

Project Proposal – Web-Tech – II

By Reyan Tariq - 2112231

SWEEP is a digital platform designed to bridge the gap between students seeking practical work experience and employers looking to delegate tasks. By connecting students with micro-tasks from organizations, SWEEP enables skill development while providing employers with cost-effective solutions. Students earn "Sweep Tokens" as rewards, creating an ecosystem that incentivizes participation. Built on React (frontend) and .NET (backend), SWEEP aims to revolutionize entry-level work experience acquisition.

Objectives

We wish to create a secure, scalable web application for task delegation and student-employer interaction, where we implement distinct workflows for students and employers. Employers will be able to post, manage, and approve tasks with customizable requirements, employers can send a 'task-request' to students that fit their needs best. Upon successful completion of tasks, students will be awarded SWEEP tokens that they can mention in their resume as valid work experience.

Features

- Student Profile
- Employer Profile
- Token Balance
- Task Creation -> Completion Workflow
- Authentication Mechanisms
- Role Based Access
- Intuitive UI/UX

Tech Stack

- React
- .NET
- SQL Server
- Zustand
- Clerk

Outcomes

1. **Student Benefits:**

- Gain real-world experience and token-based credentials.
- Improve employability through verified task completion.

2. **Employer Benefits:**

- Reduce workload for full-time staff with vetted student talent.
- Cost-effective task outsourcing.

Conclusion

SWEEP addresses critical gaps in student employability and organizational efficiency. By gamifying work experience through a tokenized system, it creates a win-win ecosystem for students, employers, and educational institutions. With a robust technical foundation and clear roadmap, SWEEP has the potential to become the go-to platform for micro-task outsourcing and skill development.

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Entity Relationship Diagram

