**Special Needs Conveyance (SNC)**

***team:***

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| **Basem Damir (**  **Team leader )** | **201910739** |
| **Elham Ali** | **201910641** |
| **Samar Abu Dayyeh** | **202010433** |
| **Fatin El-bitar** | **202020640** |

Tools and Technologies Used:

1.Flutter

2. sql server

3. Android Studio

4.GitHub

Cover Page

Software Project Management Plan (SPMP)

Special Needs Conveyance (SNC)

Version: 1.0.0

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link GitHub:[**https://github.com/elhamaltaie22**](https://github.com/elhamaltaie22)

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Revisions Page

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**Introduction**

**1.1 PROJECT OVERVIEW**

It is an Android application designed for people with special needs to move them

from one place to another at anytime and anywhere.

The main function of the application is that this group will request the car and

driver suitable for them from their place, very quickly and without effort.

The application will provide additional functions such as giving the user several

options according to the type of disability to choose the appropriate and ready

means of transportation for him. And also, drivers equipped to assist them.

In general, there are several applications that serve customers, but do not serve

this category. Our application will be limited to this category of people by

providing the appropriate means of transportation for them and reducing the

effort on them, as it provides several options that suit the different categories

**1.2 PROJECT DELVERABLES**

This project aims to simplify the lives of this group of people daily.

Project goals in general:

* Save effort and time and facilitate their transportation.
* How to improve mobility and go to the right place for them
* Corresponds to different disability groups age groups.
* Reducing stress on the parents by having an assistant for them

**2 PROJECT ORGANIZATION**

**2.1 SOFTWARE PROCESS MODEL**

Software developers all over the world use the software development life cycle (SDLC) to implement tech projects and software successfully. The term software development life cycle model is a way of describing the planning, designing, coding, and testing of a software system, as well as the method in which these steps are implemented.  
**2.2 ROLES AND RESPONSIBILITIES**

|  |  |
| --- | --- |
| **Samar Abu Dayyeh** | **System**  **Analysis** |
| **Basem Damir** | **TEAM**  **LEDAR** |
| **Elham Ali** | **System Design** |
| **Fatin El-bitar** | **QA** |

**2. 3 Tools and Technologies Used**

1.Flutter : is an open-source UI (User Interface) software development toolkit created by Google. It is used for building natively compiled applications for mobile, web, and desktop from a single codebase. With Flutter, developers can write code once and deploy it across multiple platforms, such as Android, iOS, web browsers, Windows, macOS, and Linux.

2. SQL Server: is a relational database management system (RDBMS) developed by Microsoft. It is a software product that allows users to store, manage, and retrieve data as requested by other software applications. SQL Server is based on the SQL (Structured Query Language) language, which is a standard language for interacting with relational databases.

3. Android Studio is the official Integrated Development Environment (IDE) for Android app development, provided by Google. It is designed specifically for building Android applications and offers a wide range of tools and features to simplify the development process. Android Studio is based on the IntelliJ IDEA community edition, a popular Java IDE.

4. GitHub: is a web-based hosting service for Git repositories. It allows for easy collaboration, code review, and issue tracking. We will be using GitHub to host and share the source code for this project. These tools and technologies have been chosen for their reliability, scalability, and ease of use. They have a well-established track record in the industry.

* **PORJECT MANAGEMENT PLLAN**

3.1Tasks

3.1.1 Task-1

**3.1.1.1 Description**

Develop the Android application for people with special needs to request transportation services.

**3.1.1.2 Deliverables and Milestones**

3.1.1.2.1 User interface design and wireframes for the app.

3.1.1.2.App screens and functionalities developed and tested.

3.1.1.2.3Real-time tracking of transportation requests and display of routes.

**3.1.1.3 Resources Needed**

Android app developers, UI/UX designers, location-based services experts.

**3.1.1.4 Dependencies and Constraints**

Dependency: Availability of finalized UI design and wireframes from the UI/UX design team before starting the mobile app development.

Constraint: Compliance with accessibility guidelines to ensure the app is usable for people with different types of disabilities.

**3.1.1.5 Risks and Contingencies**

Complexity in integrating different accessibility features for various types of disabilities.

**3.1.1 Task2**

**3.1.1.1 Description**

Develop the backend API to handle user authentication, transportation requests, and driver profiles.

**3.1.1.2 Deliverables and Milestones**

**3.1.1.2.1**API endpoints for user registration and authentication.

**3.1.1.2.2**API endpoints for handling transportation requests and driver profiles.

**3.1.1.2.3**Integration with location tracking and mapping services.

**3.1.1.3 Resources Needed** Backend developers, location-based services experts.

**3.1.1.4 Dependencies and Constraints**

Dependency: Completion of the database setup task before starting the API development, as the API will interact with the database for data storage and retrieval.

Constraint: Integration with location tracking and mapping services may rely on third-party APIs, so their availability and functionality can impact the development schedule.

**3.1.1.5 Risks and Contingencies**

Security vulnerabilities in the API that could compromise user data.

**3.1.1 Task3**

**3.1.1.1 Description**

Set up a secure and scalable database to store user information, driver profiles, and trip details.

**3.1.1.2 Deliverables and Milestones**

3.1.1.2.1 Design of the database schema to support user data, driver information, and trip records.

3.1.1.2.2 Implementation of the database with proper security measures in place.

3.1.1.2.3Integration of the database with the API for seamless data handling.

**3.1.1.3 Resources Needed**

Database administrators, backend developers

**3.1.1.4 Dependencies and Constraints**

Dependency: Proper design and specification of the database schema are required before implementation.

Constraint: Data security and privacy concerns must be addressed to ensure compliance with relevant regulations.

**3.1.1.5 Risks and Contingencies**

Performance bottlenecks and scalability issues in the database.