COLLEGE MANAGEMENT SYSTEM

SREESWETHA C

April 16, 2021

ACTIVITY DIAGRAM

2.7.1 ACTIVITY DIAGRAM 1

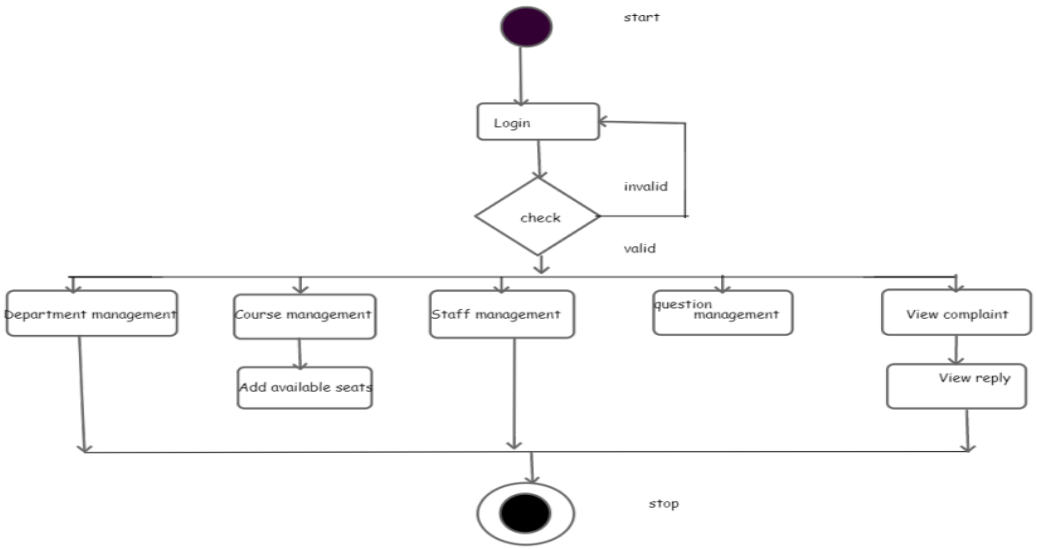

Figure 2.1: Admin activity diagram

2.7.2 ACTIVITY DIAGRAM 2

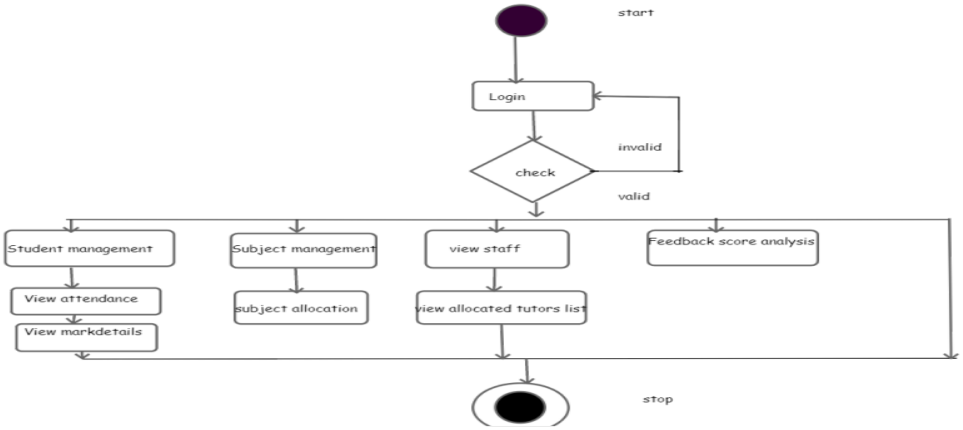

Figure 2.2: Hod activity diagram

2.7.3 ACTIVITY DIAGRAM 3

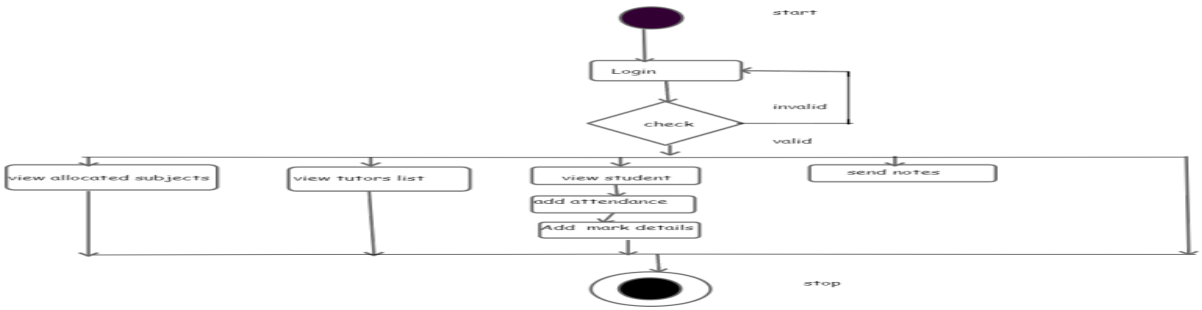

Figure 2.3: Staff activity diagram

2.7.4 ACTIVITY DIAGRAM 4

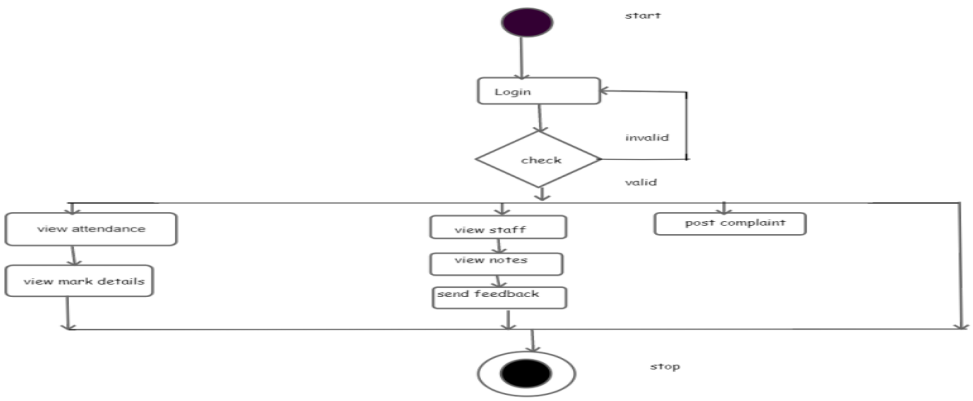

Figure 2.4: student activity diagram

2.7.5 ACTIVITY DIAGRAM 5

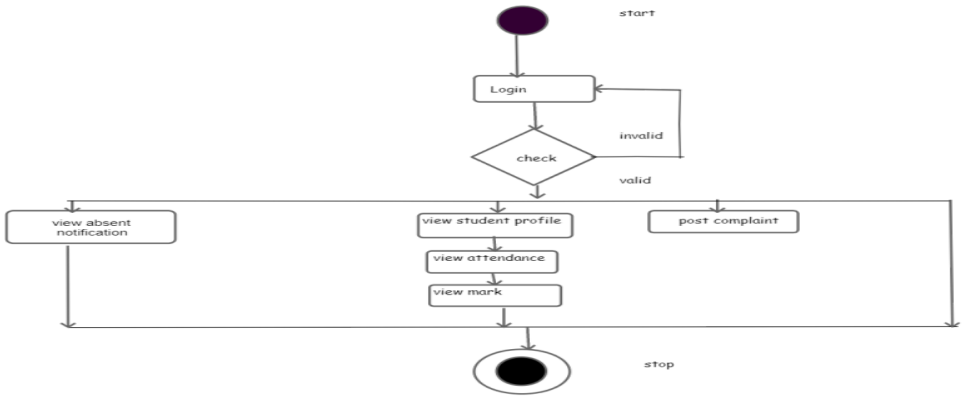

Figure 2.5: parent activity diagram

Figure: ACTIVITY DIAGRAM

1.6 Sprint Backlog Planned

1.6.1 Sprint 1

Backlog items	Completion date	Original Estimated hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
			29/03/2021	30/03/2021	31/03/2021	01/04/2021	02/04/2021	03/04/2021	04/04/2021	05/04/2021	06/04/2021	07/04/2021	08/04/2021	09/04/2021	10/04/2021	11/04/2021
			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
User Story 1																
Form Design	29/03/2021	8	8													
Table Creation	29/03/2021															
Coding	29/03/2021															
Testing	29/03/2021	1	1													
User Story 2																
Form Design	30/03/2021	7		7												
Table Creation	30/03/2021	2		2												
Coding	31/03/2021	6			6											
Testing	31/03/2021	2			2											
User Story 3																
Form Design	01/04/2021	6				6										
Table Creation	01/04/2021	1				1										
Coding	02/04/2021	5					5									
Testing	02/04/2021	2					2									
User Story 4																
Form Design	03/04/2021	5						5								
Table Creation	03/04/2021															
Coding	04/04/2021	6							6							
Testing	04/04/2021	2							2							
User Level 5																
Form Design	05/04/2021	5								5						
Table Creation	05/04/2021															
Coding	05/04/2021	4								4						
Testing	05/04/2021	1								1						
User Level 6																
Form Design	06/04/2021	6									6					
Table Creation	06/04/2021	1									1					
Coding	07/04/2021	8										8				
Testing	07/04/2021	2										2				

Figure: sprint planned

2.12 SPRINT BACKLOG

Backlog items	Completion date	Original Estimated hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
			29/03/2021	30/03/2021	31/03/2021	01/04/2021	02/04/2021	03/04/2021	04/04/2021	05/04/2021	06/04/2021	07/04/2021	08/04/2021	09/04/2021	10/04/2021	11/04/2021
User Story 7			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
Form Design	08/04/2021	6											6			
Table Creation	08/04/2021	1											1			
Coding	09/04/2021	7												7		
Testing	09/04/2021	2												2		
User Story 8																
Form Design	10/04/2021	5													5	
Table Creation	10/04/2021	1													1	
Coding	11/04/2021	6														6
Testing	11/04/2021	2														2

Figure 1.8: Sprint 1 (Planned)

Figure: sprint planned

2.8 USER STORY

USER STORY	AS A TYPE OF USER	I WANT TO PERFORM SOME TASK	SO I CAN ACHIEVE SOME GOALS
1	Admin/Hod/Staff/Student/Parent	Homepage	Go to other activities
2	Admin	Homepage	Go to other activities
3	Hod	Homepage	Go to other activities
4	Admin	Staff Registration	Register staff to system
5	Admin	department management	Add and view departments
6	admin	course management	Add and view courses
7	Admin	Question management	Add and edit questions
8	Admin/Hod/Staff/Student/Parent	Login	Access to the system
9	Admin/Hod/Staff/Student/Parent	change password	change password
10	Admin	add available seats	Add vacant seats
11	Hod	Manage students	add and view students
12	Hod	Manage subjects 24	add and manage subjects
13	Hod	subject allocation	allocate subjects to staff

Figure: user story

USER STORY	AS A TYPE OF USER	I WANT TO PERFORM SOME TASK	SO I CAN ACHIEVE SOME GOALS
14	Hod	feedback score analysis	View the feedback and grade
15	Hod	view staff	view details of staff and allot tutor
16	Hod	view tutors list	view tutor allocation list
17	Hod	view attendance	view attendance of students
18	Hod	view mark details	can get mark details
19	Staff	Homepage	Go to other activities
20	Student	Homepage	Go to other activities
21	Parent	Registration	Access to system
22	Parent	Homepage	Go to other activities
23	Staff	view students	View student details
24	Staff	view allocated subjects	view details of allocated subjects
25	Staff	Add attendance	Add attendance

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Figure: user story

USER STORY	AS A TYPE OF USER	I WANT TO PERFORM SOME TASK	SO I CAN ACHIEVE SOME GOALS
26	Staff	Add mark details	add marks of students
27	Staff	view tutor list	view list of tutors
28	Staff	send notes	send notes to students
29	Student/parent	View attendance	can view attendance
30	Student/parent	View mark details	can view mark details
31	Student/parent	post complaints	can post complaints
32	Student/parent	View reply of complaints	can view reply of complaints
33	Student	View staff	can view staff
34	Student	View notes	can view notes
35	Parent	View student profile	can view student profile
36	Parent	View absent notification	can view absent notification

Table 3.3: User Story 1

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Figure: user story

2.7.6 USE CASE DIAGRAM

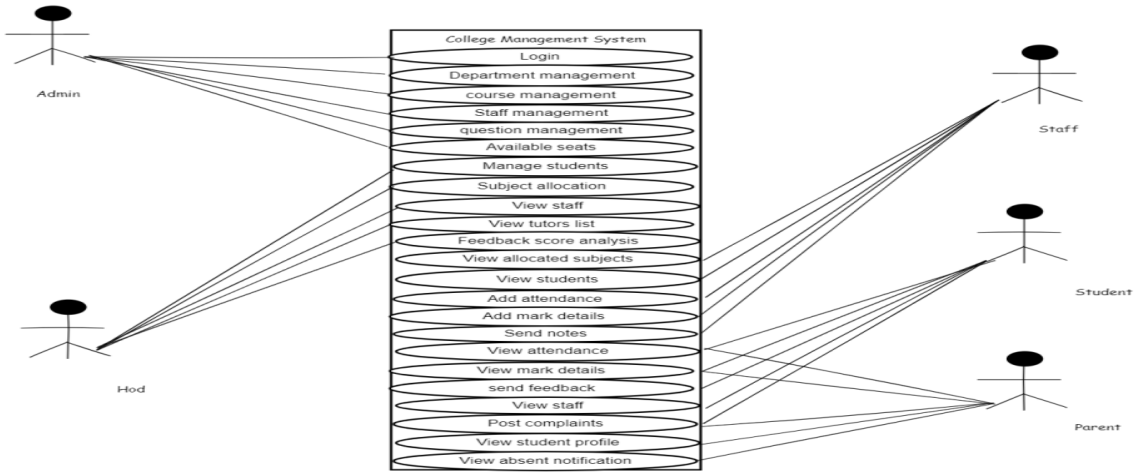

Figure 2.6: Usecase Diagram

Figure: usecase diagram

2.9 PRODUCT BACKLOG

User story id	Priority <High/ Medium/ Low>	Size(Hour)	Sprint	Status <planned/ progress/ completed >	Release Date	Release Goal
1	High	8	Sprint1	Planned	29-03-21	Homepage
2	High	7	Sprint1	Planned	31-03-21	Homepage
3	High	7	Sprint1	Planned	02-04-21	Homepage
4	High	7	Sprint1	Planned	04-04-21	Staff registration
5	High	5	Sprint1	Planned	05-04-21	Department management
6	High	6	Sprint1	Planned	06-04-21	course management
7	High	4	Sprint1	Planned	07-04-21	Question management
8	Medium	4	Sprint1	Planned	09-04-21	login
9	High	4	Sprint1	Planned	10-04-21	Change password
10	High	4	Sprint2	Planned	11-04-21	Add vacant seats
11	Medium	4	Sprint2	Planned	13-04-21	Manage students
12	High	9	Sprint2	Planned	15-04-21	manage subjects
13	High	4‘	Sprint2	Planned	17-04-21	subject allocation
14	High	6	Sprint2	Planned	19-04-21	feedback score analysis

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Figure: product backlog

User story id	Priority <High/ Medium/ Low>	Size(Hour)	Sprint	Status <planned/ progress/ completed >	Release Date	Release Goal
15	High	5	Sprint2	Planned	21-04-21	View details of staff
16	High	4	Sprint2	Planned	22-04-21	View tutor allocation list
17	Medium	4	Sprint2	Planned	23-04-21	View attendance
18	Medium	4	Sprint2	Planned	25-04-21	View mark details by hod
19	High	6	Sprint3	Planned	26-04-21	Staff homepage
20	High	6	Sprint3	Planned	27-04-21	Student homepage
21	High	7	Sprint3	Planned	28-04-21	Parent registration
22	High	4	Sprint3	Planned	30-04-21	Parent homepage
23	Medium	4	Sprint3	Planned	02-05-21	view student details
24	Medium	5	Sprint3	Planned	04-05-21	view allocated subjects

User story id	Priority <High/ Medium/ Low>	Size(Hour)	Sprint	Status <planned/ progress/ completed >	Release Date	Release Goal
25	High	5	Sprint3	Planned	06-05-21	Add attendance
26	High	4	Sprint3	Planned	08-05-21	Add mark details
27	Medium	4	Sprint3	Planned	09-05-21	View tutorlist
28	Medium	4	Sprint4	Planned	11-05-21	send notes
29	High	6	Sprint4	Planned	13-05-21	View attendance
30	High	6	Sprint4	Planned	14-05-21	View mark details
31	High	7	Sprint4	Planned	16-05-21	Post complaints
32	High	4	Sprint4	Planned	17-05-21	view reply
33	Medium	4	Sprint4	Planned	19-05-21	view staff
34	Medium	5	Sprint4	Planned	20-05-21	view notes
35	Medium	4	Sprint4	Planned	22-05-21	view student profile
36	Medium	5	Sprint4	Planned	23-05-21	view absent notification

Figure: product backlog

2.10 PROJECT PLAN

User story id	Task Name	Start Date	End Date	Days	Status (To be filled by scrum master)
1	Sprint1	29-03-2021	29-03-2021	1	
2	Sprint1	30-03-2021	31-03-2021	2	
3	Sprint1	01-04-2021	02-04-2021	2	
4	Sprint1	03-04-2021	04-04-2021	2	
5	Sprint1	05-04-2021	05-04-2021	1	
6	Sprint1	06-04-2021	07-04-2021	2	
7	Sprint1	08-04-2021	08-04-2021	1	
8	Sprint1	09-04-2021	10-04-2021	2	
9	Sprint2	11-04-2021	11-04-2021	1	
10	Sprint2	12-04-2021	13-04-2021	2	
11	Sprint2	14-04-2021	14-04-2021	1	

Figure: project plan

User story id	Task Name	Start Date	End Date	Days	Status (To be filled by scrum master)
12	Sprint2	15-04-2021	15-04-2021	1	
13	Sprint2	16-04-2021	17-04-2021	2	
14	Sprint2	18-04-2021	18-04-2021	1	
15	Sprint2	19-04-2021	20-04-2021	2	
16	Sprint2	21-04-2021	21-04-2021	1	
17	Sprint2	22-04-2021	22-04-2021	1	
18	Sprint2	23-04-2021	23-04-2021	1	
19	Sprint3	24-04-2021	25-04-2021	2	
20	Sprint3	26-04-2021	26-04-2021	1	
21	Sprint3	27-04-2021	27-04-2021	1	
22	Sprint3	28-04-2021	29-04-2021	2	
23	Sprint3	30-04-2021	30-04-2021	1	
24	Sprint3	01-05-2021	01-05-2021	3	

Figure: project plan

User story id	Task Name	Start Date	End Date	Days	Status (To be filled by scrum master)
25	Sprint3	02-05-2021	02-05-2021	1	
26	Sprint3	03-05-2021	05-05-2021	3	
27	Sprint3	05-05-2021	06-05-2021	1	
28	Sprint4	07-05-2021	08-05-2021	1	
29	Sprint4	09-05-2021	10-05-2021	1	
30	Sprint4	11-05-2021	13-05-2021	3	
31	Sprint4	14-05-2021	15-05-2021	1	
32	Sprint4	16-05-2021	17-05-2021	1	
33	Sprint4	18-05-2021	19-05-2021	1	
34	Sprint4	20-05-2021	21-05-2021	2	
35	Sprint4	22-05-2021	22-05-2021	1	
36	Sprint4	23-05-2021	23-05-2021	1	

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Figure: project plan

Used to store the username and password

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
username	varchar(10)	primary key	name of the user
password	varchar(10)	not null	password of the user
usertype	varchar(10)	not null	type of the user

Table 2.1: Login Table

Figure: login table

2.13.2 Staff management

.This is the registration table of staff and it contains details of staff and hod

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
staff-id	int(5)	primary key	Registration ID of staff
Name	varchar(10)	not null	Name of the staff
Address	varchar(50)	not null	Address of the staff
Type	varchar(10)	not null	type of the staff
Gender	varchar(5)	not null	Gender
DOB	varchar(5)	not null	Dob of staff
City	varchar(5)	not null	City of staff
state	varchar(5)	not null	state of staff
course-id	int(5)	foreign key	course ID
Experience	varchar(5)	not null	experience of staff
Qualification	varchar(5)	not null	Qualification of staff

Table 2.2: Staff Registration

2.13.3 Student management

Hod will accept student on the basis of their details.Used to store the details of student

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
student-id	int(5)	primary key	Registration ID of student
Name	varchar(10)	not null	Name of the student
Address	varchar(50)	not null	Address of the student
Guardian's name	varchar(10)	not null	Name of parent
Gender	varchar(5)	not null	Gender
DOB	varchar(15)	not null	Dob of student
City	varchar(15)	not null	City of student
state	varchar(15)	not null	state of student
SSLC mark	int(5)	not null	SSLC mark of student
HSS mark	int(5)	not null	HSS mark of student
coursename	varchar(15)	not null	coursename
Email	varchar(15)	not null	email-id of student
Certificate	varchar(15)	not null	Certificate of student

Table 2.3: Student registration

Figure: student management

2.13.4 Department Management

This table contains department details.Admin can add and view departments

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
Dept-id	int(5)	primary key	ID of department
Dept-name	varchar(MAX)	not null	Name of department

Table 2.4: Department management

Figure: department management

2.13.5 Course Management

This table contains course details.Admin can add and view course

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
course-id	int(5)	primary key	ID of course
course-name	varchar(MAX)	not null	Name of course
Dept-id	int(5)	foreign key	ID of department

Table 2.5: Course management

Figure: course management

2.13.6 Add available seats

This table contains details of vacant seats.Admin will add available seats for each course

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
seat-id	int(5)	primary key	ID of seats
course-id	int(5)	foreign key	ID of course
seats	varchar(MAX)	not null	Available seats

Table 2.6: Add available seats

Figure: Add available seats

2.13.7 Question management

This table contains details of feedback questions.Admin can add and view questions.

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
question-id	int(5)	primary key	ID of question
Question	varchar(MAX)	not null	Question
Option	varchar(MAX)	not null	Options for question

Table 2.7: Question management

Figure: question management

2.13.8 view /reply to complaints

This table contains complaints and its reply.Students and parents can post complaints and admin will send reply.

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
complaint-id	int(5)	primary key	ID of complaints
student-id	int(5)	foreign key	ID of student
Date	varchar(MAX)	not null	date of complaint
Reply	int(5)	varchar(max)	reply of complaint

Table 2.8: complaint and reply

Figure: view/reply complaints

2.13.9 Subject management

This table is used to add and view subject

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
course-id	int(5)	foreign key	ID of course
subject-id	int(5)	primary key	ID of subject
Semester	varchar(MAX)	not null	date of complaint
subjectname	int(5)	varchar(max)	name of subject

Table 2.9: subject mangement

Figure: subject management

2.13.10 Subject allocation

This table is used for add and view subject allocation

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
allot-id	int(5)	primary key	ID of subject allotment
staff-id	int(5)	foreign key	ID of staff
subject-id	int(5)	foreign key	id of subject

Table 2.10: subject allocation

2.13.11 Tutor allocation

This table is used for add and view tutor allocation list

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
tutorallot-id	int(5)	primary key	ID of tutor allotment
staff-id	int(5)	foreign key key	ID of staff
subject-id	int(5)	foreign key	id of subject

Table 2.11: Tutor allocation

Figure: allocation of tutor

2.13.12 Feedback score analysis

This table is for feedback score analysis.Hod will analysis feedback from student and grade it.

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
feedback-id	int(5)	primary key	ID of feedback
question-id	int(5)	foreign key	ID of question
student-id	int(5)	foreign key	ID of student
score	int(5)	not null	score of feedback
staff-id	int(5)	foreign key	ID of staff
subject-id	int(5)	foreign key	id of subject

Table 2.12: Feedback score analysis

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Figure: score analysis

2.13.13 Attendance

This table is for storing attendance details of students

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
attend-id	int(5)	primary key	ID of attend
student-id	int(5)	foreign key	ID of student
date	int(5)	date	date of attendance
Attendance	int	not null	status of student

Table 2.13: Attendance

2.13.14 Mark details

This table is for storing mark details of students

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
mark-id	int(5)	primary key	ID of mark
class test mark	int(5)	not null	class exam mark
Assignment mark	int(5)	not null	Assignment mark
Internal mark	int(5)	not null	Internal exam mark
Total mark	int(5)	not null	Total internal mark
student-id	int(5)	foreign key	ID of student
subject-id	int(5)	foreign key	ID of subject

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Figure: add attendance

Table 2.14: Mark details

2.13.15 Send notes

This table is for sending notes for staff

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
note-id	int(5)	primary key	ID of note
course-id	int(5)	foreign key	ID of course
semester	int(5)	not null	Semester
notes	varchar(max)	not null	Notes of subject

Table 2.15: sending notes

Figure: send notes

2.13.16 Add notification

This table is for sending absent notification for parents

FIELD	TYPE	CONSTRAINTS	DESCRIPTION
notification-id	int(5)	primary key	ID of notification
date	date	not null	date of notification
notification	varchar(max)	not null	Absent notification

Table 2.16: Notification

Figure: add notification

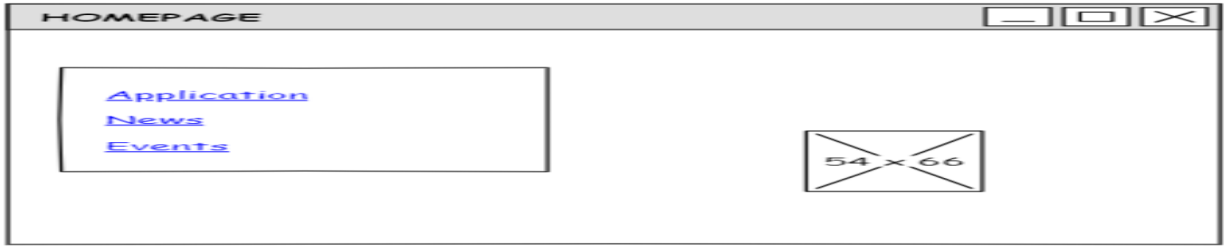

Figure 2.7: Homepage

Figure: Homepage

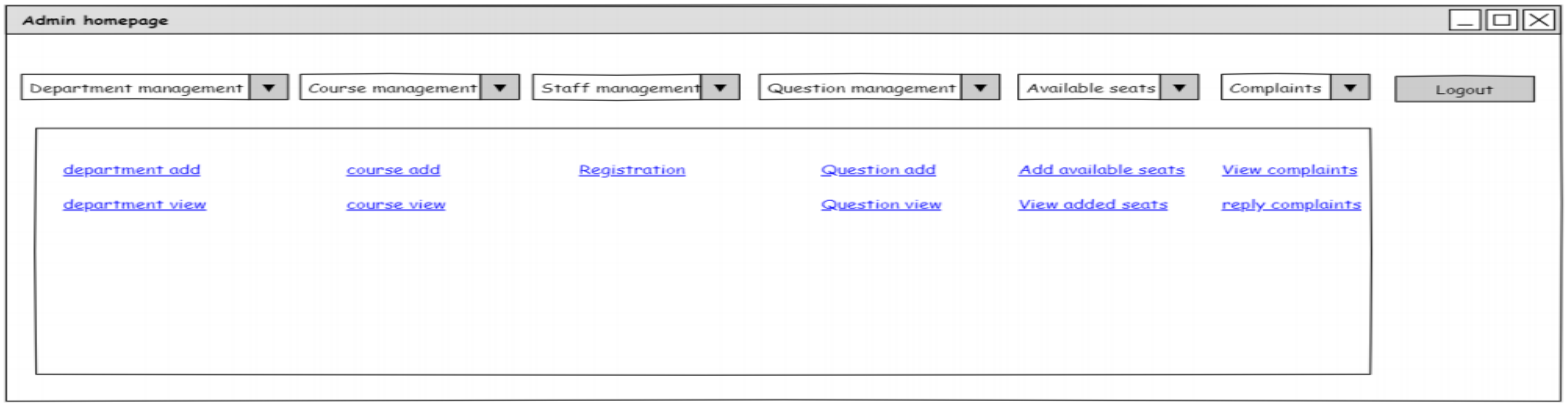

Figure 2.8: Admin Homepage

Figure: admin homepage

Figure 2.9: Hod Homepage

Figure: hod homepage

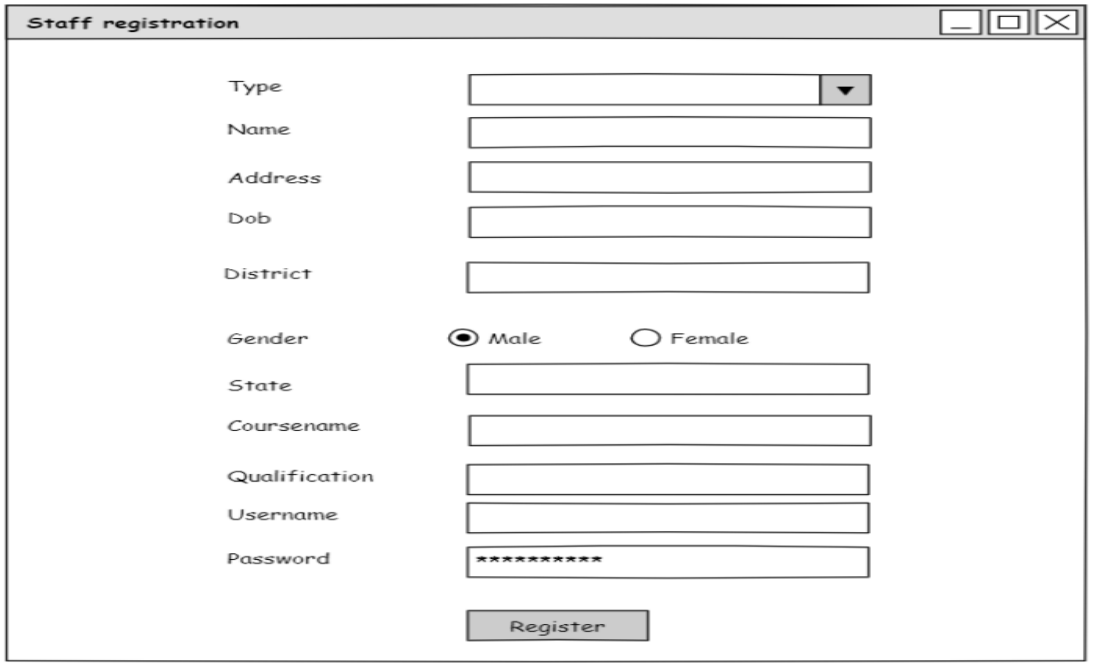

Figure 2.10: Admin staff registration

Figure: staff registration

Figure 2.11: Admin view staff

Figure: admin view staff

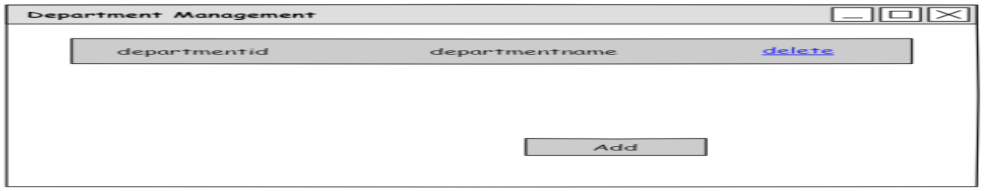

Figure 2.12: Admin departmentadd

Figure: Admin add department

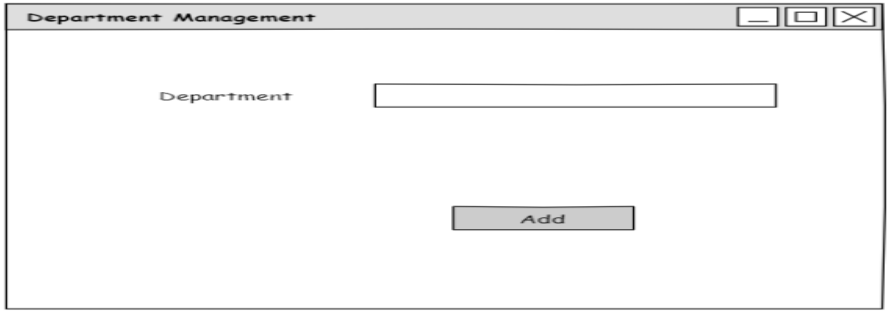

Figure 2.13: Admin departmentview

Figure: admin view department

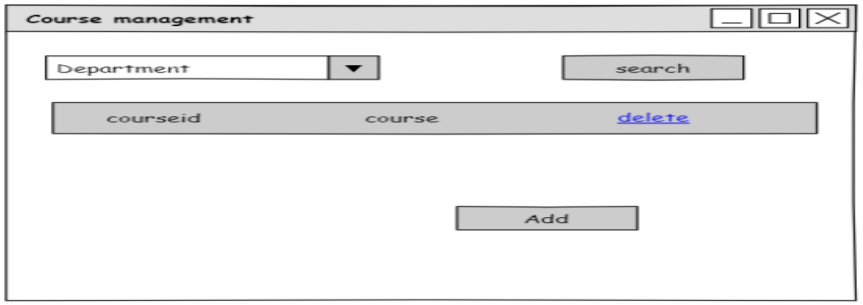

Figure 2.14: Admin courseadd

Figure: admin add course

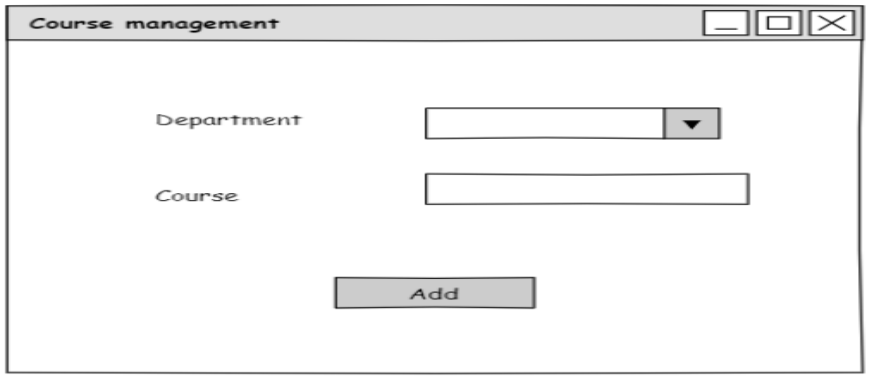

Figure 2.15: Admin courseview

Figure: Admin add course

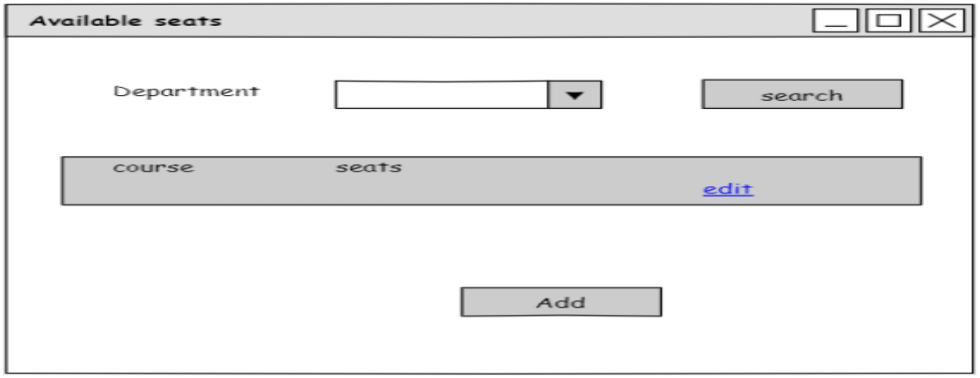

Figure 2.16: Admin add seats

Figure: Admin add seats

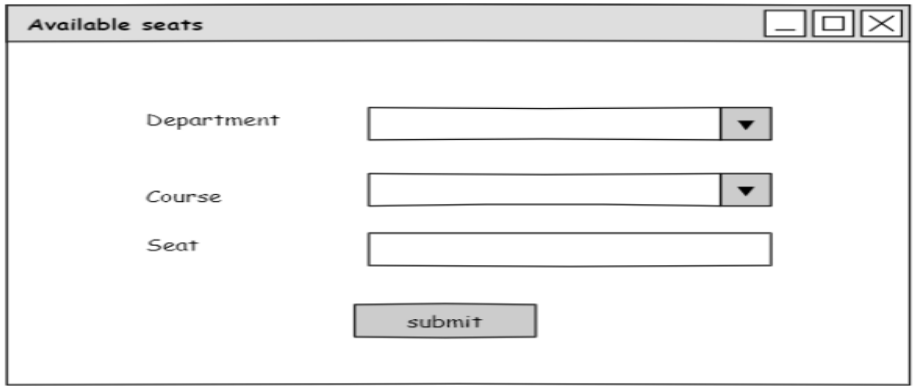

Figure 2.17: Admin view seats

Figure: admin view seats

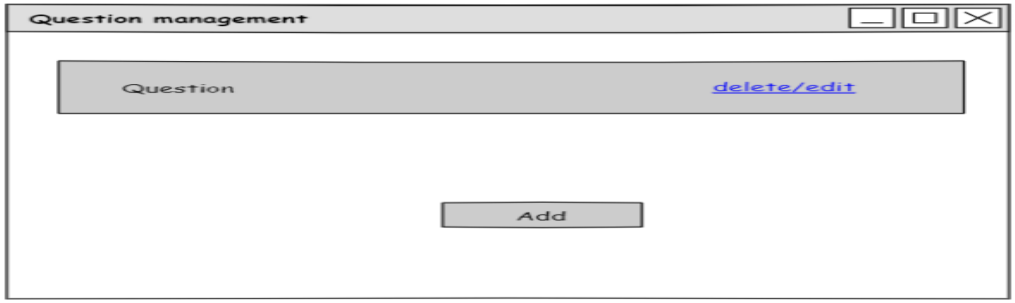

Figure 2.18: Admin question management

Figure: question management

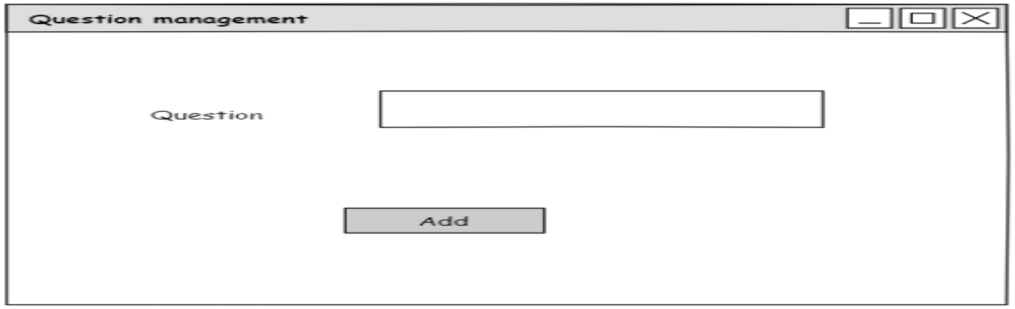

Figure 2.19: Admin view question

Figure: admin view question

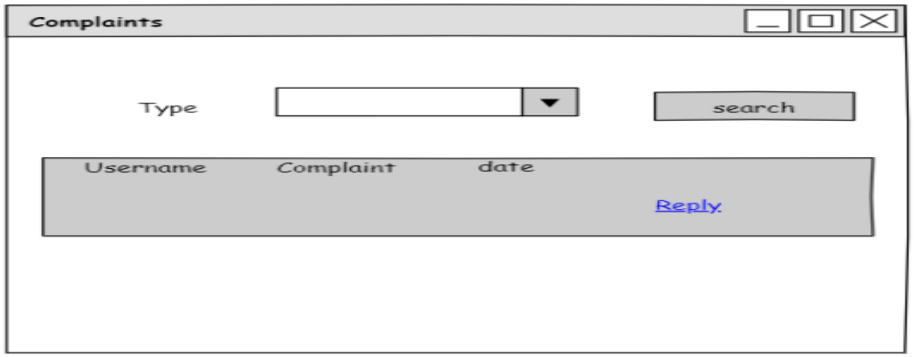

Figure 2.20: Admin view complaint

Figure: admin view complaint

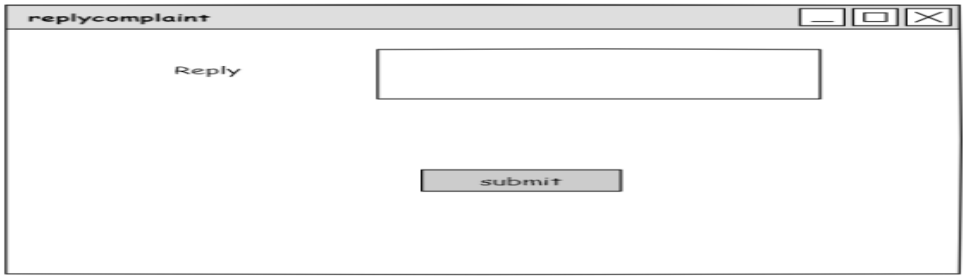

Figure 2.21: Admin reply to complaint

Figure: admin reply complaint

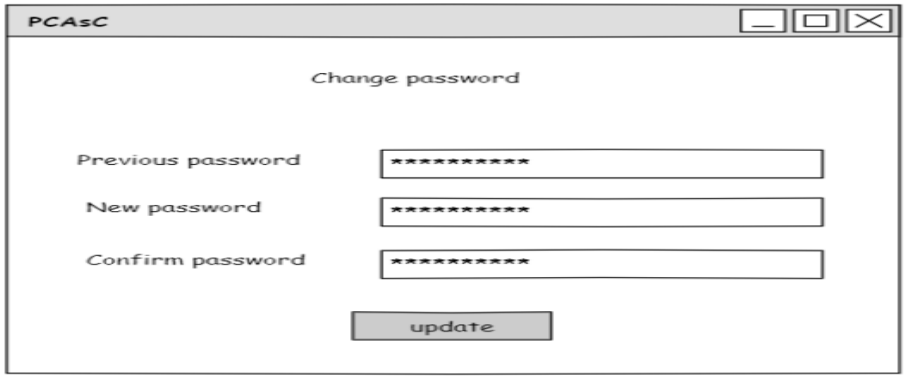

Figure 2.22: Change password

Figure: change password

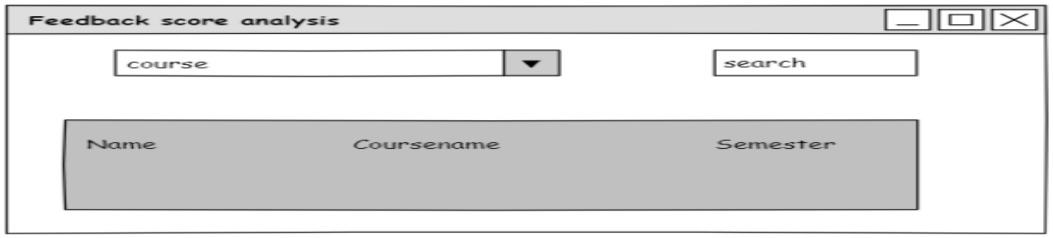

Figure 2.23: Feedbackscore Analysis

Figure: feedback score analysis

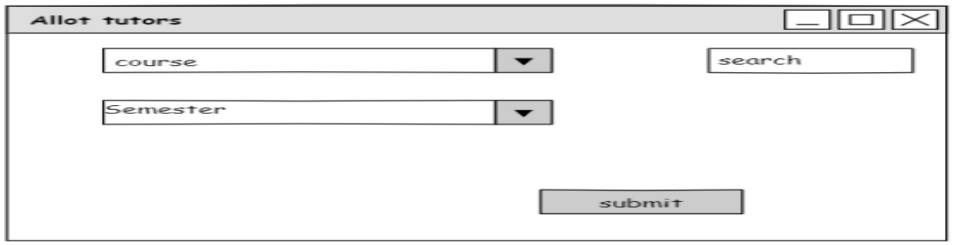

Figure 2.24: Allocation of staff

Figure: allocation of staff

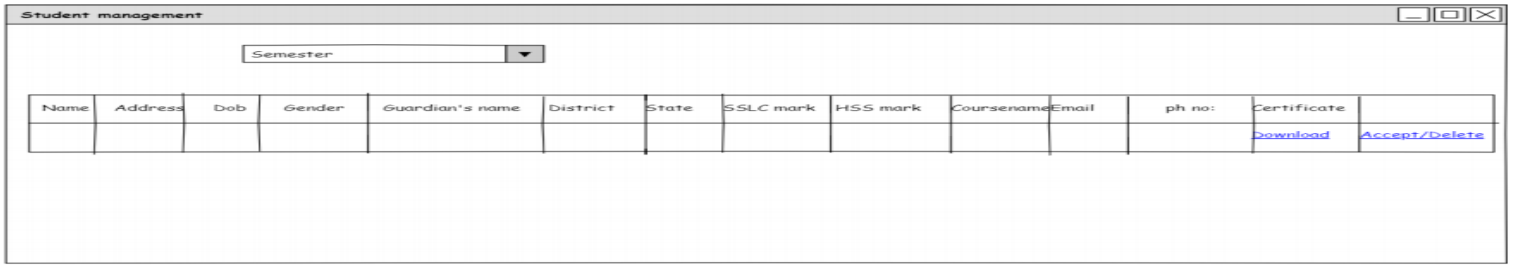

Figure 2.25: Student management

Figure: student management

2.14.20 Subject add

Hod will add subjects

Figure 2.26: Subject add

Figure: Add subject

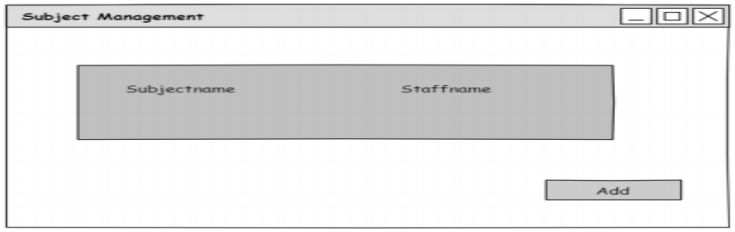

Figure 2.27: Subject view

Figure: View subject

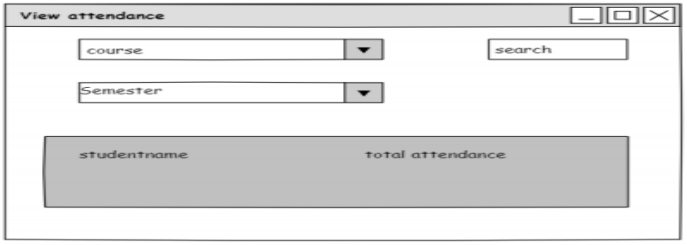

Figure 2.28: Hod view attendance

Figure: hod view attendance

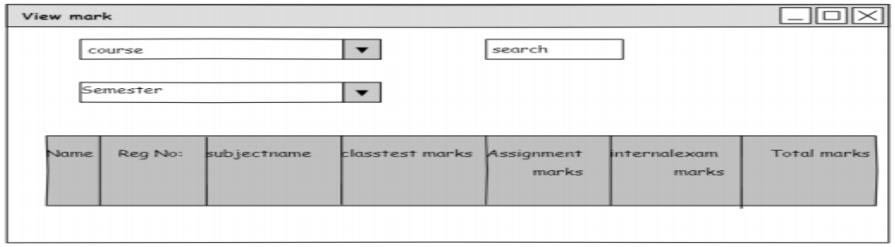

Figure 2.29: Hod view mark

Figure: view mark details

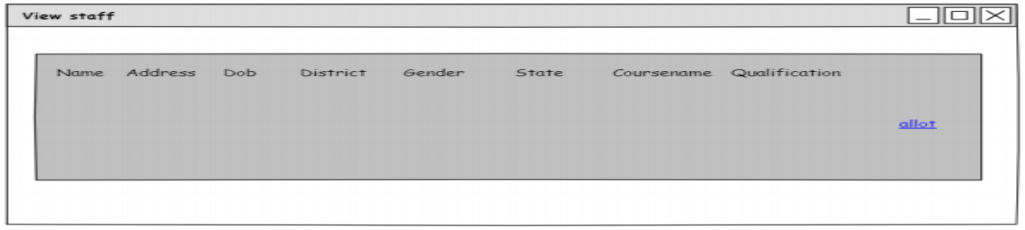

Figure 2.30: Hod view staff

Figure: hod view staff

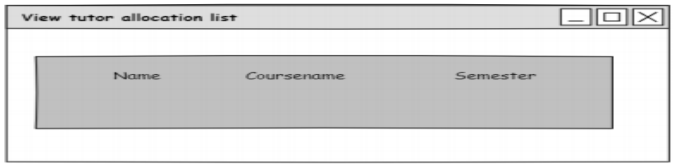

Figure 2.31: Hod view tutors list

Figure: View tutor list hod

Figure 2.32: Staff Home page

Figure: Staff homepage

Figure 2.33: Staff add attendance

Figure: Staff add attendance

Figure 2.35: Staff add mark

Figure: :Add mark details

Figure 2.36: Staff send notes

Figure: Staff send notes

Figure 2.37: Staff view notes

Figure: Staff view note

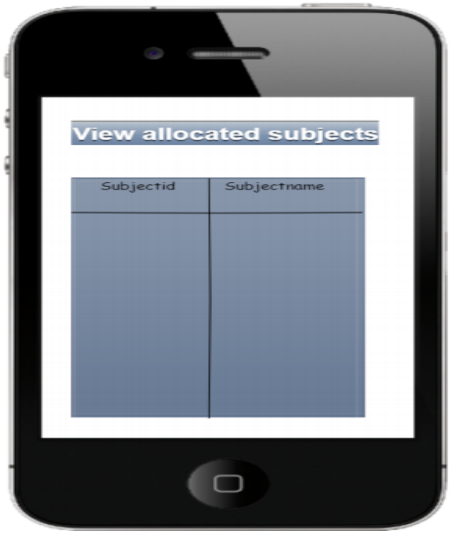

Figure 2.38: Staff view allocated subjects

Figure: View allocated subjects

Figure 2.39: Staff view students

Figure: Staff view students

Figure 2.40: Staff view tutorslist

Figure: View tutors list

Figure 2.41: Student homepage

Figure: Student homepage

Figure 2.42: Student post complaint

Figure: Student post complaint

Figure 2.43: Student send feedback

Figure: Student send feedback

Figure 2.44: Student view attendance

Figure: Student view attendance

Figure 2.45: Student view mark

Figure: Student view mark details

Figure 2.46: Student view notes

Figure: student view notes

Figure 2.47: Student view reply

Figure: Student view reply

Figure 2.48: Student view staff

Figure: student view staff

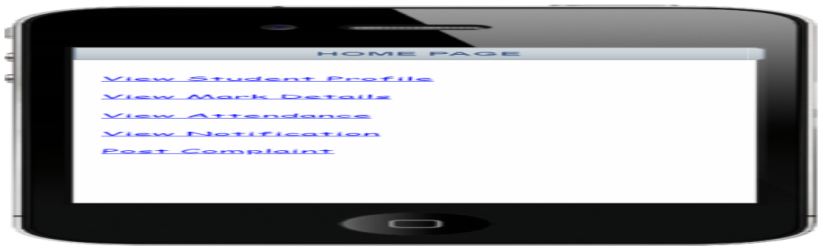

Figure 2.49: Parent Home page

Figure: parent homepage

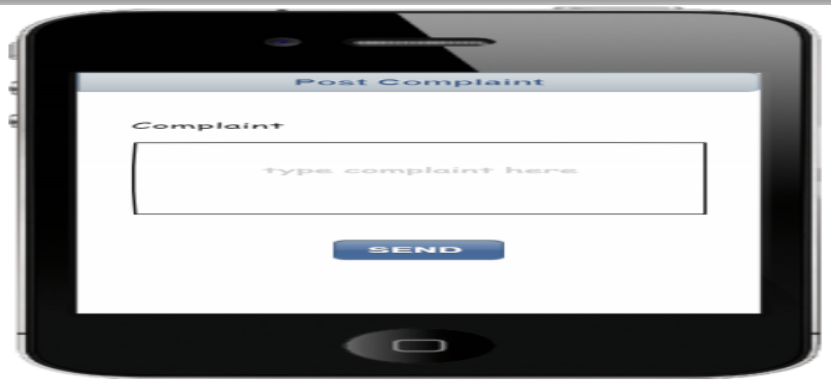

Figure 2.50: Parent post complaint

Figure: parent post complaint

Figure: parent view attendance

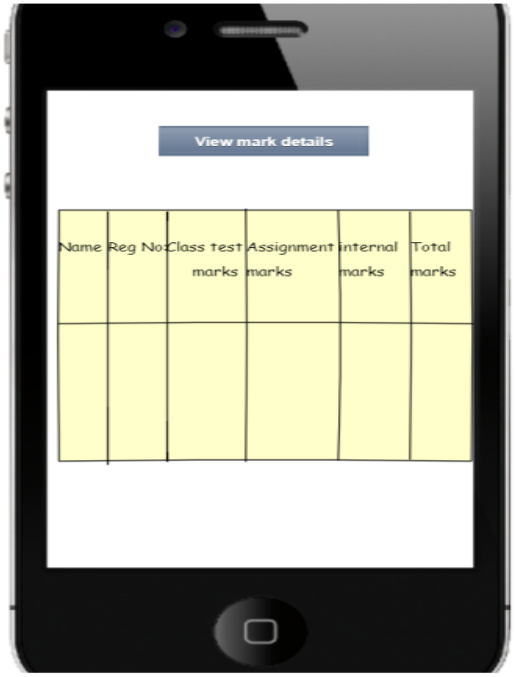

Figure 2.52: Parent view mark

Figure: parent view mark

Figure 2.53: Parent view notification

Figure: parent view notification

Figure 2.54: Parent view reply

Figure: parent view reply