OLA CABS app - SRS on OLA CAB app

Software Engineering (Lovely Professional University)

LOVELY PROFESSIONAL UNIVERSITY

Transforming Education Transforming India

SOFTWARE REQUIREMENTS SPECIFICATION

FOR

OLA CAB APP

Project Work

For

CSE-320

Software Engineering

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INTRODUCTION

Transport is an integral part of our social living. The modern society cannot run without transport facilities. There are many companies who give transport services to the individual and corporate clients. In the current system, the client first contacts with the transport company for getting transport service. The company then books the vehicle for him on the requested date and time and then sends the vehicle to his place at the time. The Taxi booking system is the online service which will automate the process of booking a taxi and will facilitate both the client and the company with reduced time and efforts. First the company will register his vehicles and the vehicles to the system. Then the client will request for booking a vehicle on his required date and time, providing all necessary information. The fare will be calculated and client should confirm it. Then the employee will serve the client on the specific date and time. Finally the client will have an opportunity to give a feedback for the service he got. The company can check it and take appropriate action for the future improvements.

1.1 PURPOSE

The purpose of this SRS document is to specify software requirements of the Online Taxi Booking. It is intended to be a complete specification of what functionality the system provides. The main purpose of the system is to automate the process of booking a taxi online. Specific design and implementation details will be specified in a future document.

1.2SCOPE

This project's aim is to automate the system, calculating the fare, collecting fare, collecting all necessary information of the client and then serve the client. The data used by the system is stored in a database that will be the centre of all information held clients and employees and the base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

SPECIFIC / FUNCTIONAL REQUIREMENTS

Administrator Aspect

1. Perform weekly roster of Employees
2. Print reports annually, weekly, and daily
3. Check feedbacks
4. Send newsletters
5. Manage user portfolio
6. Changing the super password.

Employee Aspect

1. Logging into the system.
2. To check their rosters.
3. Maintain daily logs
4. Select availability.
5. Check online bookings

Client Aspect:

1. Make a booking
2. Check their booking status
3. Fair calculation
4. Driver history
5. Changing password.
6. Resetting of forgotten password.

Analysis

1. Authenticating users based on username and password.
2. Keeping session track of user activity.
3. Recording client's request for booking.
4. Checking whether the vehicle is available for booking.
5. Keeping history of courses bookings.
6. Keeping record of feedbacks received from the clients.

Mailing

1. Temporary password will be mailed to the user in case the user forgets the password.
2. Newsletters should go the clients email addresses.
3. The client should get notification email of the booking while confirmed.

NON-FUNCTIONAL REQUIREMENTS

Performance Requirements

Some Performance requirements identified is listed below:

- The database shall be able to accommodate a minimum of 10,000 records of clientts.
- The software shall support use of multiple users at a time.
- There are no other specific performance requirements that will affect development.

Security Requirements

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below. Specific requirements in this area could include the need to:

- Utilize certain cryptographic techniques
- Keep specific log or history data sets
- Assign certain functions to different modules
- Restrict communications between some areas of the program
- Check data integrity for critical variables
- Later version of the software will incorporate encryption techniques in the user/license authentication process.
- The software will include an error tracking log that will help the user understand what error occurred when the application crashed along with suggestions on how to prevent the error from occurring again.

- Communication needs to be restricted when the application is validating the user or license. (i.e., using https).

Portability Requirements

Some of the attributes of software that relate to the ease of porting the software to other host machines and/or operating systems. This may include:

Apache is used to develop the product. So it is easiest to port the software in any environment.

Maintainability

The user will be able to reset all options and all stored user variables to default settings.

Reliability

Some of the attributes identified for the reliability is listed below:

- All data storage for user variables will be committed to the database at the time of entry.
- Data corruption is prevented by applying the possible backup procedures and techniques.

Usability requirements

Some of the usability requirements identified for this system are listed below:

- A logical interface is essential to an easy to use system, speeding up common tasks.
- Error prevention is integral to the system and is provided in a number of formats from sanity checks to limiting free-text input.

Availability

All cached data will be rebuilt during every startup. There is no recovery of user data if it is lost. Default values of system data will be assigned when necessary.

Software System Attributes

There are a number of attributes of software that can serve as requirements. It is important that required attributes by specified so that their achievement can be objectively verified. The following items provide a partial list of examples.

The input system will allow for inputting numbers, operands, special symbols and letters of the alphabet.

INTERFACE REQUIREMENTS

Technologies:

- This section lists all the technologies for the web based system.
- PHP scripting for server side scripting as it has a very strong support for XML and MySQL.
- XML as database format: The database's performance requirements are

not very high and the ability to have custom fields in case the application form needs to add more than expected requirement. This is limited in any other database management system where we have to first specify the maximum number of fields.

- Apache as web server has a tight integration with PHP and is also available for various popular platforms.

Software

- Macromedia Dreamweaver
- PHP

Hardware

The recommended hardware specified by the respective software would suffice the needs. The memory and processing power needed would increase as the number of users increase. The estimated hardware requirements are as specified.

Server

The minimum hardware as recommended by all of the software required on server side say web server, operating system and development software

- Processing speed of 1.6 GHz
- 1 GB of RAM Network interface

Client

The minimum hardware as recommended by all of the software required on client side say web browser, operating system

- Minimum hardware depending on the operating system used
- True colour visual display unit
- User peripherals for better interaction

CONCLUSION

Information Technology plays a vital role not only in a particular field, it provides various kinds of solutions and services to the various problems prevailing in many fields. Cabs exploit information technology at the maximum extent. It uses the information technology in an efficient way for providing better passenger services. The online booking system helps to solve the everyday problems of the world biggest Indians.