**CMPS 6903: Research Methods in Computer Science Assignment: Project Proposal**

**Topic:** QuickLocalFix - Development of a Location-Based Mobile Job Portal for Repair Services

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**Research Question:** Specific and achievable.

* How to enhance the accessibility and efficiency of repair services by connecting users with skilled technicians through a location-based mobile application?
* How can a location-based mobile job portal be effectively designed and implemented to connect blue-collar job seekers with public in need?

**Brief Literature Review: (**Summarize 3 - 5 related works in this field. State how your study will build upon this work.)

1. Development and Implementation of Location-Based Mobile Job Portal for Blue-Collar Jobs

This foundational paper discusses challenges in accessing blue-collar jobs and suggests mobile platforms as solutions. QuickLocalFix applies similar principles to improve access to repair services.

1. Job Portal for Blue Collar Professionals

This research emphasizes the unique needs of blue-collar workers. QuickLocalFix addresses these needs by providing a transparent platform that ensures user trust through a rigorous technician vetting process.

1. Harnessing Web Technologies for Empowering the Under skilled Workforce

This paper highlights the importance of utilizing web technologies to empower under-skilled workers, which aligns with the objectives of QuickLocalFix in connecting skilled repair professionals with users.

1. Employee Information and Payroll System Using Python, Django & Machine Learning

This study demonstrates the application of modern technologies in service-oriented platforms, similar to how QuickLocalFix employs advanced technologies for efficient service delivery.

Our study builds upon these works by providing a practical example of a mobile application that successfully connects individuals with skilled repair professionals.

**Methodology:**

● How will you answer the research question? Dataset? Tool development? Analysis? Timeline? Delegation of work?

The QuickLocalFix app was created to help people find repair services easily. Here’s how we built it:

1. **Understanding Needs:**  
   We started by figuring out what users need when looking for repair services. This helped us design the app to fit their requirements.
2. **Choosing Technologies:**  
   We used Python with Django for the backend, React or Angular for the frontend, and PostgreSQL for storing data. This combination gave us a solid and efficient app.
3. **Building the App:**  
   We followed an Agile approach, allowing us to develop the app in small steps. We added features like user sign-up, submitting repair requests, and chatting with technicians.
4. **Testing the App:**  
   We tested the app thoroughly to make sure everything works well. This included checking individual features and getting feedback from a few users.
5. **Going Live:**  
   After testing, we launched the app on a cloud platform so everyone could use it. We also set up ways to track how users engage with the app.
6. **Gathering Feedback:**  
   Once the app was live, we started collecting feedback from users to see how we could make it better.
7. **Measuring Impact:**  
   We will look at user data and feedback to understand how well the app is helping people find repair services and where we can improve.

● Does your study need IRB approval? - No

● Does your study need special equipment? - No

● Does your study need funding? If so, how much? - No

● Name one or two proposed conferences your study could be submitted to:

**IEEE International Conference on Mobile Computing and Networking**

* Next paper deadline: December 2024

**ACM Conference on Human Factors in Computing Systems (CHI)**

* Next paper deadline: September 2024

● Any other information or requests needed to complete the study? - No