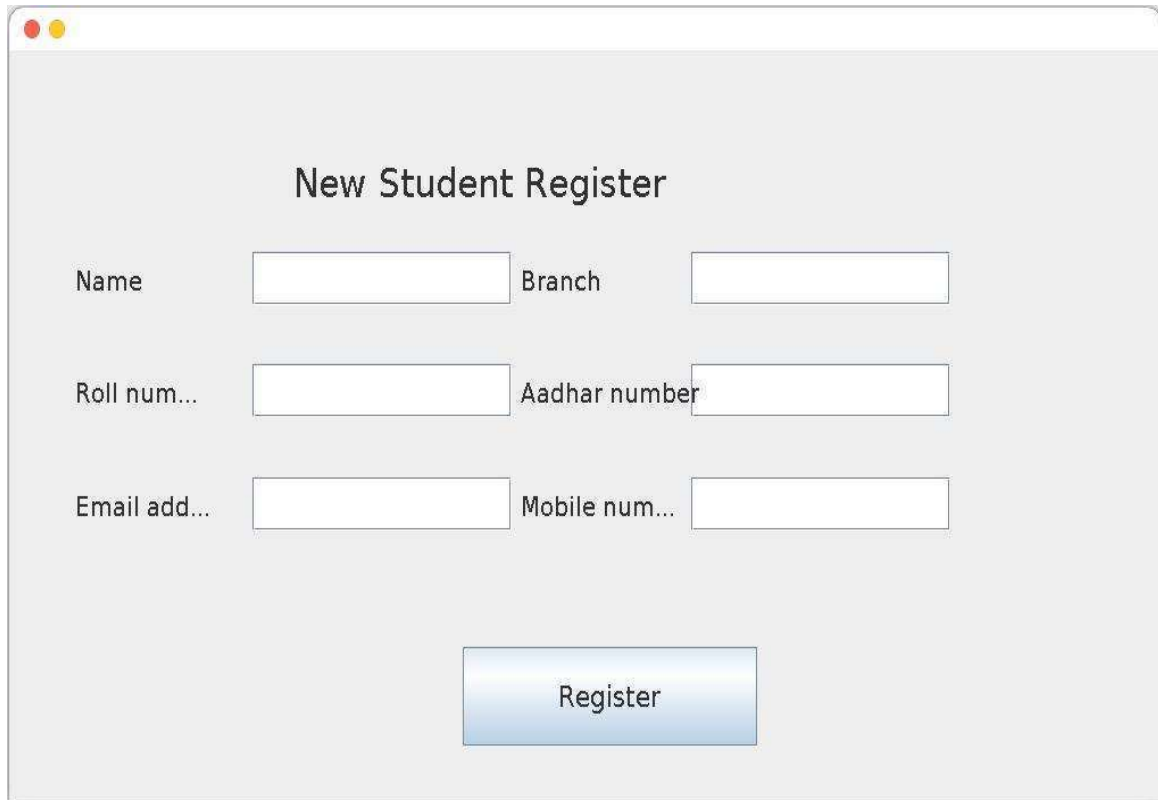


## USER INTERFACE

### REGISTRATION

Whenever a new student joins their details can be registered using the following application and the details get automatically updated in the database.



A screenshot of a web application window titled "New Student Register". The window has a light gray background and a standard macOS-style title bar with red, yellow, and green buttons. The form contains six input fields arranged in three rows. The first row has "Name" and "Branch". The second row has "Roll num..." and "Aadhar number". The third row has "Email add..." and "Mobile num...". Below the input fields is a blue "Register" button.

Name	<input type="text"/>	Branch	<input type="text"/>
Roll num...	<input type="text"/>	Aadhar number	<input type="text"/>
Email add...	<input type="text"/>	Mobile num...	<input type="text"/>

After clicking on the register button and all the details entered are correct then the Welcome popup message gets displayed. It means that the student is registered successfully.



A screenshot of the same web application window, but with a "Message" popup dialog box displayed in the center. The popup has a white background, a gray title bar, and a blue information icon. The message text reads "Welcome, A.Nagendra" and "Sucessfully registered". Below the message is an "OK" button. In the background, the "Email add..." field contains "gmail.com" and the "Mobile num..." field contains "7888995544".

<input type="text" value="gmail.com"/>	Mobile num...	<input type="text" value="7888995544"/>
--	---------------	---

**Message**

 **Welcome, A.Nagendra**  
**Sucessfully registered**

After a student get's registered then their details are updated in the database.

```
root@nagendra-amara: /home/nagendra-amara/Desktop/DBMS

Database changed
mysql> select * from Students;
+-----+-----+-----+-----+-----+-----+
| roll_num | name      | branch | aadhar      | mobile_num | email                      |
+-----+-----+-----+-----+-----+-----+
| 320126510005 | B.Jayaram | CSE    | 633291627527 | 6305873382 | jai415546@gmail.com      |
| 321126510L05 | A.Nagendra | CSE    | 604310717984 | 9490828343 | amara.nagendhra@gmail.com |
| 321126510L10 | I.Sanjith | CSE    | 671083564773 | 7075490186 | ippilisanjith6@gmail.com  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

For all the students who are registered , their marks can be uploaded. The administrator runs the DML commands to upload the marks of the registered student.

```
mysql> insert into Externals values("320126510064",20,20,20,20,20);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> █
```

After successfully uploading the marks , the marks of the students are automatically updated in the database.

```
mysql> select * from Internals
-> ;
+-----+-----+-----+-----+-----+-----+
| roll_num | Sub1 | Sub2 | Sub3 | Sub4 | Sub5 |
+-----+-----+-----+-----+-----+-----+
| 320126510005 | 37 | 40 | 36 | 32 | 35 |
| 321126510L05 | 37 | 40 | 36 | 32 | 35 |
| 321126510L10 | 39 | 40 | 36 | 32 | 36 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> █
```

After the internal and external marks are being uploaded , semester results are computed and gets updated in the database.

```
root@nagendra-amara: /home/nagendra-amara/Desktop/DBMS

Database changed
mysql> select * from Students;
+-----+-----+-----+-----+-----+-----+
| roll_num | name | branch | aadhar | mobile_num | email |
+-----+-----+-----+-----+-----+-----+
| 320126510005 | B.Jayaram | CSE | 633291627527 | 6305873382 | jai415546@gmail.com |
| 321126510L05 | A.Nagendra | CSE | 604310717984 | 9490828343 | amara.nagendhra@gmail.com |
| 321126510L10 | I.Sanjith | CSE | 671083564773 | 7075490186 | ippilisanjith6@gmail.com |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> select * from Internals
-> ;
+-----+-----+-----+-----+-----+-----+
| roll_num | Sub1 | Sub2 | Sub3 | Sub4 | Sub5 |
+-----+-----+-----+-----+-----+-----+
| 320126510005 | 37 | 40 | 36 | 32 | 35 |
| 321126510L05 | 37 | 40 | 36 | 32 | 35 |
| 321126510L10 | 39 | 40 | 36 | 32 | 36 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> 
```

```
root@nagendra-amara: /home/nagendra-amara/Desktop/DBMS

3 rows in set (0.01 sec)

mysql> select * from Externals;
+-----+-----+-----+-----+-----+-----+
| roll_num | Sub1 | Sub2 | Sub3 | Sub4 | Sub5 |
+-----+-----+-----+-----+-----+-----+
| 321126510L05 | 52 | 50 | 49 | 55 | 56 |
| 320126510005 | 52 | 50 | 49 | 55 | 56 |
| 321126510L10 | 58 | 60 | 46 | 52 | 46 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from SemResults;
+-----+-----+-----+-----+-----+-----+
| roll_num | grade1 | grade2 | grade3 | grade4 | grade5 |
+-----+-----+-----+-----+-----+-----+
| 321126510L05 | A | O | A | A | O |
| 320126510005 | A | O | A | A | O |
| 321126510L10 | O | O | A | A | A |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> 
```