

Urban Skill Exchange: A Full-Stack Platform for Hyperlocal Talent Sharing



Problem Statement:

In rapidly growing urban environments, many individuals possess unique skills—ranging from digital expertise to traditional crafts, tutoring, fitness, or language abilities—but lack a streamlined, trustworthy way to share or monetize these skills within their immediate communities. Conversely, residents often seek local, affordable, and verified help or learning opportunities but struggle to connect with the right people in their vicinity.

Challenge:

Build a full-stack web platform that enables users to create profiles, list their skills or learning needs, and connect with others in their locality for skill exchange, micro-consulting, or collaborative projects.

Core Platform Features:

1. User Authentication & Verification:

- * Secure sign-up/login.
- * Optional identity verification.
- * Skill validation through peer reviews or digital badges.

2. Geo-Location Matching:

- * Users can discover and filter skill offerings or requests.
- * Search within a customizable radius.

3. Booking & Scheduling:

- * Built-in calendar for scheduling sessions.
- * Automated reminders and conflict detection.

4. Reputation System:

- * Ratings, testimonials, and skill endorsements to foster trust and reliability.

5. Community Projects:

- * Users can propose or join collaborative projects (e.g., building a community garden, coding a local website, organizing a workshop).

6. Incentive Mechanism:

- * Optional token or credit system to encourage participation.
- * Credits can be redeemed for services or donated to community causes.

7. Accessibility & Inclusivity:

Features for differently-abled users, such as voice navigation, high-contrast modes, and language localization.

Bonus Points For:

- * Integrating AI-based skill recommendations or matching algorithms.
- * Real-time chat or video session capabilities.
- * Providing an Open API for third-party integrations (e.g., local NGOs, educational institutions).

Objective:

Create a robust, scalable, and user-friendly full-stack web application that not only facilitates hyperlocal skill exchange but also strengthens community bonds and fosters economic empowerment in urban neighborhoods.

Submission Guidelines

All participating teams must submit the following items before the deadline. Incomplete submissions will not be evaluated.

1. GitHub Repository:

- * A public GitHub repository containing all the source code for the project.
- * The repository must include a comprehensive `README.md` file with:
 - * Project Title and a brief description.
 - * Tech Stack used (Frontend, Backend, Database, etc.).
 - * Setup and Installation Instructions (clear steps to run the project locally).
 - * Screenshots or a GIF/video demonstrating the application's flow.
 - * Links to the deployed project and the project report.
- * The commit history must reflect work done during the hackathon.

2. Deployed Application:

- * A live, publicly accessible URL where the application is hosted (e.g., Vercel, Netlify, Heroku, Render).
- * The deployed version must be fully functional, demonstrating all core features.

3. Project Report / Documentation:

- * A well-structured document (PDF format) that includes:
- * Team Name and Member Details.
- * Introduction: Problem definition and project vision.
- * Solution Architecture: System design, database schema, and API endpoints.
- * Implementation Details: How you implemented the core features and any bonus features.
- * Challenges Faced & Overcoming Them.
- * Future Scope of the project.
- * References: Declaration of any open-source libraries/frameworks used.

4. Demo Video (Optional but Recommended):

- * A short video (3-5 minutes) showcasing a walkthrough of your application's key features. This can be linked in the README.

Submission Portal:

Please upload all the above items (GitHub Repo Link, Deployed Link, Project Report) to the designated platform:

[Submission Link](#).

General Rules

- * All code must be developed during the hackathon timeframe.
- * Pre-existing open-source libraries/frameworks can be used, but must be declared in the project report.
- * Plagiarism or code copying from others is strictly prohibited.
- * Final submissions must be completed before the deadline.
- * Teams must be physically present for the final demo (if offline).
- * Each team must present a working demo to the judges.

Development Guidelines

- * Use any tech stack (e.g., Node.js, Django, React, Next.js, etc.).
- * Backend and frontend must be clearly separated.
- * Follow best practices in security (e.g., hashed passwords, HTTPS).
- * Use Git for version control with meaningful commit messages.
- * Maintain responsive and accessible design.

If you have any doubts during the hackathon, you can fill out the Form Given - [Doubts Form](#)