
Software Requirements Specification

for

Near By Taxi

Version 1.0 approved

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Table of Contents

Table of Contents	ii
Revision History	ii
1. Introduction.....	1
1.1 Purpose	1
1.2 Document Conventions	1
1.3 Intended Audience and Reading Suggestions.....	1
1.4 Product Scope.....	1
1.5 References	2
2. Overall Description	2
2.1 Product Perspective	2
2.2 Product Functions.....	2
2.3 User Classes and Characteristics	2
2.4 Operating Environment	3
2.5 Design and Implementation Constraints.....	3
2.6 User Documentation	3
2.7 Assumptions and Dependencies	3
3. External Interface Requirements	4
3.1 User Interfaces	4
3.2 Hardware Interfaces.....	6
3.3 Software Interfaces	6
3.4 Communications Interfaces	6
4. System Features	6
5. Other Nonfunctional Requirements.....	7
5.1 Performance Requirements.....	7
5.2 Safety Requirements.....	7
5.3 Security Requirements.....	7
5.4 Software Quality Attributes.....	8
5.5 Business Rules.....	8
6. Other Requirements	8
Appendix A: Glossary.....	8
Appendix B: Analysis Models.....	9
Appendix C: To Be Determined List.....	10

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

Software Requirements Specification (SRS) simply contains all necessary information of project. The purpose of SRS is to give description all abouts of project design, develop and testing the software.

- The purpose of the project is to provide a user-friendly Taxi Service for the transportation.
- The main purpose of this is project is to manage an easy system for transportation.

1.2 Document Conventions

Entire document should be justified.

➔ Convention for main title:

- ◆ Font Face: Times New Roman
- ◆ Font Style: Bold
- ◆ Font Size: 18

➔ Convention for subtitle:

- ◆ Font Face: Times New Roman
- ◆ Font Style: Bold
- ◆ Font Size: 32

➔ Convention for body:

- ◆ Font Face: Times New Roman
- ◆ Font Style: Normal
- ◆ Font Size: 12

1.3 Intended Audience and Reading Suggestions

- ◆ Admin
- ◆ General User
- ◆ All User

1.4 Product Scope

The document only covers the requirements specifications for the Taxi Booking System. This document does not provide any references to the other component of the Taxi Booking System. All the external interfaces and the dependencies are also identified in this document. Taxi Booking System is basically updating the manual ticket booking system into an internet-based application so that the users can know the availability of Taxi and can book from the system. The project is

specifically designed for the general people & taxi driver for booking taxi. The project will work as a complete user interface for Taxi Booking process and complete the transition. The project can be easily implemented under various situations. We can add new features as and when we require, making reusability possible as there is flexibility in all the modules. The language used for developing the project is PHP, Java Script, HTML5, CSS 3, AJAX, and all of these are quite advantageous than other languages in terms of performance, tools available, cross platform compatibility, libraries, cost (freely available & open source), and development process.

1.5 References

- PHP: <http://www.phptherightway.com/>
- HTML5: <http://www.w3schools.com/>
- CSS3: <http://www.w3schools.com/>
- JAVA Script: <http://www.w3schools.com/>
- AJAX: <http://stackoverflow.com/>
- MySQL: <https://www.mysql.com/>

2. Overall Description

2.1 Product Perspective

The implementation of NearBy Taxi starts with entering and updating master records like taxi details, taxi route information. Any further transaction like ticket book issue will automatically update the current information's. The proposed NearBy Taxi System will take care of the current near by taxi detail at any location of time. The book issue, book return will update the current book details automatically so that user will get the update current book details.

2.2 Product Functions

- The main purpose of this project is to provide an online taxi service.
- This software is capable to show taxi information, available taxi , booking taxi and the cost of taxi service.

2.3 User Classes and Characteristics

We have 2 levels of users: -

- User module: In the user module, user will check the availability of taxis.
 - Taxi Order
 - Comment

- Administrative Module: The following are sub module in the administration module.
 - Register User
 - Update User
 - Post Taxi
 - Update Taxies
 - Update, Edit or Delete of any records.

2.4 Operating Environment

The product will be operating in windows environment. The NearBy Taxi system is a website and shall operate in all famous browsers, for a model we are talking Microsoft Internet Explorer, Google Chrome, and Mozilla Firefox. Also, it will be compatible with the IE 6.0. Most of the features will be compatible with the Mozilla Firefox and Opera 7.0 or higher version. The only requirement to use this online product would be the internet connection. The hardware configuration includes Hard Disk: 40GB, Monitor: 15-inch Color monitor, Keyboard: 122 keys. The basic input devices required are keyboard, mouse and output devices are monitor etc.

2.5 Design and Implementation Constraints

Each user will be having an identity number which can be used for the booking taxi. whenever user wish to book a taxi by, the authority will be check both the taxi details as well as the user details and store it in taxi database. In case of retrieval of taxi much of human intervention can be eliminated.

2.6 User Documentation

The product will include user manual. The user manual will include product overview, complete configuration of the used software (such as SQL server), technical details, backup procedure and contact information which will include email address. There will be no online help for the product at this moment. The product will be compatible with the Internet Explorer 6.0 or higher. The databases will be created in the MySQL.

2.7 Assumptions and Dependencies

The assumptions are: -

- 1) The coding should be error free.
- 2) The system should be user friendly so that it is easy to use for the users. Software Requirements Specification for NearBy Taxi Page 5
- 3) The information of all users, taxi info must be stored in a database that is accessible by the website.
- 4) The system should have more capacity and provide fast access to the database.
- 5) The system should provide search facility and support quick transactions.

- 6) The Taxi system is running twenty-four hours a day.
- 7) Users may access from any computer that has internet browsing capabilities and an internet connection.

The dependencies are: -

- 1) The specific hardware and software due to which the product will be run.
- 2) On the basis of listing requirements and specification the project will be develop and run.
- 3) The end users (admin) should have proper understanding to the product.
- 4) The system should have the general report store.
- 5) The information of all users must be stored in a database that is accessible by the library system. 6) Any update regarding the Taxi is to be recorded to the database and the data entered should be correct.

3. External Interface Requirements

3.1 User Interfaces

The software provides good graphical interface for the user. And admin can operate on the system.

- User can comment from the user panel.
- User can view the taxies availability & registry details.
- Admin can View, Edit and Delete everything on the product.
- Software Requirements Specification for NearBy Taxi

Home of User Panel:

NearByTaxi

Daily Taxis

Weekly Taxis


Night Taxis

Register Here!

Kanpur to Lucknow

by mutalib

Bus on 2022-07-25



Taxi Search

Source

Destination

mm/dd/2022

Search

Login

Username

Password

Login

User Registration Panel:

NearByTaxi

Daily Taxis

Weekly Taxis

Night Taxis

Register Here!

Registration

Username:

Enter Username

Firstname:

Enter Firstname

Lastname:

Enter Lastname

UserImage

Choose File No file chosen

Email:

Enter email

Phone No:

Enter password

Password:

Enter password

Register

3.2 Hardware Interfaces

- Operating system: windows
- Hard disk :40 GB
- RAM: 512 MB.
- Processor: Pentium(R)Dual-core CPU

3.3 Software Interfaces

- XAMPP
- Notepad ++
- MySQL server
- Visual Studio Code
- NotePad++
- Chrome

3.4 Communications Interfaces

The Customer must connect to the Internet to access the Website:

- Dialup Modem of 52 kbps
- Broadband Internet
- Dialup or Broadband Connection with an Internet Provider.

4. System Features

The users of the system should be provided the surely that their account is secure this is possibly by providing:

- ➔ User authentication and validation of members using their unique member ID.
- ➔ Proper monitoring by the administrator which includes updating accounts status, showing a pop up if the user attempts to issue.
- ➔ Proper accountability which includes not allowing a member to see other user's account. Only administrator will see and manage all users account.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The capability of the computer depends on the performance of the software. The software can take any number of inputs provided the database size is larger enough. This would depend on the available memory space.

The proposed system that we are going to develop will be as the chief performance system within the different. Therefore, it is expected that database would perform functionally at the requirements that are specified by the university.

- The performance of the system should be fast and accurate.
- Library Management System shall handle expected and non-expected errors in ways that prevent loss in information and long downtime period. Thus, it should have in built error testing to identify invalid username or password.
- The system should be able to handle large amount of data. Thus, it should accommodate high number of taxis information.

5.2 Safety Requirements

The database may get crashed at any certain time due to virus or operating system failure. There for it is required to take the database backup so that the database is not lost. Proper UPS/ Inverter facility should be there in case of power supply failure.

5.3 Security Requirements

- System will use secured database.
- Normal users can just read information, but they cannot edit or modify anything.
- System will have different types of users and every user has access constraints.
- Proper user authentication should be provided.

- No one should be able to hack user password.
- There should be separate accounts for admin, no one can access the database and only admin has the rights to update the database

5.4 Software Quality Attributes

- ➔ There may be multiple admin's creating the project, all of them will have the right to create changes to the system. But the users cannot do changes.
- ➔ The project should be open source.
- ➔ The quality of the database is maintained in such a way so that it can be very user friendly to all the users of the database.
- ➔ The user be able to easily download and install the system.

5.5 Business Rules

A business rule is anything that captures and implements business policies and practices. A rule can enforce business policy, decide, or infer new data from existing data. This includes the rules and regulations that the system users should abide by. This includes the cost of the project, and the discount offers provided. The users should avoid illegal rules and protocols. Neither admin nor members should cross the rules and regulations.

6. Other Requirements

There are different categories of users namely General Users, Admin, students etc. Depending upon the category of user the access rights are decided. It means if the user is an administrator, then he can be able to modify the data, delete, append etc. Similarly, there will be different categories of taxis available. According to the categories of taxis their relevant data should be displayed. The categories and data related to each category should be coded in the format.

Appendix A: Glossary

The following are the list of conventions and acronyms used in this document and the project as well:

- **Administrator:** A log in id representing a user with user administration privileges to the software.
- **User:** Normally user can comment or view details of taxis availability.
- **Client:** Intended users for the software. Software Requirements Specification for NearBy Taxi users.
- **SQL:** Structured Query Language; used to retrieve information from a database.
- **SQL Server:** A server used to store data in an organized format.
- **Layer:** Represents a section of the project.
- **User Interface Layer:** The section of the assignment referring to what the user interacts with directly.
- **Application Logic Layer:** The section of the assignment referring to the web server. This is where all computations are completed.
- **Data Storage Level:** The section of the assignment referring to where all data is recorded.

- **Use Case:** A broad level diagram of the project showing a basic overview.
- **Class diagram:** It is a type of static structure diagram that describes the structure of a system by showing the system's cases, their attributes, and the relationships between the classes.
- **Interface:** Something used to communicate across different mediums.
- **Unique Key:** Used to differentiate entries in a database.

Appendix B: Analysis Models

➔ Taxi Categories Table:

					cat_id	cat_title
<input type="checkbox"/>		Edit		Copy		Delete
	3	Daily Taxis				
<input type="checkbox"/>		Edit		Copy		Delete
	4	Weekly Taxies				
<input type="checkbox"/>		Edit		Copy		Delete
	5	Night Taxies				

➔ User Table

+ Options

						user_id	username	user_password	user_firstname	user_lastname	user_email	
<input type="checkbox"/>		Edit		Copy		Delete	2	prateek	saraswat	prateek	saraswat	saraswat.prateek100@gmail.com
<input type="checkbox"/>		Edit		Copy		Delete	3	vikas	vikas	vikas	kumar	iit2016058@iit.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	4	manish	manish	manish	ranjan	iit2016059@iit.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	5	amit	amit	Amit	Gomi	lit2016011@iitla.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	26	owner	saaru	Owner	Old	iit2016054@iit.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	28	Hemu	heamnt	Hemant	Singh	iit2016070@iit.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	29	vipul	vipul	Vipul	Singhal	iit2016049@iit.ac.in
<input type="checkbox"/>		Edit		Copy		Delete	30	Pratyush	pratysh	Pratyush	Garg	pg@gmail.com
<input type="checkbox"/>		Edit		Copy		Delete	31	mutalib	mutalib	Md. Abdul	Mutalib	mutalibcse@yahoo.com

☐

Check all

With selected:

Edit

Copy

Delete

Export

Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>