



IS3172 - Ethnic Cohesion and Social Harmony

EcoVent Innovation Hub

Pioneering in Talent Development for a Greener Future...

Group 02 - Sub Group 01

Our Group...

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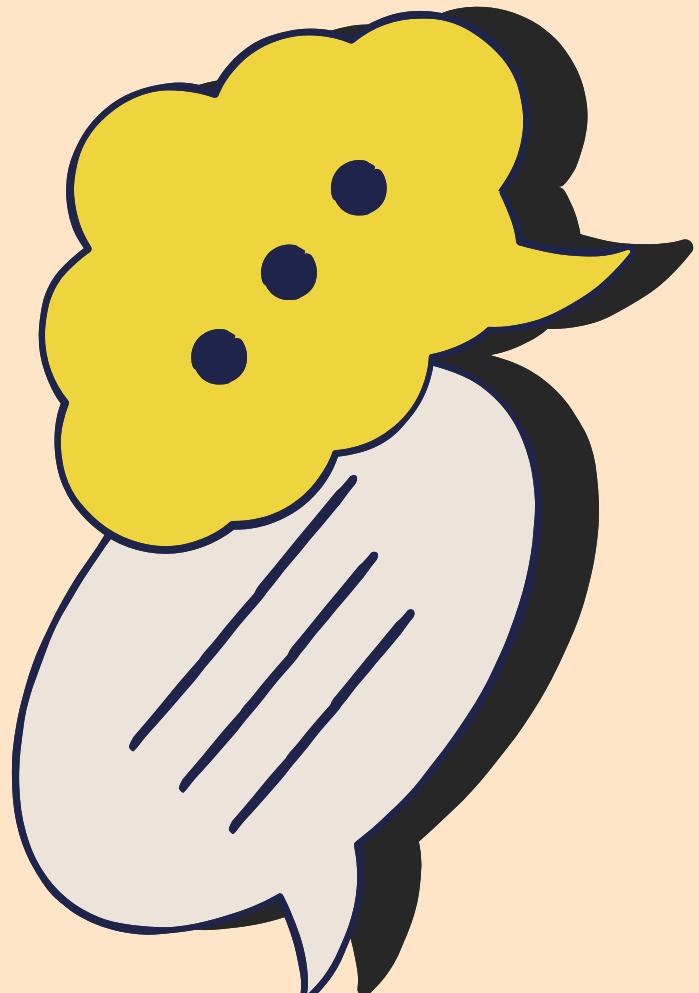
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- 03** How it operates
- 04** Challenges faced while implementing and Strategies to Overcome
- 05** Innovation Hub Portal Integration

Problem Identification

Education system in a predefined path.

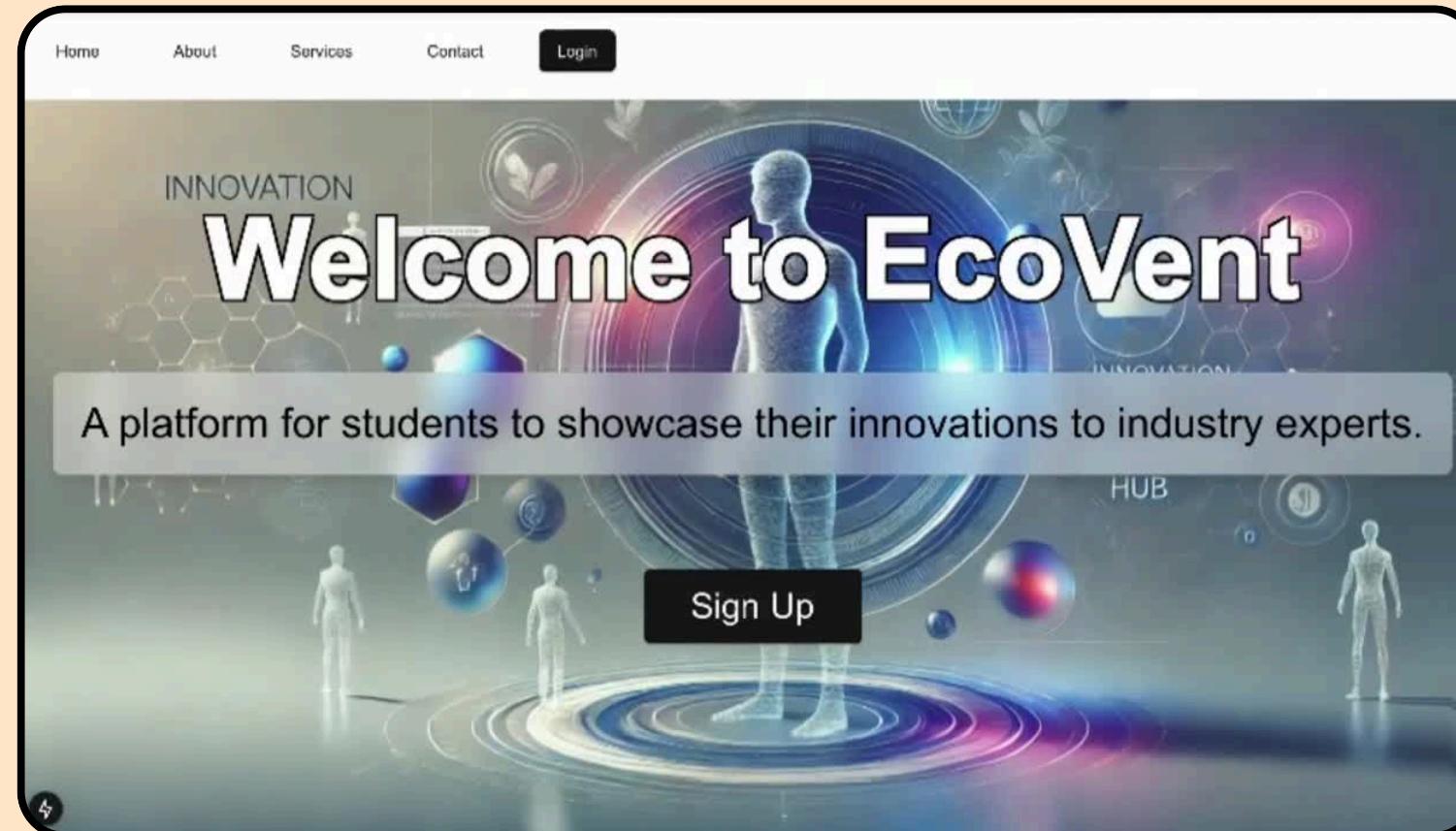
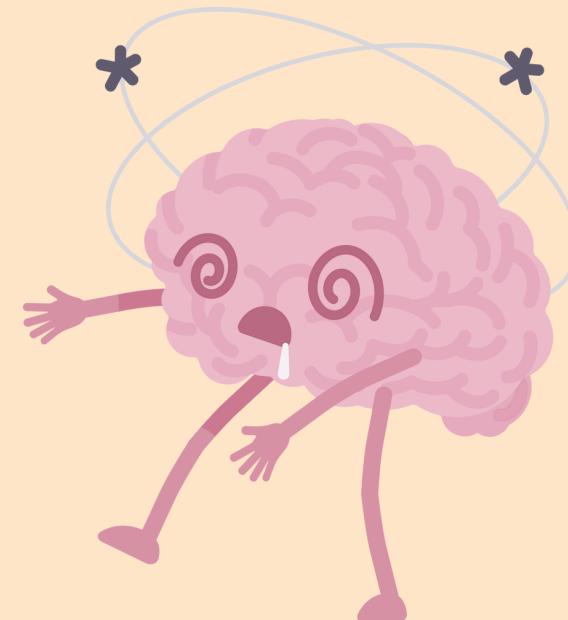
- Society strongly emphasizes predefined educational and career paths, such as steering children predominantly towards becoming doctors or engineers.
- Addressing these challenges is essential to protect mental health, foster genuine innovation, reduce social and economic inequalities, and strengthen community bonds. By promoting professionalism, individual fulfillment, and happiness, we can build a more equitable and harmonious society.



PROPOSED SOLUTION

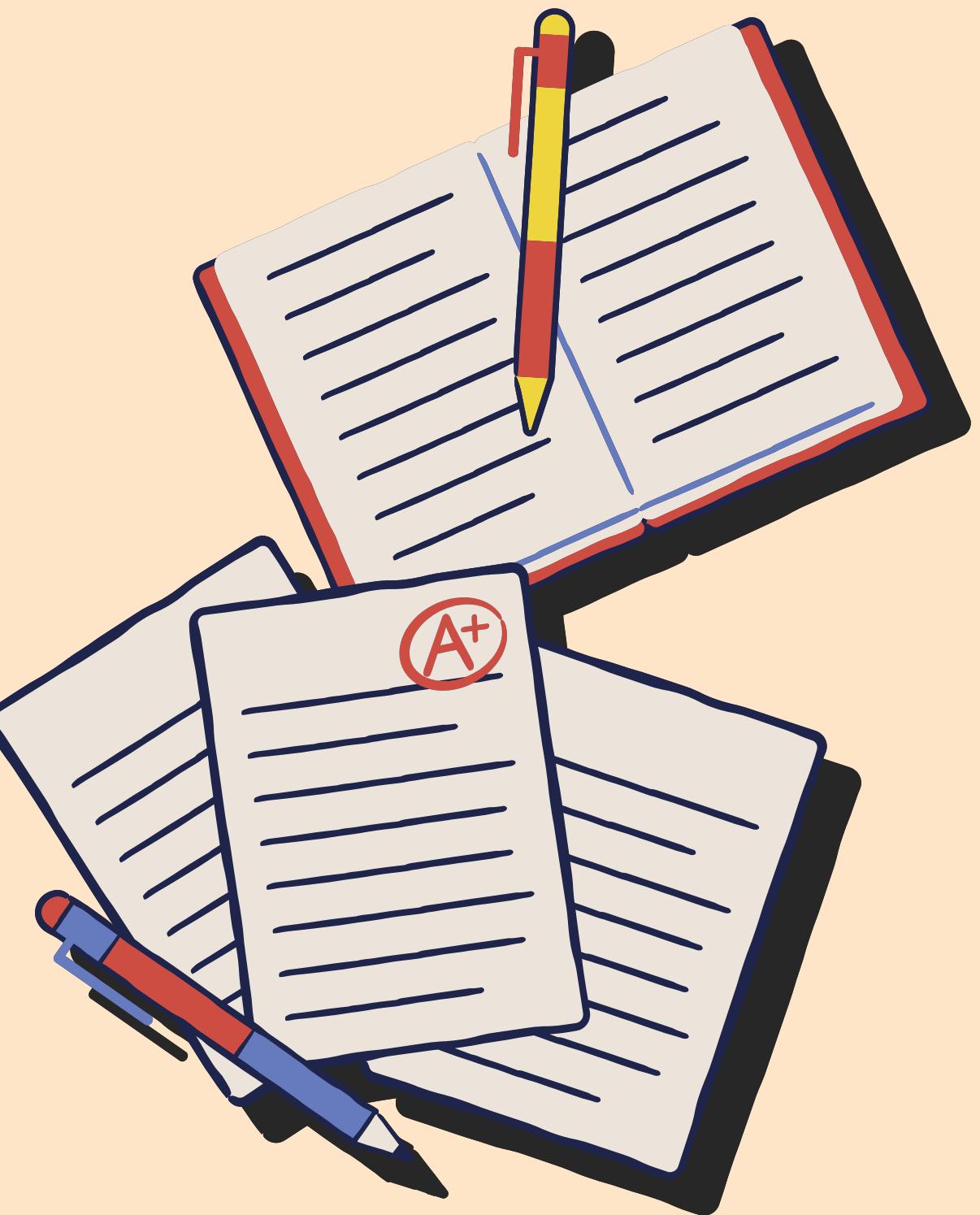
Establish an Innovation hub web portal.

- Establish an Innovation hub for students to develop and showcase innovative ideas.
- Focus on encouraging entrepreneurial thinking, especially in engineering related fields, in the initial phase.
- Make the web portal integratable for existing businesses and new ventures.



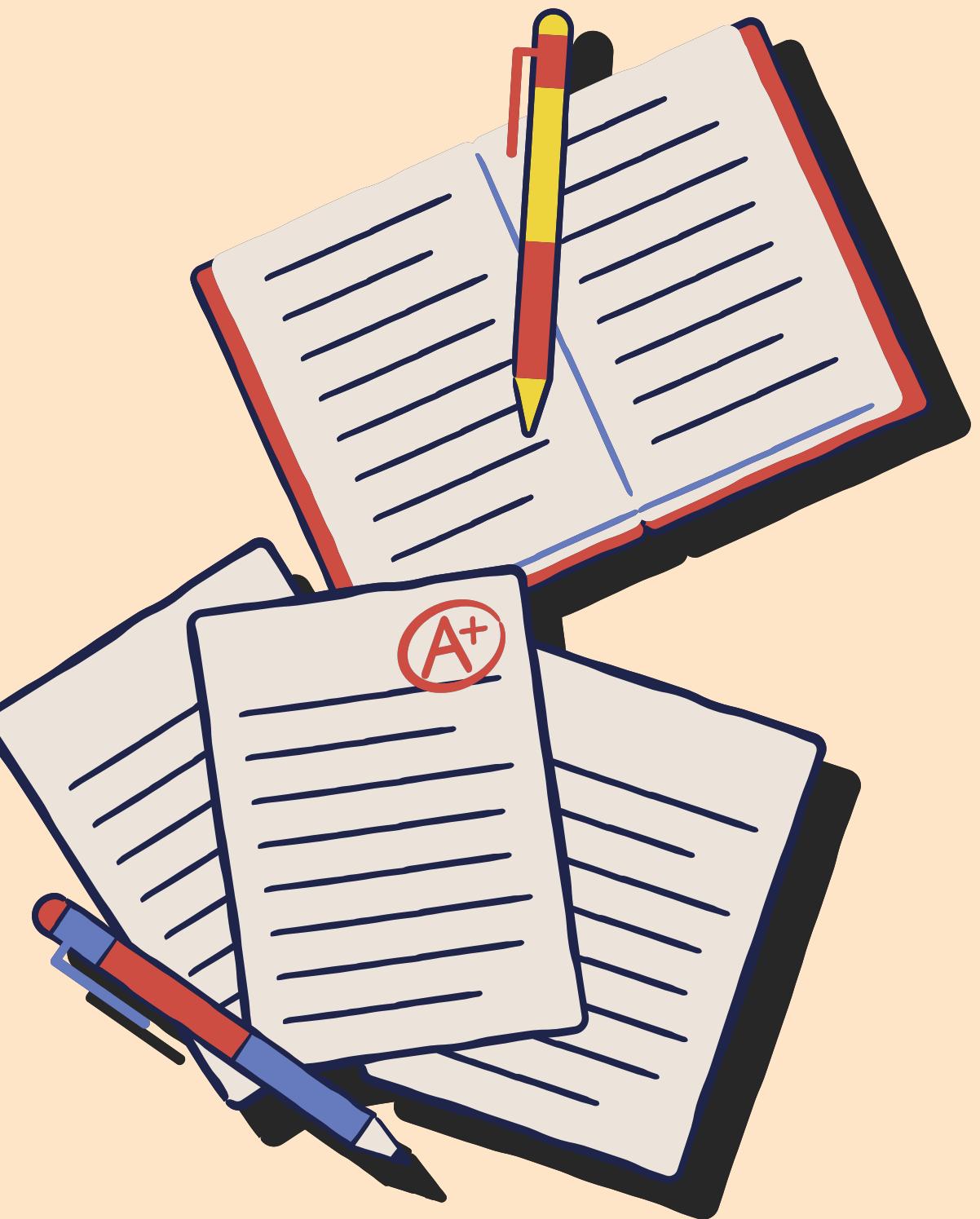
How It Operates...

- The Innovation Hub provides an alternative for traditional career paths by encouraging students to think like entrepreneurs and emphasizing sustainable solutions for engineering problems.
- The platform will include communication tools, an interface to submit innovative ideas, and task distribution to mentors, who are engineers from different industries.



How It Operates...

- While mentors assist students with improving their idea and implementation by providing resources and technical support, a panel of experts will evaluate ideas for grant eligibility.
- In line with its objective to promote sustainable innovation and assist green tech firms, the hub will facilitate project marketing, link students with investors, and set up a revenue-sharing arrangement where the company gains from successful projects.



Challenges faced while implementing and Strategies to Overcome

Protecting Intellectual Property (IP) -

- Before proposing the idea the company comes to an agreement with the innovator to protect their IP under legal advise.
- Make online resources and tools for IP protection, such as copyright, trademark, and patent filing, accessible.

Evaluating and Prioritizing Ideas-

- Create multiple review stages involving diverse experts to minimize bias

Challenges faced while implementing and Strategies to Overcome

Building Trust Among Stakeholders-

- Provide investors and mentors with clear profiles that demonstrate their trustworthiness.

Attracting investors to the project -

- Investors can own a stake in the startups developed within the Hub, allowing them to share in the profits and growth of these ventures.

Creating a simple and engaging interface for users.

Innovation Hub Portal Integration...

Student Perspective

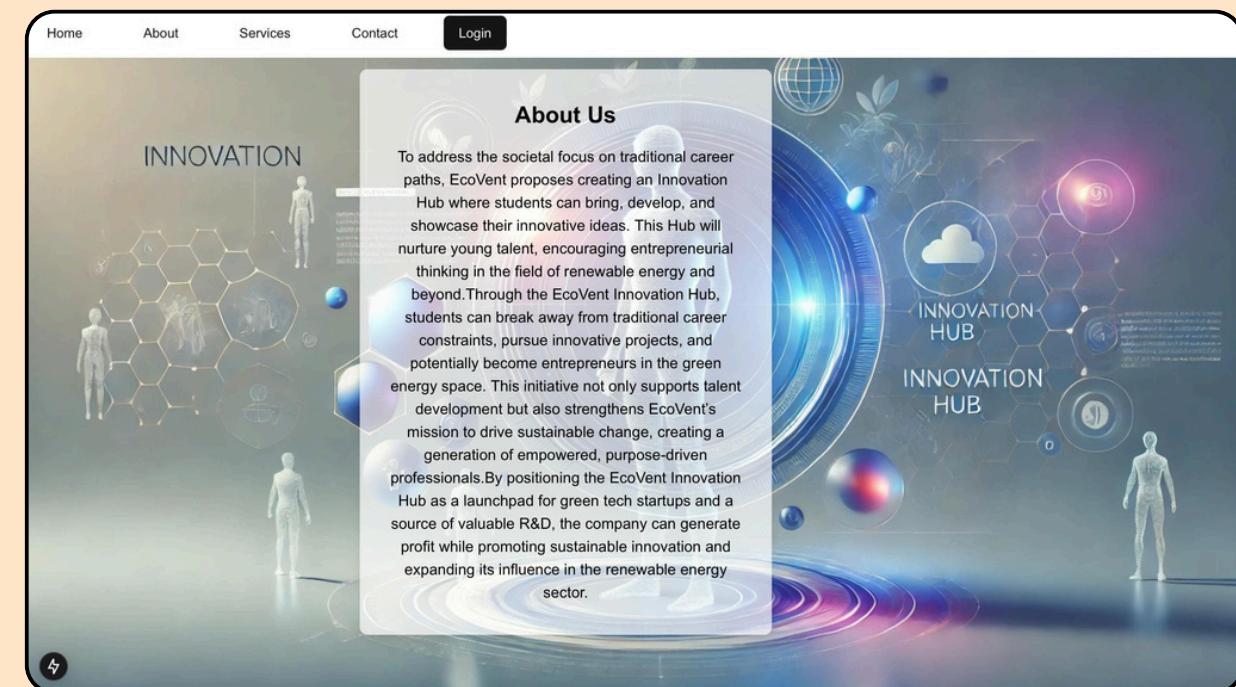
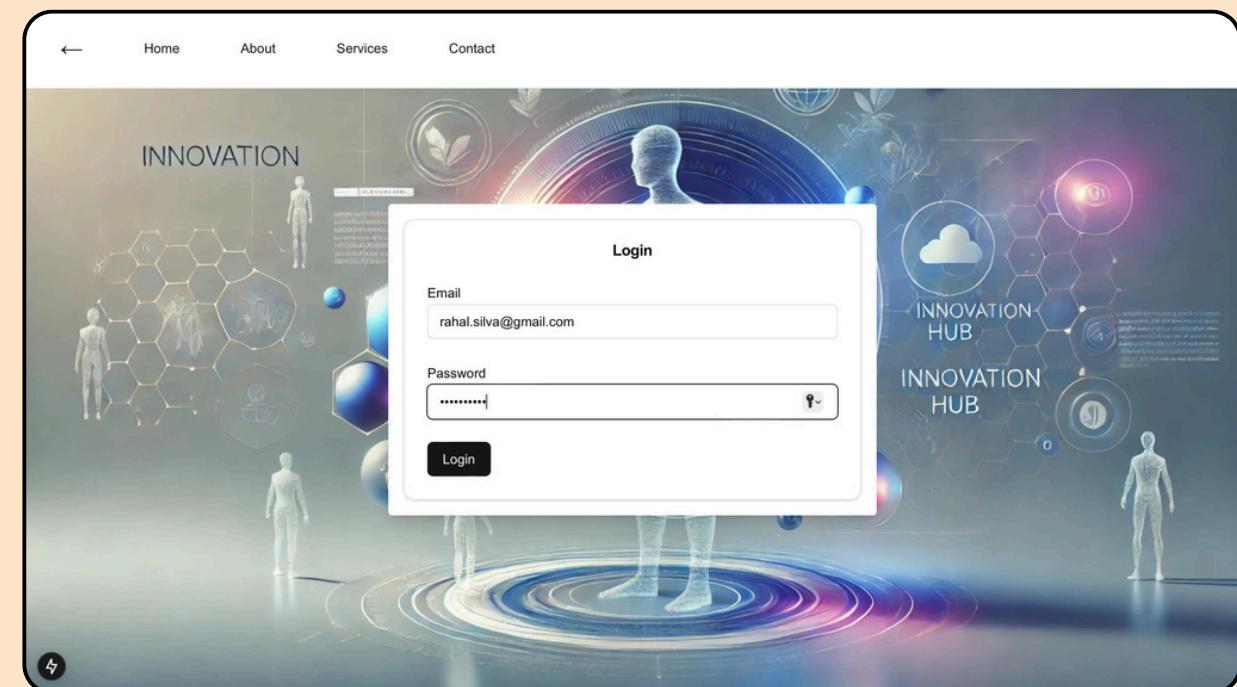
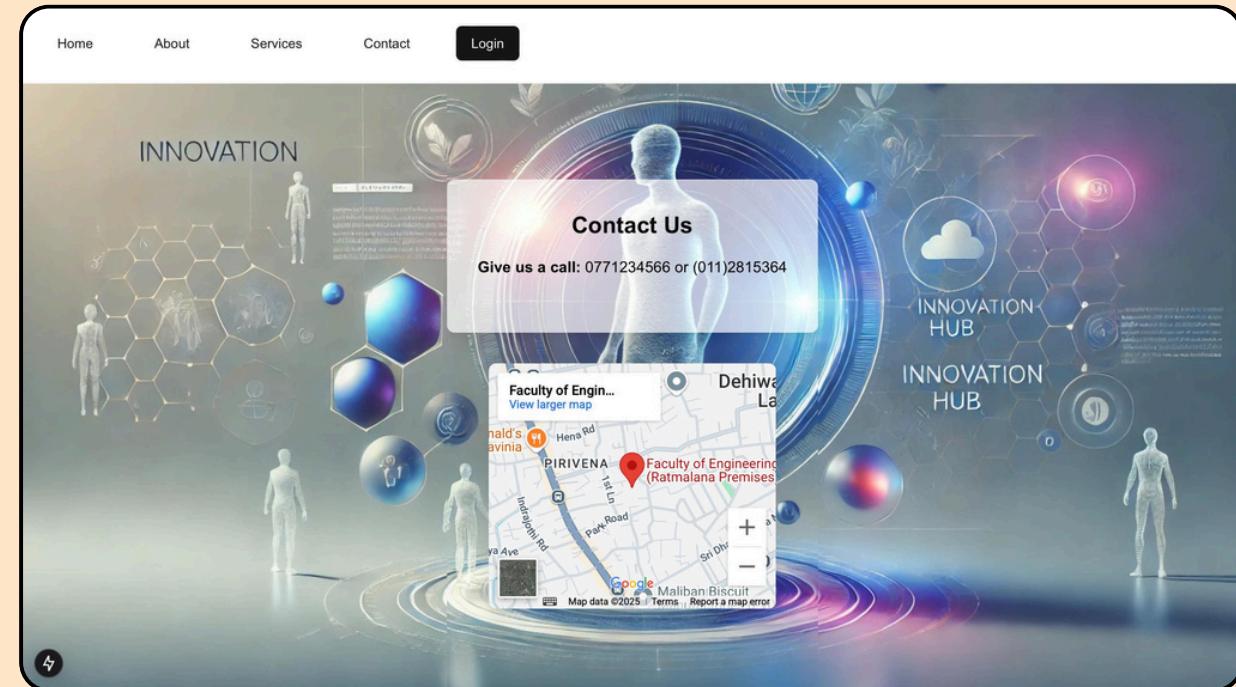
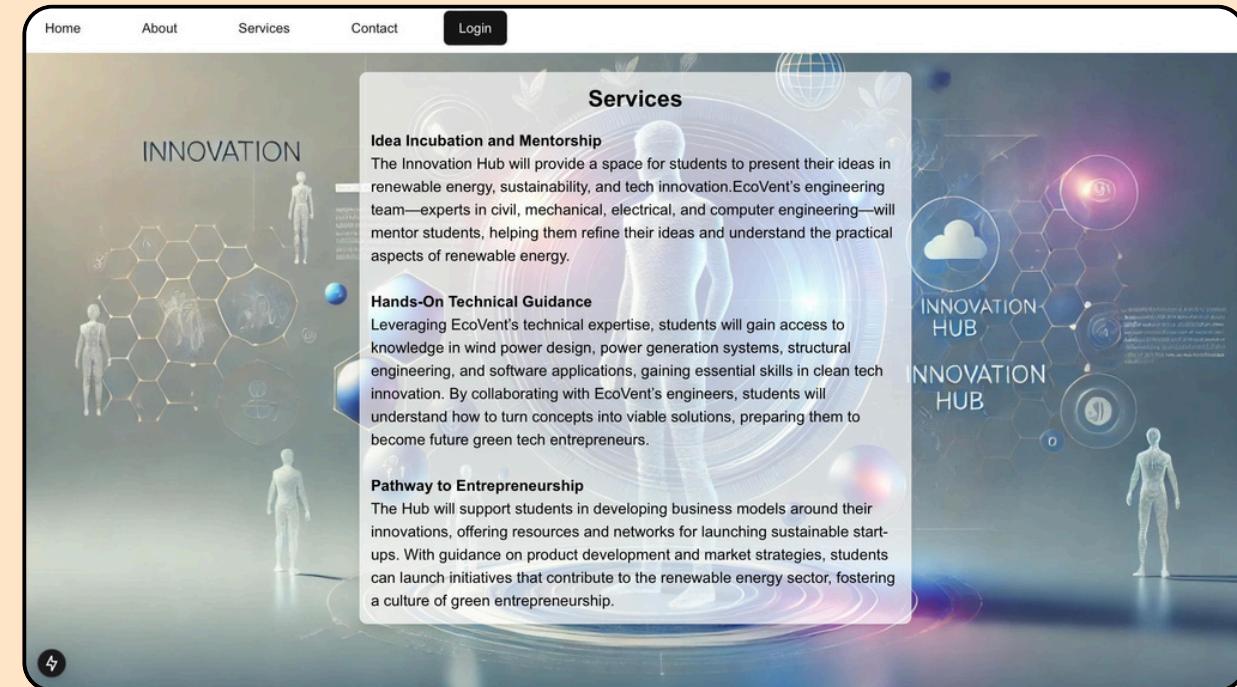
Students can use the platform to post their innovative ideas, receive guidance via chat and advice from industry experts, and explore job opportunities. They can also interact with each others' project, comment their perspectives to make forum discussions.



Facilitator/Administrator Perspective

Administrators are responsible for coordinating and maintaining the web portal. They manage web settings, ensure the platform remains up to date, and oversee content moderation to maintain a professional and productive environment for students and industry professionals.

Homepage



Services, About,
Contact and Initial
Login Pages

Student Login Process

← Home About Services Contact

INNOVATION

Name
Vidushi Pathirana

Email
vidushi@gmail.com

Role
Student

Password
••••••••

Confirm Password
••••••••

I agree to the [Terms and Conditions](#), [Privacy and Policy](#)

Register

Terms & Conditions

← Home About Services Contact

Terms and Conditions for Idea Submission and Intellectual Property Protection

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1. Introduction

Welcome to Innovation HUB. This platform enables students to present their innovations (ideas) and allows industry experts and investors to view these ideas.

2. Ownership of Ideas

- All ideas submitted on the platform remain the personal intellectual property (IP) of the students who present them.
- The platform does not claim ownership of the ideas and only facilitates their promotion.
- Users are responsible for ensuring the confidentiality and ownership of their ideas.

3. Confidentiality and Public Disclosure

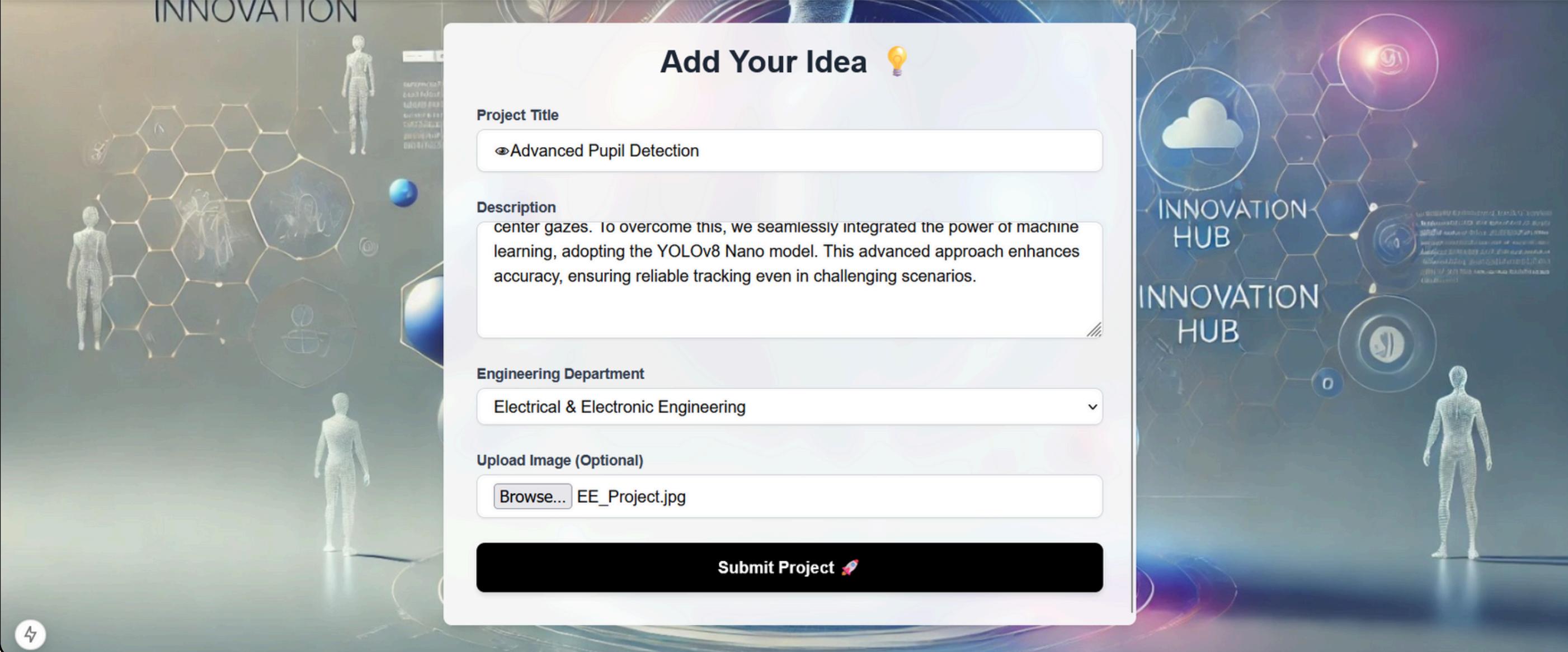
- Ideas submitted on the platform can be viewed by investors and industry experts and discussed with them if necessary.
- The platform does not guarantee complete confidentiality.
- Users are advised not to disclose highly sensitive information or technical details.
- Before submission, users should consider patenting, trademarking, or registering their intellectual property where applicable.

4. Use by Industry Experts and Investors

 Industry experts and investors are granted access only to explore ideas and opportunities.
• They cannot copy, use, or implement ideas without legal permission.

Project Upload Interface

Home About Services Contact



Add Your Idea 💡

Project Title

Description
center gazes. To overcome this, we seamlessly integrated the power of machine learning, adopting the YOLOv8 Nano model. This advanced approach enhances accuracy, ensuring reliable tracking even in challenging scenarios.

Engineering Department

Electrical & Electronic Engineering

Upload Image (Optional)

Submit Project 🚀

Project Review Page

Home About Services Contact

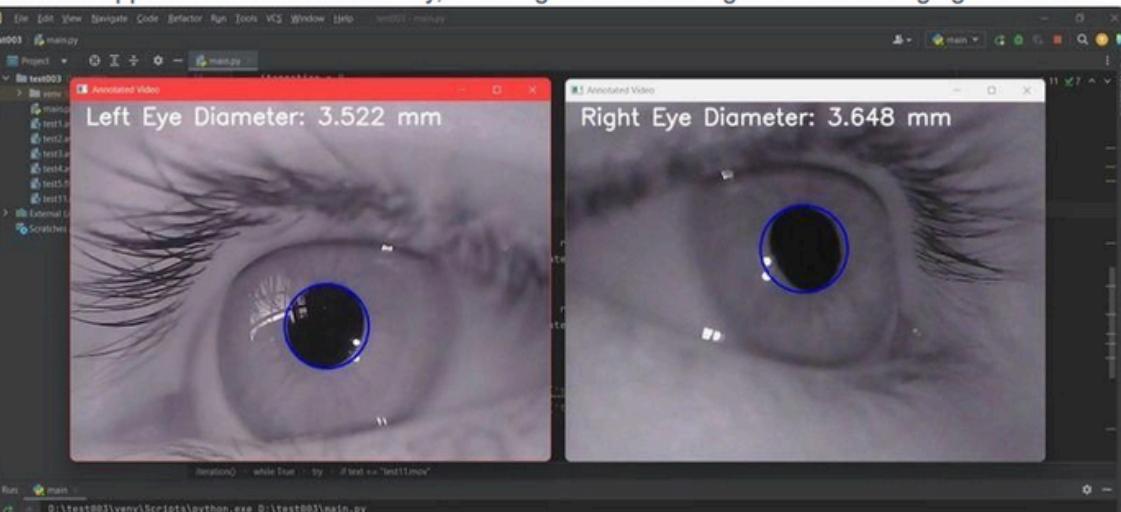
News Feed Ads Add New Project

Project News Feed 🚀

Owner: vidushi Pathirana

Title: 🎯 Advanced Pupil Detection

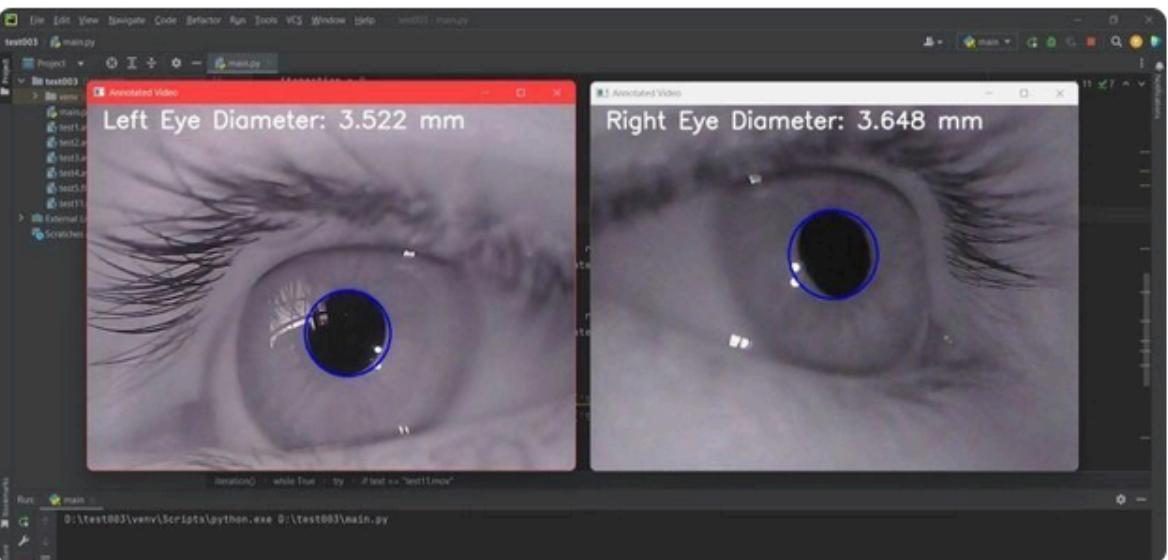
Leveraging cutting-edge image processing techniques, we initially focused on precise pupil detection. However, challenges arose with closed eyes and off-center gazes. To overcome this, we seamlessly integrated the power of machine learning, adopting the YOLOv8 Nano model. This advanced approach enhances accuracy, ensuring reliable tracking even in challenging scenarios.



Chat

Project Comment Forum

overcome this, we seamlessly integrated the power of machine learning, adopting the YOLOv8 Nano model. This advanced approach enhances accuracy, ensuring reliable tracking even in challenging scenarios.



Department: Electrical & Electronic Engineering
Created at: 2/26/2025, 11:37:03 PM

Comments

Great Job!!! I would like to help you
2/26/2025, 11:54:16 PM

Add a comment...

Submit

Students can go through uploaded project briefs and can comment/start forum discussions amongst themselves.

Student Chat Interface

Home About Services Contact

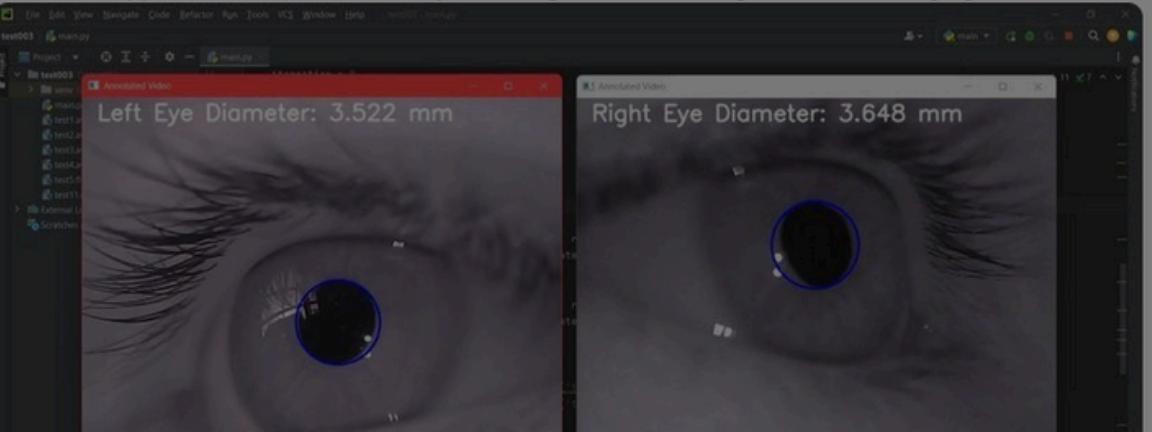
News Feed Ads Add New Project

Project News Feed 🚀

Owner: vidushi Pathirana

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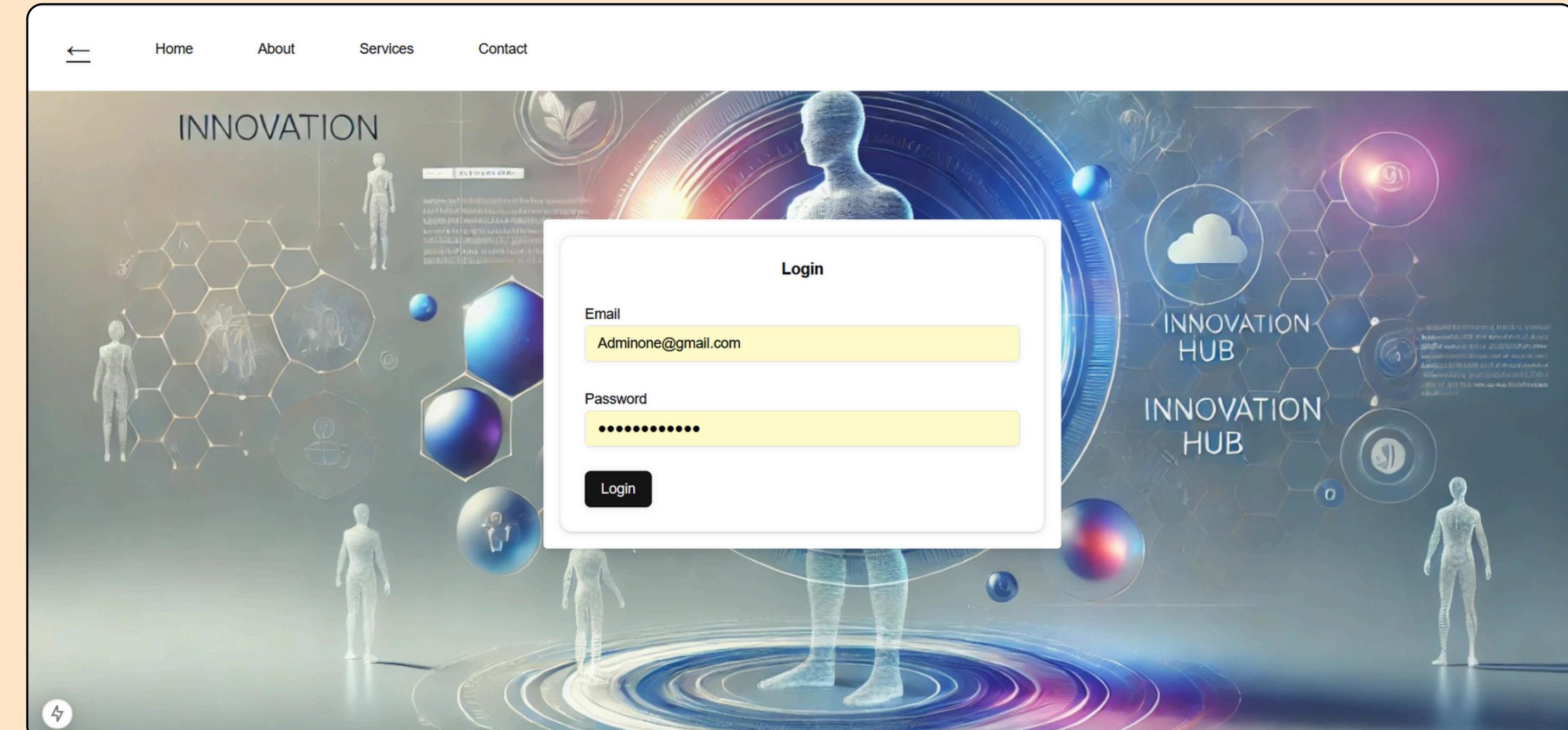
EcoVent Chat

Hello Admin

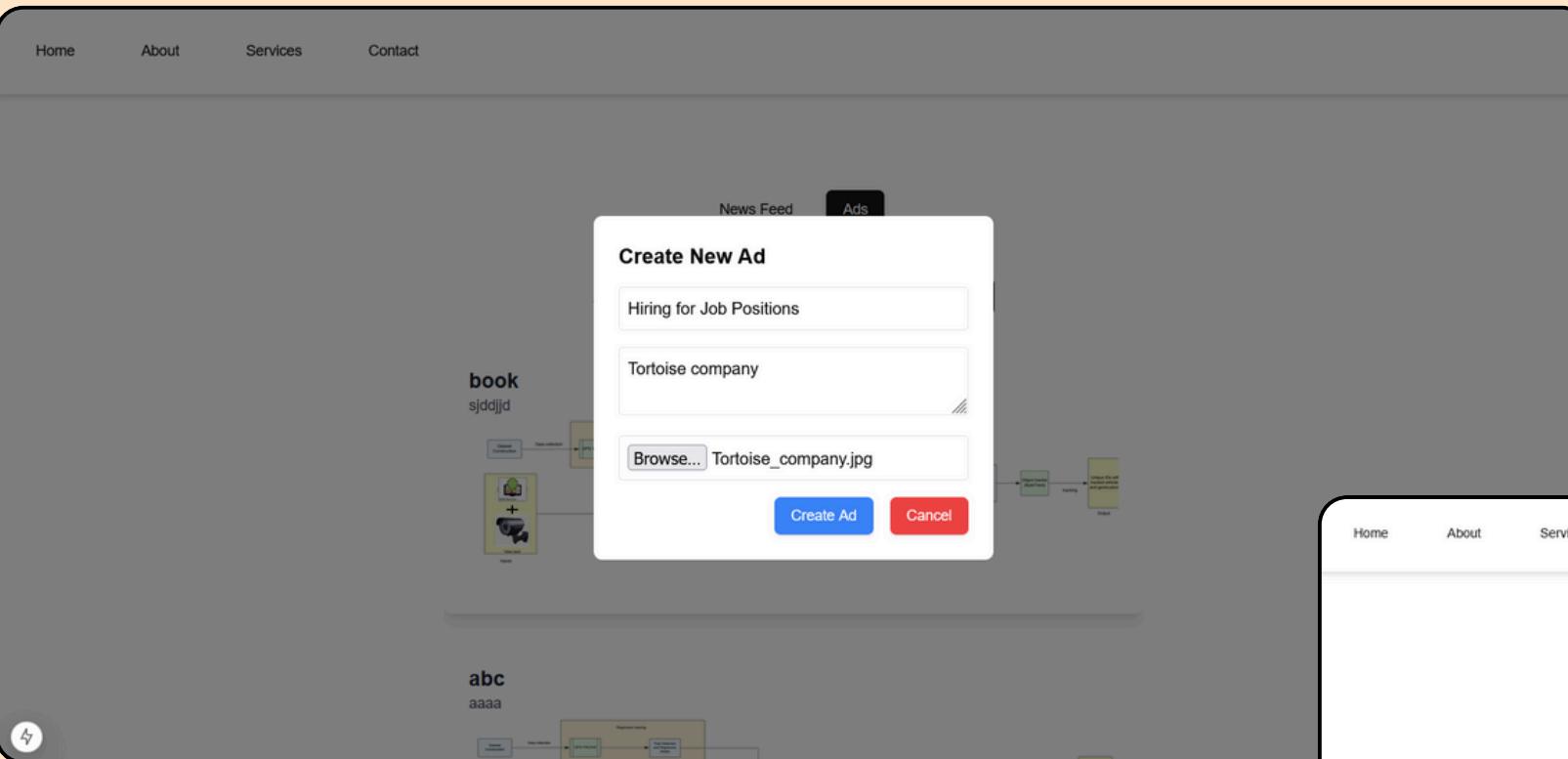
Hi! How can I assist you today? Can you please clarify your request?

Type a message... 

Administrator Login Process

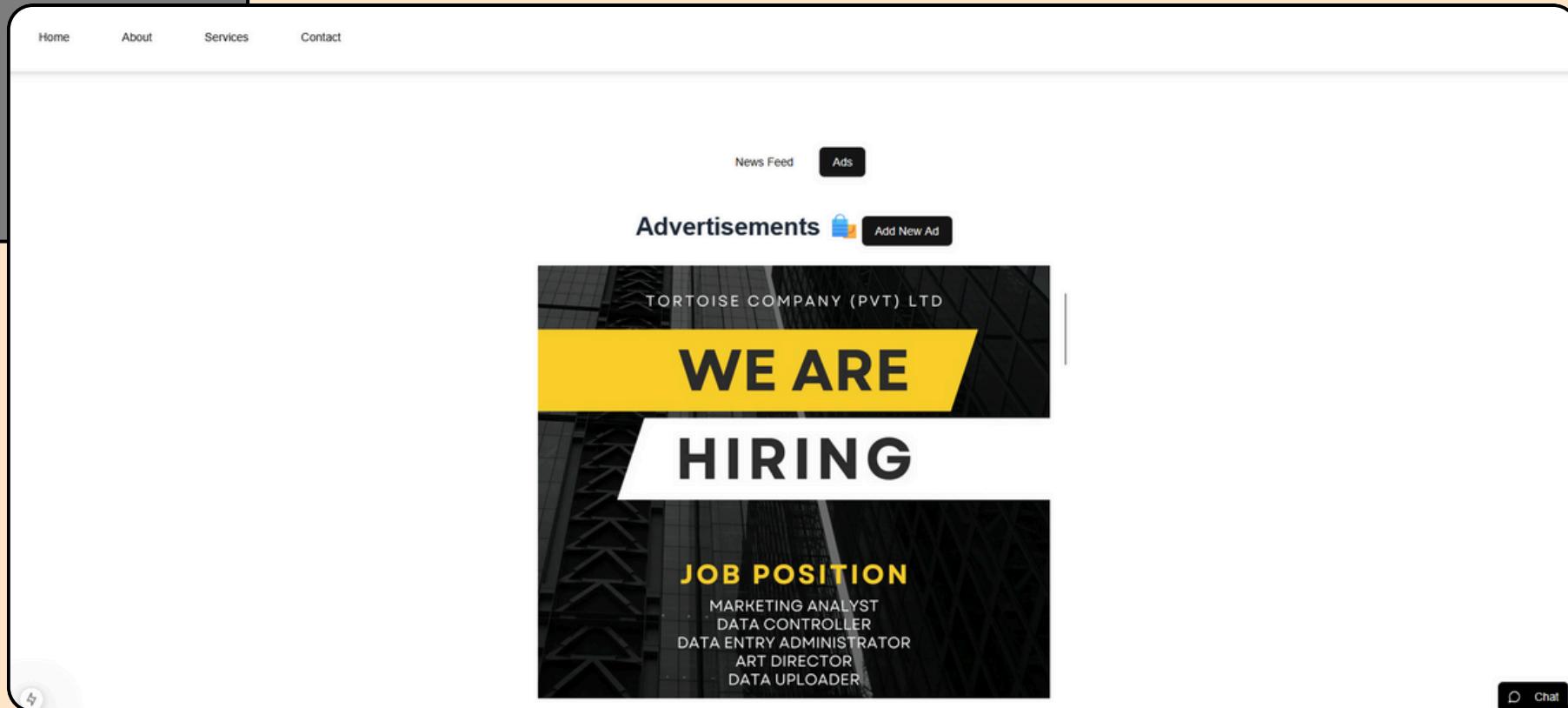


Advertisement Addition from Admin/Company



Advertisement Posting from Admin

Posted Advertisement



Administrator Project Review

Home About Services Contact

News Feed

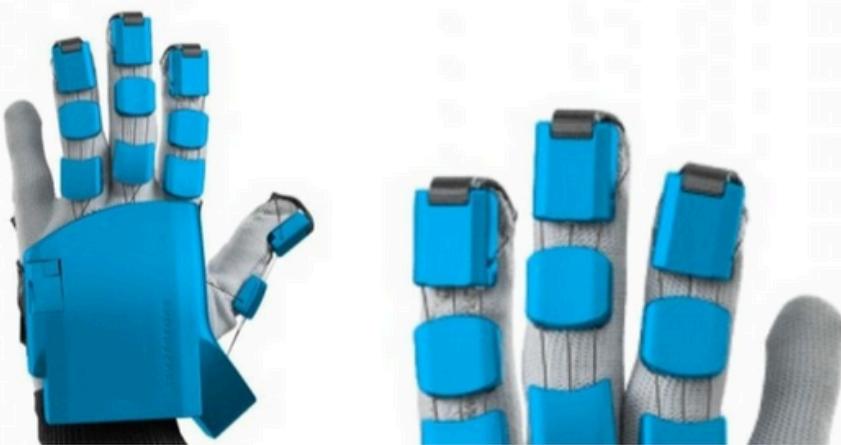
Ads

Project News Feed 🚀

Owner: shamika

Title: Electronic project

If you plan to extend the bot functionality, you could add a way for users to choose a specific bot (if there are multiple), or even let them enter commands for the bot to respond to specific queries. Overall, this is a solid foundation for a chat app! Let me know if you need help implementing any of these features or if you have other ideas you'd like to explore.

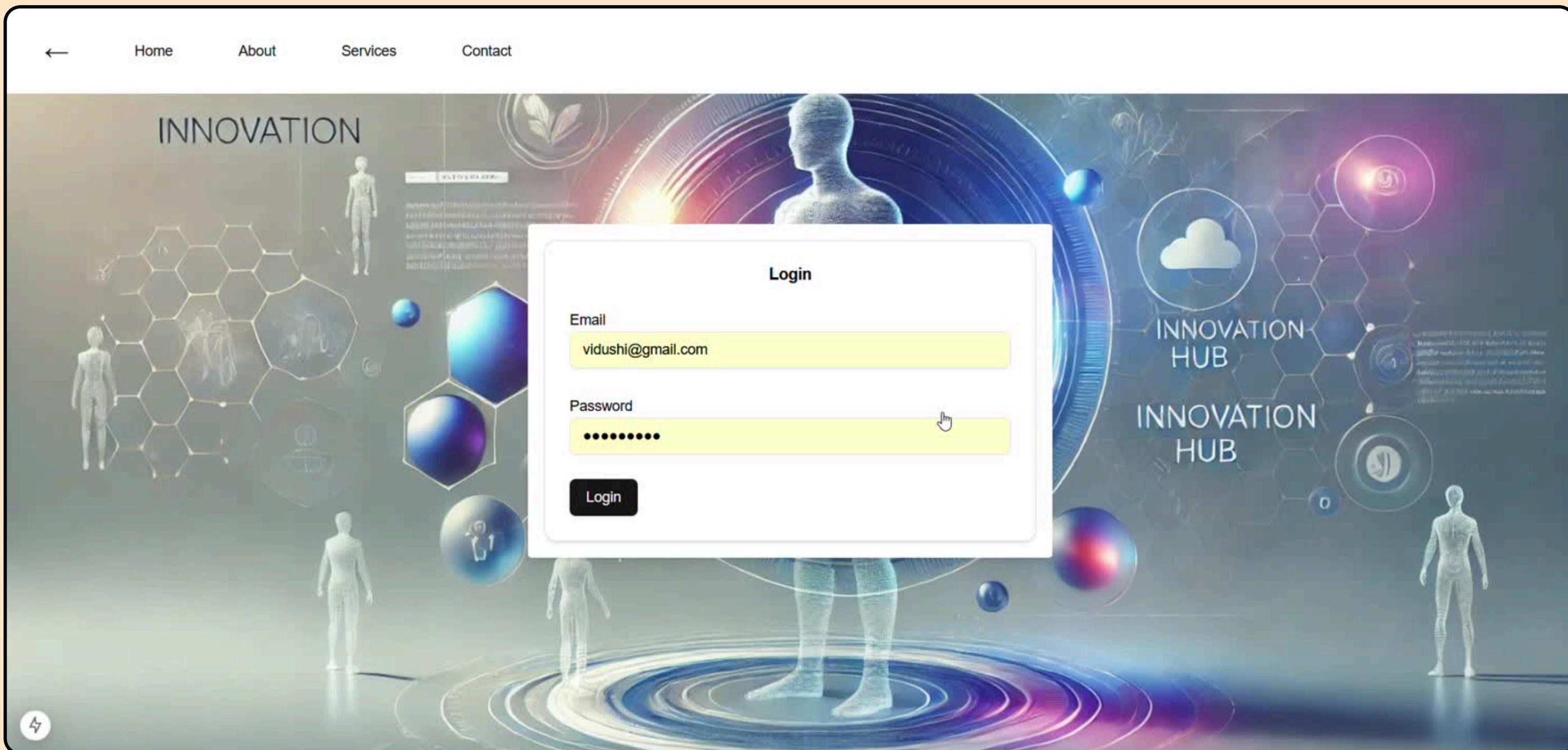


Chat

Innovation Hub Portal Demonstration...

The screenshot shows the homepage of the Innovation Hub Portal. At the top, there is a navigation bar with links for Home, About, Services, Contact, and Login. The Home link is highlighted with a hand cursor icon. Below the navigation bar is a large, vibrant banner featuring a futuristic, circular background with glowing blue and purple energy fields. Overlaid on this background is a large, semi-transparent white text area containing the words "INNOVATION" at the top left and "Welcome to Innovation Hub" in large, bold letters. Below this, a smaller text box contains the subtitle: "A platform for students to showcase their innovations to industry experts." In the bottom left corner of the banner, there is a red notification bubble with the text "1 error" and a close button. The overall design is modern and professional, emphasizing innovation and technology.

Innovation Hub Portal Demonstration...



Contribution of Group Members

- 20/ENG/017 - Progress Review Presenting, Presentation Creation**
- 20/ENG/023 - Web Portal Frontend Development.**
- 20/ENG/048 - Concept Development, Presentation Creation.**
- 20/ENG/109 - Web Portal Backend Development.**
- 20/ENG/125 - Student Project Filtering Analysis, Data Collection.**
- 20/ENG/135 - Intellectual Property Analysis, Data Collection.**
- 20/ENG/137 - Presentation Creation, Data Collection.**
- 20/ENG/140 - Student/Administrator Chat Application Feature.**
- 20/ENG/193 - Initial Concept Formulation, Project Coordination.**



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**Thank you for
attentive listening!**