DBMS Project

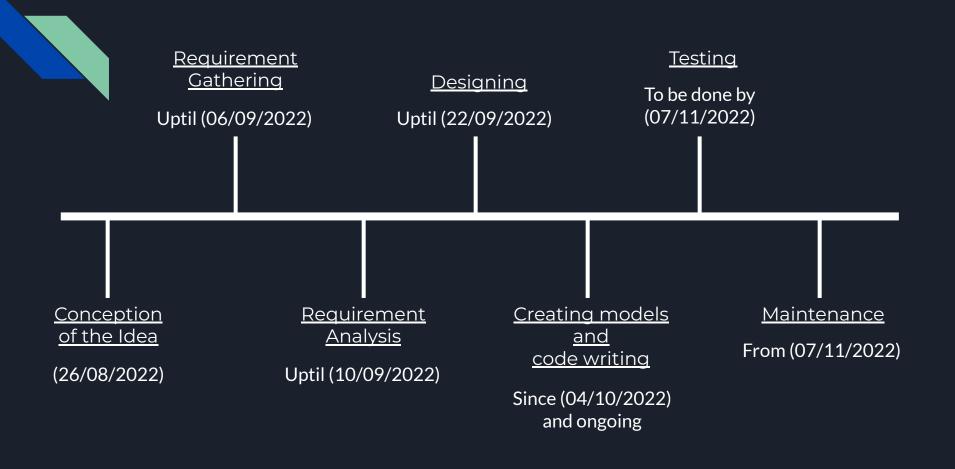
Mid-Term Report

STeMS website

by

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Project Timeline



Work Done till now

Conception of the Idea

To make a website which makes it easy for the students to get information and data from a single platform.

Also, providing teachers with a single platform to upload and update information and data.

Hence, STeMS (**S**tudent **Te**acher **M**anagement **S**ystem) website.

Requirement Gathering

<u>Students requirements</u>:

We need a website using which we can access our attendance, course materials, marks of various different subjects. We also want to have the facility of making a complaint regarding marks obtained, etc.

<u>Teachers requirements</u>:

We need a website using which we can upload attendance, course materials, marks of our own subjects. We also want to have the facility to upload notices which are visible to everyone in the institute. Students should not have the facility to upload any documents except for complaints.

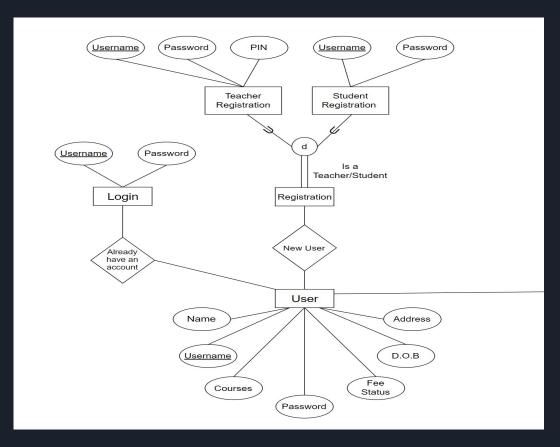
Requirement Analysis

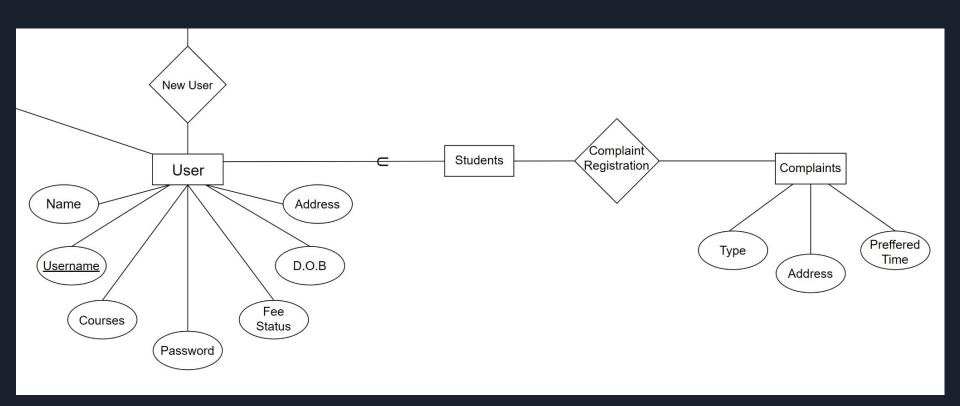
- Who is the User?
- Who is a student of the institute?
- Who is a teacher of the institute?
- How are the student and teacher different from one another?
- Does a student has some unique ID to distinguish him/her from other students? Same goes with the teachers as well?
- What are the various types of complaints a student can make?

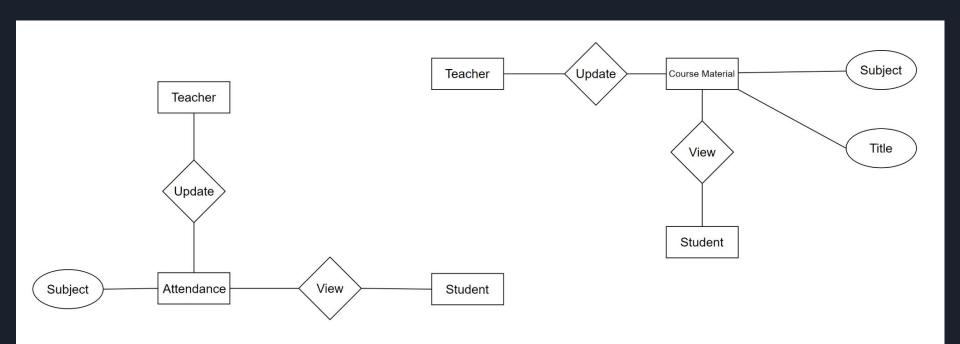
- Which details regarding a particular complaint does a user provides?
- What does attendance mean?
- How frequently should the attendance be updated?
- What does a notice mean?
- Are there different types of notices? If so then how are they different from one another?

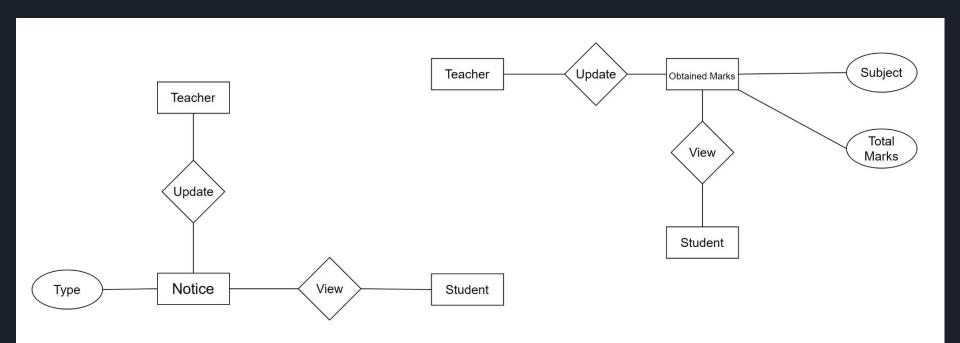
Designing

ER Diagram

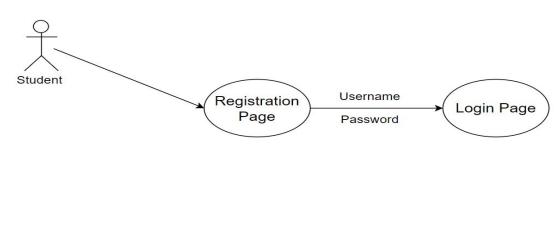


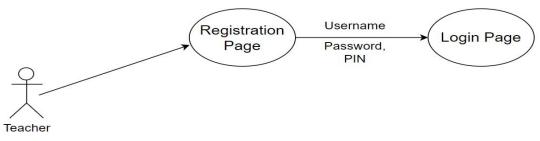




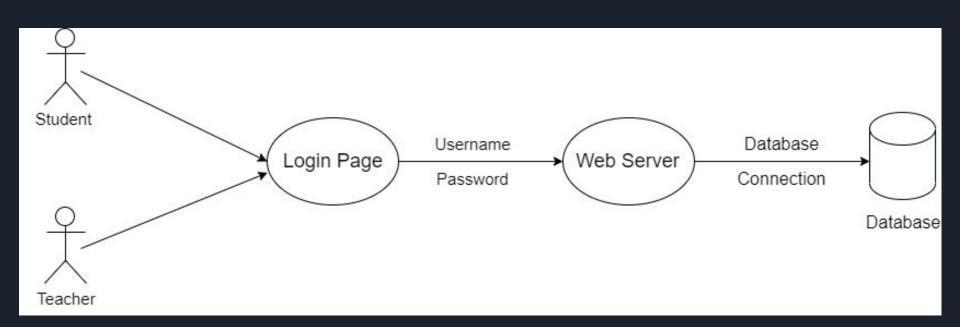


Registration Page Design





Login Page Design



Code Writing

```
♦ index.html X ♦ signupprof.html ♦ signupstudent.html
  1 <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8" />
          <meta http-equiv="X-UA-Compatible" content="IE=edge" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
          <link rel="stylesheet" href="app.css" />
          <title>Home Page</title>
  10
          <h1>Register</h1>
          <div class="container">
           <button>Sign Up as Student
            <button>Sign Up as Teacher
            <button>Already have an account?
```

```
♦ signupprof.html ♦ signupstudent.html ♦ login.html X # app.css
1 <!DOCTYPE html>
   <html lang="en">
       <meta charset="UTF-8" />
       <meta http-equiv="X-UA-Compatible" content="IE=edge" />
       <meta name="viewport" content="width=device-width, initial-scale=1.0" />
       <link rel="stylesheet" href="app.css" />
      <title>Login</title>
       <h1>Login Detais</h1>
       <form action="backend.php">
         <div class="studentlog">
           <label for="name"><b>Username</b></label>
           <input type="text" name="username" />
           <label for="passwd"><b>Password</b></label>
           <input type="password" name="passwd" />
           <button class="submitbutton">Submit
```

```
◆ signupprof.html × ◆ signupstudent.html ◆ login.html

    signupprof.html >  html >  body >  form >  div.proflog >  br

  1 <!DOCTYPE html>
  2 <html lang="en">
        <head>
          <meta charset="UTF-8" />
          <meta http-equiv="X-UA-Compatible" content="IE=edge" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
          <link rel="stylesheet" href="app.css" />
          <title>Prof Sign Up</title>
        </head>
          <h1>Sign Up Detais</h1>
          <form action="backend.php">
            <div class="proflog">
              <label for="name"><b>Name</b></label>
              <input type="text" name="name" />
              <label for="name"><b>Username</b></label>
              <input type="text" name="username" />
              <label for="passwd"><b>Password</b></label>
              <input type="password" name="passwd" />
 24
              <label for="PIN"><b>Pin</b></label>
              <input type="password" name="PIN" />
              <button class="submitbutton">Submit</button>
```

```
♦ signupprof.html ♦ signupstudent.html × ♦ login.html
1 <!DOCTYPE html>
     <html lang="en">
       <head>
         <meta charset="UTF-8" />
         <meta http-equiv="X-UA-Compatible" content="IE=edge" />
         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
         <link rel="stylesheet" href="app.css" />
         <title>Student Sign Up</title>
  8
         <h1>Sign Up Detais</h1>
         <form action="backend.php">
           <div class="studentlog">
             <label for="name"><b>Name</b></label>
             <input type="text" name="name" />
             <label for="name"><b>Username</b></label>
             <input type="text" name="username" />
             <label for="passwd"><b>Password</b></label>
             <input type="password" name="passwd" />
             <button class="submitbutton">Submit
     </html>
```

```
lp app.js - project - Visual Studio Code
```

```
JS app.js
JS app.is > @ app.get("/registerTeacher") callback
      const express = require('express');
       const path = require('path');
      const mongoose = require('mongoose');
      const ejsMate = require('ejs-mate');
      const passport = require('passport');
      const LocalStrategy = require('passport-local');
                             = require("./models/user");
                User
       const dbUrl = process.env.DB URL || 'mongodb://localhost:27017/mis'
       mongoose.connect(dbUrl, {
           useNewUrlParser: true,
           useUnifiedTopology: true,
      const db= mongoose.connection;
      db.on("error", console.error.bind(console, "connection error:"));
      db.once("open", () \Rightarrow {
           console.log("Database connected");
      const app=express();
       app.engine('ejs',ejsMate);
      app.set('view engine','ejs');
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[nodemon] restarting due to changes...
[nodemon] starting node app.js
listening on port 3000!!
Database connected
[nodemon] restarting due to changes...
[nodemon] starting `node app. is`
listening on port 3000!!
Database connected
[nodemon] restarting due to changes...
[nodemon] starting `node app.js`
listening on port 3000!!
Database connected
```

```
app.is - project - Visual Studio Code
JS app.js
           X JS user is
JS app.is > @ app.get("/registerTeacher") callback
       app.use(express.urlencoded({extended : true}));
       app.use(passport.initialize());
       passport.use(new LocalStrategy(User.authenticate()));
       passport.serializeUser(User.serializeUser());
       passport.deserializeUser(User.deserializeUser());
       app.get('/' , (req,res)=>
           res.send('hello');
       app.get("/login", function(req, res){
           res.render("login");
       app.get("/registerStudent", (req,res) =>{
           res.render("registerStudent");
       app.get("/registerTeacher", (reg,res) =>|
          OUTPUT DEBUG CONSOLE TERMINAL
 [nodemon] restarting due to changes...
 [nodemon] starting node app.js
 listening on port 3000!!
Database connected
 [nodemon] restarting due to changes...
 [nodemon] starting `node app.js`
 listening on port 3000!!
Database connected
 [nodemon] restarting due to changes...
 [nodemon] starting node app.is
 listening on port 3000!!
Database connected
```

```
user is - project - Visual Studio Code
JS app.is
                 JS user.is
                             ×
models > 15 user is > [6] UserSchema > & feeStatus > & type
       const mongoose = require('mongoose');
       const Schema = mongoose.Schema;
       const passport = require('passport');
       const passportLocalMongoose = require('passport-local-mongoose');
       const UserSchema = new Schema({
            username:
                type: String
                type: String
            dob:
                type: String
            address:
                type: String
                                    TERMINAL
 [nodemon] restarting due to changes...
 [nodemon] starting `node app.js`
 listening on port 3000!!
 Database connected
 [nodemon] restarting due to changes...
 [nodemon] starting node app.js
 listening on port 3000!!
 Database connected
 [nodemon] restarting due to changes...
 [nodemon] starting `node app.js`
 listening on port 3000!!
 Database connected
```

```
Help
                                           user.js - project - Visual Studio Code
                JS user.is X
           password:
                type: String
               type : String
           isVarified :[
               type: String,
               default: 'unpaid',
       UserSchema.plugin(passportLocalMongoose);
       module.exports =mongoose.model("User",UserSchema);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 [nodemon] restarting due to changes...
[nodemon] starting node app.js
listening on port 300011
Database connected
[nodemon] restarting due to changes...
 [nodemon] starting `node app.js`
listening on port 3000!!
Database connected
[nodemon] restarting due to changes...
[nodemon] starting node app.js
listening on port 3000!!
Database connected
```

Work to be done

Creating Models and Code Writing

- We have to make an attendance model which will have the data about attendance of all students. It would be updated only by the teacher.
- The course material, grade sheet will be uploaded by the teacher and it can be seen by the students.
- We have to provide the facility of uploading notices to the teacher.

- Providing facility to the student to register complaints of various types.
- The user model is to be updated in such a way that a user can update his/her username, password and personal details.
- Estimated completion date: 05/11/2022.

Testing

- The testing phase will begin after that and is to be completed by 07/11/2022.
- We will consider certain scenarios and test our website based on the desired output and the obtained output.
- If we don't obtain the desired output, we might need to make some changes.