Sunbird | beckn

SKILL-A-THON 1.0

NDEAR - ONDC EDUCATION & SKILLING HACKATHON

Submission

POWERED BY

EkStep Foundation | National Digital Education Architecture
Digital Infrastructure for the education ecosystem

SUPPORTED BY

ONDC Open Network for Digital Commerce | FIDE Foundation for Interoperability in Digital Economy | NASSCOM | futureskills prime

Team and Member Details

1. **Team: VULCAN_FORGE**
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      - Email: ankurdattatrayg@gmail.com
      - Ph. No.: 9420391705

Team and Member Details

4. Challenge Category
   a. Challenge: Challenge 2 that is developing a provider/supplier-side interface (Beckn Provider Platform) using which a provider/supplier can publish (or list) an opportunity (or item) on the network.
      i. Challenge Category 1 : **Mentors & Tutors**
      ii. Challenge Category 2 : **Courses & Training**
      iii. Challenge Category 3 : **Scholarship & Grants:**
      iv. Challenge Category 4 : **Jobs & Internships**

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Problem Statement

To develop a platform where a provider can publish an opportunity on the network. A user can circulate or publish them as well as their opportunities.

The opportunities will be one of the following four categories:

1. Provider as a mentor and tutor: A provider Register themselves and create their profile with all the details like their qualifications, charges, expertise, etc.

2. Provider as an employer: A provider is able to list all the job or internship opportunities for prospective applicants. They can shortlist the applicant based on their requirement or criterion when applicant successfully apply for them.

3. Provider as a course or training institute: A provider can register themselves as an institute, where they will be able to publish the courses they provide with all its details.

4. Scholarship and grant: A institute or NGO can facilitate the scholarship or grant to an applicant and select them on the basis of their criterion.

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Solution

The platform will help to plethora of people who seeks mentorship, jobs, scholarships, courses, internship, etc. opportunities.

Solution

Our solution solves the problem by giving them platform to the providers to provide their services to the applicants like for employers to recruit employee, for mentors to provide session, for institute to provide their courses and for NGO/ institutes to provide the scholarships.

1. Mentors and tutors: Mentorship is very essential in many part of life. And it is very hard to get a proper mentor or tutor. This platform provides the solution to this problem. Mentors and tutors will be able to publish their profile with all their expertise, fees, session information. The provider will be able to respond to the applicant requests by provide the fee structure, T&C and session information. If satisfied, the applicant will be able to do payment to the provider.

2. Courses and Training: A course from a reputed institute gives necessary knowledge to succeed in that sector. Here, in this platform, it provides opportunities for both institute to list their course and applicants to enroll in them. Institute will be able to register and list their courses with details like course duration, mode (offline, online or hybrid), curriculum, etc. Most of the searching and booking facilities will be handled by Beckn API's. With the help of both BAP and BPP, the applicant can book and enroll in the course.

Solution

3. Scholarships and Grants: It happens many times that a students or scholars are unaware of any scholarship or grants opportunities, it becomes worse for students coming from financially weak or unstable background or scholars who want a grant. This platform will provide the opportunities for the student to apply for scholarships and grants from institutes or NGOs. Institute and NGOs will be able to enlist their scholarship will the relevant details like value, duration, type, eligibility criteria, documentation proof, mode, value etc. The BPP publishes and provides the T&C to applicants.

4. Jobs and Internship: Unemployment is a very dire issue in many countries. A skilled and employed person can provide a lot of values to a country economy. Many times it happens that employee is unaware of job or internship prospect floating in the market. This platform provides a way for employer and employee to achieve their goals. For employers, they can enlist their jobs or internships requirements, roles, salary, etc. And for employee to apply for that role. The BPP helps in publishing the job or internship and gives all the T&C to the employee who is applying for that role.

Solution

Tech Stack:

1. ReactJS and Tailwind CSS for UI
2. State management with Redux
3. Node.js and Express.js for backend
4. MongoDB for database
5. Firebase for authentication

Solution

Tech Stack:

1. Choosing ReactJS and Tailwind CSS is because both are popular and are very compatible to easy other to make UI’s
2. Since the frequency of changes is very much more on the website, so Redux is suitable for handling advance state management.
3. Node.js is a runtime environment and Express.js is the framework used. Since both are JavaScript technologies, so it is easier for current and future developers to make any changes and scale the website.
4. MongoDB is a NoSQL database. It is known for its ease of use and speed. It is used here since it is very compatible with Express.js.
5. Firebase will be used for authentication, since it is easier to register and login with Firebase platform on the website.

Solution

Scalability, Usability and effectiveness:

The solution can be easily implemented by creating frontend with ReactJS, tailwind CSS and Firebase and respective backend with MongoDB, node.js and express.js and with Beckn API's. Effective of solution is correlated with how much people are properly using the services, with the help of proper feedback and survey we can estimate the effectiveness of the platform.

The solution is quite scale since ReactJS and Express.js is used as both frontend and backend. For a much larger and complex app, typescript can replace JavaScript, helping in much stricter control over the codebase of the website. The backend can also be divided into microservices so that if suppose one page like scholarship section fails, then it will not cause the downtime to the whole website. Like this, Next.js can also be used if we want to do server side rendering, etc. The scope for scalability is huge and implementing new ideas in the near future is quite feasible.

Methodology/ Architecture Diagram

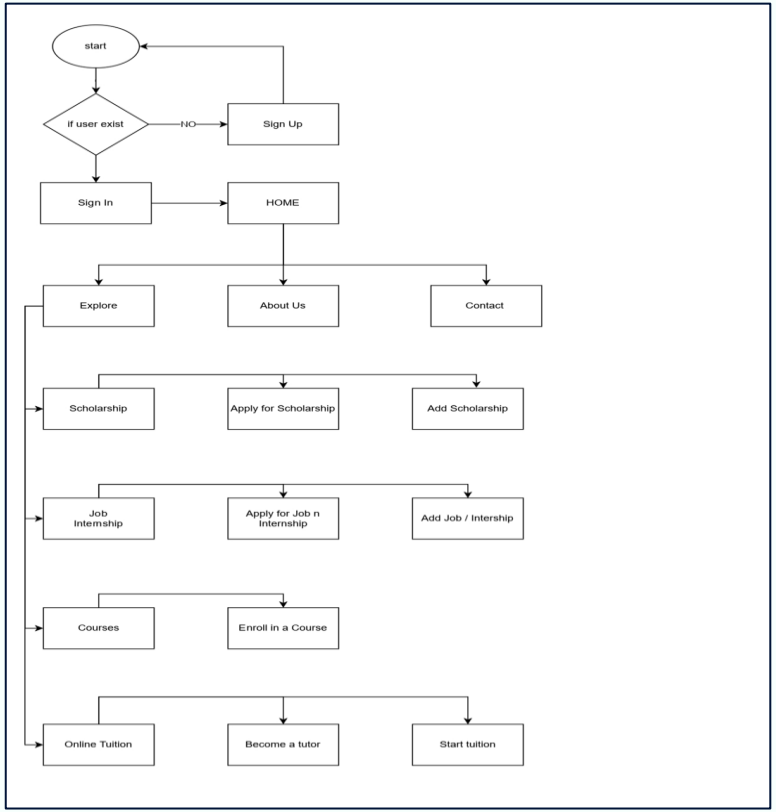
What is an architecture diagram?

- An architecture diagram is a graphical representation of a set of concepts, that are part of an architecture, including their principles, elements and components. It includes:
- Flow chart
- Wireframes
- Graphical representation (Bar graph, Histogram, Pie charts, Heat maps)
- Prototype (Screenshot, screencast, image, video, etc.) - *optional*
- *[Include concept, principles, elements and components]*
- Please note: Upload the documents (eg: .pdf, .docx, .vsd, etc.) directly on the platform. However, the links can be inserted/ attached in this PowerPoint template.

Methodology/ Architecture Diagram

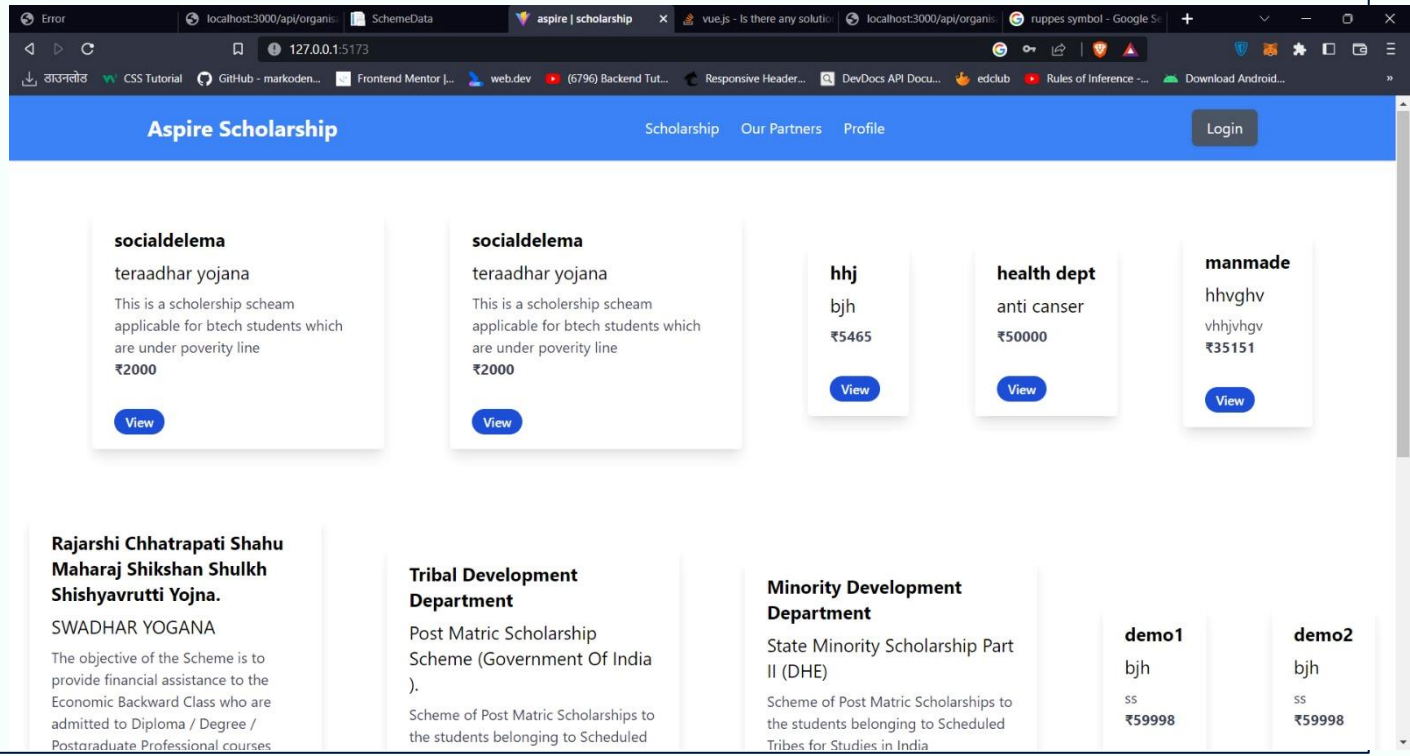
Architecture Diagram:

- Flowchart:



Scholarship:

Scholarship:



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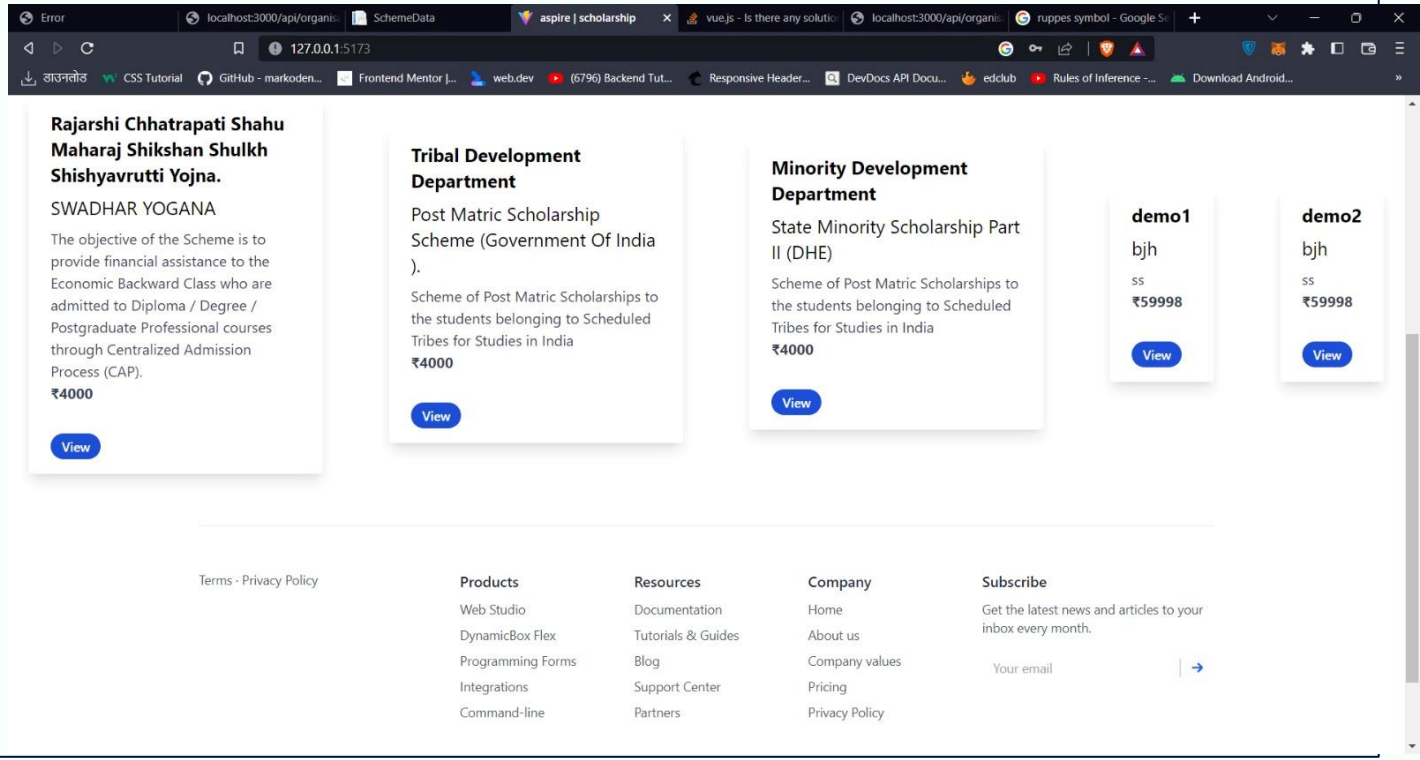
Scholarship:



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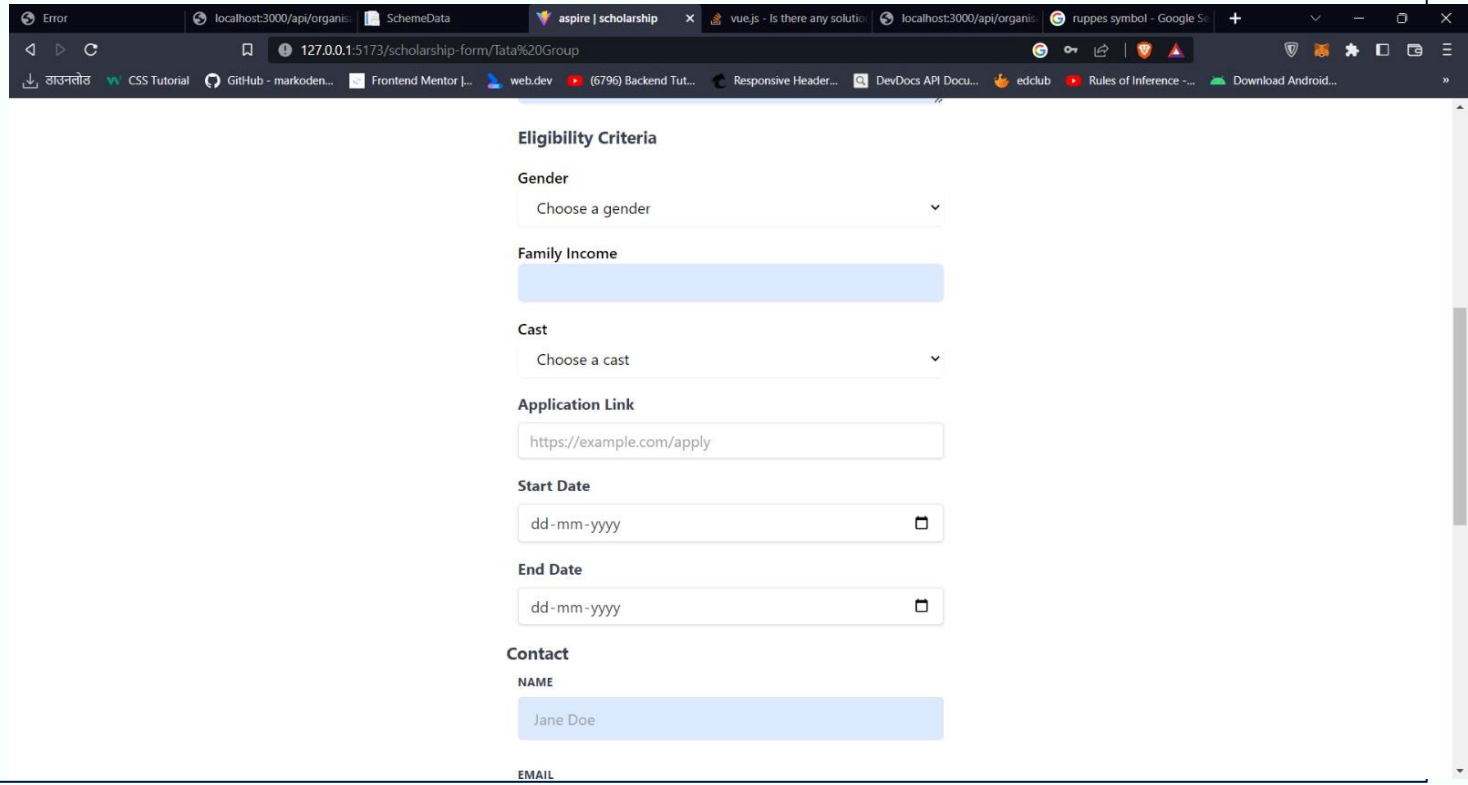

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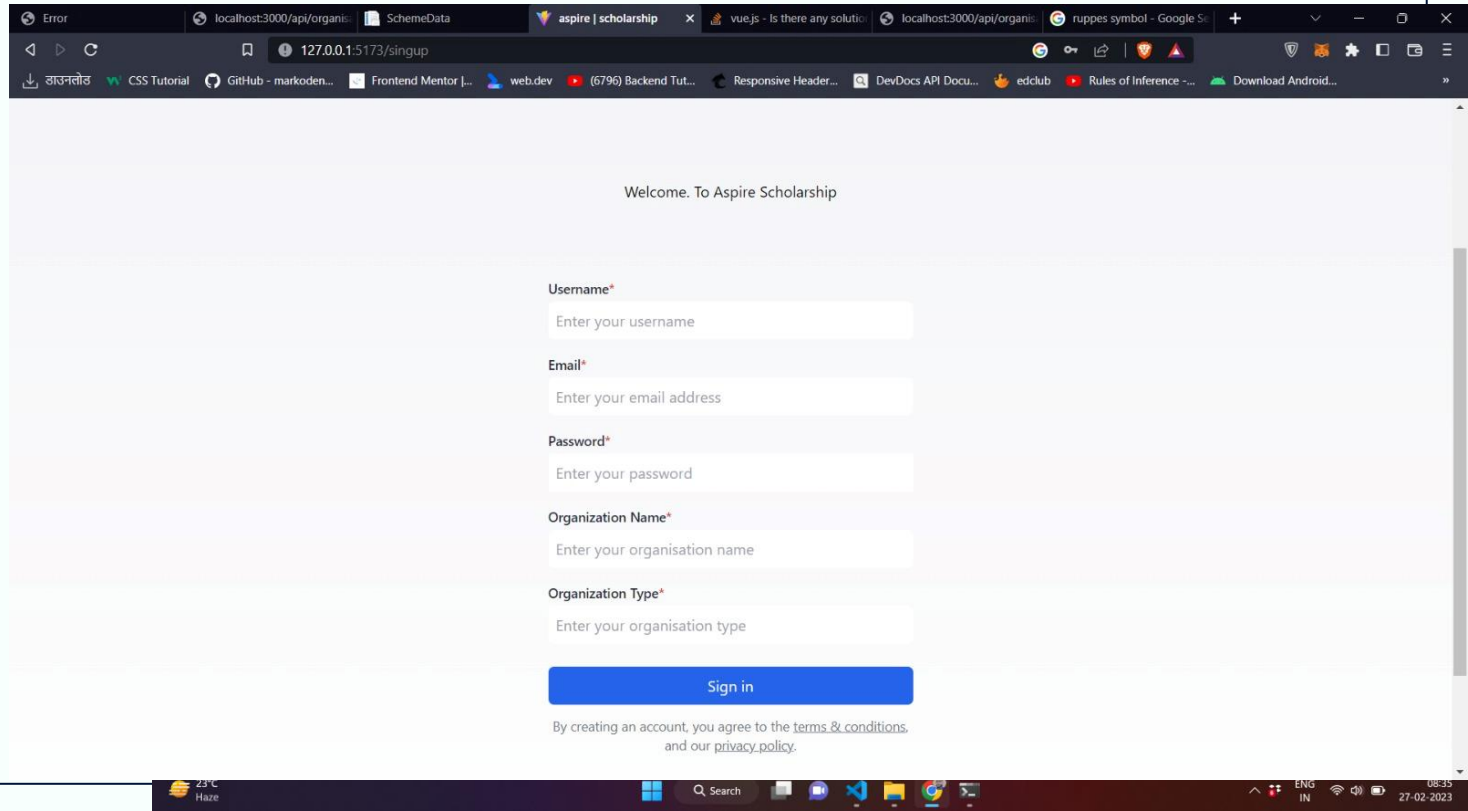

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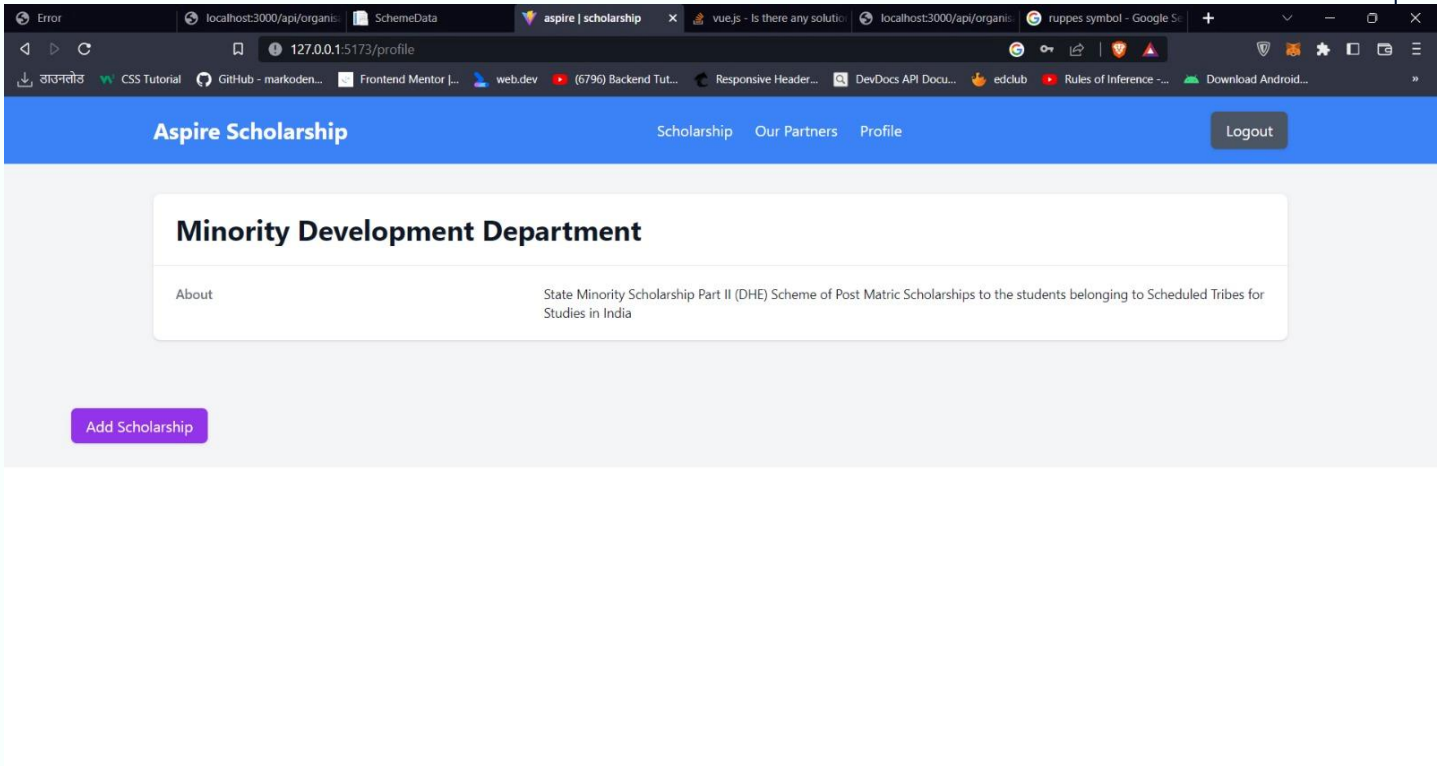

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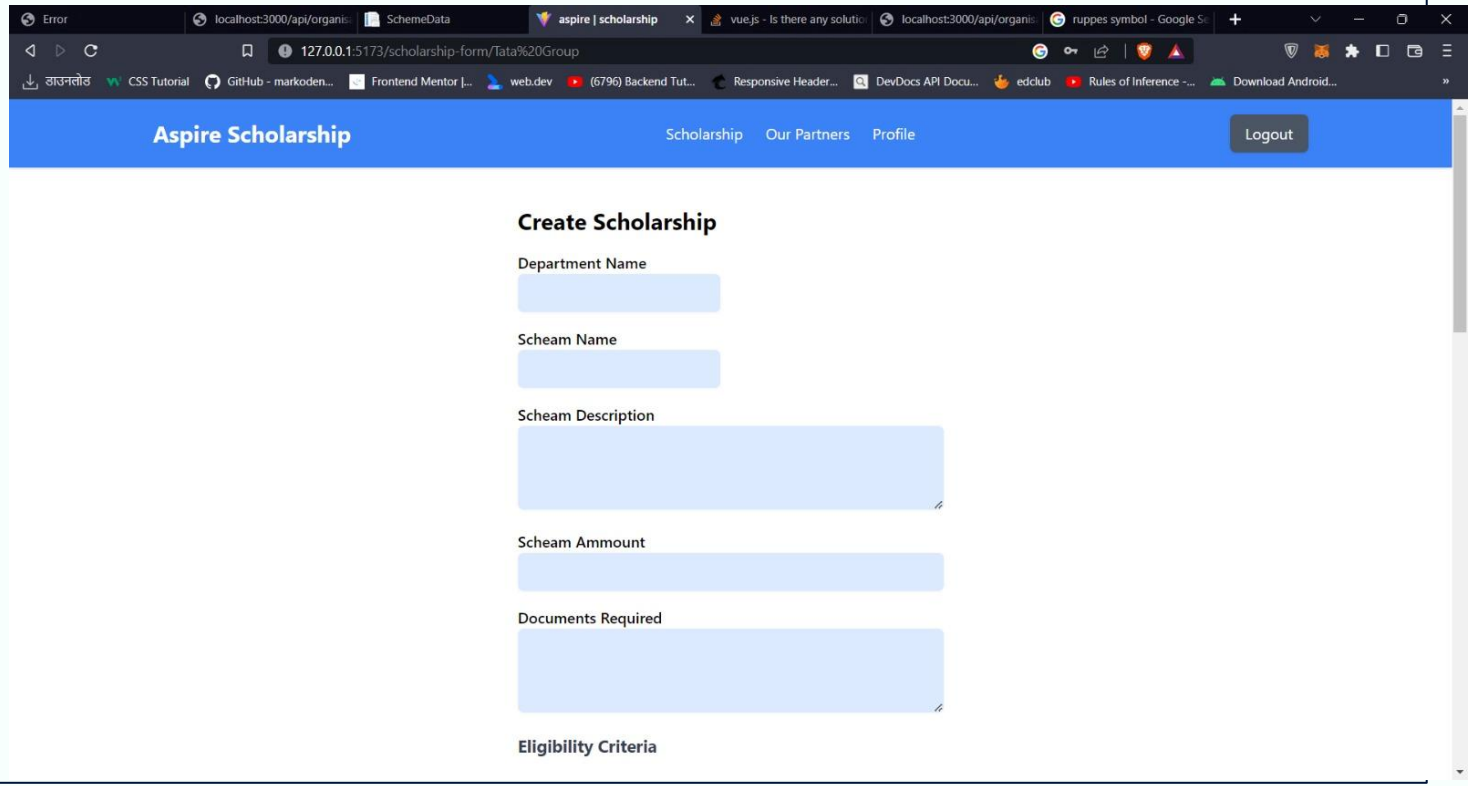

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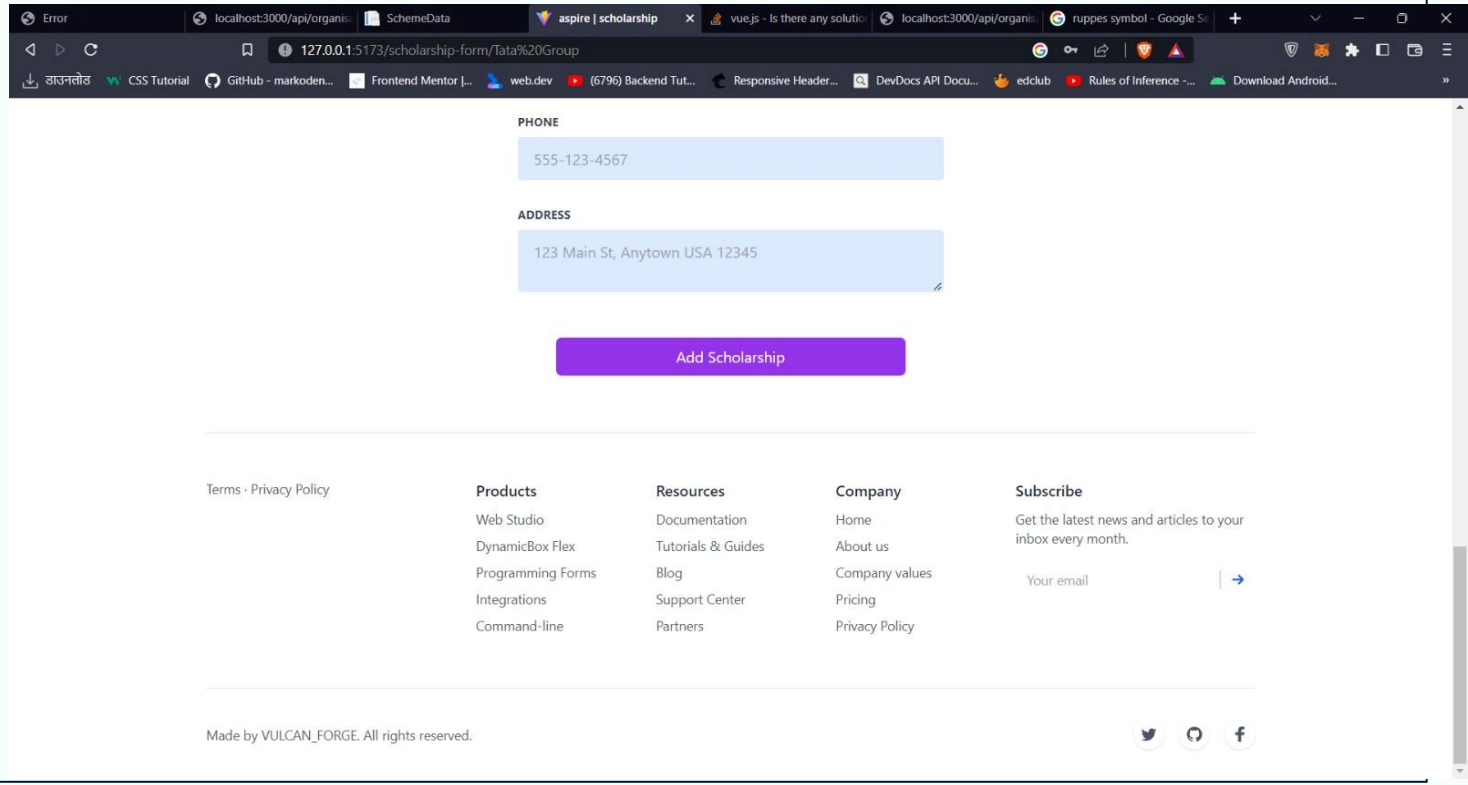
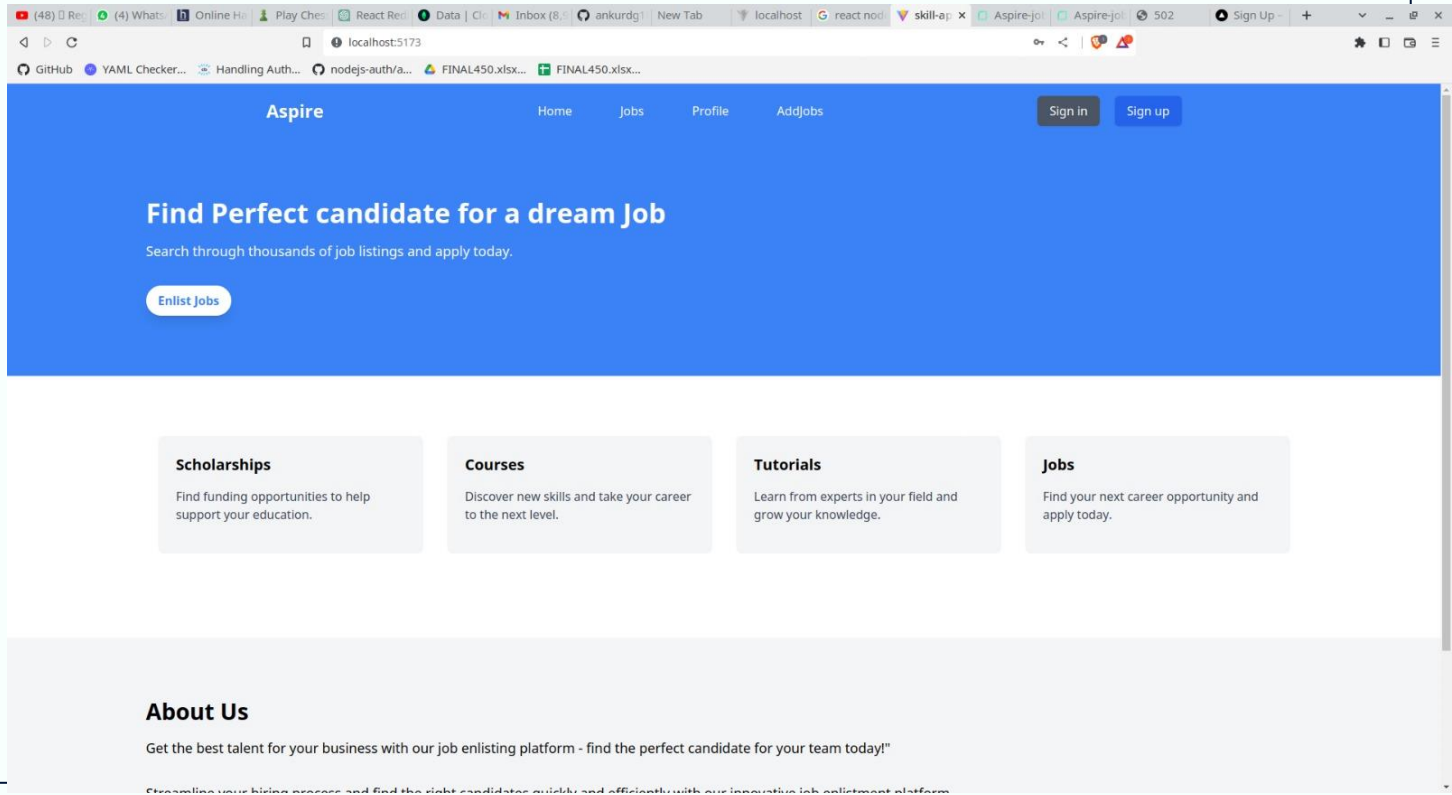


Job:

Jobs: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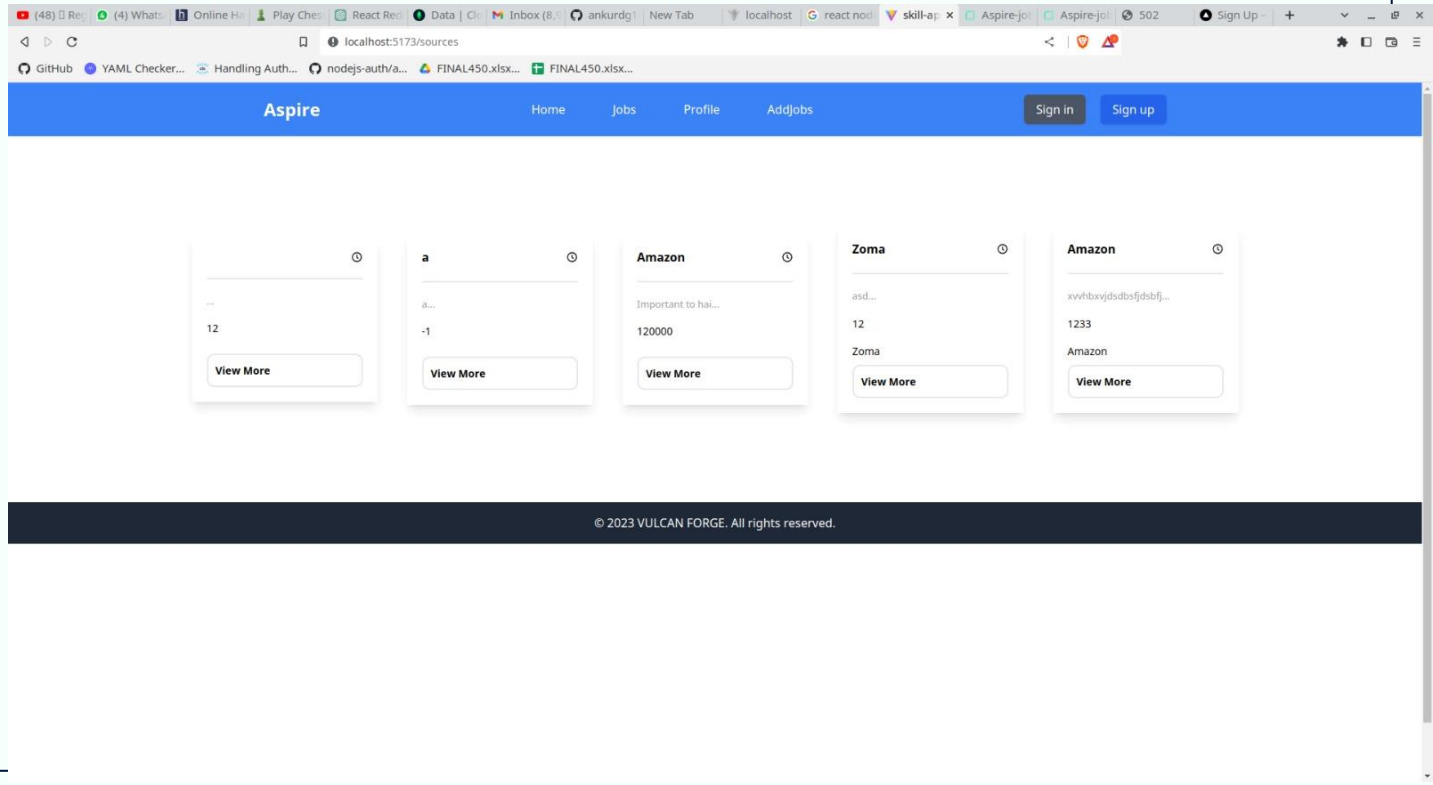
GitHub
YAML Checker...
Handling Auth...
nodejs-auth/a...
FINAL450.xlsx...
FINAL450.xlsx...
Aspire
Home
Jobs
Profile
AddJobs
Sign in
Sign up
Find Perfect candidate for a dream Job
Search through thousands of job listings and apply today.
Enlist Jobs
Scholarships
Find funding opportunities to help support your education.
Courses
Discover new skills and take your career to the next level.
Tutorials
Learn from experts in your field and grow your knowledge.
Jobs
Find your next career opportunity and apply today.
About Us
Get the best talent for your business with our job enlisting platform - find the perfect candidate for your team today!"

Job:

Jobs: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GitHub
YAML Checker...
Handling Auth...
nodejs-auth/a...
FINAL450.xlsx...
FINAL450.xlsx...
Aspire
Home
Jobs
Profile
AddJobs
Sign in
Sign up
12
View More
a
-1
View More
Amazon
Important to hai...
120000
View More
Zoma
asd...
12
Zoma
View More
Amazon
1233
Amazon
View More
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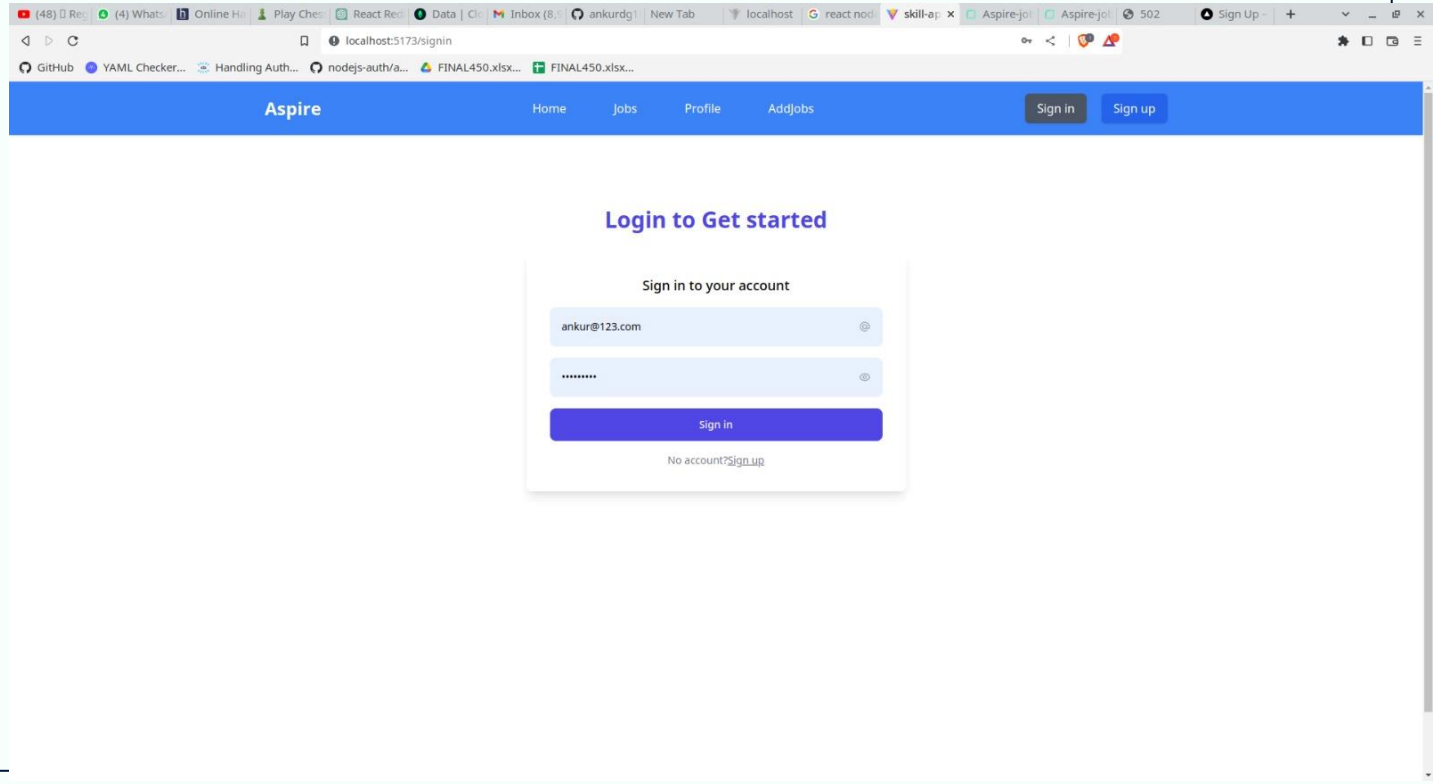
Job:

Jobs:


localhost:5173/signin
GitHub
YAML Checker...
Handling Auth...
nodejs-auth/a...
FINAL450.xlsx...
FINAL450.xlsx...
Aspire
Home
Jobs
Profile
AddJobs
Sign in
Sign up
Login to Get started
Sign in to your account
ankur@123.com
Sign in
No account?Sign up

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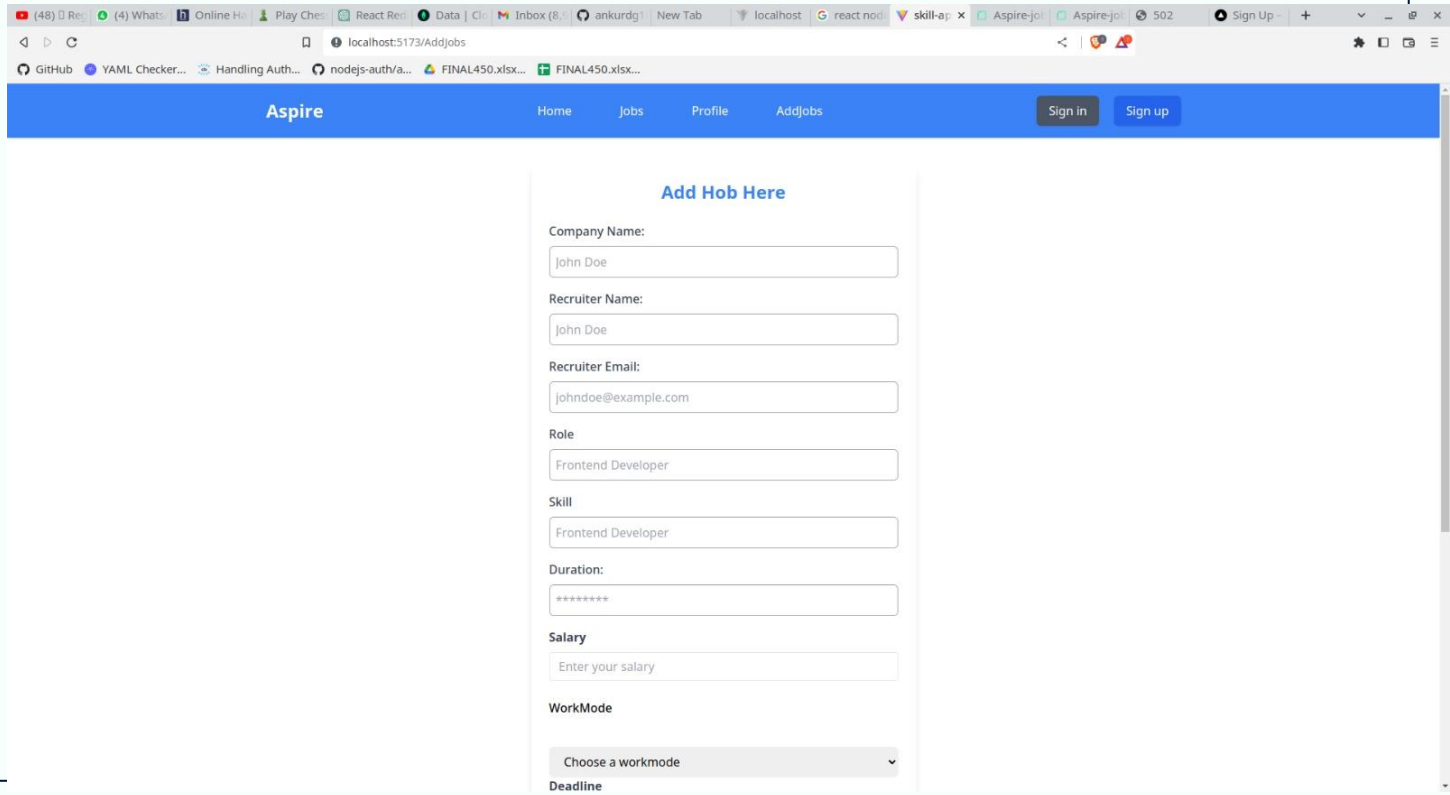
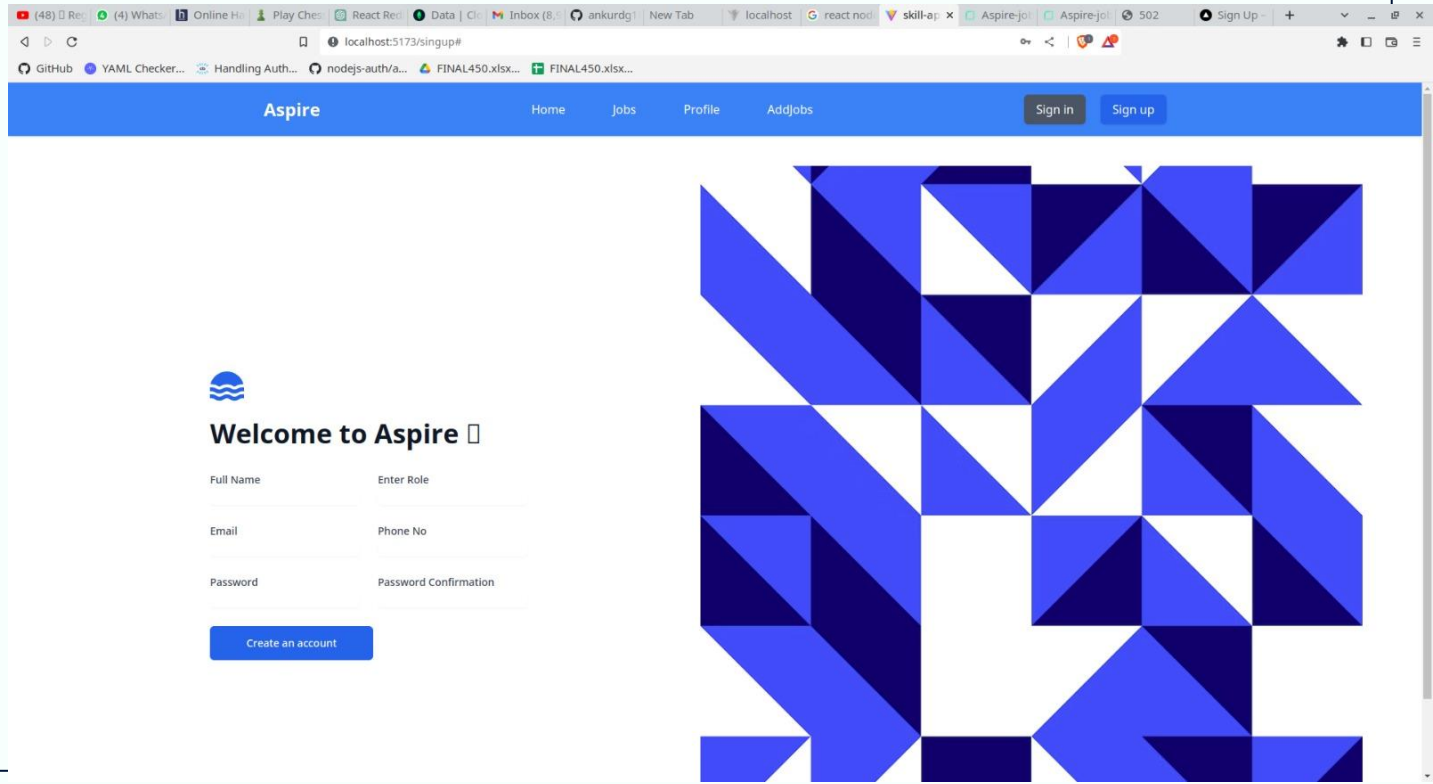
Job:

Jobs:



Job:

Jobs: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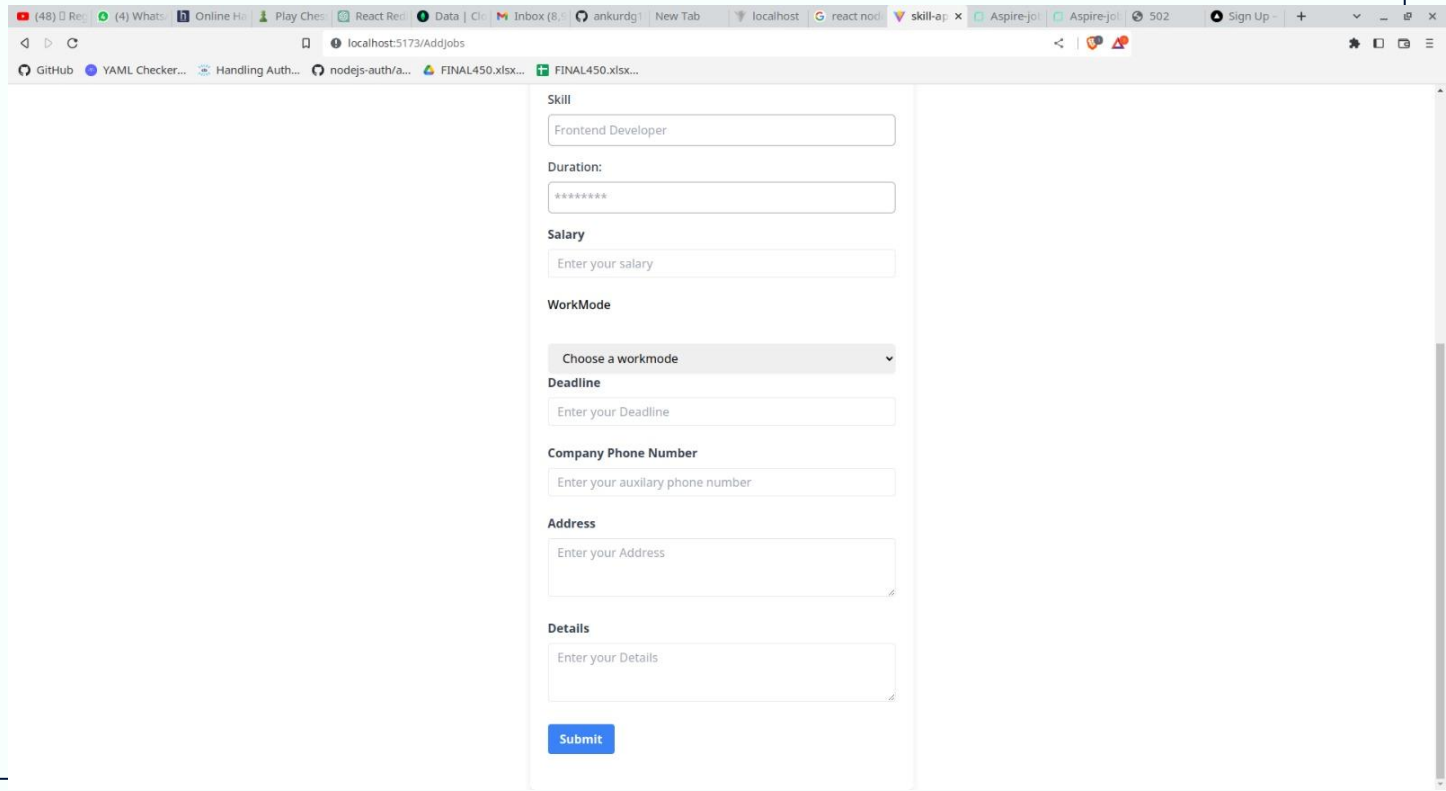
GitHub
YAML Checker...
Handling Auth...
nodejs-auth/a...
FINAL450.xlsx...
FINAL450.xlsx...
Aspire
Home
Jobs
Profile
AddJobs
Sign in
Sign up
Welcome to Aspire
Full Name
Enter Role
Email
Phone No
Password
Password Confirmation
Create an account

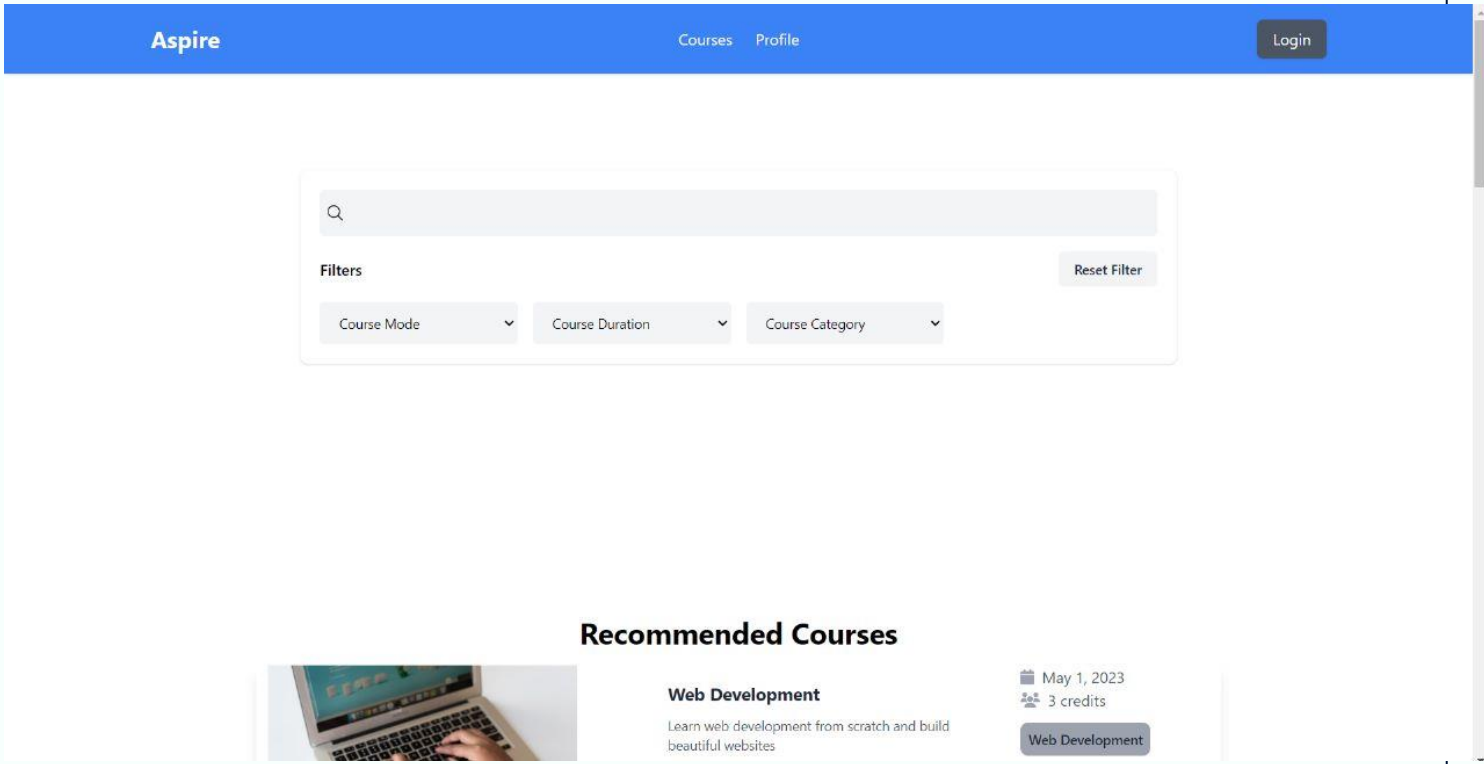
Job:

Jobs:


localhost:5173/AddJobs
GitHub
YAML Checker...
Handling Auth...
nodejs-auth/a...
FINAL450.xlsx...
FINAL450.xlsx...
Skill
Frontend Developer
Duration:
****
Salary
Enter your salary
WorkMode
Choose a workmode
Deadline
Enter your Deadline
Company Phone Number
Enter your auxilary phone number
Address
Enter your Address
Details
Enter your Details
Submit

Courses:

Courses:



Courses:

Courses:

Recommended Courses

Web Development

Learn web development from scratch and build beautiful websites

8 weeks

John Doe

May 1, 2023

3 credits

Web Development

Read More

Mobile App Development

Build mobile applications for iOS and Android using React Native

2 weeks

Jane Doe

June 1, 2023

4 credits

Mobile App Development

Read More

Data Science

Learn data science from scratch and analyze real-world data sets

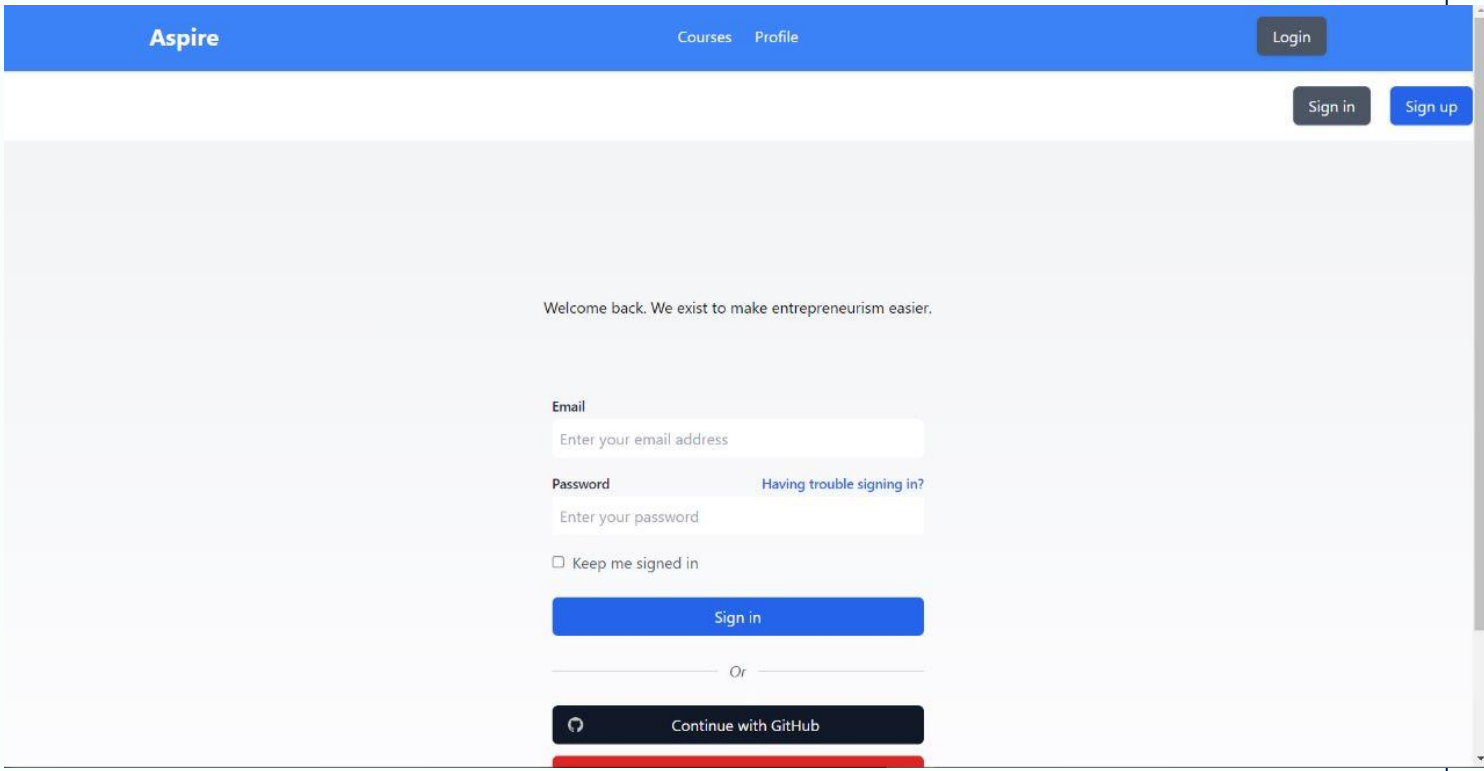
July 1, 2023

3 credits

Data Science

Courses:

Courses:



Courses:

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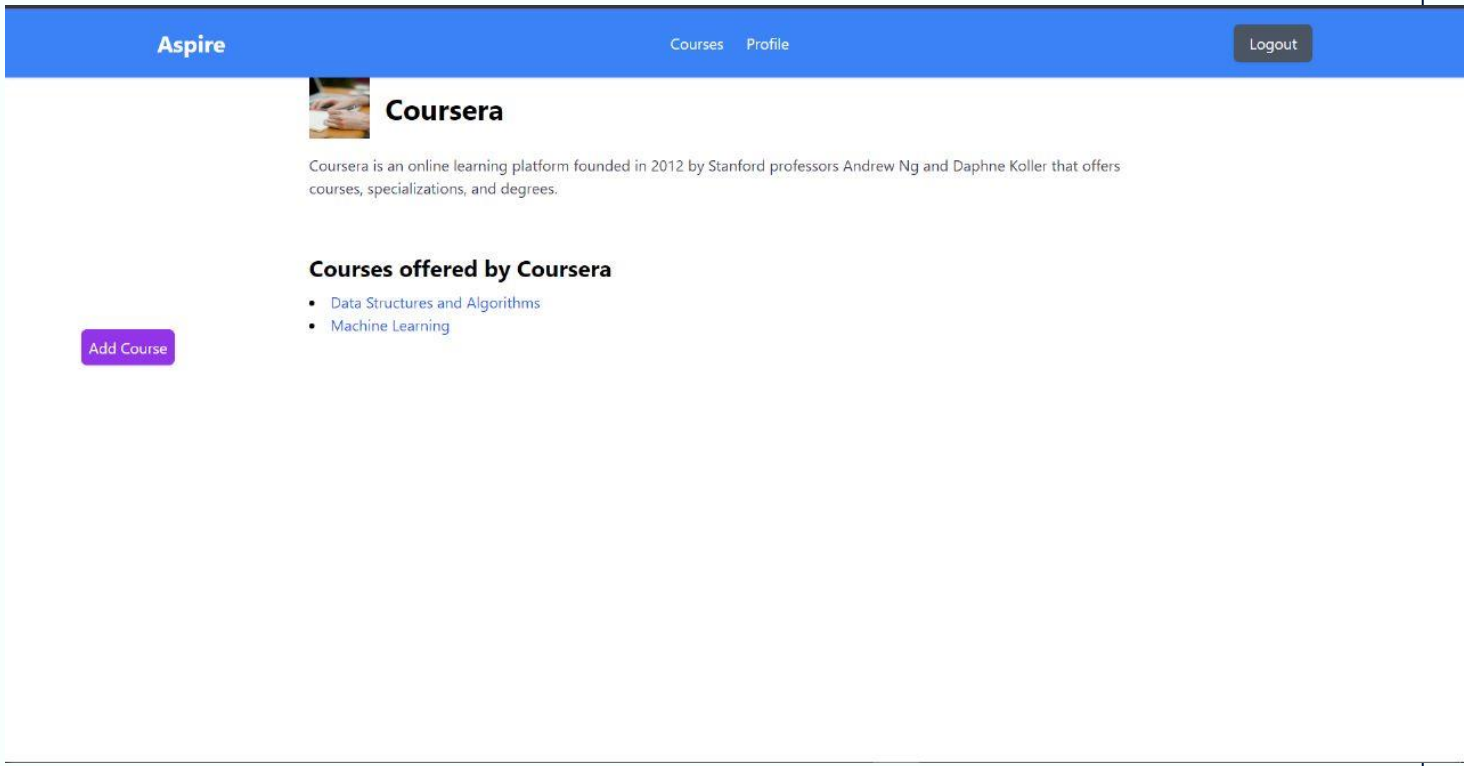
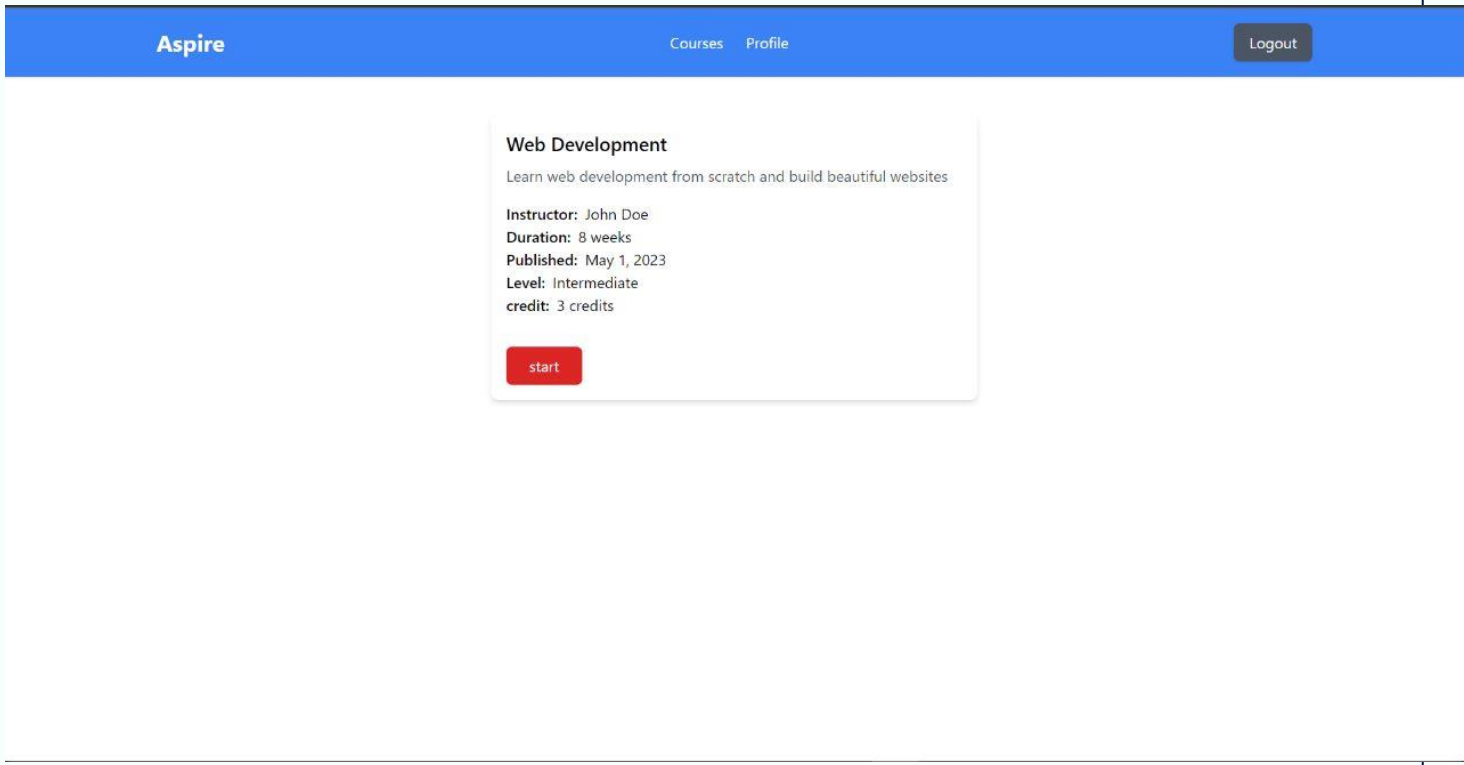


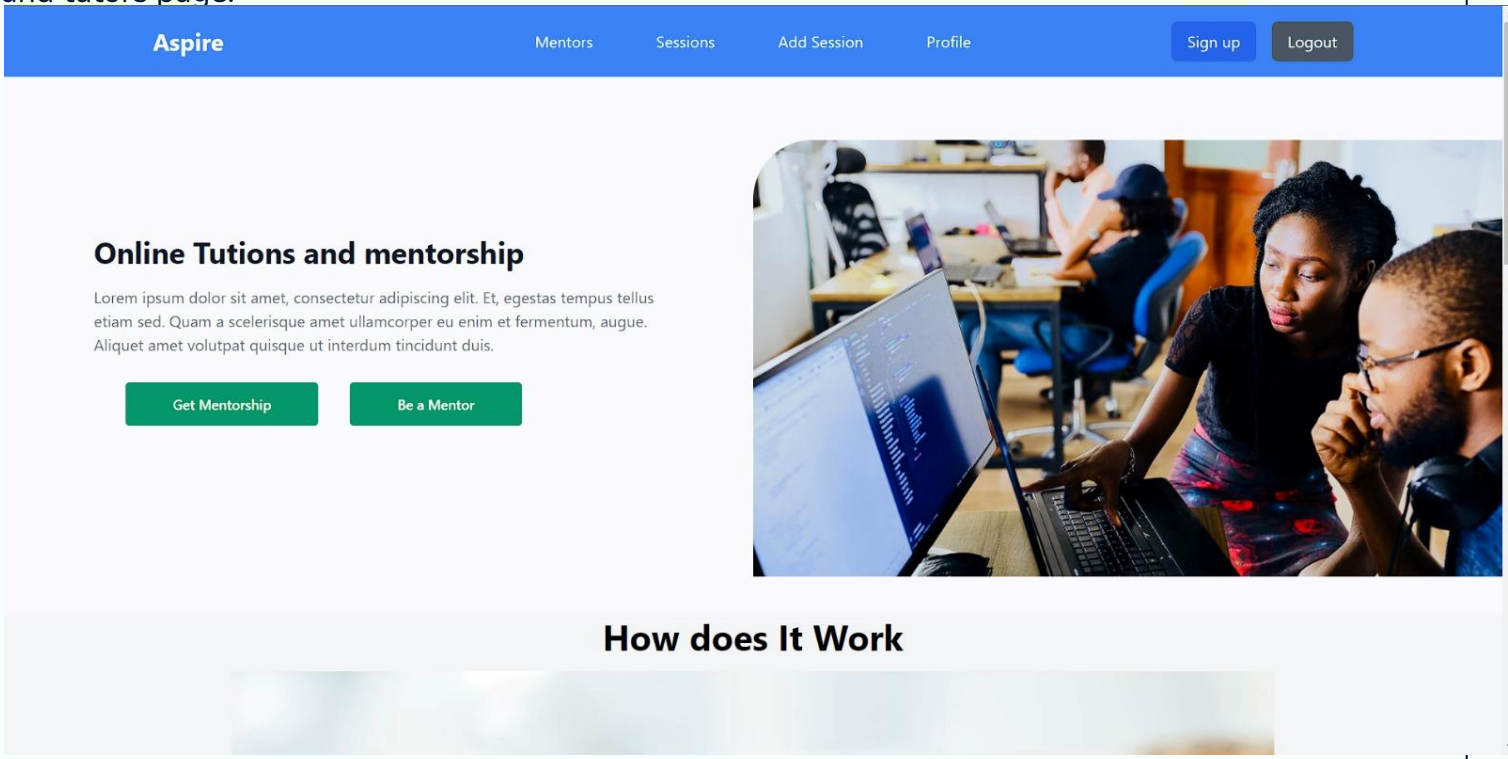
Courses:

Courses:



Mentors and tutors page

Mentors and tutors page:



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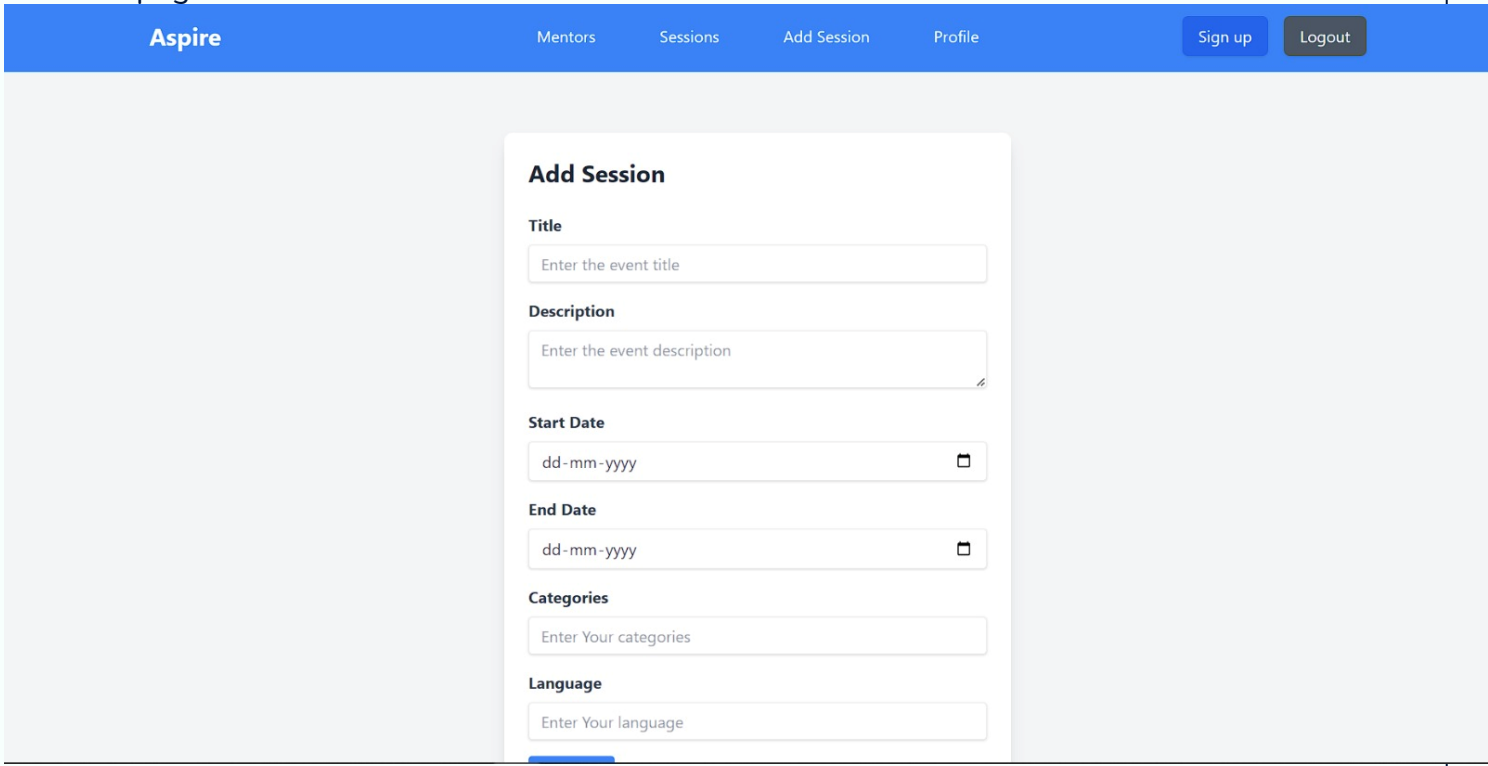

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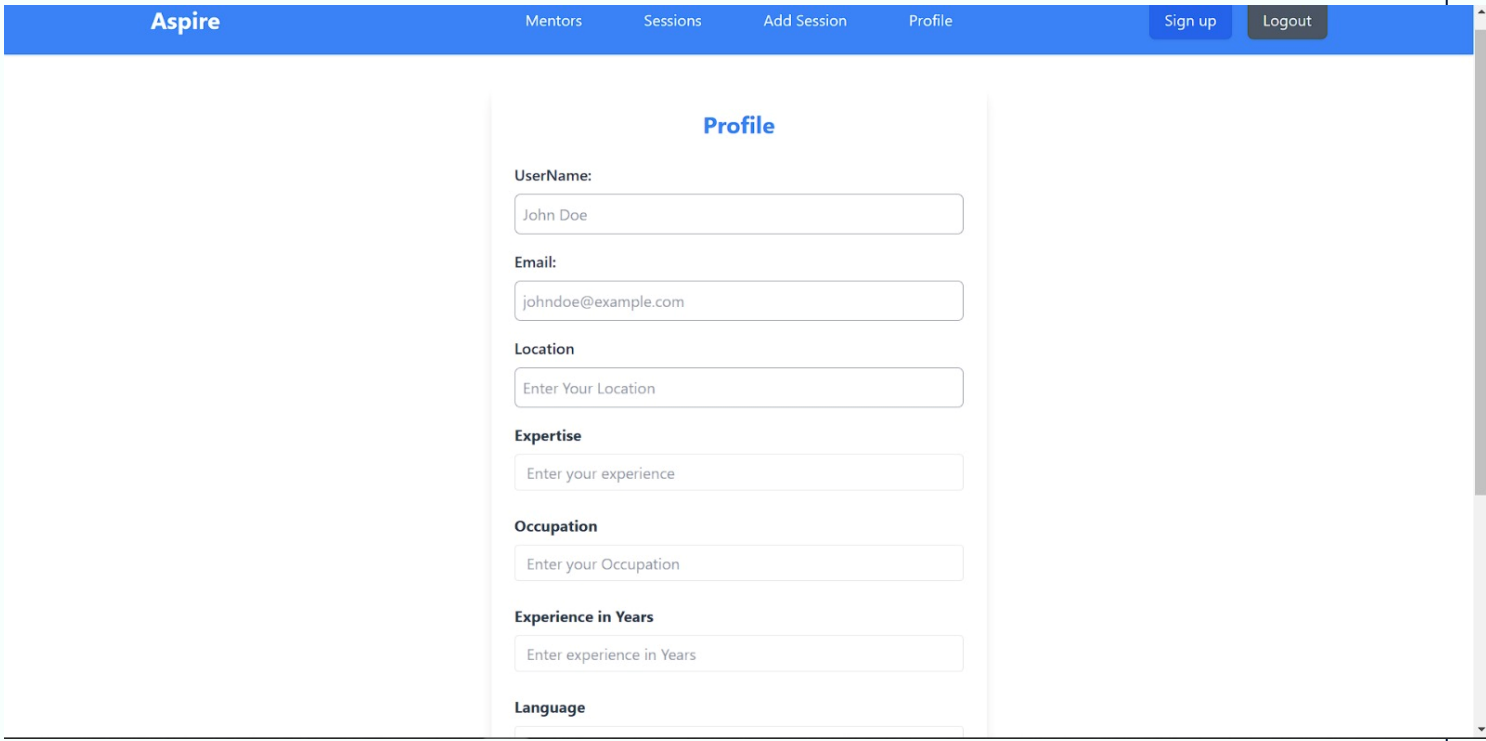

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Thank you!
POWERED BY
EkStep Foundation
National Digital Education Architecture
Digital Infrastructure for the education ecosystem
SUPPORTED BY
ONDC
Open Network for Digital Commerce
FIDE
Foundation for Interoperability in Digital Economy
NASSCOM
futureskills prime