

\$ {SKILL MATCH- Campus Skills Networking Platform}

\$ {Swasti Sundar Nath}
IIT(ISM) DHANBAD

Description:- Skill Match is a platform designed to connect faculty and students within a campus based on their skills and project requirements. It fosters a collaborative environment for skill development and project-based learning. This will help Faculties & Students to collaborate with each other based on their skills and interests in order to collaborate on a creative or technical project.

Brief Implementation Details for the Skill Match Project

1. Front-End Development

Design and develop responsive web pages for the following:

- **Home Page:** Overview of the platform with navigation to other sections.
- **User Profile Page:** Allows users to create and view skill profiles.
- **Search Page:** Interface to filter and find collaborators.
- **Messaging Page:** Enables communication between users.

2. Back-End and Database Management

- **Authentication:**
 - Implement user authentication (signup/login) using Firebase Authentication.
 - Include OAuth integration (Google login) for ease of access.
- **Real-Time Database:**
 - Store user data (profiles, skills, project history).
 - Maintain user collaboration history with timestamps.
- **Storage:**
 - Utilize Firebase Storage for image uploads (e.g., profile pictures).

Features:-

1. **User Authentication:** Using Firebase to enable sign-up/login, authenticating users and allowing them to create a unique skill profile.
2. **Skill Profile Creation:** Allows users to showcase skills, project interests, and contact details for seamless collaboration.
3. **Collaboration History:** Tracks past collaborations to highlight contributions and growth.

4. **Availability Toggle:** Let users manage their visibility for new collaborations.
5. **Skill-Based Search:** Users can browse a list of individuals with relevant skills or interests, filtered by categories such as subject, skill level, or project type.
6. **Endorsement System:** Users can give and receive skill ratings, building trust and reputation within the community
7. **In-app messaging system:** Users may choose to connect through an In-app messaging system if enabled.

Technology Stack:-

- **HTML, CSS, JavaScript:** For building a responsive and interactive user interface.
- **Firebase:** For real-time database management, authentication, and media uploads.

Week-wise timeline

- **Week 1:** Develop core web pages using HTML, CSS, and JavaScript.
- **Week 2:** Implement Firebase authentication and basic profile creation features.
- **Week 3:** Add endorsement and collaboration history features and build skill-based search functionality and in-app messaging.
- **Week 4:** Finalize features, conduct usability testing, and incorporate feedback.

About Me:

- My name is Swasti Sundar Nath. I am from Agartala, Tripura. I'm pursuing Bachelor of Technology in Mining Engineering.
- I should be selected for this project because, as a newcomer to web development, I bring a fresh perspective and a strong eagerness to learn. My basic knowledge of HTML, CSS, JavaScript, and Firebase provides a solid foundation to build upon, and I am highly motivated to enhance my skills through this project. I am committed to dedicating 8 hours daily to ensure timely and efficient progress while embracing challenges as opportunities to grow. This project aligns with my passion for creating impactful solutions, and I am excited to contribute while learning practical implementation under real-world conditions.
- There are no commitments during this coding period of WOC as of now and I'm ready to give on an average 8 hours daily for this project.