**Special Needs Conveyance (SNC)**

**Design Inspection Report**

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4/8/2023

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**Design Inspection Report**

**Project: Special Needs Transportation Android Application**

**Overview**

This Design Inspection Report evaluates the Android application designed to provide transportation services for individuals with special needs. The primary objective of this application is to facilitate and streamline the transportation process for this specific user group. The application's main features include on-demand car requests, matching users with suitable drivers, offering a variety of transportation options tailored to different disabilities, and ensuring drivers are equipped to assist users effectively.

**Inspection Team**

- Lead Inspector: Basem Damir

- Assistant Inspector: Elham Ali

Date of Inspection

[25/8/2023]

**Purpose**

The purpose of this Design Inspection Report is to evaluate the design of the Android application, ensuring that it aligns with the project's goals and adequately addresses the needs of individuals with special needs.

**Key Design Aspects**

1. User-Friendly Interface:

- The application's user interface should be intuitive, easy to navigate, and accessible to individuals with various disabilities.

- Ensure that text and icon sizes are adjustable for users with visual impairments.

- Implement a simple and clear design with well-contrasted colors to aid users with visual and cognitive impairments.

2. User Registration and Profile Management:

- Users should be able to create profiles with their specific disability details and preferences.

- The profile should allow users to select their preferred communication methods, such as sign language or text-to-speech.

3. On-Demand Transportation Request:

- Implement a clear and straightforward process for users to request transportation assistance.

- Provide options for specifying the pickup location and destination.

4. Driver Matching and Qualifications:

- Develop a system for matching users with drivers who have suitable qualifications and training to assist individuals with specific disabilities.

- Ensure that drivers are trained in assisting with mobility aids like wheelchairs or guiding visually impaired users.

5. Transportation Options:

- Offer a variety of transportation options that cater to different disabilities, such as wheelchair-accessible vehicles or vehicles equipped with assistive devices.

- Users should be able to select the most suitable mode of transportation for their needs.

6. Real-Time Tracking and Communication:

- Implement real-time tracking of the assigned vehicle's location and estimated arrival time.

- Enable communication between users and drivers through the application to address any specific requirements or concerns.

7. Accessibility Features:

- Incorporate accessibility features like voice commands, screen readers, and tactile feedback for users with various disabilities.

- Ensure compliance with accessibility standards (e.g., WCAG) to make the application inclusive.

8. Safety and Security:

- Prioritize the safety and security of both users and drivers by implementing verification processes, background checks, and emergency response features.

9. Feedback and Rating System:

- Create a feedback and rating system to gather user input and continuously improve the service.

- Encourage users to provide feedback on the overall experience, including the suitability of drivers and the quality of transportation.

**Conclusion**

The Android application's design for providing transportation services to individuals with special needs is a critical step in addressing an underserved demographic. The design inspection has identified key aspects that need to be considered and implemented to ensure the application's success.

The next steps in the project should involve further development, testing, and validation of these design aspects to guarantee that the final product meets the needs of the target user group. Continuous user testing and feedback should be integrated into the development process to refine and enhance the application's usability and accessibility.