

A
PROJECT REPORT ON
Classroom

By

Megha Joshi (CE002)(20CEUOS029)
Akash Pambhar (CE005)(20CEUOS025)
Princy Bhalu (CE018)(20CEUOS097)

B.Tech CE Semester-VI
Subject: System Design Practice

Guided by:

Prof. Brijesh Bhatt



Dharmsinh Desai University, Nadiad
Department of Computer Engineering
Faculty of Technology

Dharmsinh Desai University, Nadiad
Department of Computer Engineering
Faculty of Technology



CERTIFICATE

This is to certify that the practical / term work carried out in the subject of
System Design Practice and recorded in this journal is the
bonafide work of

Megha Joshi (CE002) (20CEUOS029)
Akash Pambhar (CE005) (20CEUOS025)
Princy Bhalu (CE018)(20CEUOS097)

of B.Tech semester **VI** in the branch of **Computer Engineering**
during the academic year **2022-2023**.

Prof. Brijesh S. Bhatt
Professor,
Dept. of Computer Engg.,
Faculty of Technology
D.D.U., Nadiad

Dr. C. K. Bhensdadia,
Head,
Dept. of Computer Engg.,
Faculty of Technology
D.D.U., Nadiad

Index

SR.No	Topic	Page No.
1	Abstract	3
2	Technology And Tools Used	4
3	Software Requirement Specifications	5
4	Data Dictionary	12
5	Implementation Details	16
6	Screen-short Of System	18
7	Conclusion	25
8	Limitation And Future Extensions Of System	26
9	Bibliography	27

Abstract:

We have built a website which provides a learning platform for educational institutions that aims to simplify creating, distributing, and grading assignments. The primary purpose of this classroom is to streamline the process of sharing files between teachers and students.

Technology And Tools Used:

❖ Technology:

- React js
- MongoDB Atlas
- Express js
- Node js
- React Native
- Redux

❖ Tools:

- Git
- Github
- Postman
- Visual Studio Code
- Cloudinary

Software Requirement Specifications:

Functional Requirements:

R1 Login

Description: Login using userId and password provided by admin. UserId is student unique college Id and password is student birthdate. Also need to write captcha for confirming I'm not a robot. If userId and password are correct then successfully login otherwise give a message that credential does not match.

Input : UserId and password

Output : Dashboard

R2 Admin

R2.1 Manage Teacher :

R2.1.1 Add Teacher :

Description: Fill the teacher details like name ,experience, DOB, email, department.

Input : teacher details

Output : user id and password

R2.1.2 Update details :

Description: Teacher's details can be updated by admin as and when required.

Input : new update details

Output: update dashboard

R2.1.3 Remove teacher :

Description: By clicking the button admin can remove the teacher on the dashboard.

Input : admin selection

Output : dashboard with removed data

R2.1.4 View teacher details :

Description: Admin can view all teacher records.

Input : teacher id

Output : teacher details

R2.2 Manage Student :

R2.2.1 Add Student :

Description: Fill the student details like name , graduation year, department, DOB, email.

Input : student details

Output : user id and password

R2.2.2 Update details :

Description: student`s details can be updated by admin as and when required.

Input : new update details

Output: update dashboard

R2.2.3 Remove student :

Description: By clicking the button admin can remove students on the dashboard.

Input : admin selection

Output : dashboard with removed data

R2.2.4 View student details

Description: Admin can view student records.

Input : student id

Output : student details

R3 Teacher

Description : Teacher can create and manage classes, assignments, material.

R3.1 Manage Class :

R3.1.1 Create Class :

Description : Teacher can create classes. For creating class teachers have to specify class name, subject name, batch year, department.

Input : Class details

Output : Classroom created.

R3.1.2 Delete Class :

Description : Teacher selects class for delete.

Input : Teacher selection

Output : Updated dashboard

R3.2 Manage Material

R3.2.1 Upload material

Description : Teacher can upload assignment and material. For creating assignments teachers have to specify topic, description, attachment, points and due date. Add material such as YouTube videos, a Google Forms survey and other items from google drive.

Input : material details

Output : updated classroom

R3.2.2 Edit material

Description : teachers can update data of material and when required.

Input : new details of material

Output : updated material details

R3.2.3 Delete material

Description : Teacher can delete assignment and material.

Input : material id

Output : updated classroom

R4 Student

R4.1 Join Classroom :

Description: Students can join class using classroom code which is provided by teacher

Input : classroom code

Output : class joined successfully.

R4.2 Leave Classroom :

Description : Students can leave class.

Input : student selection

Output : Updated dashboard

R4.3 View Material :

Description: Students can view all assignments and material uploaded by teachers.

R4.4 Submit Work :

Description: Students can submit their assignment. If they submit within the due date, a successful message is displayed and otherwise a late submitted message will be displayed.

Input: Add Assignment

Output : Appropriate message based on due date.

R4.5 View classmates And teacher

Description: Students can view their classmates and teachers.

Input : student selection

Output : view their classroom and teachers

Data Dictionary:

Users:

Field	Datatype	Constains
userId	string	Primary key
dob	date	Not null
name	string	Not null
role	string	Not null
email	string	Not null
batch	number	Not null
department	string	Not null
classid	array	-
activestatus	boolean	Not null

Classroom:

Field	Datatype	Constains
userId	string	Primary key
classcode	string	Not null
sem	number	Not null
batch	number	Not null
subject	string	Not null
department	string	Not null
classmate	string	Not null
classname	string	Not null
subtitle	string	Not null
professor_id	string	Not null
professor_name	string	Not null
classActiveStatus	boolean	Not null

Assignment:

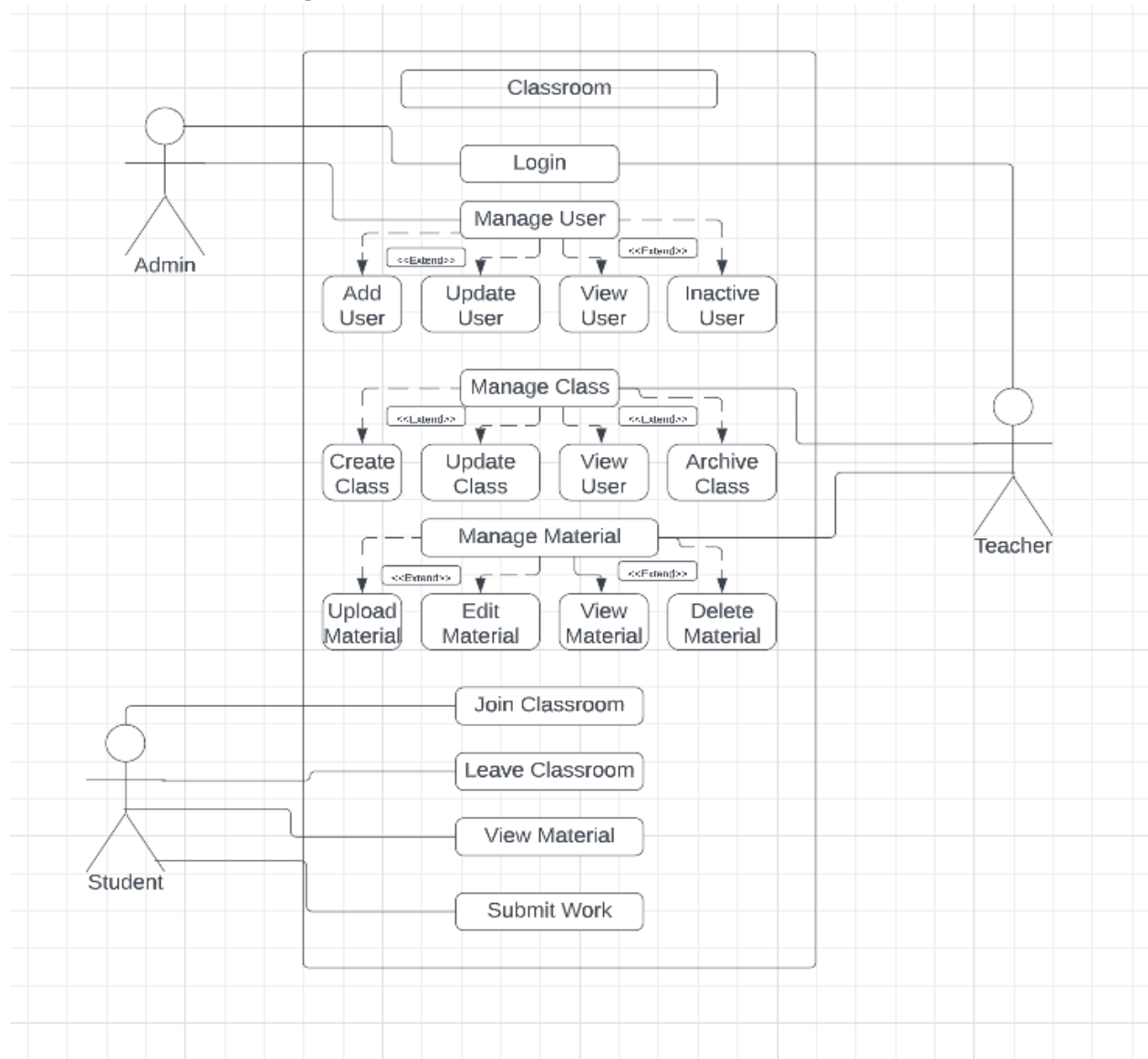
Field	Datatype	Constains
user_Id	string	Primary key
Classid	string	Not null
Title	string	Not null
Instruction	string	-
Points	number	-
DueDate	date	-
StudentSubmission	array	-
Attach	string	-
subtitle	string	-

Assignment:

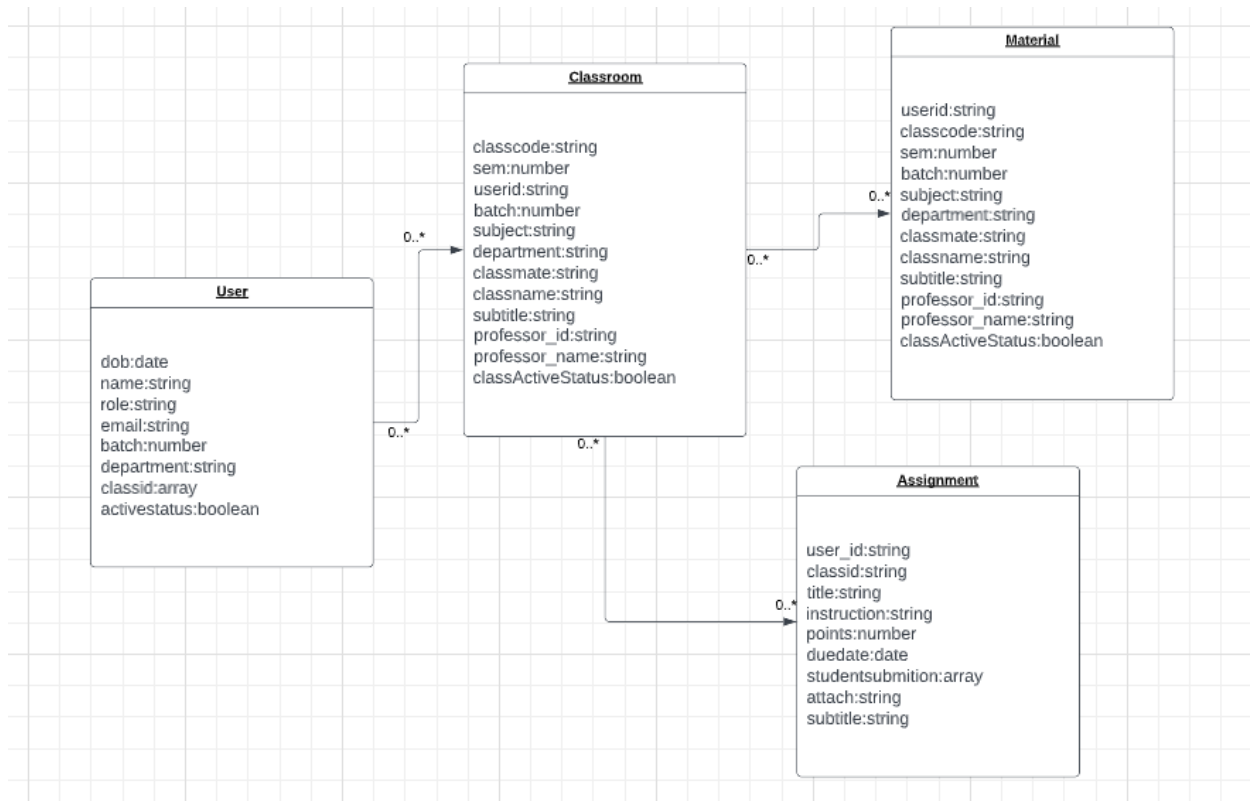
Field	Datatype	Constains
user_Id	string	Primary key
Classid	string	Not null
Title	string	-
Description	string	-
Attach	string	-

Implementation Details:

Use case Diagram:-



Class Diagram:-



Screen-short Of System:

Admin Side :-

Classroom

HOME

ADD USER

ALL STUDENTS

ALL PROFESERS

A

Select Role

☒ Student ☐ Professor

User Id

First Name

Last Name

Email Address

Date Of Birth

dd-mm-yyyy

Batch

Department

SUBMIT

Classroom

HOME

ADD USER

ALL STUDENTS

ALL PROFESERS

A

User Id	Name	Email	Batch	Department		
20CEUOS097	Princy Bhalu	princybhalu@gmail.com	2024	Computer Engineering	EDIT	DELETE
20CEUOS029	Megha joshi	meghajoshi556@gmail.com	2024	Computer Engineering	EDIT	DELETE
20CEUOS025	Akash Pambhar	akashpambhar@gmail.com	2024	Computer Engineering	EDIT	DELETE

Classroom					
HOME ADD USER ALL STUDENTS ALL PROFESERS					
User Id	Name	Email	Experience	Department	
20PROF001	Brijesh S. Bhatt	brijeshbhatt@gmail.com	21	Computer Engineering	EDIT DELETE

Teacher Side :-

Classroom

HOME

CREATE CLASSROOM

VIEW CRAFTED CLASSES

SDP_SEM6

Brijesh S. Bhatt

mini projects

ML_SEM6

Brijesh S. Bhatt

machine learning

B

Brijesh S. Bhatt

Professor

[Back To Home](#)

User Id : 20PROF001

Email : brijeshbhatt@gmail.com

Date Of Birth : 1999-11-04

Experience : 21

Classroom

HOME

CREATE CLASSROOM

VIEW CRAETED CLASSES

B

Sem

Subject

Batch

Department

Classname

Subtitle

SUBMIT


SDP_SEM6

STREAM CLASSWORK PEOPLE


B

SDP_SEM6

Class code
AEJTcE



ANNOUNCE SOMETHING TO YOUR CLASS



MATERIAL3

29/3/2023

SDP_SEM6

STREAM CLASSWORK PEOPLE

B

SDP_SEM6

Class code
AEJTcE

Create

☒ Material ☐ Assignment

Title

Description

Choose File

No file chosen

POST

CANCEL



Practices



100 Points

Due Date 31/3/2023

Brijesh S. Bhatt : 29/3/2023 (Edited At 30/3/2023)

make a pdf



View Submission

Check Student Submission



20CEUOS097

Submitted On 29/3/2023

Points : 90



20CEUOS097

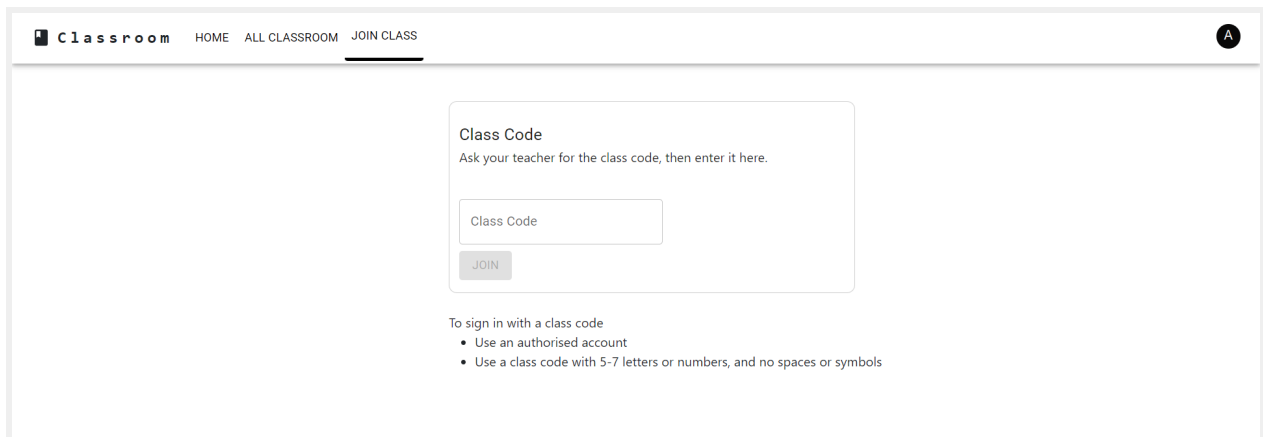
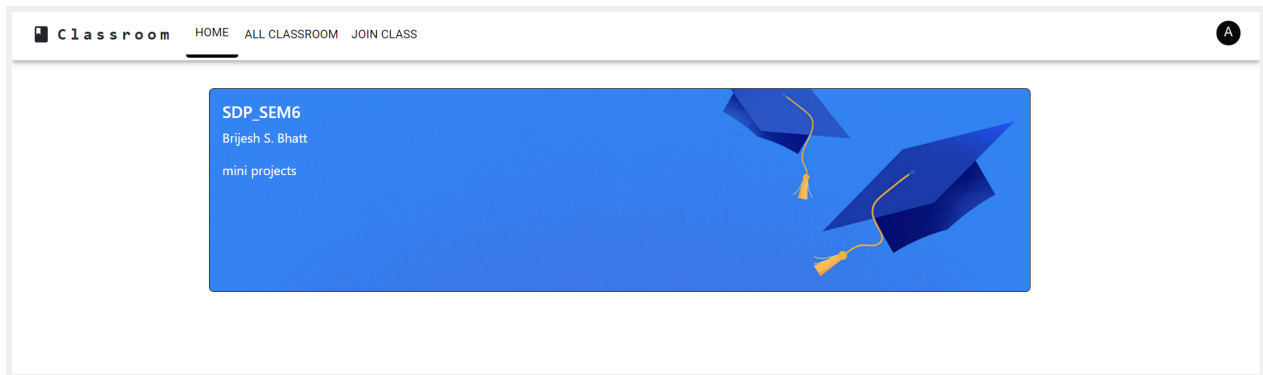
Submitted On 30/3/2023

Enter Points

/ 100

MARKED

Students Side :-



Conclusion:

- User registration and management done by admin.
- Professor can manage material and assignments.
- Students can view material and assignments.
- Students can submit respective assignments.
- Professor can view all submitted assignments and according to that give marks to students.

Limitation And Future Extensions Of System:

Limitation:

- Modulation of classes is not there.
- Professor can not remove students.

Future Extensions:

- Doubt solving panel will be added.
- Send notification mail to students one day before the due date.
- Modulation of the classroom according to semester.
- Professor can remove student from the classroom.

Bibliography:-

- <https://formik.org/>
- <https://redux.js.org/introduction/getting-started>
- <https://www.w3schools.com/bootstrap/>
- <https://youtu.be/-6TUfJTBR1c>