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# Department of Information Technology

## Project Based Learning - Review 1 (AY 2025-26)

# "SkillBridge – Connecting Local Talent to Local Needs"

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# CEP Project Title

## Title 1

Context of the project: The project solves job access issues for local skilled workers and helps customers quickly find verified professionals. It uses a location-based web platform for fast and reliable connections

Area/Community of focus: The focus is on urban and semi-urban communities. The stakeholders include skilled workers like plumbers, electricians, carpenters, and painters , as well as households and small businesses that require their services.

# Recap of Selected Problem

- **Problem Statement:**

Local skilled workers such as plumbers, electricians, carpenters, and painters lack consistent job opportunities. Simultaneously, customers struggle to find reliable and verified professionals in their vicinity. This situation impacts the income stability of workers and the ability of customers to get timely, quality services

- **Objectives:**

To develop a web-based platform that efficiently connects verified local skilled workers with customers. The platform will use location-based matching to ensure quick service, improve job opportunities, and enhance trust within the community

# Community/ Field Visit

- **Area visited**

The plan included visiting Pune's Information Technology (IT) sector, particularly Hinjewadi's Rajiv Gandhi Infotech Park , and the Manufacturing & Automotive sectors in areas like Chakan, Talegaon, Ranjangaon, and Mundhwa.

- **People consulted**

•Independent skilled workers, including painters and carpenters.
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## Observations (Table Format)

# Data Collection and Analysis

- Survey results, interviews
- Charts, graphs, or sample feedback

- Key patterns
- Insights drawn

# Constraints and Challenges

**Constraints & Challenges Identified**

Based on the project's literature review, the team identified key challenges that SkillBridge aims to address:

- **Integration Challenge:** Existing platforms often fail to integrate worker verification systems with effective location-based search features.
- **Real-Time Adaptability:** Many skill-matching systems lack the real-time learning and location-aware capabilities needed for on-demand local services

# Ideas for Possible Solutions

The proposed solution is the **SkillBridge web platform**.

•**Brief Outline:**

- •**Registration & Verification:** A simple onboarding process where workers can upload skill proofs and ID to build trust.
- •**Job Posting:** Customers can post jobs with clear details about location and price.
- •**Smart Matching:** The system's backend will use location data to find and notify nearby workers.
- •**Instant Notification:** Workers will receive alerts via the app, supplemented with WhatsApp/SMS notifications.
- •**Feedback System:** A rating and review system will allow customers to provide feedback after a job is completed, creating a merit-based ecosystem
  .
- •**Future Scope:** A secure, integrated payment system is planned for a future release

# Q and A

**Q1: What is the main problem that SkillBridge aims to solve?**
**A:** The project addresses the core problem that local skilled workers, like plumbers and carpenters, struggle to find consistent job opportunities, while customers find it difficult to locate reliable, verified professionals in their local area.

**Q2: Who are the primary users or beneficiaries of the SkillBridge platform?**
**A:** The platform is designed for two main groups:
•**Skilled Workers:** Plumbers, electricians, carpenters, and painters who need better access to local jobs.
•**Customers:** Households and small businesses in urban and semi-urban communities that require professional repair and maintenance services.

**Q3: What technologies will be used to build the SkillBridge platform?**
**A:** The platform will be a web application built with a modern tech stack:
•**Frontend:** HTML, Tailwind CSS, and React.
•**Backend:** Node.js.
•**Database:** MongoDB or MySQL.
•**APIs:** Google Maps for location-based matching and WhatsApp for notifications.

**Q4: How does the platform plan to build trust between customers and workers?**
**A:** Trust is a central feature, established through a **worker verification process**. Workers must upload proof of their skills and a valid ID during profile setup. Additionally, a **customer rating and review system** will be implemented to create a transparent, performance-based reputation for each worker.