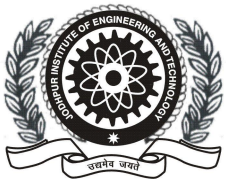
Software Requirements Specification

(SRS)

For

[ADDASTIC]

[Version 1.0] [10 August 2018]



Department of Computer Science Engineering

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APPROVAL and Compulsory Review LIST		
Role	**Name**	**Date**
Lab Faculty/ Incharge	prof. Anamika Choudhary	22 march 2018

Version Tracking

Date	Version	Comments	Author
10 August 2018	Version 1.0	Initial SRS	Arjit Chauhan
12 april 2018	Version 1.1	final SRS	Arjit Chauhan

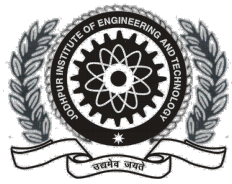


Table of Contents

1.0 INTRODUCTION

1.1 Scope

ADDASTIC basically is just made to give people another platform for advertisement.

The Project is specifically designed for cab users and drivers. This will give opportunity to customers to earn more discount.

1.2 Technologies to be used

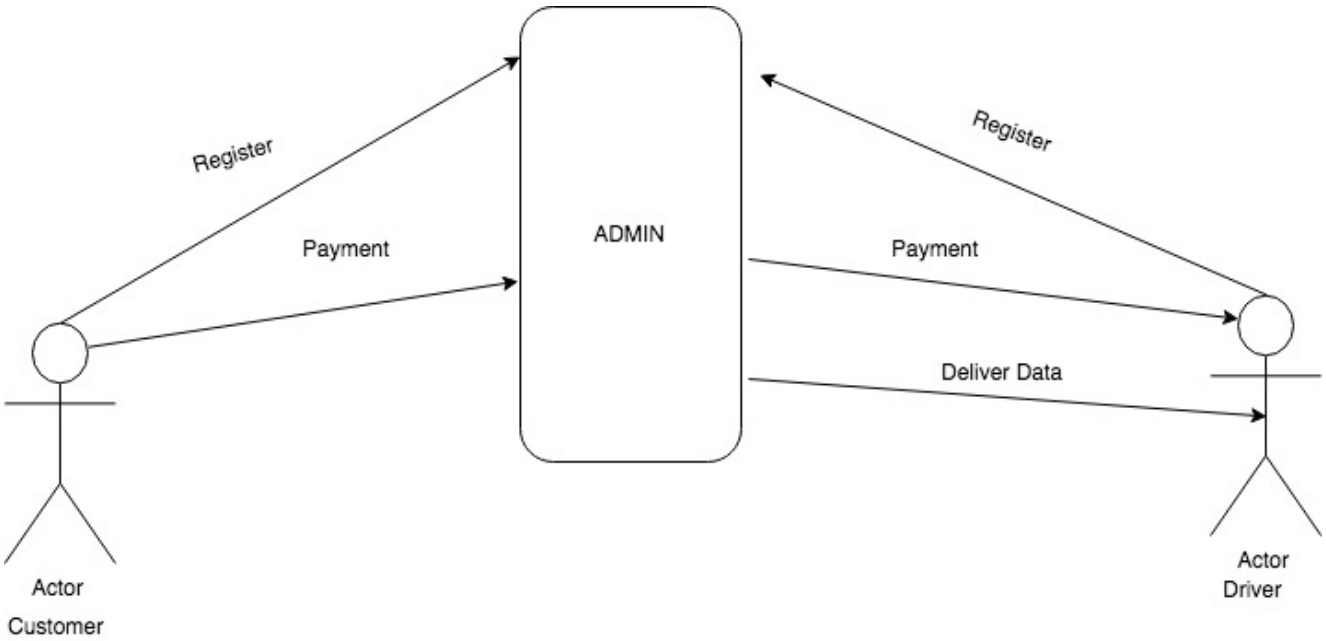
- **MySQL**
- **JAVA**
- **Hadoop**

GENERAL REQUIREMENTS

- Functionalities

1. Display Book
2. Register members
3. Check availability of book
4. Maintaining Books
5. Return Books
6. Enquiry

- Use Case Model Diagrams



❑ Supplementary requirements

No

❑ Definition, Acronyms, and Abbreviations

- IDE: Integrated Development Environment
- DFD:Data flow Diagram
- SDD:Software Design Diagram

Reference:

1. https://govugo.com/
2. Linux Manual

Addastic

SOFTWARE REQUIREMENTS SPECIFICATION

Contents:

1. Introduction.

1.1. Purpose of Requirements Document

This Software Requirements Specification (SRS) specifies the requirements of the Addastic, which will be used in Self-Driven Cab or Private Cabs. This document will be useful for the clients to ensure all specifications and requirements are conducive as mentioned by the software engineer to design the system.

1.2. Intended audience and Customers

Admin: They will be in a position to take independent decisions regarding the Project. There is always a perspective of development.

Drivers: They will be in a position to attain the various features that are enabled in the software there by inducing a new definition for security.

Developers: Project developers have an advantage of quickly understanding the methodology enabled and personalising the product.

Customer:They will be in a position to take advantage of the facility provided and will be able to grab discounts.The users of the system will get a clear idea of the software and hardware requirements to be engaged.

The developer would suggest clients to go through the requirement section thoroughly before installing the software. The admin are expected to have certain knowledge in the terms used and hence can go for the security issues directly. Drivers and Customers can utilise the documentation as a resource in understanding the project.

1.3. Scope of development project

This project of is a basic app which will give opportunity to users to earn discounts just by seeing advertisement being served to displays mounted at the back of headrests while commuting to their workplaces this can be either in publicly driven cabs like OLA and Uber and further we are working to add up features like games and improving advertisements by displaying user personalised ads or advertisements based on cabs location.

1.4. Definitions, Acronyms, and Abbreviations

1. **SRS**: Software Requirement Specification
2. **Driver/Customer**: Internet user at the Internet access point
3. **Server**: A system that runs in Linux always monitoring the actions
4. **RAM**: Random Access Memory
5. **SQL**: Structured Query Language
6. **HTTP**: Hyper Text Transfer Protocol
7. **User_id**: Unique username issued to each user on login
8. **Password**: Unique word given to each user as a secret code.
9. **OTP:**A unique three digit number sent to customer for verification purpose

1.5. References

Books:

•LINUX BIBLE by Cristopher Negus.

Websites:

•http://www.govugo.com

•http://www.grab-it.com

•http://www.reallylinux.com

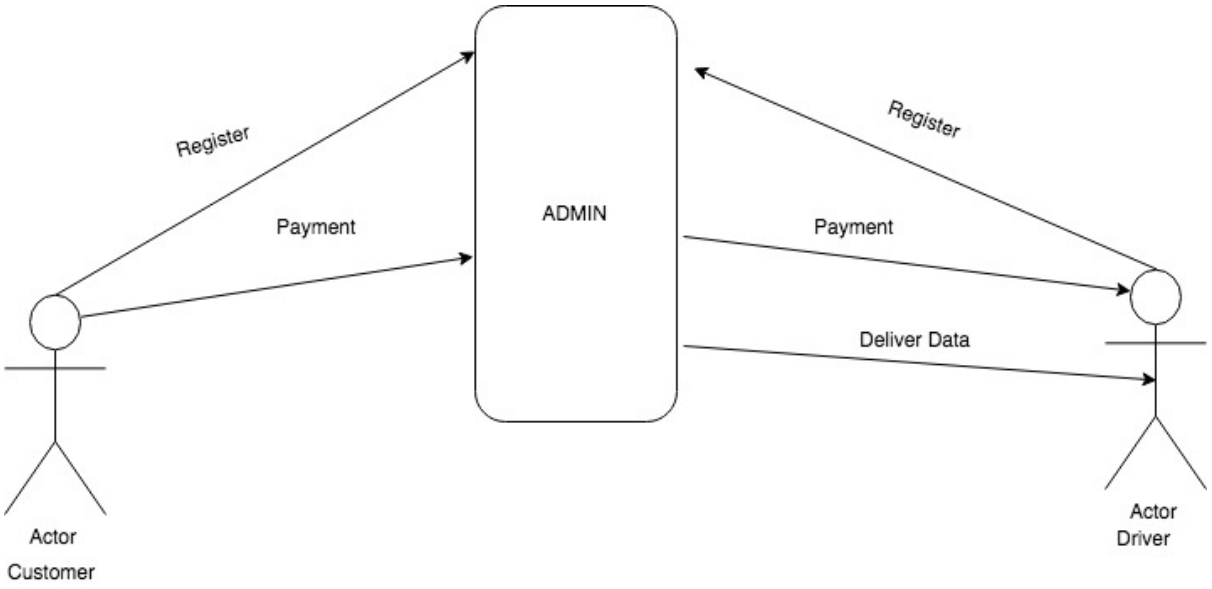
•http://www.linuxquestions.org

1.6. Document overview

The first section of SRS builds a brief idea what the proposed System of Addastic is and what is the need behind having it. Along with this background information it also provides the reference information for further study, design and implementation. The second section shows the way to overall description of application, functions, perspective, operating environment, design and implementation constraints, data inputs required. The third section explores the various descriptions of external interfaces such as user interface, hardware interface, communication interface and software interface. The fourth section is written with a goal to show the various system features in detail. The subsections give an elaborate description of individual features.The fifth section focuses on details of non-functional requirements such as security requirements, safety requirements etc.

2. Overall Descriptions.

2.1. Product Perspective



The customer/driver will be given Internet access only by the knowledge of the server. When a customer/driver is accessing Internet the server will be tracking the username and the account details of the user logged in. There is also an option for the user to view the account details of the user.

2.2. User classes and Characteristics

General Users: They will be in a position to permit access to the users in the Internet and acknowledge their account status.

Administrators: They are the core users and are able to add new users to the system and permit them to access the Internet resources. They can also view in real time what a user is performing right now. They can also get the overall report of the user sessions.

Client Users: They login at the client level and this is to get access to the Internet at the client level. They can also view their account status in the client system.

2.3. Operating environment

Particulars	Client System	Server System
Operating System	Windows2000 Prof/Linux	Linux
Processor	Pentium 4, 1.2GHz	Pentium4, 2GHz
Hard disk	40GB	100GB
RAM	256MB	512MB

2.4. Design and Implementation constraints

Each user must keep their password as confidential. More over the user must have individual ID for creating a login in the ADDASTIC system. Only Administrator can control user addition and deletion in the ADDASTIC system. Also this group could only create reports.

3. External interface requirements

3.1. User interface

Login Screen: This is for the Administrator to get into the software. It requires user name and password.

Account Details: This shows the account status of various users with their login times.

New Registrations: This utility is to create new users or clients in the ADDASTIC.

Reports: This utility is used to generate reports of the login and account details of the users.

User Login (Customer Side): The user has to give a username and password by which he or she can access the Internet.

User Login (Driver Side): The user has to give a username and password by which he or she can access the Internet.

User Account(Customer/Driver): This enables the user to view the account status of their account.

3.2. Hardware interfaces

The server is directly connected to the systems. Also the customer/driver has the access to the database for accessing the account details and storing the login time.The customer/driver access to the database in the server is only read only.

3.3. Software interfaces

ADDASTIC is a multi-user, multi-tasking environment. It enables the user to interact with the server and attain access to the Internet and also leaves a record in the inbuilt database. It uses java servlets as the front end programming tool and SQL as the backend application tool.

3.4. Communication interfaces

The ADDASTIC uses java servlets and hence require HTTP for transmission of data. More over this allows easy interaction between the various clients and the server.

4. System features

4.1. Authentication

4.1.1. Description

The system offers access to Internet at client level and access to server resources at server level only by validating the user with the unique username and password.

4.1.2. Functional requirements

All system should have the client for program running. The server should identify individual systems by their name.

Input: User name and password, Account number

Output: Access to Internet, Available balance, Account Details.

4.2. Monitoring

4.2.1. Description

This utility is used to monitor the user status of the various users using the system. Moreover it provides real time reporting.

4.2.2. Functional requirements

All system should have the client for program running. The server should identify individual systems by their name.

Input: User name and password, Account number

Output: Available balance, Account Details, Real time users.

4.3. Accountability

4.3.1. Description

This module is designed to support the user accounts in the ADDASTIC software. Only the administrators could access this.

4.3.2. Functional requirements

All system should have the client for program running. The server should identify individual systems by their name.

Input: User name and password, Account number

Output: Available balance, Account Details, Report.

5. Other requirements

5.1. Performance requirements

The important aspects of ADDASTIC software is time constrain. ADDASTIC software system is real time and hence should be performed in minimum requirements. The accountability is a vital feature and this could only be assured if the system is working in full capability. So uninterrupted internet supply is needed.

5.2. Safety requirements

The data handled in the ADDASTIC system is very vital. The server should always be confirmed to run properly and the data are saved to the database at consecutive intervals. Data is a significant feature and the Internet supply should be always taken care of. An Uninterrupted internet Supply is always recommended.

5.3. Security requirements

The security system features from having a login for all the users to access the software. The login details will be used in the system also. So the chances of the software getting intruded are very less.

5.4. Software quality attributes

The source code of the product is going to be open as this is going to be open source software. It will be free for further modifications and improvements.

5.5. Business rules

Illegal duplication of the reports should be strictly dealt with. The administrator should have full details of the user while a user is getting registered to the system.

5.6. Installation

A conducive environment for the efficient running of the ADDASTIC is always recommended. The server should be handled with great care and all unauthorised access should be restricted.