Web Engineering Project Proposal

SkillLink – Local Skill Sharing Platform

University: Sukkur IBA University

Campus: Khairpur Campus

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1. Introduction

SkillLink is a web-based local skill sharing platform designed to connect service providers with service receivers through a structured, role-based system. The platform enables users to discover skilled professionals based on location and expertise, send direct service requests, and communicate securely within the system. This project is developed as part of the Web Engineering course and reflects real-world service marketplace practices.

2. Problem Statement

Finding reliable local service providers is a common challenge in many communities. Existing platforms often lack clarity between user roles, provide limited control over service requests, or fail to ensure smooth communication. SkillLink addresses these issues by offering a clear role separation, location-based discovery, and a controlled request workflow.

3. Objectives

The primary objective of this project is to design and develop a professional service marketplace platform with a strong focus on usability and system organization. The project aims to clearly separate service provider and service receiver functionalities, enable provider-specific service requests, support real-time communication after request acceptance, and implement a complete service lifecycle ending with user feedback.

4. Scope of the Project

SkillLink supports two main user roles: service providers and service receivers. Service receivers can browse providers, filter them by city and skill, review ratings and feedback, and send service requests. Service providers can manage their services, respond to requests, communicate with receivers, track work progress, and mark services as completed. Public job posting by receivers is not included in the system.

5. Functional Features

The system includes user authentication, role-based dashboards, predefined city selection during signup, service discovery with advanced filtering, private request handling, real-time status updates, in-application messaging after acceptance, progress tracking, completion control by providers, and review and rating submission by receivers.

6. Service Request Lifecycle

Each service request follows a defined lifecycle. Initially, requests are placed in a pending state. Service providers can either accept or decline them. Accepted requests move into an in-progress state where both parties can communicate. Upon completion, the provider marks the service as completed, after which the receiver is prompted to submit a review and rating.

7. User Interface and Experience

The user interface is designed to be clean, professional, and mobile-responsive. Consistent layouts, readable typography, clear navigation, and large action buttons are used throughout the system. The platform supports two professional color themes: Deep Blue with Soft White, and Emerald Green with Warm Cream. Home page behavior dynamically adapts based on user login status.

8. Data Management and Security

The platform uses an online database to store user profiles, service data, requests, messages, and reviews. Access to data is controlled through secure authentication mechanisms, ensuring that only authorized backend services can interact with the database. City data is standardized to maintain consistency across the system.

9. Conclusion

SkillLink presents a practical solution for local service discovery and management. By combining structured workflows, role-based access, and professional design principles, the project successfully meets the learning objectives of the Web Engineering course and demonstrates applied web system development skills.