

Project Part I:
System Requirements Specification (SRS)

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System Requirements Specification (SRS)

of Mbile

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1. Non-Functional Requirements

1.1. Operational Requirements

Physical and technical environments:

1. Technical Environment: The online car sharing system called Mbile will be able to run on majority of the actual popular web browsers on the market. Changes will be made accordingly to market and demand changes.
2. System Integration: Compatibility and interaction with existing systems. Mbile software will work synchronously with the majority of the present existing systems on the market without limitation in the User-Preferences relation.
3. Portability: Due to the versatility of the online environment, The car sharing software will be able to function in any environment where any user have Internet access
4. Maintainability: An online online Help Desk will be available for clients. Services the Help Desk will provide include but are not limited to guidance in installation and configuration of the software. Software levels issues will be handled by the programmer(s) in charge.

1.2. Performance Requirements

The speed, capacity and reliability of the system.

- 1.2.1. Speed: The car sharing software will be able to perform real-time features. Ideal response and performance time will be set in accordance with the optimal metrics.
- 1.2.2. Capacity: The system will hold at least 70 MB of disk space with at least 5000 MB of daily data. The system initially will be able to handle 3500 users at pick time. System update will take place accordingly of the demand of the market.
- 1.2.3. Availability and Reliability: The online system will be available on a 24/7 time range. Issues that may constitute a threat to the normal continuity of the software will be resolve following the Business Continuity Plan. The system shall have 99 percent uptime performance.

1.3. Security Requirements:

Authorization and access to the system.

- 1.3.1. System Value: The system will be running with a security level 40 in order to have a balance between the integrity of the user experience and the security and reliability of the system.
- 1.3.2. Access Control: Access to services is granted to registered users with valid credentials. For security purposes data exchanges from the app to the server(s) will be over HTTPS. A two step system authentication will be installed to prevent robot login issues. Also user inputs will be validated to lessen the risk of SQL injection attacks.
- 1.3.3. Encryption/Authentication: Registration/login password required. Each user will at the start of their experience with the software create an account. Each time a user will want to use the software , that individual will have to enregistre his or her credential and pass the Identification - Authentication - Authorization phases.
- 1.3.4. Virus Control: An internal virus detection feature should be added to the software and be able to prompt the user is their platform(phone(s), tablet (s)or computer(s).

1.4. Cultural and Political Requirements:

- 1.4.1. Multilingual: The application will be multilingual. The user will be able to choose their language preference when visiting the website of creating a new account/ login on the application.
- 1.4.2. Customization: The users will be able to change themes inside the application. The app by default will conform to the Font style set in each user device(s).
- 1.4.3. Unstated Norms: Each user is required to accept and follow the rules and policies of Mbile and its community to be able to use Mbile services.
- 1.4.4. Legal: Mbile is dedicated to be open, available and accessible to any user without regard to race, gender, color, age, sexual orientation, gender identification, national origin, religion, marital status, ancestry, citizenship, disability, protected veteran status, or any other factor prohibited by applicable law .

2. Functional Requirements

2.1. Functionality 1:

The users should be able to view on the system available and non available cars in a precise area.

Input:

In order to achieve a search result, the users will have to input some data like the area they want, the model, seating capacity and year of the car(s), the minimum and/or maximum cost the car(s) to be, and other parameter like the general rating of the drivers/the car.

Output:

From the filtering elements given in the input, a search result will be given respecting the desire of the users

Process:

After input the system will search into the available and relevant database(s) in order to furnish the desired output(s).

2.2.Functionality 2:

Through a feature of geo-localization installed in the software the users will be able to track the car they expect to share. An optional feature will be available for letting driver(s) know about the precise location of a those who need a ride.