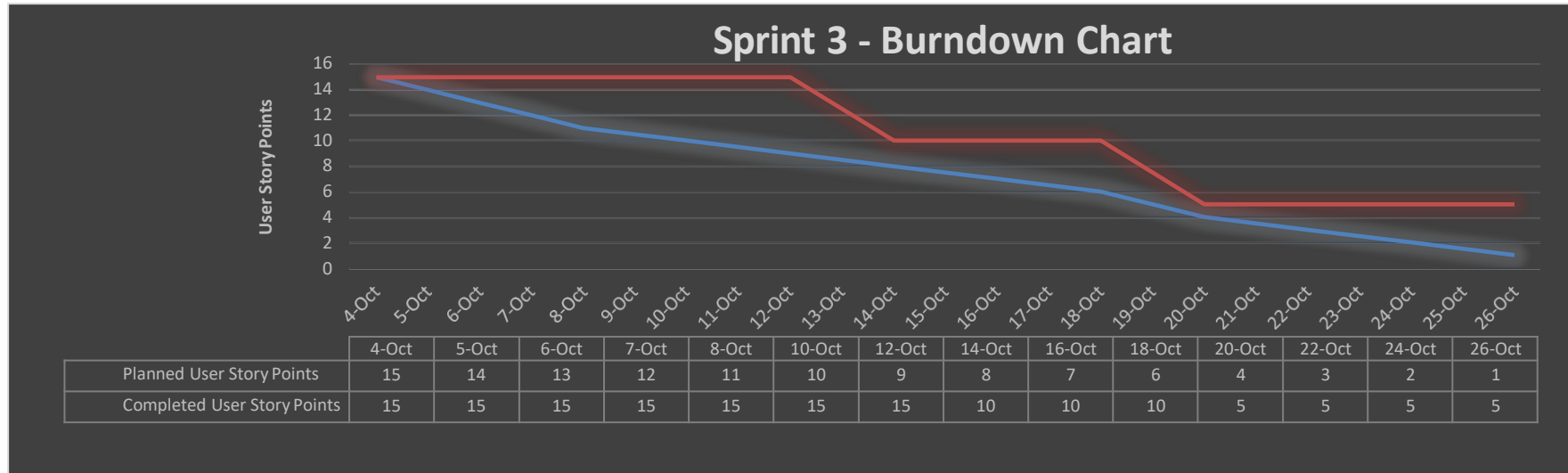


Calendar Days	Planned User Story Points	Completed User Story Points
22-Sep	15	15
23-Sep	14	15
24-Sep	13	15
25-Sep	12	15
26-Sep	10	15
27-Sep	9	10
28-Sep	8	10
29-Sep	6	10
30-Sep	5	5
1-Oct	4	5
2-Oct	3	5
3-Oct	1	1

User Stories	User Story Points
Designing User Interface	5
Creating Home Page for Admin and Faculty Page	5
Designing the database	5



SPRINT 3 - BURNDOWN CHART

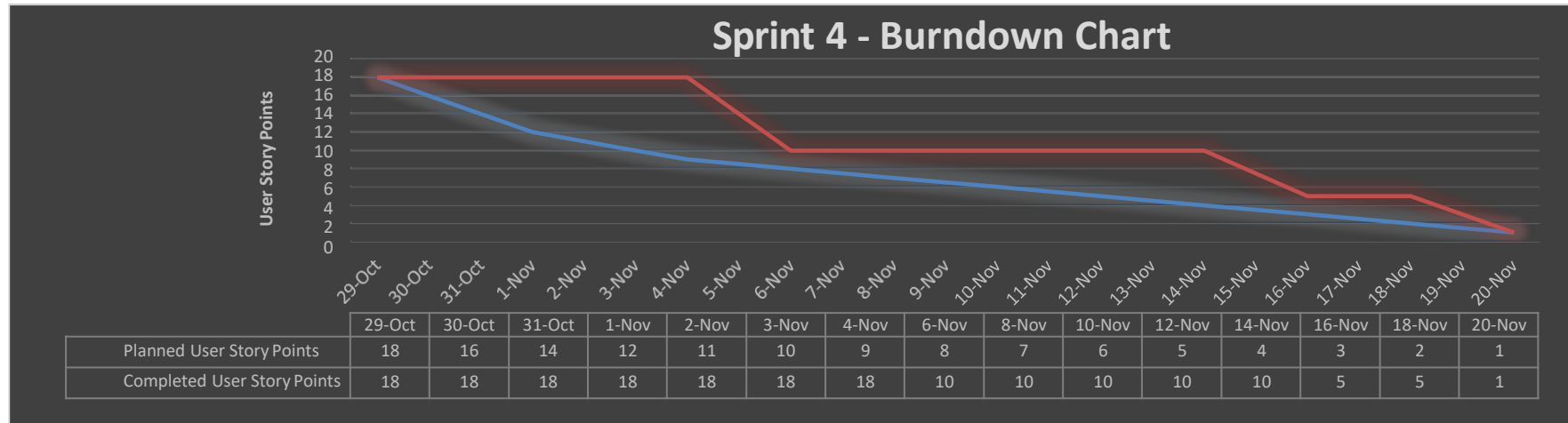


Calendar Days	Planned User Story Points	Completed User Story Points
4-Oct	15	15
5-Oct	14	15
6-Oct	13	15
7-Oct	12	15
8-Oct	11	15
10-Oct	10	15
12-Oct	9	15
14-Oct	8	10
16-Oct	7	10
18-Oct	6	10
20-Oct	4	5
22-Oct	3	5
24-Oct	2	5
26-Oct	1	5

User Stories	User Story Points
Creating admin Login and options page	5
Creating student registration page	5
Drafting Technical paper	5



SPRINT 4 - BURNDOWN CHART

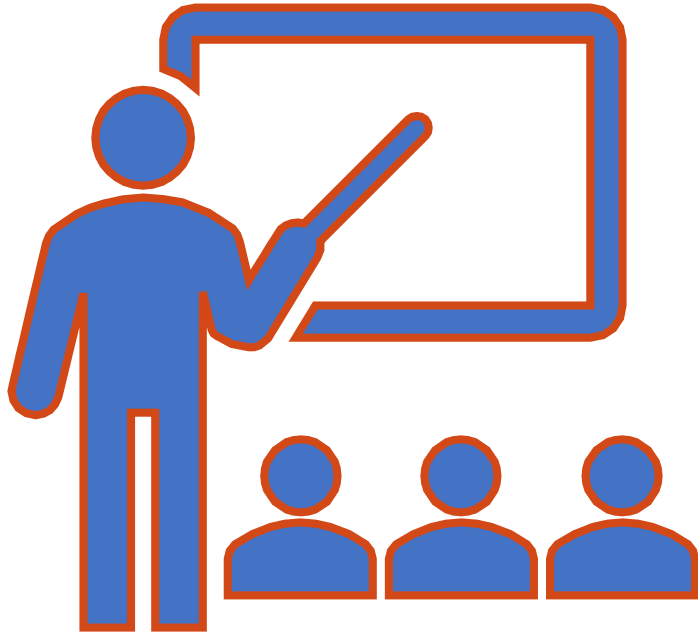


Calendar Days	Planned User Story Points	Completed User Story Points
29-Oct	18	18
30-Oct	16	18
31-Oct	14	18
1-Nov	12	18
2-Nov	11	18
3-Nov	10	18
4-Nov	9	18
6-Nov	8	10
8-Nov	7	10
10-Nov	6	10
12-Nov	5	10
14-Nov	4	10
16-Nov	3	5
18-Nov	2	5
20-Nov	1	1

User Stories	User Story Points
Creating faculty login and registration page	8
Creating functionality to capture student image and student details into the database	5
Adding functionality to view registered students	5



MVP (PROJECT DEMO)

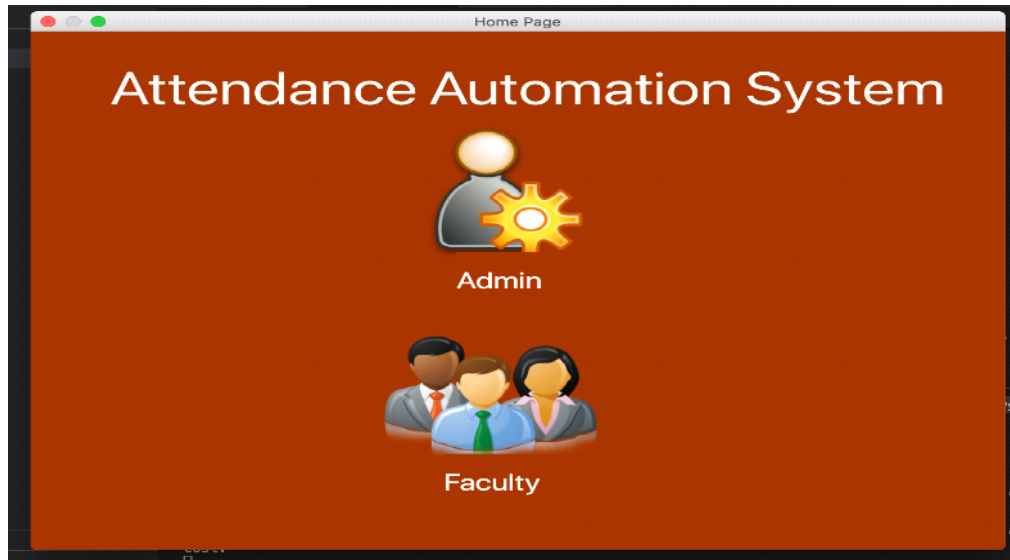


- Which problem does this application solve ?
- It will replace the manual attendance method with automated attendance by using face detection technique and it will make the life easier for educational institutions, Instructors and students and it will save a lot of time with the help of this tool.
- Minimum: A tool which provides a platform for the educational institutions and instructors to view student details.
- Viable: A platform for all the instructors and various institutions which enables them to create their profile, add the student details into the database and capture the students attendance by clicking a picture or by uploading an image and receive an email alert with the list of students absent during the class and get the consolidated attendance data.
- Minimum Viable : A Platform which makes the life easier for the instructors and institutions to manage attendance records of the students by saving a lot of time

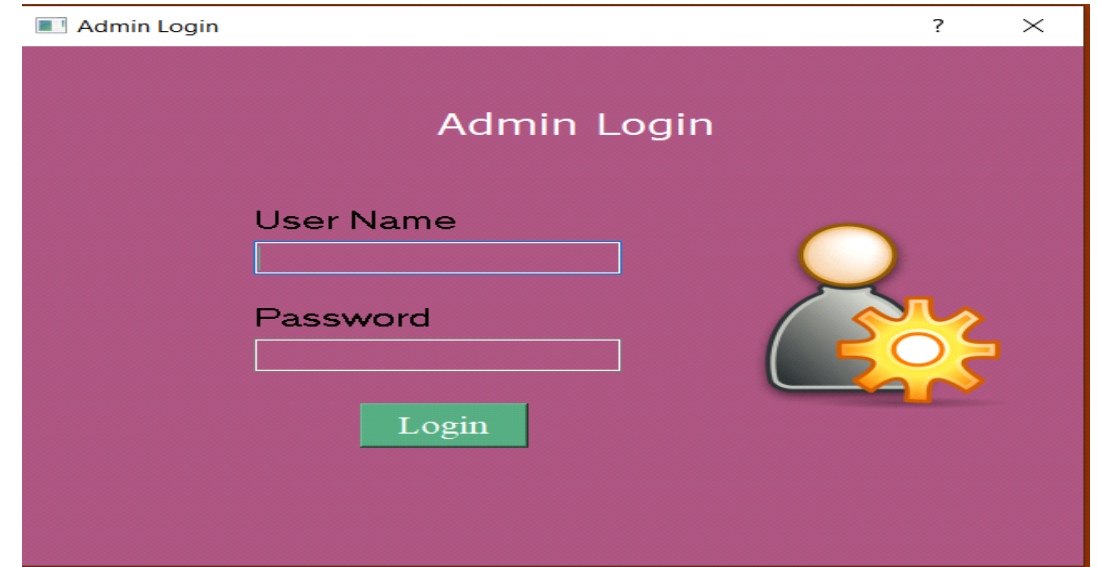


PREVIEW FROM ACTIVE APPLICATION

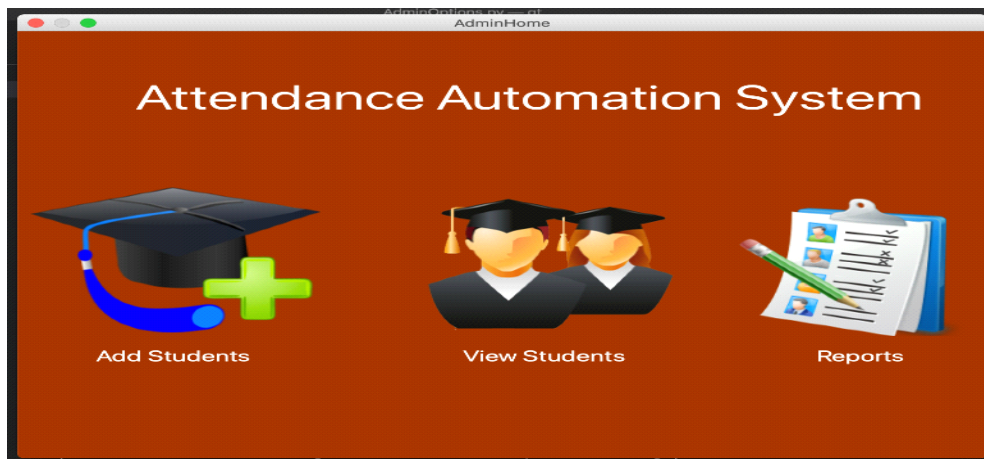
Home page



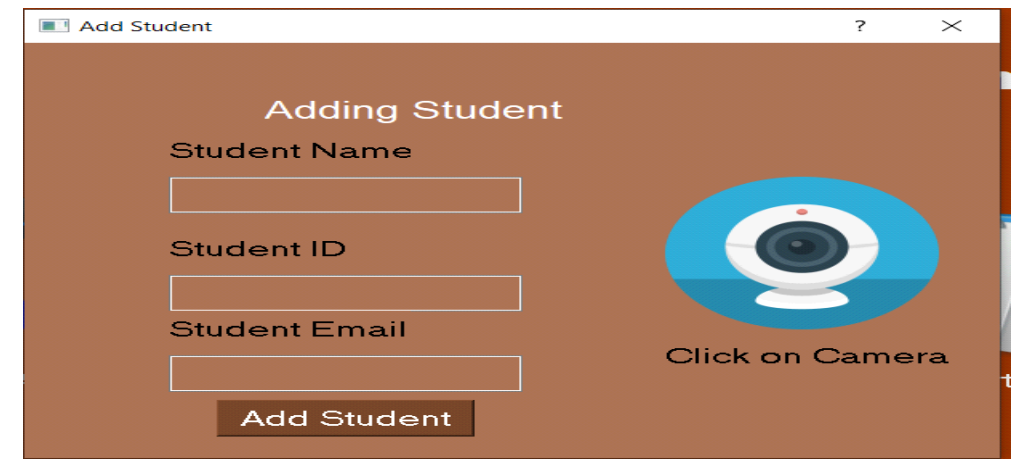
Admin Login Page



Admin Dashboard

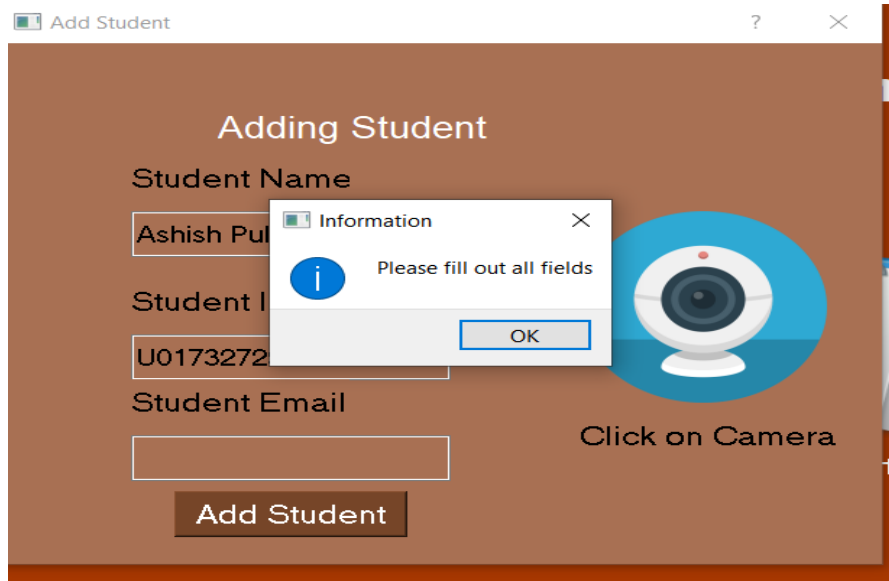


Adding Student details

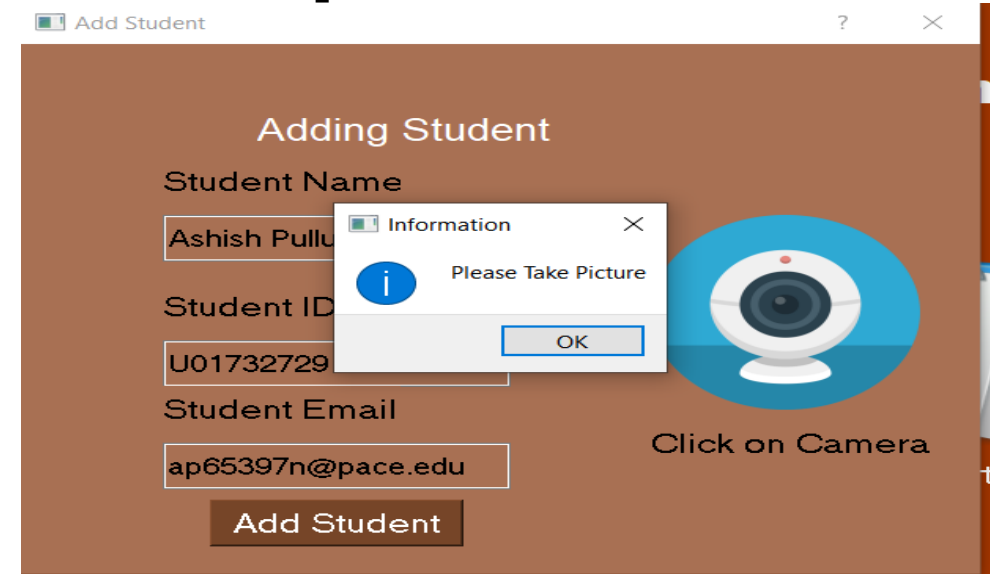


TEST CASES EXECUTION

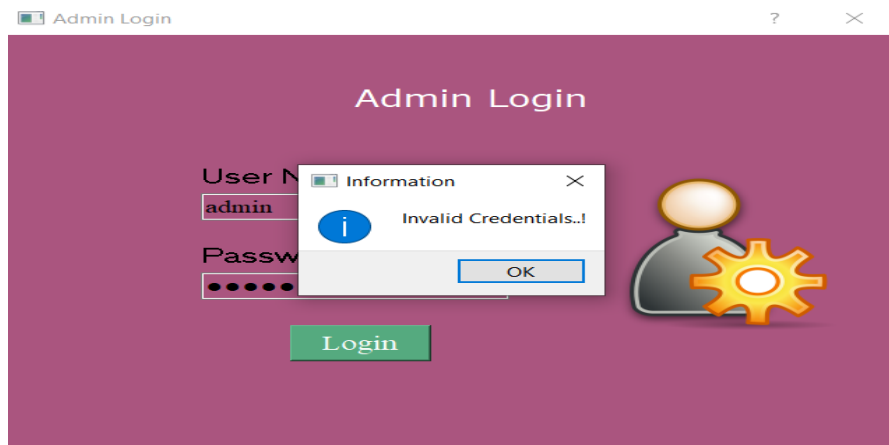
Blank fields scenario



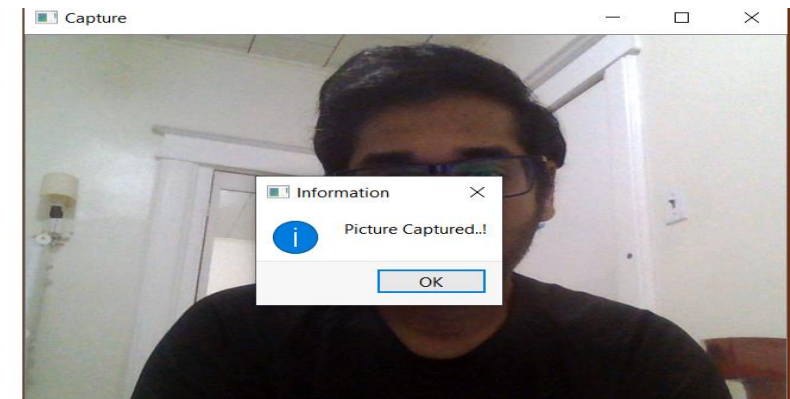
Picture not uploaded scenario



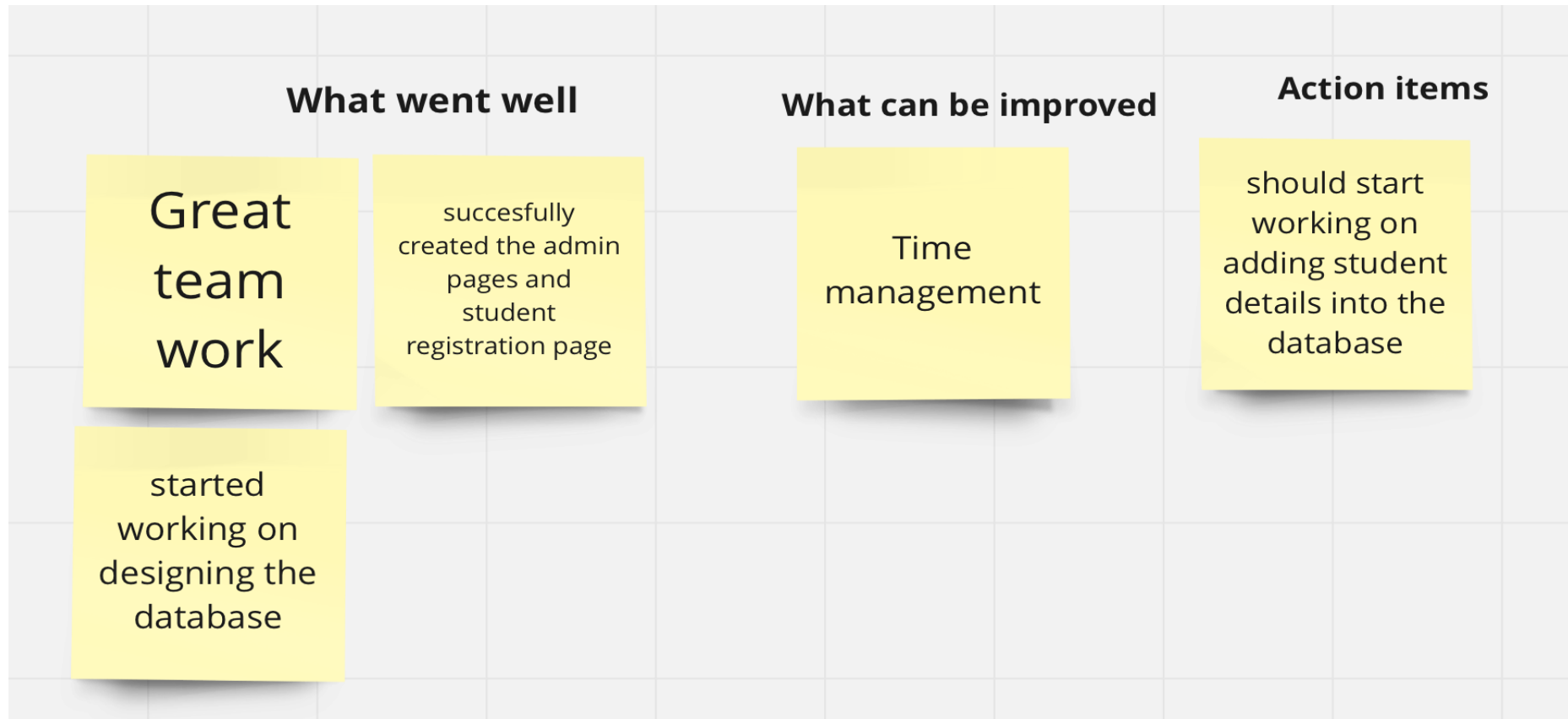
Invalid Credentials scenario



Picture is successfully uploaded scenario



SPRINT 3 - RETROSPECTIVE



SPRINT 4 - RETROSPECTIVE

What went well

All components planned are delivered on time

Team collaboration went well and team helped each other to resolve the issues

What can be improved

Need improvements in balancing the work and allocation of time to each component of work in an efficient manner.

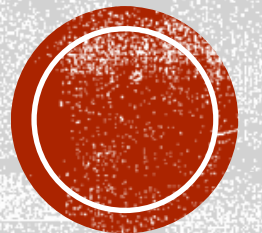
Action items

preparing the presentation and documents and updating repositories felt a bit rushed



GIT HUB LINK :

[HTTPS://GITHUB.COM/ASHISHPULLURI/ATTENDANCEAUTOMATIONSYSTEM/WIKI/ATTENDANCE-AUTOMATION-SYSTEM#TEAM-2](https://github.com/ASHISHPULLURI/ATTENDANCEAUTOMATIONSYSTEM/WIKI/ATTENDANCE-AUTOMATION-SYSTEM#TEAM-2)





THANK YOU