

# **FINAL YEAR PROJECT**

**ML Based Student  
Future Orientation and  
Recommendation System**

## **USER GUIDE**

# TABLE OF CONTENT

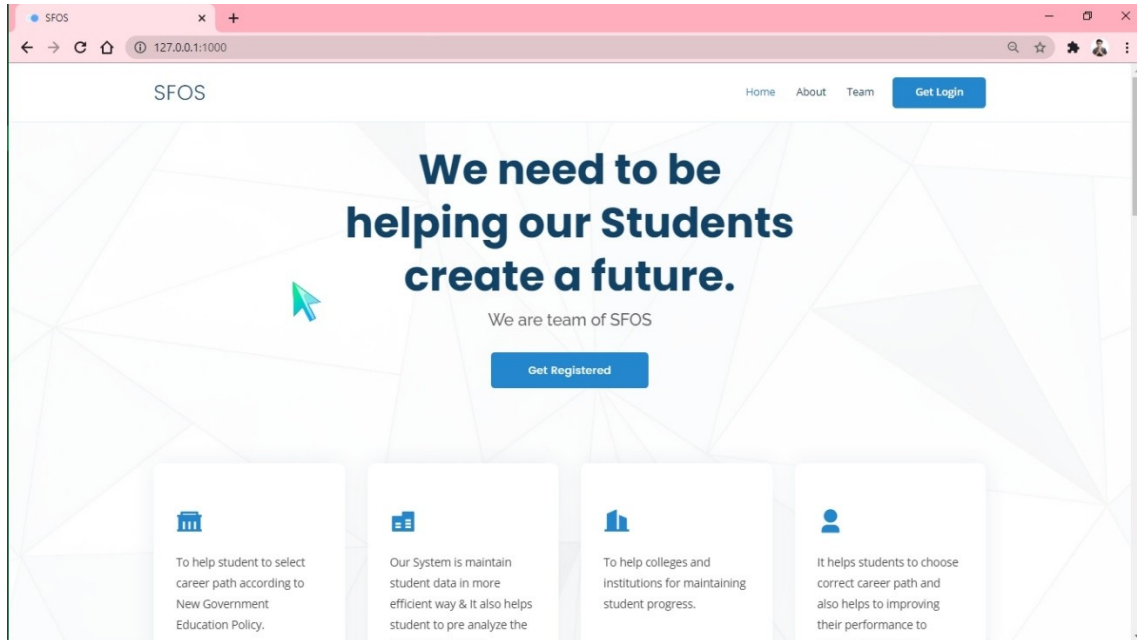
TOPIC	PAGE
<b>Admin's Interface</b>	
1. Accessing the Student Future Orientation and Recommendation System	1
2. Create a User Account	1
3. Logging In	2
4. Admin dashboard	3 – 7
• Admin Profile	
• Add student	8 – 10
• Add Subject	10 – 11
• Update Students	11 – 12
• Students Exam Data	13 – 14
• Students Details	15
• Students Promotion	16
• Students Games & Sport Data	16

## Admin Interface (Principal/HOD )

### **1. Accessing the “Student Future Orientation and Recommendation System”.**

- Open the web browser by entering the following address:

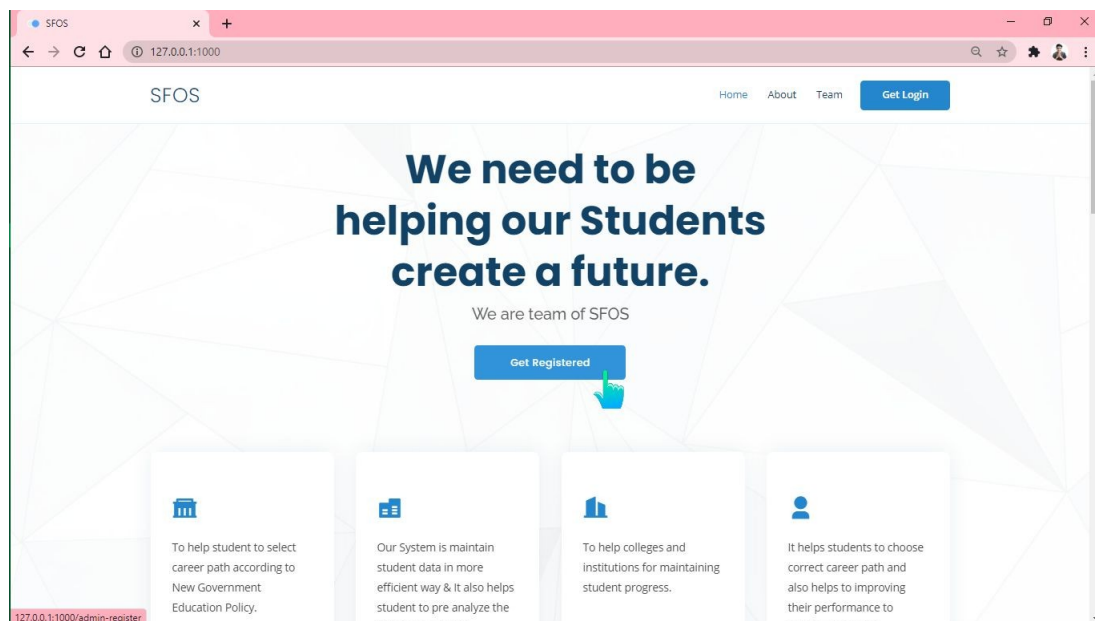
<http://127.0.0.1:1000/>



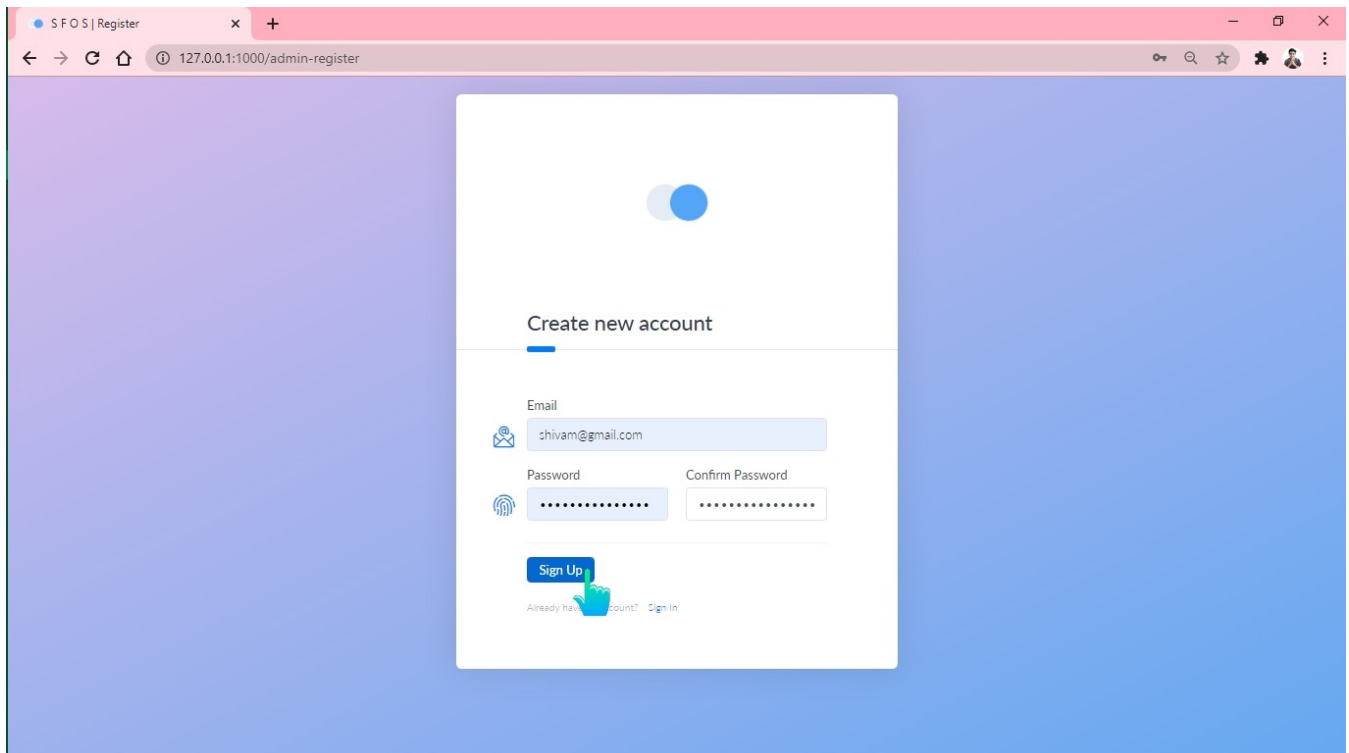
### **2. Creating a User Account.**

To Access the system and click on “**Get Register**” to register as an Admin.

Admin is a person (HOD/principal) of a particular institute. Only the Admin has right for authorization to add the students with their exam mark's as well as their skills with relevant information.

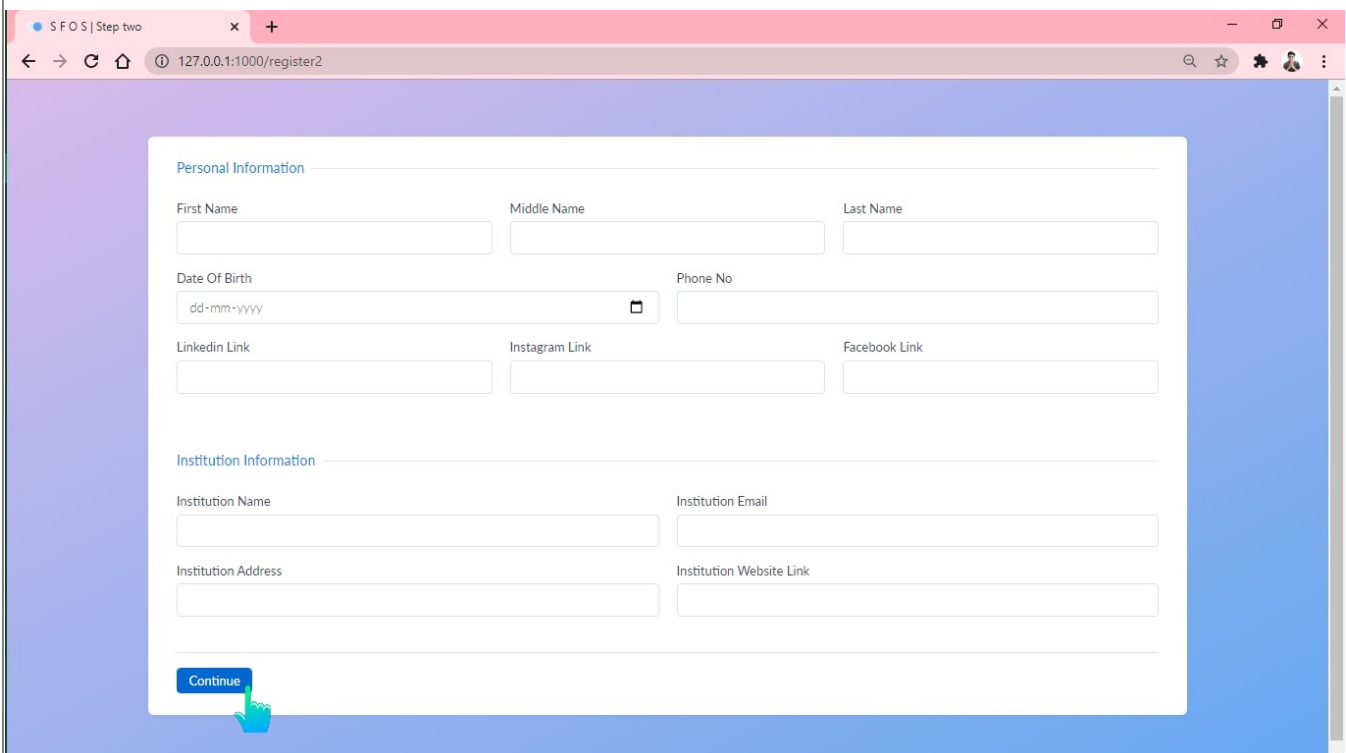


- After clicking on the link, you need to enter the following details.
- Click “Sign Up” to create your account.



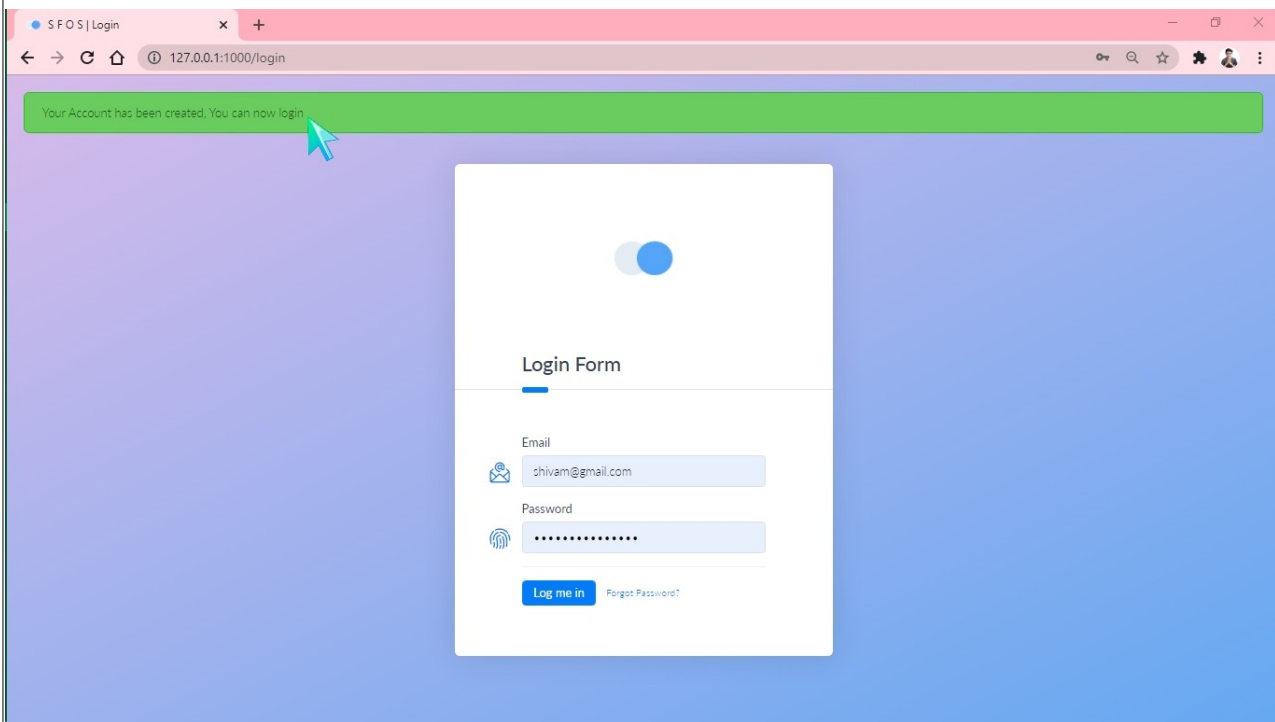
The screenshot shows a web browser window with the address bar displaying '127.0.0.1:1000/admin-register'. The page title is 'S F O S | Register'. The main content is a white card titled 'Create new account' with a blue toggle switch at the top. Below the title, there are input fields for 'Email' (containing 'chivam@gmail.com'), 'Password', and 'Confirm Password'. A blue 'Sign Up' button is positioned below the password fields. At the bottom of the card, there is a link that says 'Already have an account? Sign In' with a hand cursor icon pointing to it.

- After adding details to sign up you must fill personal information that's show in which institute you belong to and shows your authentication



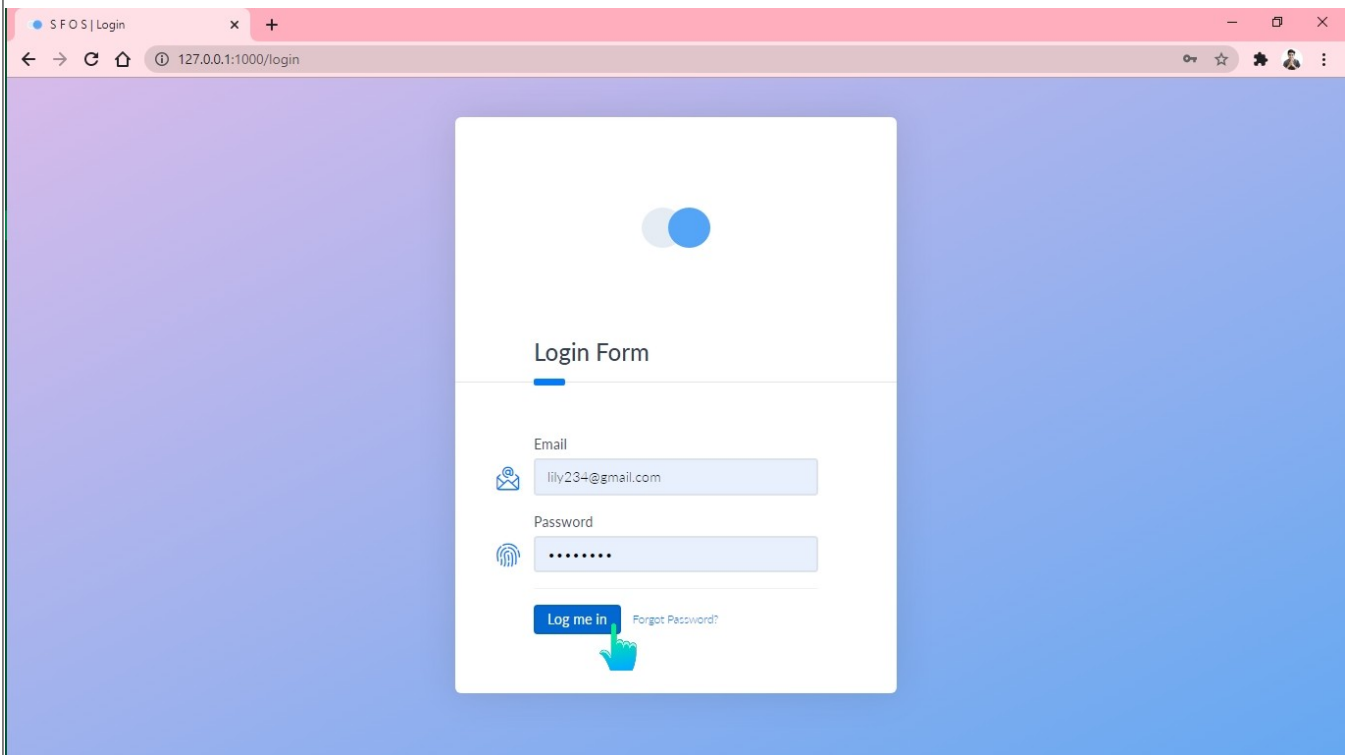
The screenshot shows a web browser window with the address bar displaying '127.0.0.1:1000/register2'. The page title is 'S F O S | Step two'. The main content is a white card with two sections: 'Personal Information' and 'Institution Information'. The 'Personal Information' section includes input fields for 'First Name', 'Middle Name', 'Last Name', 'Date Of Birth' (with a calendar icon), 'Phone No', 'Linkedin Link', 'Instagram Link', and 'Facebook Link'. The 'Institution Information' section includes input fields for 'Institution Name', 'Institution Email', 'Institution Address', and 'Institution Website Link'. A blue 'Continue' button is located at the bottom left of the card, with a hand cursor icon pointing to it.

- After Continue button clicked, pop message will appear as shown below.



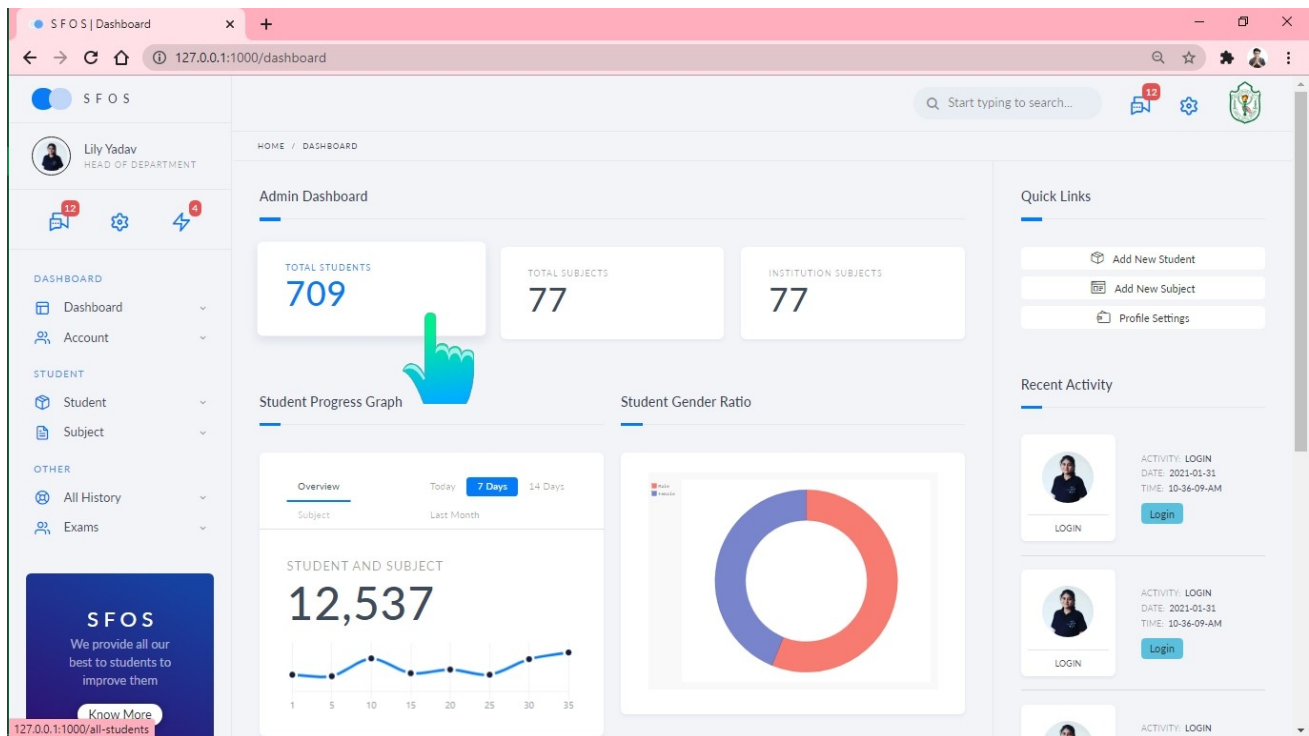
### 3. Login to System

- To log in, enter Your Email and Password in the box provided, then click “Log me In” or click “forgot password” if you don’t remember it.

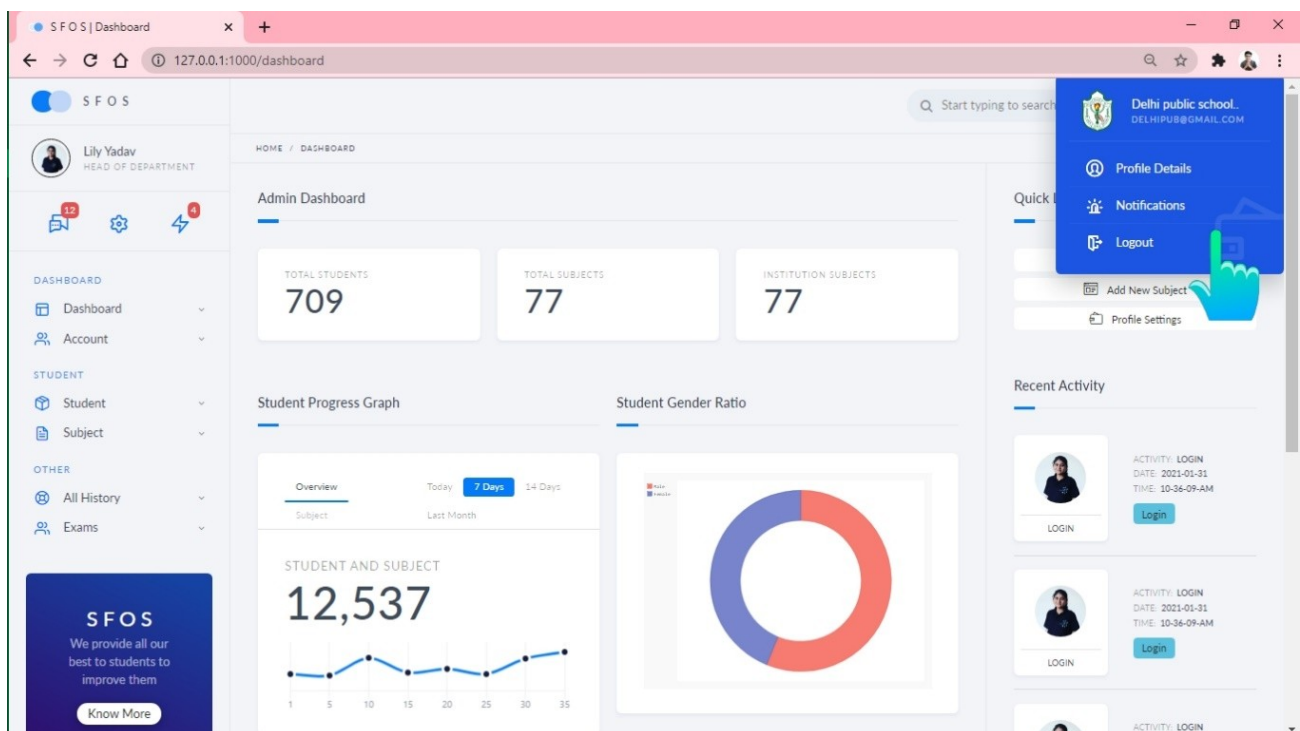


#### 4. Admin Dashboard

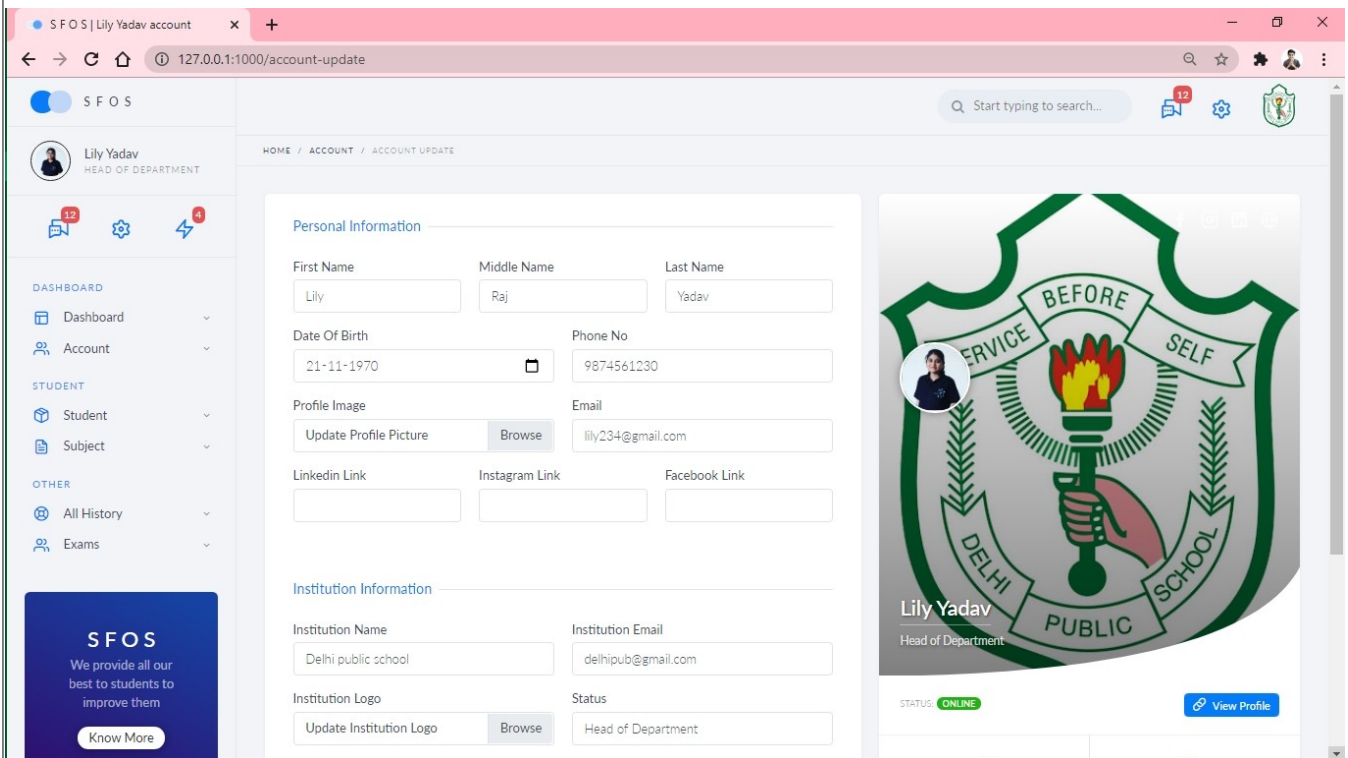
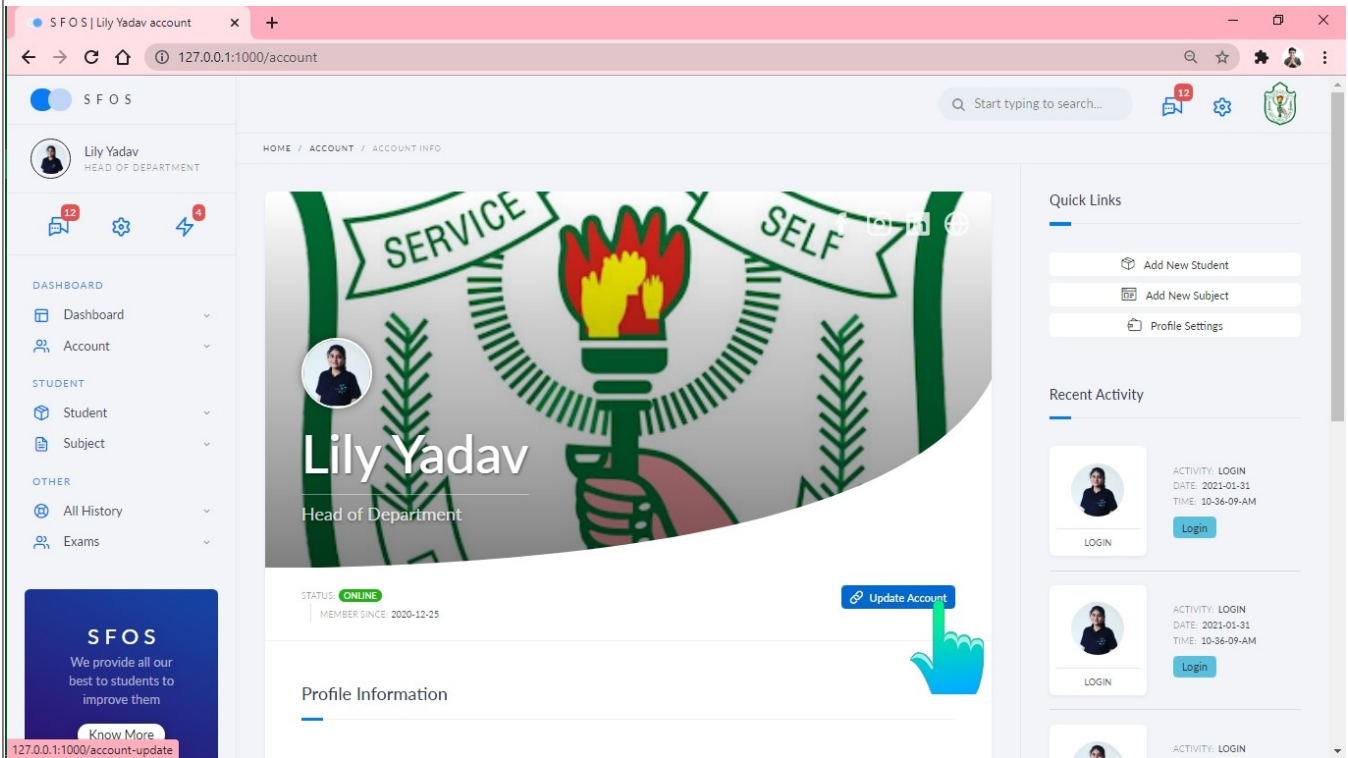
- Dashboard – In this section, it will display student's information's/details, SFOS project title and project abstract.



- On top right corner there is institute logo so on hovering institute logo Admin Profile details, notification and logout option will appear.



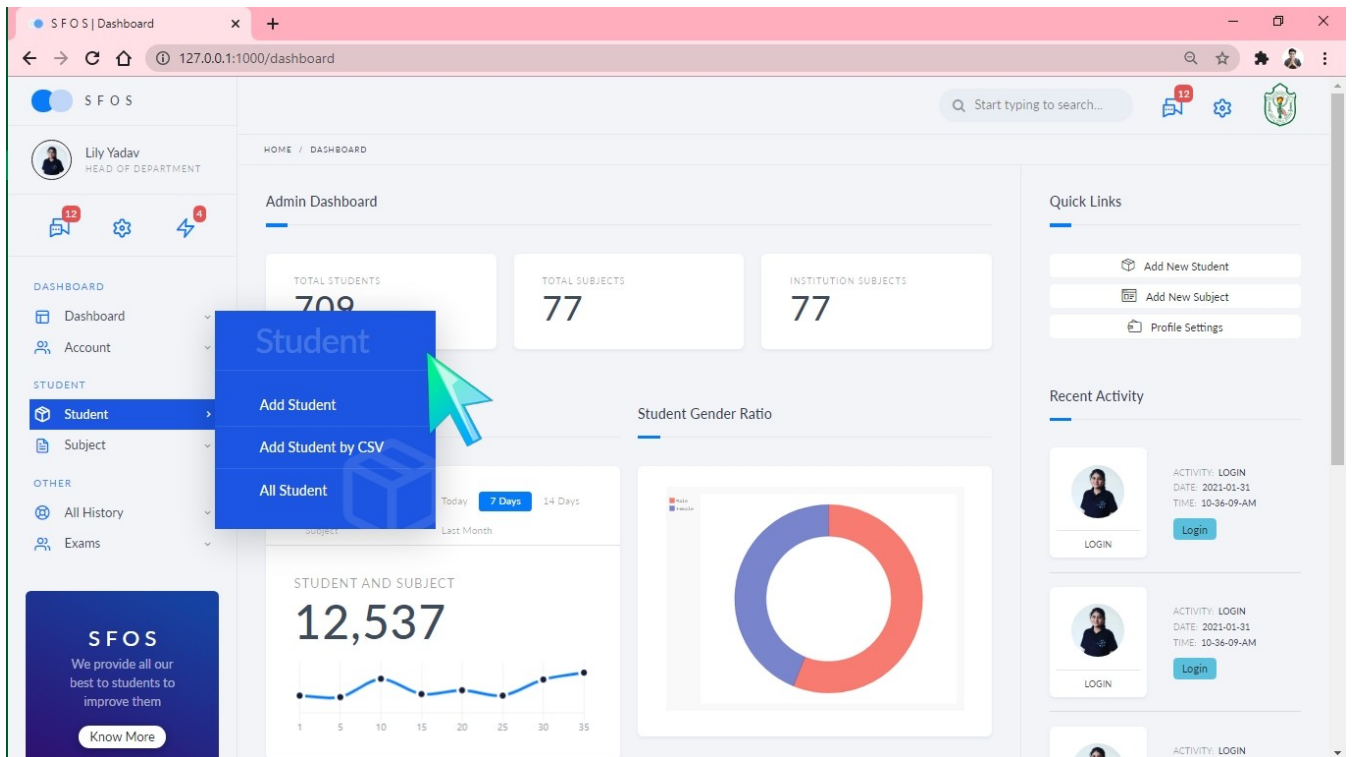
- Admin Account profile – Here you can add or update your details For e.g. (yours profile photo, name of institute and institute logo etc.) shown as following screenshots.



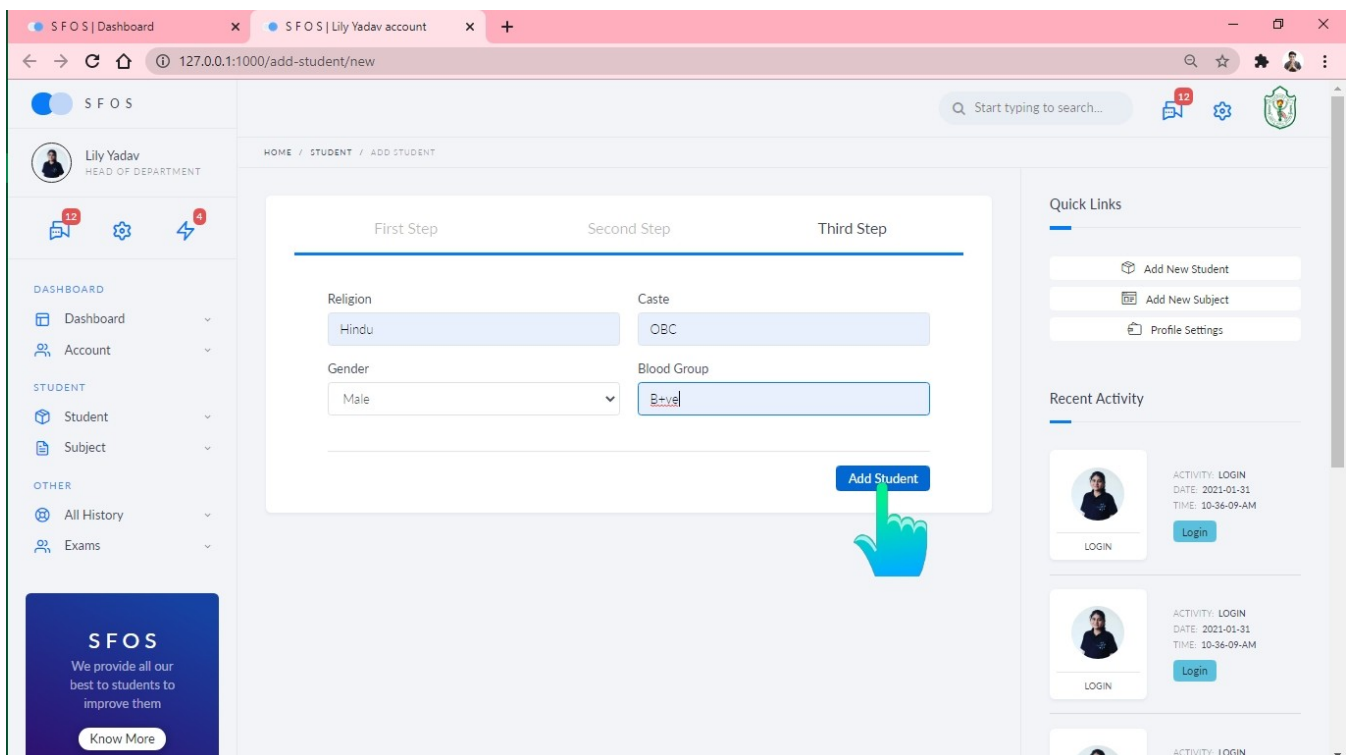


## 5. Add student

- Students can be added on entering manually one by one or by directly adding students by CSV.



- For manually entering of students details has to filed step by step as shown below and click “Add student” and message will pop” student added successfully”. And added student will appear in students list.





The screenshot shows the 'All Students' page in the SFOS application. A green notification bar at the top states 'Student added successfully'. Below this, a table lists student details. A blue arrow points to the notification bar.

PROFILE	NAME	EMAIL	ROLL NO.	STANDARD	PHONE NO.	GENDER	FATHER NAME	MOTHER NAME
	Aarti Chandak	Aarti@gmail.com	1	6th	9874561231	Female	suraj	seema
	Ajay Meshram	ajaym@gmail.com	2	1st	9578412630	Male	Ashok	Riya
	Anika Malu	anikam@gmail.com	3	1st	9632145780	Female	Nimech	Mamata
	Aniket Patel	aniketp@gmail.com	4	1st	9312457803	Male	Vijay	Sunita
	Ankita Singh	ankita@gmail.com	5	1st	9021345678	Female	Ashok	Nidhi
	Arjit Khurana	arjitk@gmail.com	6	1st	8745612309	Male	Manish	Kavita
	Ashok Birla	ashokb@gmail.com	7	1st	8475612360	Male	Sanjay	Priya
	Bhavika Jain	bhavika23@gmail.com	8	1st	7485612301	Female	Nimech	Sunita
	Bharti Mareshwari	Bhartim@gmail.com	9	1st	8741563201	Female	Vijay	Mamata

- For directly uploading students details using CSV automation, CSV file has to be in proper format as told in instruction and click “Add and verify” button and message will pop” student added successfully”.

The screenshot shows the 'Admin Dashboard' in the SFOS application. It displays various statistics and charts. A blue menu is open over the 'Add Student' button, showing options: 'Add Student', 'Add Student by CSV', and 'All Student'. A blue arrow points to the 'Add Student by CSV' option.

**Admin Dashboard Statistics:**

- TOTAL STUDENTS: 710
- TOTAL SUBJECTS: 77
- INSTITUTION SUBJECTS: 77

**STUDENT AND SUBJECT:** 12,537

**Student Gender Ratio:** A donut chart showing the distribution of students by gender.

**Quick Links:**

- Add New Student
- Add New Subject
- Profile Settings

**Recent Activity:**

- LOGIN (2021-01-31, 10-36-09-AM)
- LOGIN (2021-01-31, 10-36-09-AM)
- LOGIN

**Add Student CSV**

Student Profiles By CSV

Add Student CSV Browse

Add and Verify

**Instruction For CSV Upload**

1. File type should be CSV
2. There should be labels for every column in header only, no footer labels should be there
3. Number of column should be 20 only not more than 20 nor less
4. The sequence of column should be as follows:
  - Student First name
  - Student Father name
  - Student Mother name
  - Student Last name
  - Student Email
  - Student Roll No
  - Student Father Occupation
  - Student Father Income
  - Student Father Phone No
  - Student Mother Occupation
  - Student Mother Income
  - Student Mother Phone No
  - Student Postal Address

**Quick Links**

- Add New Student
- Add New Subject
- Profile Settings

**Recent Activity**

ACTIVITY: LOGIN  
DATE: 2021-01-31  
TIME: 10:36-09-AM  
Login

ACTIVITY: LOGIN  
DATE: 2021-01-31  
TIME: 10:36-09-AM  
Login

ACTIVITY: LOGIN  
DATE: 2021-01-31  
TIME: 10:36-09-AM  
Login

## 6. Add Subject

- We can add subject one by one of all standard for each subject using Add Subject button.

**All Subjects**

Show 10 entries

Search:

SUBJECT	PASSING MARKS	TOTAL MARKS	STANDARD
	18	50	1st
	18	50	2nd
	18	50	3rd
	18	50	5th
Computer	18	50	6th
Computer	18	50	7th
Drawing	18	50	1st
Drawing	18	50	2nd
Drawing	18	50	3rd
Drawing	18	50	4th

**Add Subject**

**All Subjects**

**Add Subject**

Subject: ENGLISH

Standard: 1st

Passing Marks: 20

Maximum marks: 50

Does this Subject Belongs to your Institute

- ☐ NO
- ☒ YES

**Add Subject**

**Quick Links**

- Add New Student
- Add New Subject
- Profile Settings

**Recent Activity**

- ACTIVITY: LOGIN  
DATE: 2021-01-31  
TIME: 10-36-09-AM  
**Login**
- ACTIVITY: LOGIN  
DATE: 2021-01-31  
TIME: 10-36-09-AM  
**Login**
- ACTIVITY: LOGIN

## 7. Update Student

- After adding all the subject we can find it as listed in "All subject list."

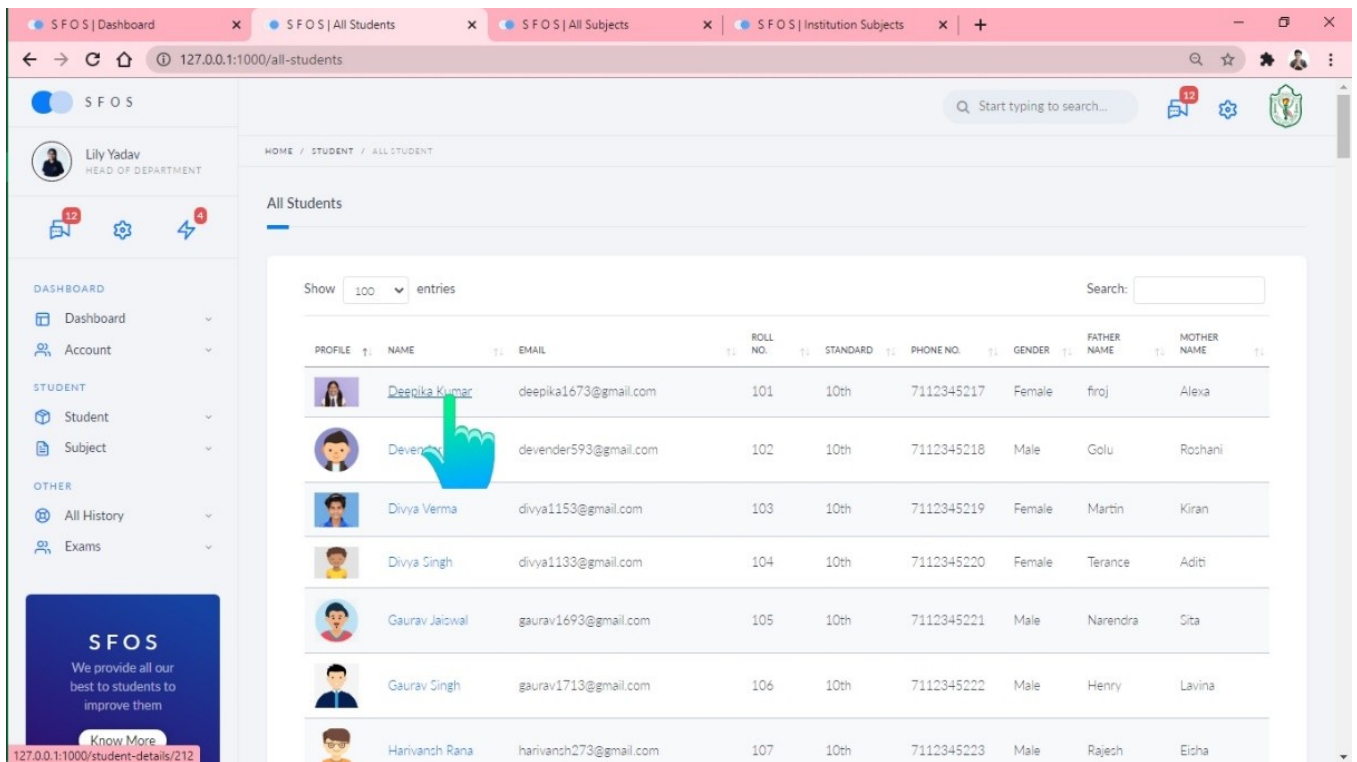
**All Subjects**

Show 10 entries

Search:

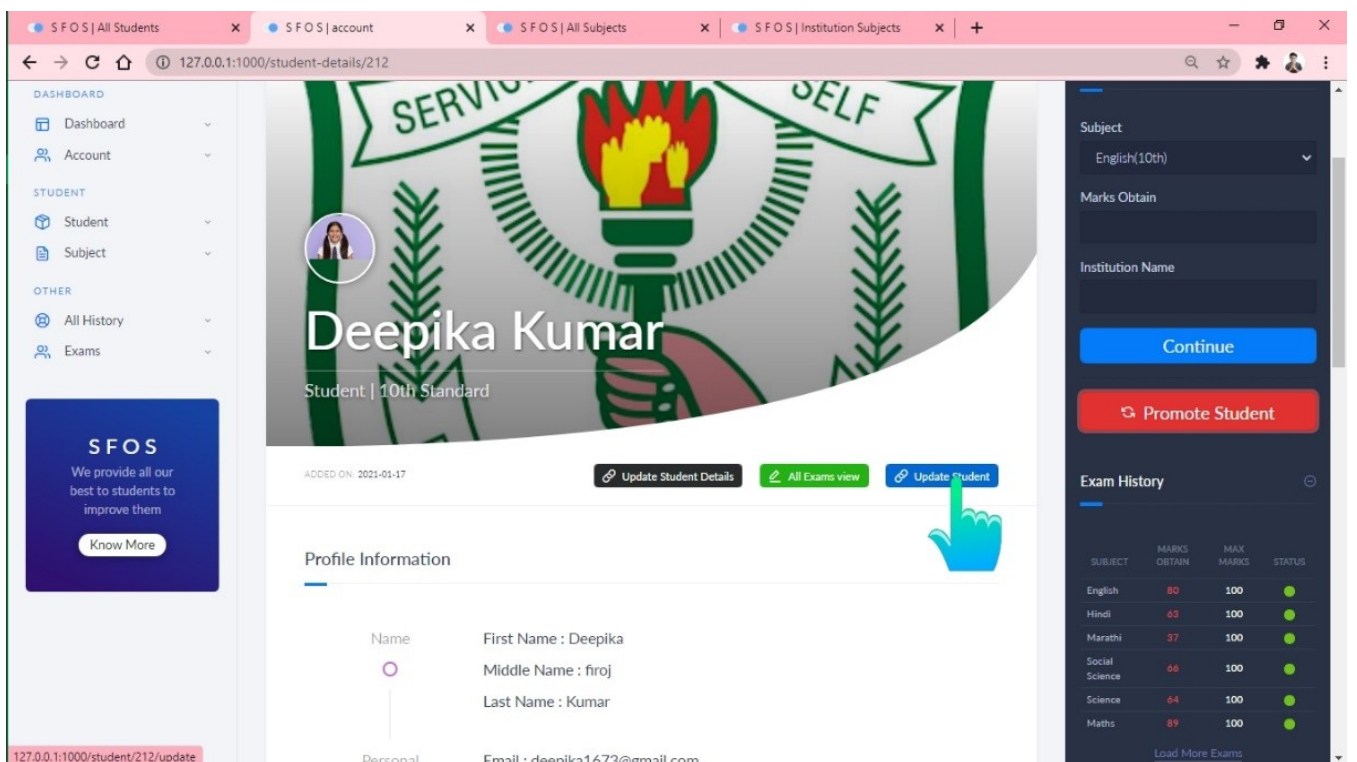
SUBJECT	PASSING MARKS	TOTAL MARKS	STANDARD
art	20	50	1st
Computer	18	50	1st
Computer	18	50	2nd
Computer	18	50	3rd
Computer	18	50	5th
Computer	18	50	6th
Computer	18	50	7th
Drawing	18	50	1st
Drawing	18	50	2nd

- After adding students we can edit details of students using **“Update Student”** option.



The screenshot shows the 'All Students' page in the SFOS application. The page has a sidebar with navigation options: Dashboard, Account, Student, Subject, All History, and Exams. The main content area displays a table of students. A hand cursor is pointing to the 'Deepika Kumar' entry.

PROFILE	NAME	EMAIL	ROLL NO.	STANDARD	PHONE NO.	GENDER	FATHER NAME	MOTHER NAME
	Deepika Kumar	deepika1673@gmail.com	101	10th	7112345217	Female	firoj	Alexa
	Deven Singh	devender593@gmail.com	102	10th	7112345218	Male	Golu	Rochani
	Divya Verma	divya1153@gmail.com	103	10th	7112345219	Female	Martin	Kiran
	Divya Singh	divya1133@gmail.com	104	10th	7112345220	Female	Terance	Aditi
	Gaurav Jaicwal	gaurav1693@gmail.com	105	10th	7112345221	Male	Narendra	Sita
	Gaurav Singh	gaurav1713@gmail.com	106	10th	7112345222	Male	Henry	Lavina
	Harivanch Rana	harivanch273@gmail.com	107	10th	7112345223	Male	Rajesh	Eirha



The screenshot shows the 'Update Student' page for Deepika Kumar. The page has a sidebar with navigation options: Dashboard, Account, Student, Subject, All History, and Exams. The main content area displays the student's profile information and a table of exam history. A hand cursor is pointing to the 'Update Student' button.

**Deepika Kumar**  
Student | 10th Standard

ADDED ON: 2021-01-17

[Update Student Details](#) [All Exams view](#) [Update Student](#)

**Profile Information**

Name: First Name : Deepika  
Middle Name : firoj  
Last Name : Kumar

Personal Email : deepika1673@gmail.com

**Exam History**

SUBJECT	MARKS OBTAIN	MAX MARKS	STATUS
English(10th)	80	100	●
Hindi	63	100	●
Marathi	37	100	●
Social Science	66	100	●
Science	64	100	●
Maths	89	100	●



## 8. Students Exams Data

The screenshot shows the SFOS Student Account page for Deepika Kumar, a 10th Standard student. The page includes a sidebar with navigation options like Dashboard, Account, Student, Subject, All History, and Exams. The main content area displays the student's profile with a banner image featuring a torch and the words 'SERVICE' and 'SELF'. The profile information section shows the student's name, standard, and a 'Profile Information' tab. On the right, the 'Add Exam For Student' sidebar is open, showing a form to add an exam. The form includes fields for Subject (Science(10th)), Marks Obtain (89), and Institution Name (Delhi public school). There are buttons for 'Continue' and 'Promote Student'. Below the form is an 'Exam History' table.

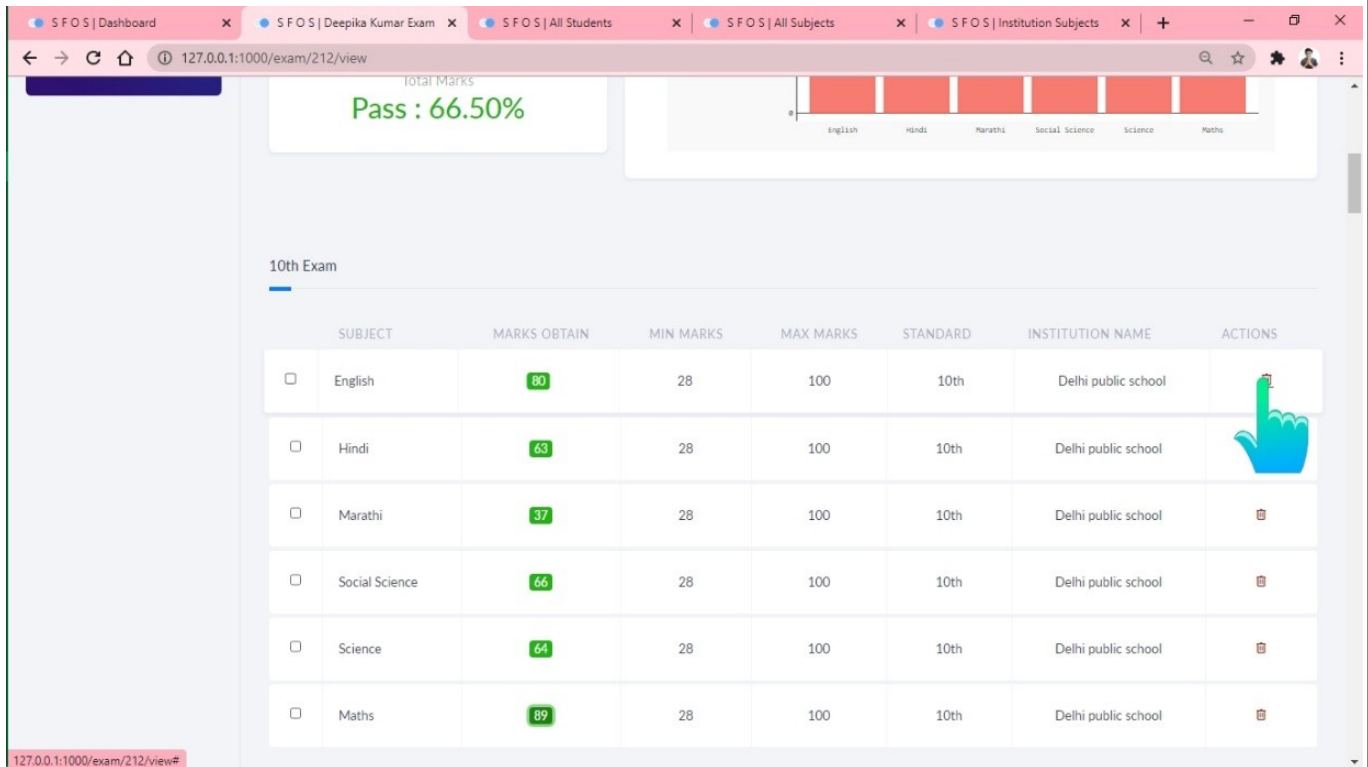
SUBJECT	MARKS OBTAIN	MAX MARKS	STATUS
English	80	100	●
Hindi	63	100	●

- As shown in figure we can add the data of students exams one by one.
- Be careful about exam data entry because we don't have any option to edit it.
- After Adding exam data we can see confirmation message on screen.

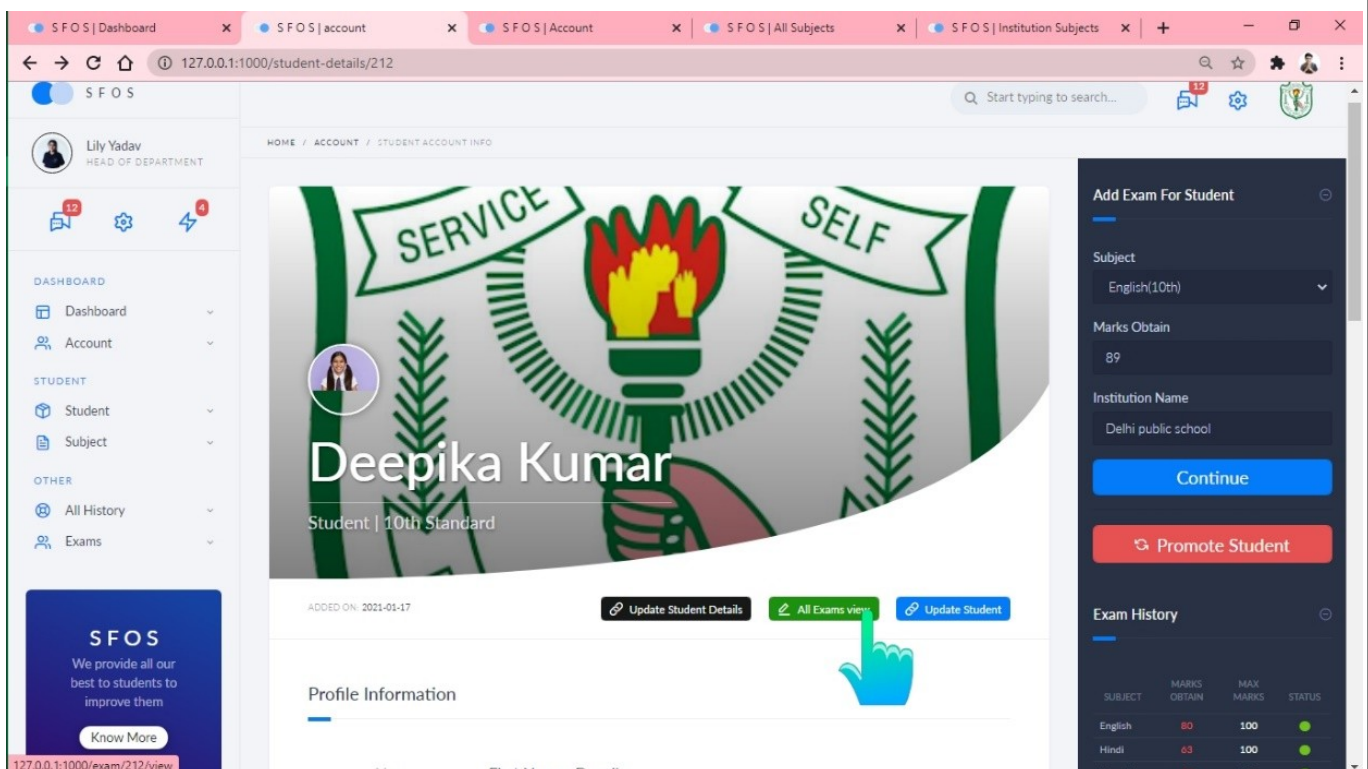
The screenshot shows the SFOS Exam View page for Deepika Kumar. A green confirmation message at the top states 'Student Exam added successfully'. The page displays 'Current Semester Exam Details' with four cards: Total Subjects (6), Passed Subject (6), Failed Subject (0), and Total Marks (399). Below these is a 'Total Marks' card showing '399/600'. To the right is a 'Total Marks Graph' showing a bar chart with 'Marks obtain' (red) and 'Max Marks' (blue) for each subject.

Subject	Marks Obtain	Max Marks
English	80	100
Hindi	63	100

- If by mistakenly we entered wrong exam data, then we have to delete it and again enter the data for same.



- “All exam view” will help us to see progress report of each students.
- This will present student marks data from beginning to till date.



## 9. Students Details

The screenshot shows the SFOS interface for a student's profile. The header includes navigation tabs: Dashboard, account, All Students, All Subjects, and Institution Subjects. The main content area features a large banner with a torch and the words 'SERVICE' and 'SELF'. Below the banner, the student's name 'Deepika Kumar' and 'Student | 10th Standard' are displayed. A blue hand cursor points to the 'Update Student Detail' button. To the right, there is a sidebar with 'Add Exam For Student' and 'Exam History' sections. The 'Add Exam For Student' section includes fields for Subject (English(10th)), Marks Obtain (89), and Institution Name (Delhi public school). The 'Exam History' section shows a table with columns: SUBJECT, MARKS OBTAIN, MAX MARKS, and STATUS.

SUBJECT	MARKS OBTAIN	MAX MARKS	STATUS
English	80	100	●
Hindi	65	100	●
Marathi	92	100	●

- To analysis behavior of students we need to collect more information about it, so collect some basic information about students.
- We collect students data like area of interest, hobbies and all in the form of rating 1 – 6.
- This data will assist system to predict students future in more better manner.

The screenshot shows the 'Add Student Details' form in the SFOS interface. The form includes various input fields and radio button options for student information. The 'Add Student Details' section contains fields for Graduated Peoples in Family (1), Number of Siblings (2), Behaviour With Others (Bad), School Type (Private), Type of Friend Zone (Bad), Subject Interested (Hindi), and Scholarship (4500). Below these are sections for Memorizing Power, Medical History, Maths Knowledge, and Physics Knowledge, each with radio button options ranging from 0 to 5. The right sidebar shows 'Quick Links' (Add New Student, Add New Subject, Profile Settings) and 'Recent Activity' (Login history).

ACTIVITY	DATE	TIME
LOGIN	2021-01-31	10:36-09-AM
LOGIN	2021-01-31	10:36-09-AM
LOGIN	2021-01-31	10:36-09-AM



## 10. Students Promotion

- We can promote students to further class if he / she completed its current session.
- **WARNING :** If one of students marks from current batch is not entered in system, even we try to promote it then he / she will be considered as fail in that class.

**Request Student Promotion**

If you think this student needs to be promoted into next class, You must fill all the subject of 10th standard or else the student will be considered **Fail** and the student should not have previous class backlog too.

**Current Standard:** 10th

**Promote to:**

**Next** →

**Update Student Details** **All Exams view** **Update Student**

**Profile Information**

**ADD EXAM FOR STUDENT**

Subject: English(10th)

Marks Obtain

Institution Name

**Continue**

**Promote Student**

**Exam History**

SUBJECT	MARKS OBTAIN	MAX MARKS	STATUS
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## 11. Students Games & Sport Data

- This section will help to collect students achievements in Games and Sports.
- Based on achievements of students sport data, institute can grade them.

Gender : Female  
Blood Group : A+ve

**Add Game/Sports Details**

**Add Your Interest in Game and Sports**

Name of Game or Sports: Club Level: dd-mm-yyyy **Submit**

**Games and Sports**

	NAME	LEVEL	DATE	ACTION
<input type="checkbox"/>	Table Tennis	State Level	06-12-2009	