SPO Career Portal

End-Evaluation Report
Semester Projects 2021-22

Programming Club
Science and Technology Council, IIT Kanpur

Mentors:-

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Team Members

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Navneet Singh	200625	navneet-28
Parinay Chauhan	200667	parinayc20
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Objective

- The Student's Placement Office, IIT Kanpur receives a lot of off-campus placement and internship offers from different firms.
- Many established companies also invite the students of IIT Kanpur to participate in hackathons and competitions via SPO.
- Currently, all of this communication is done by mailing the students about the same. This creates unnecessary spam, and especially for someone who's not interested in these opportunities.
- Programming Club, in collaboration with SPO, wants to create a unified portal for the same, wherein the students can check various intern/placement offers according to their needs and straightaway apply to these as well.

Advantages

- **No more “mail” spam**

  Firstly, it avoids the mail “spam”, as many offers roll out on a daily basis. Interested candidates can check out the portal at any time and apply straightaway.

- **Easy Application Process**

  The student can fill in all the relevant information (Github id, LinkedIn profile, resume, CPI, etc.) beforehand in the profile section. Thereafter, everytime he/she wishes to apply, all the details shall be autofilled, making it a one-click process.

- **Reducing workload on SPO admins**

  Everytime SPO is approached by any firm, they have the tedious task of creating and rolling out Google Forms to collect the applicant database. All this would be reduced to merely uploading the company details from the admin side and then downloading a CSV file containing details of all the applicants.

- **Offers as per the eligibility**

  Many times, certain offers are limited only to some specific departments or programmes. Still receiving a notification regarding the same didn't make any sense. With the SCP, we filter out all the opportunities at the backend and show the students only the ones for which he/she is eligible.

- **Daily Digest (extended feature)**

  An automated mail with all the relevant offers would be sent periodically (every 24 hrs) to inform the students. This shall be implemented once we're done with the basic architecture.

Approach and Timeline

- Web stack consists of ReactJS + Django, which is best in the industry now in terms of rapid production and scalability.

django + React

- Open Sourced ReactJS template, Argon UI, was used to bootstrap the UI and cut short the process of designing stuff from scratch.
- The project members were first divided to work on the frontend and backend domain on a voluntary basis.
- The next two weeks were spent in learning about ReactJS and Django. All the members were pre-acquainted with basic HTML, CSS and version control technology.
- Next, issues were created and teams/individuals were assigned to work on them.

Issues Created

- Frontend part

ISSUE NO. #	TITLE
1	Setup the Register UI
2	Setup the Login UI
3	Setup the Profile Page
4	Setup Dashboard UI
10	Revamping the web-app design
13	Create the modal application form
14	Setting up the dashboard UI for admin
16	Integrate profile page with backend API
17	Integrate the Registration API
18	Fetch intern/placement detail
21	Integrate the admin UI with respective APIs
23	Login and logout integration
24	Reset Password
26	Login page and User/Admin dashboard path integration

- Backend part

ISSUE NO. #	TITLE
1	Create User model
2	Create Intern model
3	Create Placement model
11	Fetch User data API
12	Add Login and Logout System
13	Fetch intern data for a given user
14	Fetch placement data for a given user
20	Create a registration model
21	Create a unique identifier field in both placement and internship model
25	User Registration, Activation, Password Change
27	Edit user profile
28	Resume addition in the registration model
--	Create admin model and the respective APIs
--	Add script to populate the database
--	Create the dockerfile
--	Update database to postgresql and add Email notifications

PRs MERGED

- Frontend part

PR No.	TITLE	CONTRIBUTORS
7	Profile Page	Shubham, Sahil
9	Login UI	Sahil , Sanchit Sinha
11	Register UI	Udit , Navneet Singh
6	Dashboard UI	Harsh, Vedit, Parinay
12	Removed unnecessary code from sidebar	Aman Yadav
15	Admin UI updated	Harsh Patel
19	Profile page integration	Udit Prasad
20	Integration of Registration API	Navneet Singh
25	Admin & user dashboard re-updated	Harsh patel
27	Login page & admin/user dashboard path integration	Harsh Patel
28	Reset password UI added and integrated	Udit Prasad
29	Added internship /placements to redux	Sanchit sinha
30	Changes in footer	Navneet singh
31	Added the complete backend integration	Parinay Chauhan

- Backend part

PR NO.	TITLE	CONTRIBUTORS
10	User model	Navneet Singh
8	Intern model	Parinay Chauhan
9	Placement model	Shubham Kumawat
17	User data API	Udit Prasad, Navneet Singh
16	Login and Logout System	Sanchit Sinha
15	API for Intern Data of a user	Parinay Chauhan
15	API for Placement Data of a user	Parinay Chauhan
22	Unique key for Intern and Placement Model	Parinay Chauhan
24	Registration model added	Shashank Wankhede, Parinay Chauhan
26	User Registration, Activation and Password change API added	Udit Prasad
28	User Profile edit added	Parinay Chauhan
29	Database population script added	Parinay Chauhan
32	Admin model and respective APIs added	Parinay Chauhan, Shashank Wankhede
34	Resume selection added	Parinay Chauhan
35	Dockerfile added	Parinay Chauhan

37	Database updated and Email notifications added	Parinay Chauhan
38	Changes based on Frontend-1	Sanchit Sinha
39	Changes based on Frontend-2	Parinay Chauhan

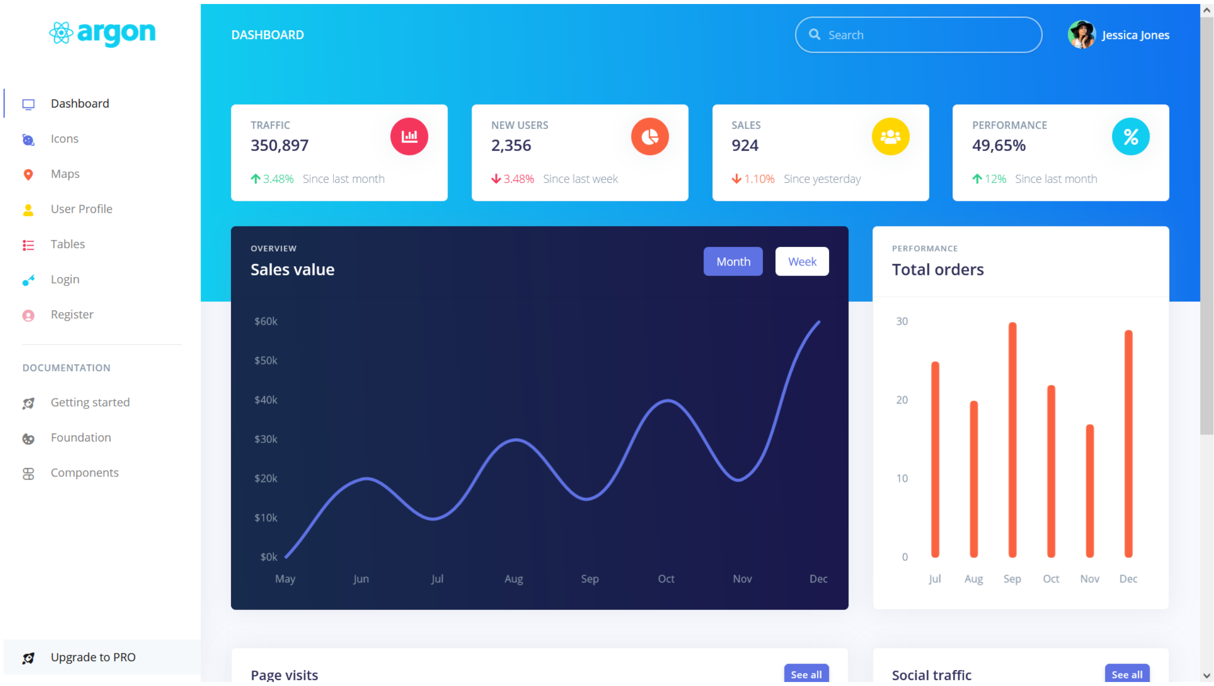
Argon UI Framework

Argon is an open-source, free UI package based on Bootstrap 4 that includes the essential components and features. It is available on technologies like React, Bootstrap, Vue, Angular, Nodejs, Django etc.

Why?

- It is built with over 100 individual components, giving us the freedom of choosing and combining. It comes with prebuilt examples, so the development process is seamless; switching from the inbuilt pages to the actual website is very easy.
- We saved a lot of time from prototyping to full-functional code because all elements are implemented, and we only get to set the logic part.
- Most of the styling and animation is already implemented. We don't have to write extended CSS and JS code for styling and animation, and the pages have a uniquely beautiful look and design.
- The components used in prebuilt examples are well documented, and the code is easy to understand. The sidebar has components like Dashboard, User-profile, login, and Register page so, we only changed the logic part of these components as per our need. Also,

it collapses on the small screen to a drop-down like Navbar, which makes the page responsive.

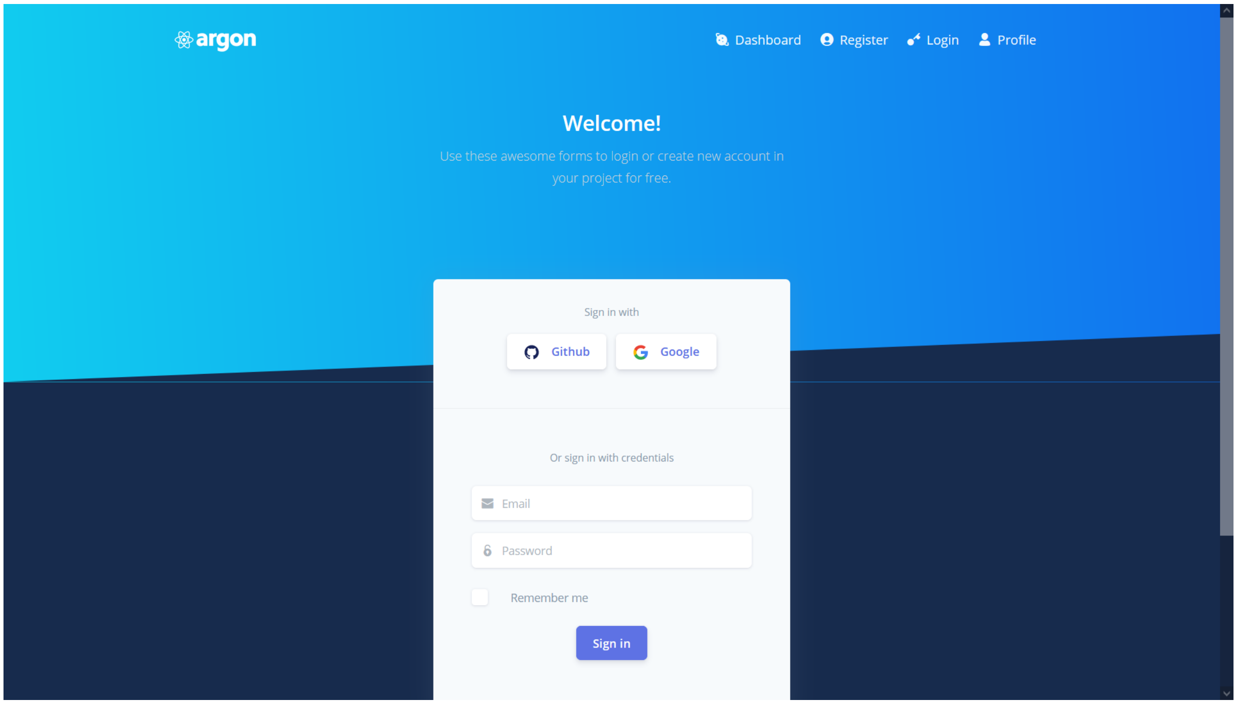


TRAFFIC
350,897
↑ 3.48% Since last month

NEW USERS
2,356
↓ 3.48% Since last week

SALES
924
↓ 1.10% Since yesterday

PERFORMANCE
49,65%
↑ 12% Since last month

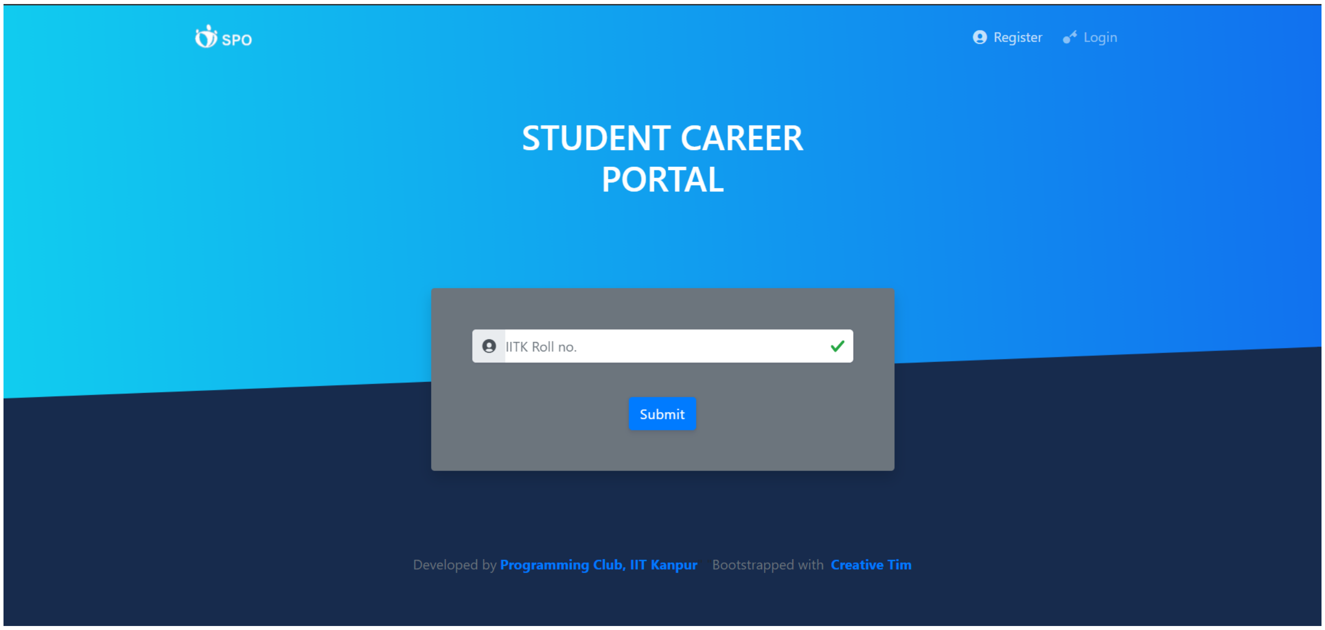


Welcome!

Use these awesome forms to login or create new account in your project for free.

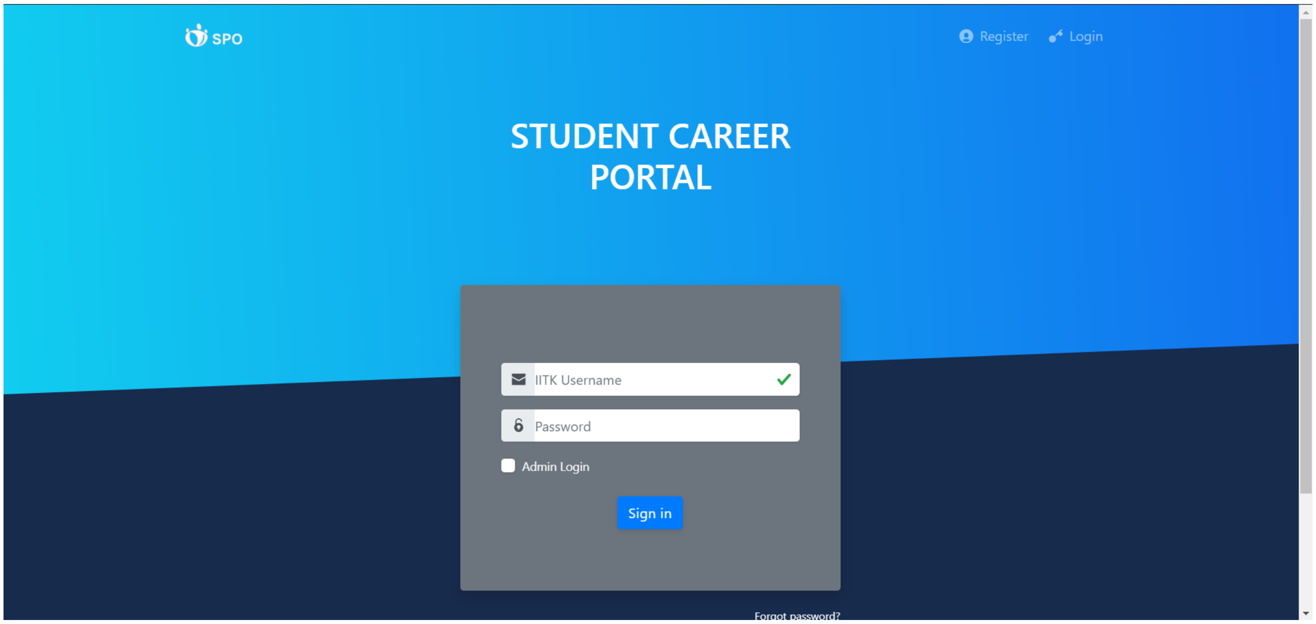
FRONTEND FEATURES

- **Registration Page**
  This page enables the user to sign up and register themselves to gain access to the system. It only asks for a **roll number** that has already been provided by the institution and uses the same to check for the user's existence by matching it with the data present on the servers. Once the user is validated, a notification prompting them to set up a password is sent, which can then be used to log in to the system.


SPO
Register
Login
STUDENT CAREER PORTAL
IITK Roll no.
Submit
Developed by Programming Club, IIT Kanpur
Bootstrapped with Creative Tim

- ## Login Page

  The Login page is the entry page to the website for the users and the admins. This page requires user identification and authentication, performed by matching the **username** and **password** combination entered by the user with the data saved in the database.

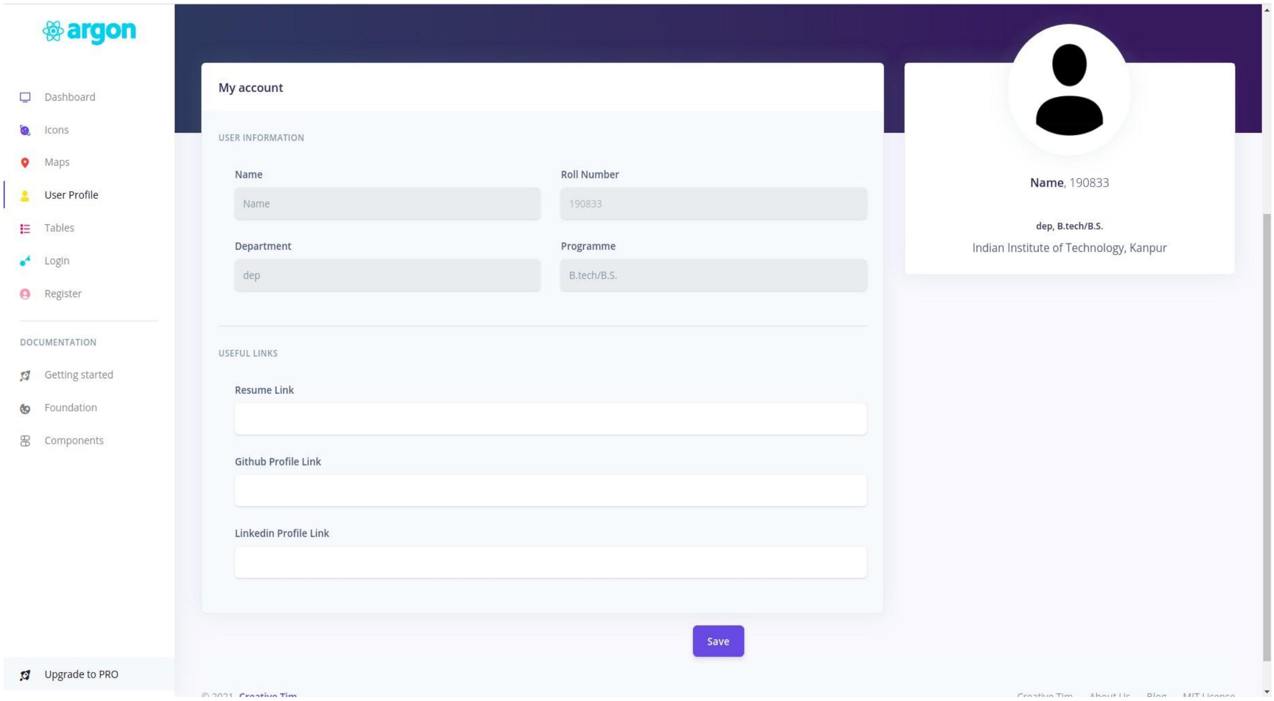


SPO

STUDENT CAREER PORTAL

- ## Profile Page

  The profile page contains relevant data of the user, which are generally asked or required while applying for an internship or a placement. This includes their name, programme, department, Roll Number, Resume Link, GitHub profile link, and Linkedin profile link. This data is also saved in the database and can be updated as per the requirement.



My account

USER INFORMATION

Name: Name

Roll Number: 190833

Department: dep

Programme: B.tech/B.S.

USEFUL LINKS

Resume Link

Github Profile Link

Linkedin Profile Link

Name, 190833

dep, B.tech/B.S.

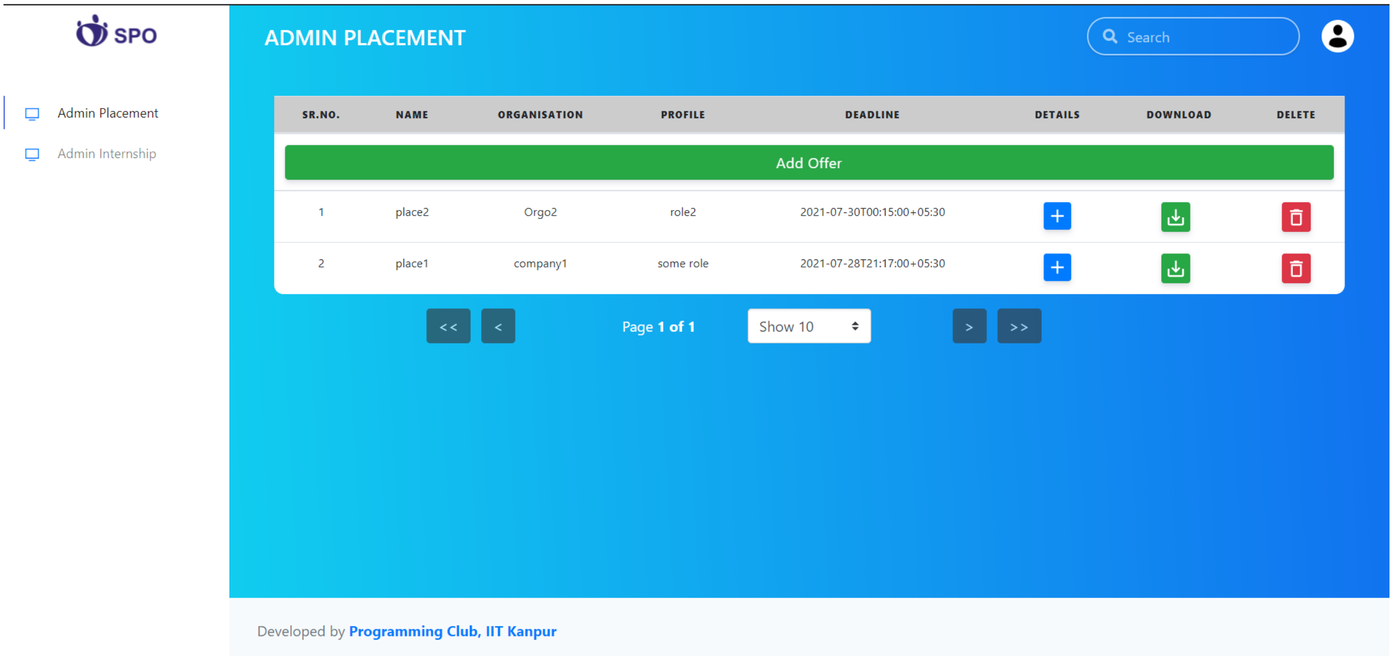
Indian Institute of Technology, Kanpur

- **Internship Page**

  This page contains details of all the internship opportunities that the user is eligible for, listed in the form of a table. The table includes the name of the internship and organization, the job profile offered, and the deadline for application for the role. Users can find the other details regarding the job and the organization in the accordion provided in each row. They can also apply for the position directly from here by filling out a simple form. Most of the fields of this form will automatically get updated from the user's profile data, while the remaining fields that will be specific for an organization will have to be provided manually by the user.

- **Placement Page**
  This page is entirely similar to the internship page. The only difference is that it contains details regarding the placement offers, whose eligibility criteria are satisfied by the user.

- **Admin Page**
  This page is the main link between the students and the organizations providing internship/placement offers. It contains all the functionalities essential for the admin to keep the students informed about the internship and placement opportunities offered throughout the year.



SR.NO.	NAME	ORGANISATION	PROFILE	DEADLINE	DETAILS	DOWNLOAD	DELETE
Add Offer							
1	place2	Orgo2	role2	2021-07-30T00:15:00+05:30	+	⤓	🗑
2	place1	company1	some role	2021-07-28T21:17:00+05:30	+	⤓	🗑

Developed by **Programming Club, IIT Kanpur**

The admin page has the following two major components :

i) Internship Page

This page allows the admins to add or delete any internship opportunity relevant to the students. They can also download and monitor the details provided by the students who have applied for a particular position provided by an organization.

ii) Placement Page

This page is entirely similar to the internship page, with the only difference being that it takes into account placement offers.