Assignment # 1

IT Project Management

IT-426

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Submitted to:

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Project Name:

Stepney

1. Business need or justification

The project named “Stepney” is being developed to meet the needs of a person who is facing car breakdown situation or need to maintain the car in order to travel safely .As we know that every car owner has to face technical, mechanical and various types of issues with his vehicle. Vehicles have specific monthly tuning processes and other kind of operations needed to maintain the performance of the car. Beside this, vehicle suddenly breakdown sometimes on the road or it doesn’t start at home. In such circumstances, the vehicle owners have to face many issues regarding finding the mechanic nearby for repairing purposes.

We are creating this Project to bridge the gap between vehicle owner and mechanic. We feel this gap in recent years and we decided to make our final year project.

2. Scope (high level)

The scope of Stepney is limited to the users who own a vehicle. Stepney will help the users to find the best mechanic in a certain area to overcome the car breakdown situation and to maintain the vehicle. The user can hire specific mechanic relevant to the car problem.

On the other hand, there is no such platform for the local car mechanics to get customers from online platform. With the help of stepney, local mechanics can present their skills to customers so that client would hire them according to their needs. This will bridge the gap between the client and the mechanic in the vehicle industry.

3. Objectives (such as the intended product, service, or result)

The main objectives of our project are:

- Provide car owners a platform to find best mechanics.
- Provide mechanics a platform to sell their services.
- Provide filters and video options to car owners to describe the actual car problem. For example, technical issues, mechanical issues, tyre issues etc.
- Help customer to hire mechanic on road or at home.
- Provide location to each other.
- Help both to chat with each other.

- Rate or report the mechanic according to mechanic response.
- Help car owners to add charges and details of service in his feedback in order to help other customers to analyze different mechanic rates for particular services.

4. Requirements (high level)

User Requirements:

- User Registration: The users should be able to create an account on the platform, where they can provide their sensitive information.
- Hire mechanic: The user can hire mechanic in a certain area followed by location.
- Communication: The user should be able to communicate with the mechanic with a chatbot.
- Feedback: After getting services, the user can rate or report the mechanic and can give feedback in mechanic profile according to the mechanic performance.

Mechanic Requirements:

- Mechanic Registration: The mechanics should be able to create an account on the platform, where they can provide their sensitive information and the company should be verified using their registration number
- Post Skills/Experize: The mechanic can post their skills or expertize, on the base of which they will receive orders.
- Receive Requests: The mechanic will receive a request from user for certain services.

Admin Requirements:

- User/Mechanic Management: The admin can control the users and mechanic.
- System Update/Maintenance: The admin can update/maintain the system.

5. Risks (high level)

Our project may face following risks:

- Location issues
- Wifi Connectivity issues

- Lack of resources
- System Updations
- Poor API Protection
- Weak server side controls
- User side injection

6. Assumptions and constraints

Assumptions:

- User's technical knowledge: Assuming that the users of the Stepney App have a basic understanding of automotive systems.
- Device compatibility: Assuming that the app will be compatible with common devices such as smartphones and tablets running popular operating systems (e.g., iOS, Android).
- Internet connectivity: Assuming that users will have access to a stable internet connection to utilize features that require online resources, such as live diagnostics or online databases.
- Database accuracy: Assuming that the app's databases or information sources are up to date and provide accurate information about vehicle models, parts, and diagnostic procedures.
- User engagement: Assuming that users will actively engage with the app and utilize its features consistently, rather than abandoning or neglecting it after initial use.

Constraints:

- Development resources: Constraints related to the availability of development resources, including time, budget, and skilled development personnel, which may impact the app's features, functionality, and overall development timeline.
- Data privacy and security: Constraints related to ensuring the security and privacy of user data collected or stored within the app, adhering to relevant data protection regulations and industry best practices.
- Device limitations: Constraints related to the hardware limitations of user devices, such as limited processing power, memory, or screen size, which may impact the app's performance or user experience.
- User interface constraints: Constraints related to designing a user-friendly and intuitive interface that accommodates different user skill levels and provides clear navigation, taking into consideration varying screen sizes and input methods.