

ADVANCED WEB TECH AND MEAN STACK

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MY.SC.P2MCA20043

SUBMITTED TO:

Dr.MANISHANKAR

DEPARTMENT OF COMPUTERS

AMRITA SCHOOL OF ARTS AND SCIENCES

mysore campus



2020-2022

M.C.A

SIGNATURE:

PROJECT:

FULL FLEDGED APP USING NODEJS AND MONGODB .

INTRODUCTION :

COLLEGE MANAGEMENT SYSTEM ARE THE SYSTEM MADE TO HELP KEEP STUDENT DATA AND ALSO ASSIGNING MARKS ONLINE . ONE OF THESE SYSTEM IS OUR OWN AUMS(AMRITA UNIVERSITY MANAGEMENT SYSTEM). THIS PROJECT IS A REPLICATION OF AUMS BUT WITH A TWIST OF MY OWN.

IN THIS PROJECT I HAVE CREATED AUMS AND THERE ARE MAINLY THREE PARTS:

- REGISTRATION AND LOGIN BODY:
 - HOME-PAGE:"index.hbs".
 - LOGIN-PAGE:"login.hbs".
 - SIGNUP-PAGE:"register.hbs".
- STUDENT BODY:
 - STUDENT-HOME:"stud_home.hbs".
 - STUDENT-SUBJECT:"stud_sub.hbs".
 - PASSWORD-CHANGE:"ch_pass.hbs".
- ADMIN BODY:
 - ADMIN-VIEW:"admin.hbs".
 - ALORT-MARKS:"marks.hbs".

FOR DATABASE I AM USING MONGODB AND MONGOOSE DEPENDENCY. DATA IS TAKEN FROM DATA-BASE "mydb" AND FROM THE COLLECTION "users".

```
const mongoose = require('mongoose');

mongoose.connect('mongodb://localhost:27017/mydb', {
    useNewUrlParser: true,
    useUnifiedTopology: true
});

var db = mongoose.connection;

db.on('error', ()=>console.log("Error in Connecting to Database"));
db.once('open', ()=>console.log("Connected to Database"))
```

IN MY PROJECT HAVE USED MANY DEPENDENCY TO ACHIEVE MANY TASKS AND THEY ARE :

- EXPRESS.
- MONGOOSE.
- NODEMON.
- EXPRESS-SESSION.
- COOKIE-PARSER.
- BODY-PARSER.
- HBS.

IN ORDER FOR EASE OF WORK FLOW I HAVE CREATED A DEBUG SCRIPT CALLED DEV. USING NODEMON IT RESTARTS SERVER WHENEVER I MAKE CHANGES TO MY JS,HBS OR CSS CODE.

- PACKAGE.JSON
 - DEBUG:

```
"scripts": {  
  "test": "echo \\\"Error: no test specified\\\" && exit 1",  
  "dev": "nodemon index.js -e js,hbs,css"  
},
```

- DEPENDENCY:

```
"author": "MAHITH V BHARADWAJ",  
"license": "ISC",  
"dependencies": {  
  "body-parser": "^1.19.0",  
  "cookie-parser": "^1.4.5",  
  "express": "^4.17.1",  
  "express-session": "^1.17.2",  
  "express3-handlebars": "^0.5.2",  
  "hbs": "^4.1.2",  
  "mongoose": "^5.13.1",  
  "nodemon": "^2.0.9"
```

HOME PAGE:

COMING TO BODY AS SOON AS WE OPEN WE GET HOME PAGE WHICH CONTAINS LOGIN AND SIGNUP LINKS IN THE HEADER , OUR COLLAGE IMAGE IN THE BODY AND ABOUT AND LINK TO MY GIT IN THE FOOTER.



About



About



HELLO! I am MAHITH V BHARADWAJ here by presenting my assignment one of webtech and meanstakes handed by prof. MANISHANKAR. It is a sort of aums where i have implemented student registration and login with the help of nodejs and mongoDB. For this page i have used and modified a template from w3schools and also used there boot strap. i have given a link below on the documentation. Thank you !!!!

Presented by MAHITH V BHARADWAJ

HBS-CODE:"index.hbs"

```
<!DOCTYPE html>
<html>
<title>AUMS HOME</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
<link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">
<style>
body {font-family: "Raleway", Arial, sans-serif}
.w3-row img {margin-bottom: -8px}
</style>
<body>

<!-- !PAGE CONTENT! -->
<div class="w3-content" style="max-width:1500px">

    <!-- Header -->
    <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
        
        <a href="/log" class="w3-right w3-button" style="background-color:
#a4123f; color: #fdfdfd;">LOGIN</a>
        <a href="/sig" class="w3-right w3-button" style="background-color:
#a4123f; color: #fdfdfd;">SIGN UP</a>
    </header>

    <!-- Photo Grid -->
    <div class="w3-row">

    </div>

<!-- End Page Content -->
</div>

<!-- Footer / About Section -->
<footer class="w3-light-grey w3-padding-64 w3-center" id="about">
    <h2>About</h2>
```

```



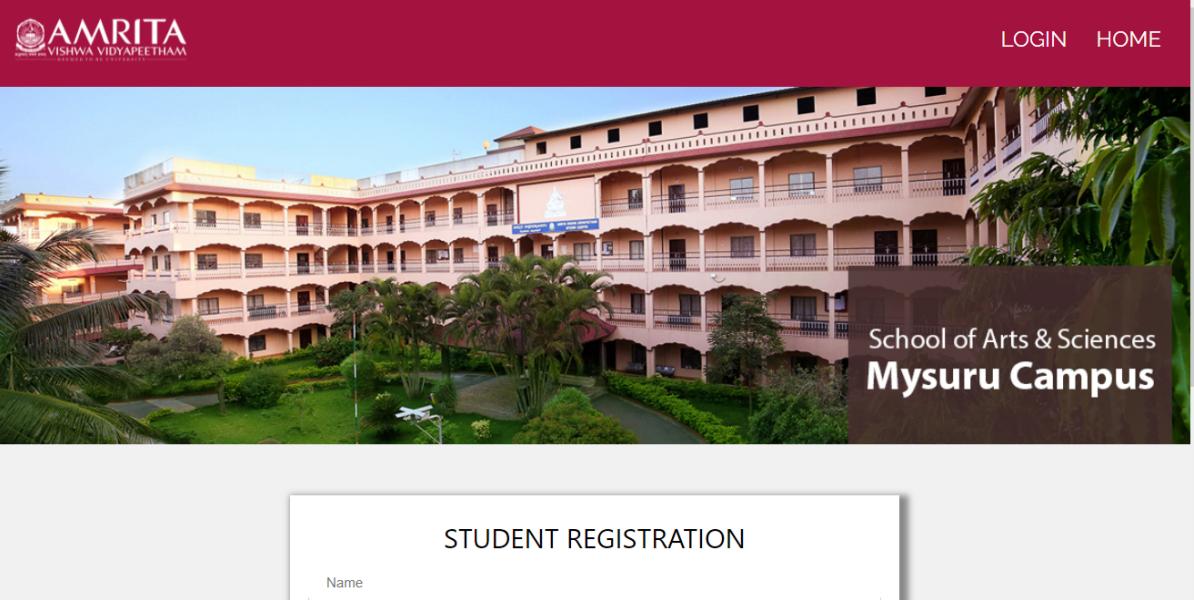
<form style="margin:auto; width:60%" >
    <p>HELLO! I am MAHITH V BHARADWAJ here by presenting my assignment
one of webtech and meanstakes handeled by prof. MANISHANKAR. It is a
sort of aums where i have implemented student registration and login
with the help of nodejs and mongoDB. For this page i have used and
modified a template from w3schools and also used there boot strap. i
have given a link below on the documentation. Thank you !!!!! </p>

</form>
<br>
<p>Presented by <a
href="https://docs.google.com/document/d/1IgDvF2hrmLwSqy7Bit1I5sCxrUEHL
N5JbK8AHF1f92I/edit?usp=sharing" target="_blank"
class="w3-hover-text-green">MAHITH V BHARADWAJ</a></p>
</footer>

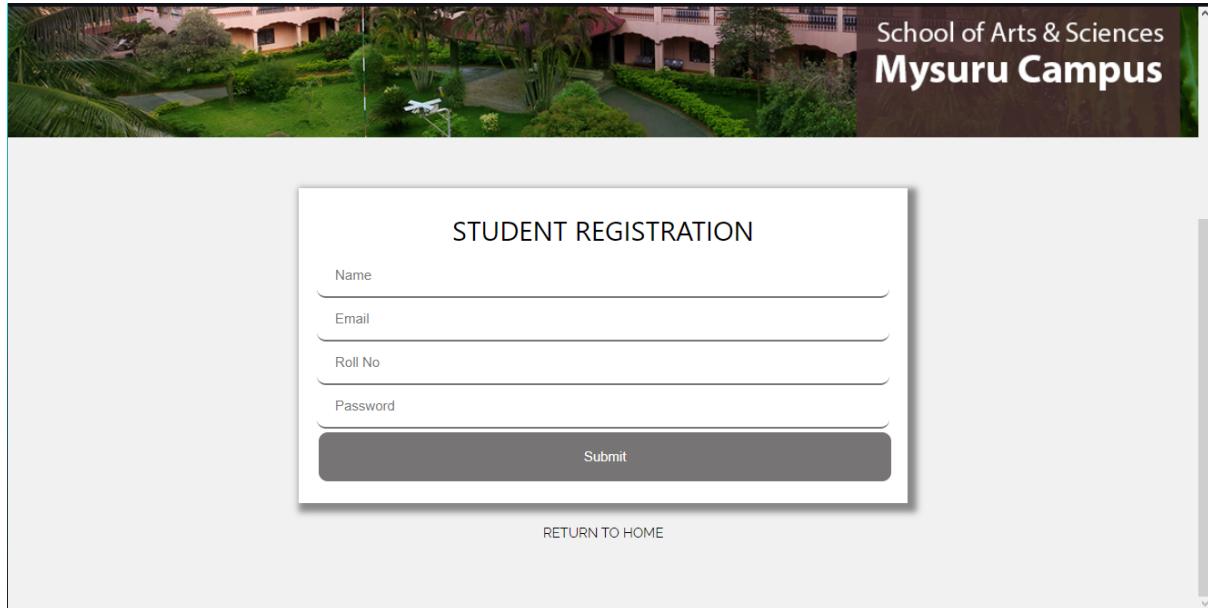
</body>
</html>

```

SIGNUP:"register.hbs"



The screenshot shows a website for the AMRITA School of Arts & Sciences Mysuru Campus. The header features the AMRITA Vishwa Vidyapeetham logo and links for LOGIN and HOME. Below the header is a large image of a multi-story building complex surrounded by greenery. A dark overlay on the right side of the image contains the text "School of Arts & Sciences" and "Mysuru Campus". At the bottom of the page, there is a white rectangular form with the title "STUDENT REGISTRATION" and a field labeled "Name".



HBS:"register.hbs"

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>SignUp Form - Amrita</title>

  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

  <link rel="stylesheet" type="text/css" href="css/styles.css">

  <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
  <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">
  <style>
    body {font-family: "Raleway", Arial, sans-serif}
    .w3-row img {margin-bottom: -8px}
  </style>

</head>
```

```
<body>

    <div class="w3-content" style="max-width:1500px">
        <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
            
            <a href="/" class="w3-right w3-button"
style="background-color: #a4123f; color: #fdfdfd;">HOME</a>
            <a href="/log" class="w3-right w3-button"
style="background-color: #a4123f; color: #fdfdfd;">LOGIN</a>
        </header>
        <div class="w3-row">

        </div>
        <footer class="w3-light-grey w3-padding-64 w3-center">
            {{#if message}}
            <div style="text-align: center" class="alert
alert-{{message.type}}">
                <button type="button" class="close"
data-dismiss="alert">&times;</button>
                <strong>{{message.intro}}</strong> {{message.message}}
            </div>
            {{/if}}
            <div class="row">
                <div class="col-md-3">

                </div>
                <div class="col-md-6 main">
                    <form action="/sign_up" method="POST">
                        <h2>STUDENT REGISTRATION</h2>
                        <input type="text" class="box" id="name"
name="name" placeholder="Name" required />
                        <br>
                        <input type="text" class="box" id="email"
name="email" placeholder="Email" required />
                        <br>

```

```

        <input type="text" class="box" id="rno"
name="rno" placeholder="Roll No" required />
        <br>
        <input type="password" class="box"
id="password" name="password" placeholder="Password" required />
        <br>
        <input type="submit" value="Submit" id="submit"
/>
    </form>
</div>
<div class="col-md-3">
</div>
</div>
<br>
<p> <a href="/" class="w3-hover-text-green">RETURN TO HOME</a></p>
</footer>
</div>

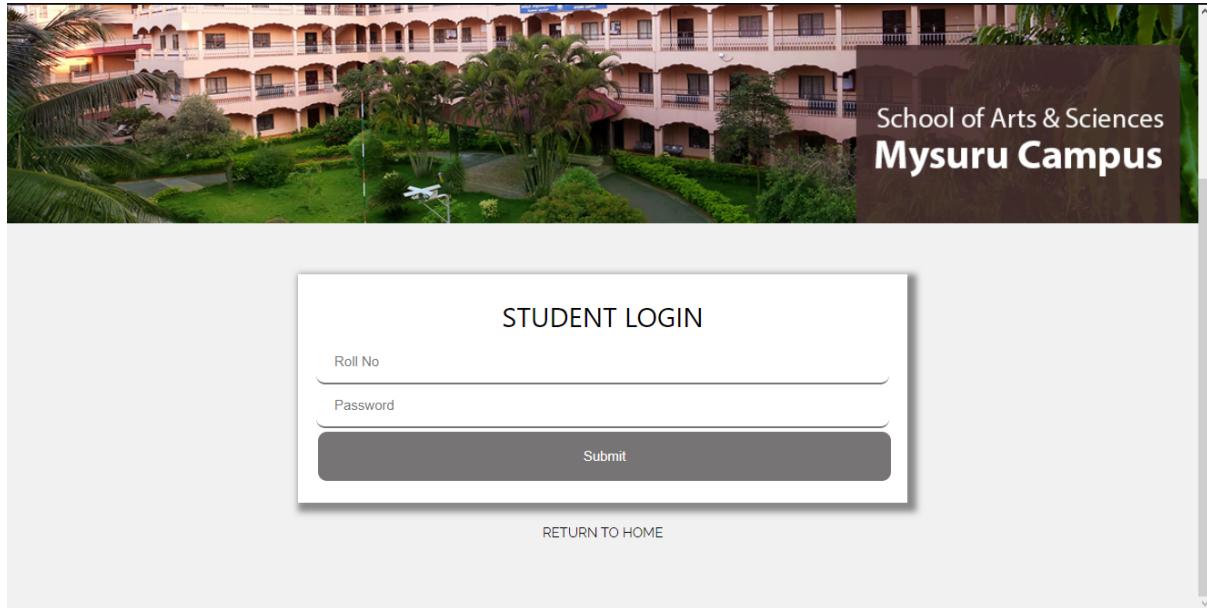
</body>

</html>

```

LOGIN:

The screenshot shows a web-based student login interface. At the top, there's a red navigation bar with the university's logo on the left and 'SIGN UP' and 'HOME' links on the right. The main content area features a photograph of a large, multi-story building complex with multiple levels and balconies, identified as the 'School of Arts & Sciences Mysuru Campus'. Overlaid on the bottom right of the image is a dark rectangular box containing the text 'School of Arts & Sciences' on one line and 'Mysuru Campus' on the next. Below the image is a white rectangular form. Inside this form, the words 'STUDENT LOGIN' are centered at the top. Below them is a single input field with the placeholder text 'Roll No'.



HBS:"login.hbs"

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="css/styles.css">

    <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
    <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">
```

```

<style>
body {font-family: "Raleway", Arial, sans-serif}
.w3-row img {margin-bottom: -8px}
</style>

</head>

<body>

<div class="w3-content" style="max-width:1500px">
    <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
        

        <a href="/" class="w3-right w3-button"
style="background-color: #a4123f; color: #fdfdfd;">HOME</a>
        <a href="/sig" class="w3-right w3-button"
style="background-color: #a4123f; color: #fdfdfd;">SIGN UP</a>
    </header>
    <div class="w3-row">

    </div>

    <footer class="w3-light-grey w3-padding-64 w3-center">
        {{#if message}}
            <div style="text-align: center" class="alert
alert-{{message.type}}">
                <button type="button" class="close"
data-dismiss="alert">&times;</button>
                <strong>{{message.intro}}</strong> {{message.message}}
            </div>
        {{/if}}
        <div class="row">
            <div class="col-md-3">

            </div>
            <div class="col-md-6 main">

```

```

        <form action="/login" method="POST">
            <h2>STUDENT LOGIN</h2>
            <input type="text" class="box" id="rno"
name="rno" placeholder="Roll No" required />
            <br>
            <input type="password" class="box"
id="password" name="password" placeholder="Password" required />
            <br>
            <input type="submit" value="Submit" id="submit"
/>
        </form>
    </div>
    <div class="col-md-3">
    </div>
    </div>
    <br>
    <p> <a href="/" class="w3-hover-text-green">RETURN TO HOME</a></p>
</footer>
</div>

</body>

</html>

```

STUDENT-HOME:

WELCOME mahith ROLL-NUMBER: my.sc.p2mca20004

EVENT	MANAGEMENT	STATUS
KRISHNA JANMASTAMI	CELEBRATION	ONGOING
PYTHON WORK-SHOP	HANDS ON WORKSHOP	POSTPONED
CLASS TEST 1	INTERNAL	SCDULED
ADVANCE AI	WEB-NAR	SCDULED
PERIODICAL I	ONLINE EXAM	SCDULED
AMRITA FEST	ONLINE FEST	UN-SCDULED

EVENT OVER-VIEW

EVENT	MANAGEMENT	STATUS
KRISHNA JANMASTAMI	CELEBRATION	ONGOING
PYTHON WORK-SHOP	HANDS ON WORKSHOP	POSTPONED
CLASS TEST 1	INTERNAL	SCDULED
ADVANCE AI	WEB-NAR	SCDULED
PERIODICAL I	ONLINE EXAM	SCDULED
AMRITA FEST	ONLINE FEST	UN-SCDULED
AMMA'S BIRTHDAY	OFFLINE PROGRAM	PROGRAMMED
PERIODICAL II	ONLINE EXAM	UN-SCDULED
PERIODICAL III	ONLINE EXAM	UN-SCDULED
END SEM-EXAM	ONLINE EXAM	UN-SCDULED

AMMA:

"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."

HBS:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="css/styles1.css">

    <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
    <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">

    <style>
        body {font-family: "Raleway", Arial, sans-serif}
    </style>
```

```

.w3-row img {margin-bottom: -8px}
</style>

</head>

<body>

<div class="w3-content" style="max-width:1500px">
    <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
        

        <div class="dropdown">
            <button class="dropbtn">MENU</button>
            <div class="dropdown-content">
                <a href="/pc">CHANGE-PASSWORD</a>
                <a href="/ss">MARKS</a>
                <a href="/">LOGOUT</a>
            </div>
        </div>

        <a href="#" class=" w3-button " style="background-color:
#a4123f; color: #fdfdfd;">HOME</a>
        <a href="/ss" class=" w3-button " style="background-color:
#a4123f; color: #fdfdfd;">SUBJECTS</a>

    </header>
    <div class="w3-row w3-padding-large w3-padding-32"
style="background-color: rgb(255, 255, 255);">
        

        <br>
        <br>

        <br>
        <h3>WELCOME {{data.name}} ROLL-NUMBER: {{data.Roll_no}}</h3>

<h1>_____</h1>

```

```
<br>

<h1>EVENT OVER-VIEW</h1>
<table id="customers">
  <tr>
    <th>EVENT</th>
    <th>MANAGEMENT</th>
    <th>STATUS</th>
  </tr>
  <tr>
    <td>KRISHNA JANMASTAMI</td>
    <td>CELEBRATION</td>
    <td>ONGOING</td>
  </tr>
  <tr>
    <td>PYTHON WORK-SHOP</td>
    <td>HANDS ON WORKSHOP</td>
    <td>POSTPONED</td>
  </tr>
  <tr>
    <td>CLASS TEST 1</td>
    <td>INTERNAL</td>
    <td>SCUDLED</td>
  </tr>
  <tr>
    <td>ADVANCE AI</td>
    <td>WEB-NAR</td>
    <td>SCDULED</td>
  </tr>
  <tr>
    <td>PERIODICAL I</td>
    <td>ONLINE EXAM</td>
    <td>SCDULED</td>
  </tr>
  <tr>
    <td>AMRITA FEST</td>
    <td>ONLINE FEST</td>
    <td>UN-SCDULED</td>
  </tr>
  <tr>
    <td>AMMA' BIRTHDAY</td>
    <td>OFFLINE PROGRAM</td>
    <td>PROGRAMMED</td>
  </tr>
```

```
</tr>
<tr>
<td>PERIODICAL II</td>
<td>ONLINE EXAM</td>
<td>UN-SCDULED</td>
</tr>
<tr>
<td>PERIODICAL III</td>
<td>ONLINE EXAM</td>
<td>UN-SCDULED</td>
</tr>
<tr>
<td>END SEM-EXAM</td>
<td>ONLINE EXAM</td>
<td>UN-SCDULED</td>
</tr>
</table>
<br>
<H6>AMMA:</H6>
<p>"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."</p>
</div>

</div>

</body>

</html>
```

CHANGE-PASSWORD

The screenshot shows a web application interface for changing a password. At the top, there is a header bar with the Amrita Vishwa Vidyapeetham logo, navigation links for 'HOME' and 'SUBJECTS', and a 'MENU' button. Below the header, a sub-header displays the user's name and roll number: 'NAME: mahith || ROLL-NUMBER: my.sc.p2mca20004'. The main content area is titled 'CHANGE-PASSWORD' and contains three input fields: 'Old-Password', 'New-Password', and 'Conform-Password'. A large 'Submit' button is positioned at the bottom of the form.

HBS:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="css/styles1.css">

    <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
    <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">

<style>
body {font-family: "Raleway", Arial, sans-serif}
```

```
.w3-row img {margin-bottom: -8px}
</style>

</head>

<body>

<div class="w3-content" style="max-width:1500px">
    <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
        

        <div class="dropdown">
            <button class="dropbtn">MENU</button>
            <div class="dropdown-content">
                <a href="#">CHANGE-PASSWORD</a>
                <a href="/ss">MARKS</a>
                <a href="/">LOGOUT</a>
            </div>
        </div>

        <a href="/sh" class=" w3-button " style="background-color:
#a4123f; color: #fdfdfd;">HOME</a>
        <a href="/ss" class=" w3-button " style="background-color:
#a4123f; color: #fdfdfd;">SUBJECTS</a>

    </header>
    <div class="w3-row w3-padding-large w3-padding-32"
style="background-color: rgb(255, 255, 255);">
        

        <br>
        <br>

        <br>
        <h3>NAME: {{data.name}} || ROLL-NUMBER:
{{data.Roll_no}} </h3>

<h1>_____
</h1>
```

```
<br>
<div class="w3-light-grey w3-padding-64 w3-center">
{{#if message}}
    <div style="text-align: center" class="alert alert-{{message.type}}">
        <button type="button" class="close"
data-dismiss="alert">&times;</button>
        <strong>{{message.intro}}</strong>
{{message.message}}
    </div>
{{/if}}
<div class="row">
    <div class="col-md-3">

    </div>
    <div class="col-md-6 main">
        <form action="/chps" method="POST">
            <h2>CHANGE-PASSWORD</h2>
            <input type="password" class="box"
id="O_password" name="O_password" placeholder="Old-Password" required
/>
            <br>
            <input type="password" class="box"
id="N_password" name="N_password" placeholder="New-Password" required
/>
            <br>
            <input type="password" class="box"
id="C_password" name="C_password" placeholder="Conform-Password"
required />
            <br>
            <input type="submit" value="Submit"
id="submit" />
        </form>
    </div>
    <div class="col-md-3">
    </div>
</div>
<br>
<H6>AMMA:</H6>
<P>"Be like the honeybee who gathers only nectar
wherever it goes. Seek the goodness that is found in everyone."</P>
</div>
```

```

        </div>

</body>

</html>

```

SUBJECT: AFTER ADMIN UPDATES GRADE



HOME SUBJECTS

MENU



NAME: mahith | ROLL-NUMBER: my.sc.p2mca20004

SUBJECT	SUBJECT-CODE	MARKS
ADVANCE JAVA	20CSA501	A
PYTHON	20CSA502	A
DATA MINING	20CSA503	B
ADVANCE AI	20CSA504	B
MEAN STAKES	20CSA505	A

AMMA:

"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."

BEFORE ADMIN UPDATES GRADE



HOME SUBJECTS

MENU



NAME: david | ROLL-NUMBER: my.sc.p2mca20003

SUBJECT	SUBJECT-CODE	MARKS
ADVANCE JAVA	20CSA501	np
PYTHON	20CSA502	np
DATA MINING	20CSA503	np
ADVANCE AI	20CSA504	np
MEAN STAKES	20CSA505	np

AMMA:

"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."

HBS:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="css/styles1.css">

    <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
    <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">

    <style>
        body {font-family: "Raleway", Arial, sans-serif}
        .w3-row img {margin-bottom: -8px}
    </style>

</head>

<body>

    <div class="w3-content" style="max-width:1500px">
        <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
            

            <div class="dropdown">
```

```

        <button class="dropbtn">MENU</button>
        <div class="dropdown-content">
            <a href="/pc">CHANGE-PASSWORD</a>
            <a href="/ss">MARKS</a>
            <a href="/">LOGOUT</a>
        </div>
    </div>

        <a href="/sh" class=" w3-button " style="background-color:
#4123f; color: #fdfdfd;">HOME</a>
        <a href="#" class=" w3-button " style="background-color:
#4123f; color: #fdfdfd;">SUBJECTS</a>

    </header>
    <div class="w3-row w3-padding-large w3-padding-32"
style="background-color: rgb(255, 255, 255);>
        

        <br>
        <br>

        <br>
        <h3>NAME: {{data.name}} | ROLL-NUMBER: {{data.Roll_no}}
</h3>

<h1>_____</h1>
        <br>
        <table id="customers">
            <tr>
                <th>SUBJEST</th>
                <th>SUBJECT-CODE</th>
                <th>MARKS</th>
            </tr>
            <tr>
                <td>ADVANCE JAVA</td>
                <td>20CSA501</td>
                <td>{{data.m1}}</td>
            </tr>
            <tr>
                <td>PYTHON</td>
                <td>20CSA502</td>

```

```
        <td>{{data.m2}}</td>
    </tr>
    <tr>
        <td>DATA MINING</td>
        <td>20CSA503</td>
        <td>{{data.m3}}</td>
    </tr>
    <tr>
        <td>ADVANCE AI</td>
        <td>20CSA504</td>
        <td>{{data.m4}}</td>
    </tr>
    <tr>
        <td>MEAN STAKES</td>
        <td>20CSA505</td>
        <td>{{data.m5}}</td>
    </tr>
</table>

<br>
<h6>AMMA:</h6>
<p>"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."</p>

</div>

</div>

</body>

</html>
```

ADMIN-HOME:

The screenshot shows the Amrita University Management System Admin Home page. At the top, there is a header with the Amrita Vishwa Vidyapeetham logo and the text "STUDENT DETAILS". On the right side of the header is a "MENU" button. Below the header, there is a logo for "Amrita University Management System" featuring a stylized orange and white design. The main content area is titled "ADMIN ACCOUNT" and contains a table with student information. The table has columns for NAME, EMAIL, ROLL-NUMBER, EDIT, and DELETE. The data in the table is as follows:

NAME	EMAIL	ROLL-NUMBER	EDIT	DELETE
adam	adam@gmail.com	my.sc.p2mca20001		
eve	eve@gmail.com	my.sc.p2mca20002		
david	david@gmail.com	my.sc.p2mca20003		
mahith	mat@gogolo.com	my.sc.p2mca20004		

Below the table, there is a section titled "AMMA:" with the quote: "Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."

HBS:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="css/styles1.css">

    <link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.css">
    <link href="https://fonts.googleapis.com/css?family=Raleway"
rel="stylesheet" type="text/css">

    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
```

```
<style>
body {font-family: "Raleway", Arial, sans-serif}
.w3-row img {margin-bottom: -8px}
</style>

</head>

<body>

<div class="w3-content" style="max-width:1500px">
    <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
        

        <div class="dropdown">
            <button class="dropbtn">MENU</button>
            <div class="dropdown-content">

                <a href="/">LOGOUT</a>
            </div>
        </div>

        <a href="#" class=" w3-button " style="background-color:
#a4123f; color: #fdfdfd;">STUDENT DETAILS</a>
    </header>
    <div class="w3-row w3-padding-large w3-padding-32"
style="background-color: rgb(255, 255, 255);">
        

        <br>
        <br>

        <br>
        <h3>ADMIN ACCOUNT </h3>
    </div>
</body>
```

```

<h1>_____
</h1>
<br>
<table id="customers">
  <tr>
    <th>NAME</th>
    <th>EMAIL</th>
    <th>ROLL-NUMBER</th>
    <th>EDIT</th>
    <th>DELETE</th>
  </tr>
  {{#each data}}
  <tr>
    <td>{{this.name}}</td>
    <td>{{this.email}}</td>
    <td>{{this.Roll_no}}</td>
    <td><a href="/marks_update/{{this.Roll_no}}"><i class="fa fa-pencil fa-lg" aria-hidden="true"></i></a></td>
      <td><a href="/del/{{this.Roll_no}}"
      onclick="return confirm('are you sure u want to delete this student?')"><i class="fa fa-trash fa-lg" aria-hidden="true"></i></a></td>
    </tr>
  {{/each}}
</table>

<br>
<H6>AMMA:</H6>
<P>"Be like the honeybee who gathers only nectar wherever it goes. Seek the goodness that is found in everyone."</P>

</div>

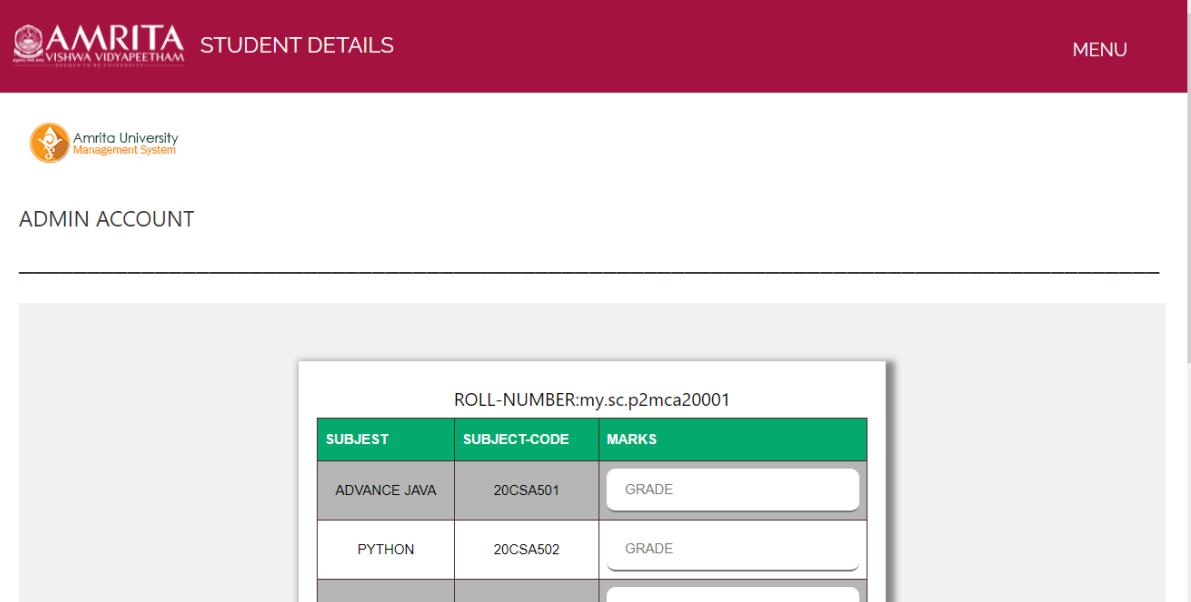
</div>

</body>

</html>

```

MARKS-INSERT:



STUDENT DETAILS

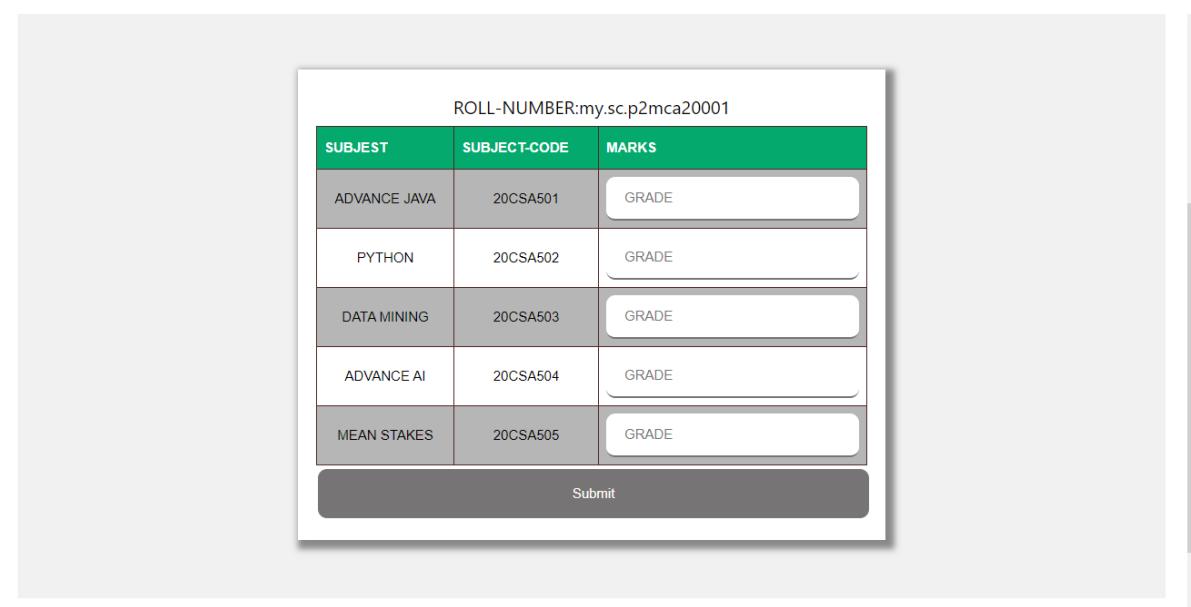
MENU

Amrita University Management System

ADMIN ACCOUNT

ROLL-NUMBER:my.sc.p2mca20001

SUBJECT	SUBJECT-CODE	MARKS
ADVANCE JAVA	20CSA501	GRADE
PYTHON	20CSA502	GRADE



ROLL-NUMBER:my.sc.p2mca20001

SUBJECT	SUBJECT-CODE	MARKS
ADVANCE JAVA	20CSA501	GRADE
PYTHON	20CSA502	GRADE
DATA MINING	20CSA503	GRADE
ADVANCE AI	20CSA504	GRADE
MEAN STAKES	20CSA505	GRADE

Submit

HBS:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login Form - Amrita</title>
```

```
<link rel="stylesheet"
      href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
      integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">

      <link rel="stylesheet" type="text/css" href="css/styles1.css">

      <link rel="stylesheet"
            href="https://www.w3schools.com/w3css/4/w3.css">
      <link href="https://fonts.googleapis.com/css?family=Raleway"
            rel="stylesheet" type="text/css">

<style>
body {font-family: "Raleway", Arial, sans-serif}
.w3-row img {margin-bottom: -8px}
</style>

</head>

<body>

      <div class="w3-content" style="max-width:1500px">
          <header class="w3-container w3-xlarge w3-padding-24"
style="background-color: #a4123f;">
              

              <div class="dropdown">
                  <button class="dropbtn">MENU</button>
                  <div class="dropdown-content">
                      <a href="/">LOGOUT</a>
                  </div>
              </div>

              <a href="/admin" class=" w3-button "
style="background-color: #a4123f; color: #fdfdfd;">STUDENT DETAILS</a>
      </header>

```

```
</header>

    <div class="w3-row w3-padding-large w3-padding-32"
style="background-color: rgb(255, 255, 255);">
        

        <br>
        <br>

        <br>
        <h3>ADMIN ACCOUNT </h3>

<h1>_____</h1>
<br>
<div class="w3-light-grey w3-padding-64 w3-center">
    <div class="row">
        <div class="col-md-3">

            </div>
            <div class="col-md-6 main">
                <form action="/marksup" method="POST">
                    <h4>ROLL-NUMBER: {{data.Roll_no}}</h4>
                    <table id="customers">
                        <tr>
                            <th>SUBJECT</th>
                            <th>SUBJECT-CODE</th>
                            <th>MARKS</th>
                        </tr>
                        <tr>
                            <td>ADVANCE JAVA</td>
                            <td>20CSA501</td>
                            <td><input type="text" class="box" id="m1" name="m1" placeholder="GRADE" required /></td>
                        </tr>
                        <tr>
                            <td>PYTHON</td>
                            <td>20CSA502</td>
                            <td><input type="text" class="box" id="m2" name="m2" placeholder="GRADE" required /></td>
                        </tr>
                    <tr>

```

```

        <td>DATA MINING</td>
        <td>20CSA503</td>
        <td><input type="text" class="box" id="m3"
name="m3" placeholder="GRADE" required /></td>
    </tr>
    <tr>
        <td>ADVANCE AI</td>
        <td>20CSA504</td>
        <td><input type="text" class="box" id="m4"
name="m4" placeholder="GRADE" required /></td>
    </tr>
    <tr>
        <td>MEAN STAKES</td>
        <td>20CSA505</td>
        <td><input type="text" class="box" id="m5"
name="m5" placeholder="GRADE" required /></td>
    </tr>
</table>
<input type="submit" value="Submit" id="submit" />
</form>
</div>
</div>
</div>
<br>
<H6>AMMA:</H6>
<P>"Be like the honeybee who gathers only nectar
wherever it goes. Seek the goodness that is found in everyone."</P>

</div>

</div>

</body>

</html>
```

BACK-END:

IMPORTING DEPENDENCY:

```
const express = require('express')
const cookieParser = require('cookie-parser')
const session = require('express-session')
const bodyParser = require('body-parser')
const mongoose = require('mongoose');
const port = process.env.port || 3000
const app = express()
```

INITIALIZING DB:

```
mongoose.connect('mongodb://localhost:27017/mydb', {
    useNewUrlParser: true,
    useUnifiedTopology: true
});

var db = mongoose.connection;

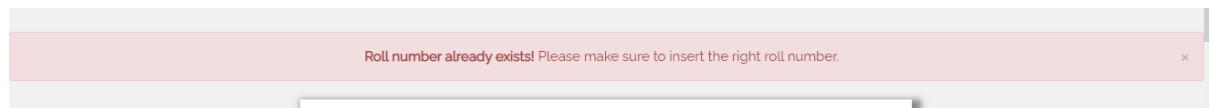
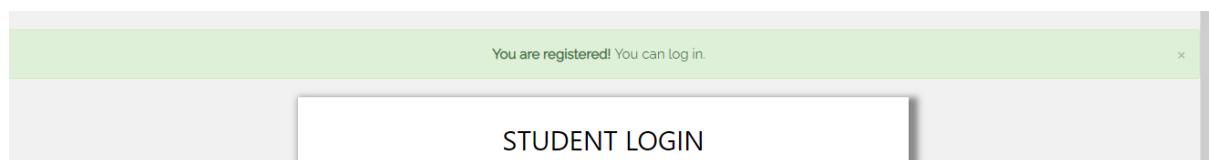
db.on('error', ()=>console.log("Error in Connecting to Database"));
db.once('open', ()=>console.log("Connected to Database"))
```

SETTING TEMPLATE ENGINE:

```
app.set('view engine', 'hbs')
```

MESSAGE-SYSTEM:

```
app.use((req, res, next)=>{
    res.locals.message = req.session.message
    delete req.session.message
    next()
})
```



APP USE:

```
app.use(express.static('public'))
app.use(bodyParser.urlencoded({extended: false}))
app.use(bodyParser.json())
app.use(cookieParser('secret'))
app.use(session({cookie: {maxAge: null}}))
```

GLOBAL VAR:

```
var temp_data;
var data_display;
var admin_data;
var mark_up;
```

REGISTER STUDENT:

```
app.post("/sign_up", (req,res)=>{
    var name = req.body.name;
    var email = req.body.email;
    var rno = req.body.rno;
    var password = req.body.password;
    var pass;

    db.collection('users').findOne({ "Roll_no": rno
},(error,collection)=>{
    if(error){
        console.log(error)
    }
    try{
        pass=collection.name;
        console.log("Record Inserted failed");
        console.log(pass);
        console.log(rno);
        console.log("Record found Successfully");

        req.session.message= {
            type: 'danger',
            intro: 'Roll number already exists! ',
            message: 'Please make sure to insert the right roll
number.'
        }
    }

    res.redirect("/sig")
```

```
        }

    catch{

        var data = {
            "name": name,
            "email" : email,
            "Roll_no": rno,
            "password" : password,
            "m1" : "np",
            "m2" : "np",
            "m3" : "np",
            "m4" : "np",
            "m5" : "np"
        }

        db.collection('users').insertOne(data, (err, collection)=>{
            if(err){
                throw err;
            }
            console.log("Record Inserted Successfully");
            req.session.message= {
                type: 'success',
                intro: 'You are registered! ',
                message: 'You can log in.'
            }

            res.redirect("/log")
        });
    }

    // return res.redirect('signup_success.html')
})

})
```

LOGIN:

```
app.post("/login", (req, res) => {

    var rno = req.body.rno;
    var password = req.body.password;
    var pass;

    if(rno=="admin" && password=="admin")
    {
        db.collection('users').find({}).toArray((err, collection) =>{
            if(err){
                throw err;
            }
            try{
                admin_data=collection;
                console.log(collection)
                console.log('records successfully found!!!')

            }
            catch{
                console.log('records couldnt be found found!!!')
            }
        })
        res.redirect("/admin")
    }
    else
    {
        db.collection('users').findOne({ "Roll_no": rno }, (error, collection) =>{
            if(error){
                console.log(error)
            }
            try{
                pass=collection.password;
                data_display=collection;
                console.log(pass);
                console.log(password);
                console.log("Record found Successfully");
                console.log(data_display);
            }
        })
    }
})
```

```
if(pass==password)
{
    // return res.redirect('login_success.html')
    req.session.message= {
        type: 'success',
        intro: 'You have loged in! ',
        message: 'successfully loged in.'
    }
    console.log('success')
    temp_data=collection.name;
    console.log(temp_data)
    res.redirect("/sh")
}
else
{
    // return res.redirect('unsuccess.html')
    req.session.message = {
        type: 'danger',
        intro: 'Passwords do not match! ',
        message: 'Please make sure to insert the right password.'
    }
    console.log('fail')
    res.redirect("/log")
}
}
catch{

    req.session.message = {
        type: 'danger',
        intro: 'Roll-number do not match! ',
        message: 'Please make sure to insert the right
Roll-number.'
    }
    console.log('fail')
    res.redirect("/log")
}
}
});
```

CHANGE-PASS:

```
app.post("/chps", (req,res)=>{
    var op = req.body.O_password;
    var np = req.body.N_password;
    var cp = req.body.C_password;
    var dt={Roll_no:data_display.Roll_no}
    var up={password:np}

    if(op==data_display.password && np==cp)
    {
        db.collection('users').updateOne(dt,{ $set:{password:np}});

        req.session.message= {
            type: 'success',
            intro: 'Password changed! ',
            message: 'successfully Changed.'
        }

        console.log("op:"+op+" || "+data_display.password)
        console.log(np+" || "+cp)
        res.redirect("/pc")
    }

    else
    {
        req.session.message= {
            type: 'danger',
            intro: 'Password do not match! ',
            message: 'Please make sure to insert the right password.'
        }

        console.log("rongh credentials")
        res.redirect("/pc")
    }
})
```

UPDATE-MARKS:

```
app.get("/md", (req,res)=>{
    res.render("marks", {
        data:mark_up,
    });
})
```

```
app.get("/marks_update/:id", (req,res)=>{
    console.log(req.params.id)
    db.collection('users').findOne({ "Roll_no": req.params.id
}, (error,collection)=>{
    if(error){
        console.log(error)
    }
    try{
        mark_up=collection;
        console.log(mark_up);
        console.log("Record found Successfully");
        res.redirect('/md')
    }
    catch{
        console.log("Record found UnSuccessfully");
    }
})

})

app.post("/marksup", (req,res)=>{
    var ma1 =req.body.m1;
    var ma2 =req.body.m2;
    var ma3 =req.body.m3;
    var ma4 =req.body.m4;
    var ma5 =req.body.m5;
    var dt ={ Roll_no:mark_up.Roll_no}

    try{
        db.collection('users').updateOne(dt,{ $set:{ 
            m1:ma1,
            m2:ma2,
            m3:ma3,
            m4:ma4,
            m5:ma5
        }});
        console.log('update successfull!!!!')
        mark_up="null";
    }
})
```

```

        res.redirect("/admin")
    }
    catch{
    }
    console.log('update Unsuccessfull!!!!')
})

```

STUDENT-DATA-DELETE:

```

app.get("/del/:id", (req,res)=>{
    console.log(req.params.id)
    try{
        db.collection('users').deleteOne({Roll_no:req.params.id})
        console.log('DELETE SUCCESSFULL!!!!')

        db.collection('users').find({}).toArray((err,collection)=>{
            if(err){
                throw err;
            }
            try{
                {
                    admin_data=collection;
                    console.log(collection)
                    console.log('records successfully found!!!!')

                }
                catch{
                {
                    console.log('records couldnt be found found!!!!')
                }
            }
        })
        res.redirect("/admin")

    }
    catch{
        console.log('DELETE UNSUSSFULL!')
    }
})

```

HBS CALL:

```
app.get("/pc", (req,res)=>{
    res.render("ch_pass", {
        data : data_display,
    }) ;
})

app.get("/log", (req,res)=>{
    res.render("login");
})

app.get("/sig", (req,res)=>{
    res.render("register");
})

app.get("/sh", (req,res)=>{
    res.render("stud_home", {
        stud_name:temp_data,
        data:data_display,
    })
})
})

app.get("/ss", (req,res)=>{
    res.render("stud_sub", {
        data:data_display,
    })
})
})

app.get("/admin", (req,res)=>{
    console.log('succ')
    res.render("admin", {
        data : admin_data,
    });
})

app.get("/", (req,res)=>{
    temp_data="null";
    data_display="null";
    console.log(data_display)
    res.render("index");
})
```

```
app.listen(port, ()=>{
    console.log('accuired port number is '+ port)
})
```

CONCLUSION:

THIS IS A MODEL OF AUMS DEVELOPED IN A WAY IT CAN DO BASIC THINGS USING NODE-JS, MONGODB, HBS AND EXPRESS-JS.

TO SEE HTML VERSION CHECK MY GITHUB:

https://github.com/mahith99/register_and_login_form_nodejs_mongodb_html

BOOTSTRAP:

<https://www.w3schools.com/w3css/default.asp>

CODE FOR THIS PROJECT:

https://github.com/mahith99/COMPLETE_COLLAGE_SYSTEM_USING_NODEJS_AND_MONGODB_USING_HBS