**SPL2 Project Proposal Form, 2024**

**Institute of Information Technology (IIT)**

**University of Dhaka**

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| **Project Title : InsightHive** (Crowdsourced Workforce Insights Platform)  **Motivation:**  This project aims to develop a mobile based crowdsourcing platform for gathering real time insights from crowdsource workers who perform various tasks across different markets. The platform will enable businesses to access actionable data collected by gig workers from shops, improving decision making in areas like marketing, product development, and market research. By leveraging crowdsourcing, the platform will allow businesses to track trends, analyze on the ground feedback, and gain insights from diverse locations. This system not only empowers gig workers by offering flexible task opportunities but also provides businesses with a scalable and dynamic way to access market data.  **Project Description:**  **Key Features:**  **1. Registration and Profile Management:**   * **Business Registration:** Easy signup and profile management for companies to set objectives. * **Gig Worker Onboarding:** Fast registration with task history, skills tracking, and earnings overview.   **2. Task Creation and Assignment:** Tasks like product audits and surveys with specific requirements.  **3. RealTime Notifications and Verification:**   * **Task Alerts:** Immediate task notifications for gig workers. * **Unique Code Verification:** Verification at shops via a unique code for task legitimacy.   **4. Task Execution and Reporting:**   * **Execution Tools:** Intuitive interface for task completion, media capture, and report **submission.** * **Structured Reporting:** Detailed, media supported reports aligned with business needs.   **6. Performance Monitoring Dashboard:**   * **Gig Worker Analytics:** Access to task completion, earnings, and performance metrics.   **7. Incentive and Rating System:**   * **Performance Rewards:** Bonuses and incentives for high quality reports. * **Rating & Feedback:** Ratings on report quality and timeliness with feedback for improvement.   **8. Gamified Engagement & Leaderboard:**   * **Points & Rankings:** Earn points, achieve rankings, and compete on a leaderboard. * **Monthly Challenges:** Special rewards for top performers in monthly competitions.     **QFD:**  **Normal Requirements:**   * Realtime task availability notifications for gig workers based on location. * Shop verification notifications via a unique code for gig worker arrival. * Transparent, automated payment system for gig workers posttask completion. * Reward system for high quality reports (bonuses, performance based rewards). * Company registration, task creation, and profile management capabilities. * Gig worker registration, task confirmation, and report submission functionality. * Structured report submission (text, images) by gig workers. * Realtime task updates for gig workers; task history and earnings dashboard.   **Exciting Requirements:**   * Introduce a gamification system where gig workers can earn points or rankings based on their performance and task completion rates. * Create a leaderboard for gig workers with public recognition and monthly rewards for top performers.   **Strategy & Timeline:**   * Background Studies (1 week) * Requirement Analysis (1 week) * Software Requirements and Specification (2 weeks) * Design Mockup (2 weeks) * Core Development (7 weeks) * Task Management. (2-3 weeks) * Notification System (1 week) * Assignment Verification (1 week) * Report Submission (1-2week) * Incentive and Rating System. (1 week) * Performance Monitoring Dashboard. (1-2 weeks) * Testing & Quality Assurance (2 weeks)   **Gantt Chart :** | | | |
| **Languages or Tools to be used:**  **1. Frontend Development :** Flutter, Dart  **2. Backend & Database :**Firebase Firestore, Firebase Authentication, Firebase Cloud Messaging (FCM)  **3. Version Control & Collaboration :** Git, GitHub,VS Code, Android Studio | | | |
| **Supervisor’s Name: *Dr. Md. Shariful Islam***  **Signature of the supervisor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | |
| **Before the Midterm Presentation 1:**  I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.  **Signature of the supervisor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | |
| **Proposal Presentation Feedback (if any) :**  **Midterm 1 Presentation Feedback (if any) :**  **Midterm 2 Presentation Feedback (if any) :** | | | |