



Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name : Bus ticket booking management system

Experiment no: 02

Experiment name: **Requirements Specification Analysis of the project**

Submitted To

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Group No : 02

Group members :

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Objective

The purpose of this document is to provide a comprehensive analysis of the requirement analysis specifications for Bus ticket Booking management system. Specification should include-

- The context of compile board system and software
- A set of graphical models
- a formal, mathematical model
- A collection of user scenarios
- A combination of data.

The provided services or function

- 1) User Registration specification
- 2) User login specification
- 3) Bus scheduling specification
- 4) Performance specification
- 5) Speed and latency requirements

- 6) Reservation specifications
- 7) Dependency requirements
- 8) Availability requirements
- 9) Maintainability and supportability Requirements
- 10) Security requirements
- 11) Accessibility requirements

Lets see some detailed system requirements specifications -

Registration specifications -

- The user must register to use the service.
- The user need to fill important fields like user-id, email, name, number, gender to register.
- The user will have to email authentication to confirm login.

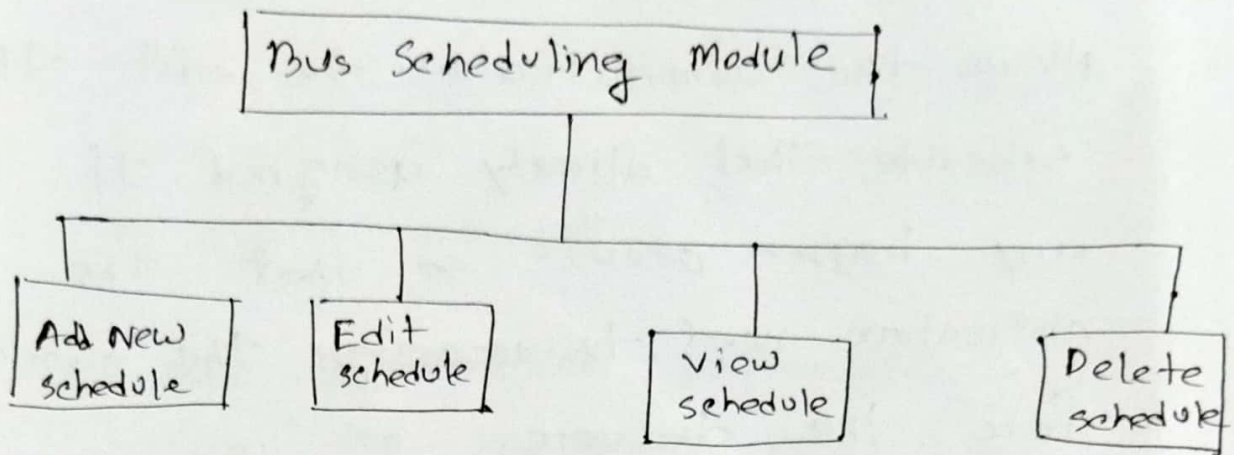
Login Specification

- User will insert right user id or email and password.
- The user information will be verified.
- The user can change info if he forgot password
- User will reenter information in case of wrong information.

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Functional Requirements:



* Add New schedule :

The system has a function that allow administrators to add the new schedule and the destination to the drivers.

The system will check on the same time, same day and same drivers that already have the schedule or not, if yes then the system will not allow the administrator to add the new schedule for the particular drivers on the same time, day and place. If not then the administrator can assign the new schedule for the particular drivers.

* Edit Schedule Details:

The system has a function that allows the administrator to edit the schedule that already assigned. If any happen occurs so that the administrator need to reassign the schedule for the driver.

* View schedule Details:

The system has a function that allow the driver to view the schedule that assign by the administrator according to their name so the driver can know when and what time they should drive the bus from one destination to another destination.

* Delete schedule Details:

The system has a function that allows the administrator to delete a schedule for the particular driver if they feel that the schedule not suitable for this particular driver on that time.

Reservation module :

1. Add Reservation

When the member click the next button then will go to online payment form to make payment.

2. Add Reservation payment :

When the member click the next button then will go to online payment form and the member will key in all the information in the payment form then the system will check the credit card no and the credit card expired date whether is valid or not.

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Project : Bus Ticket Managing System.

2. Operational Specification

2.1 Performance.

2.1.1 Speed and Latency Requirements

- proper Database use.
- Query Result Reaction.

2.1.2 Precision or Accuracy Requirements

- Effective Login
- No Signup without email
- All input field should insert exact and valid information to the database.

3. Dependency Requirements

3.1 Reliability Requirements

- Only authentic users access to the system.

- New users should Login.

- Only admin can manage bus details.

3.2 Availability Requirements

- Available on internet.

- Platform independent.

- Perform quickly on client demand

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4. Maintainability and Supportability Requirement

4.1 Maintenance Requirements

1. Alter framework applications when its need to change on various condition.
2. Databases are used to maintain information in a systematic way.
3. Fixed bugs when the application will be corrupted on crash.

4.2 Supportability Requirements

1. The user will be provided a user manual with full documentation to make the application more effective.

4.3 Security Requirements

1. Since the registration process will handle the admin of the company, no one other than the company's employee can access the system.
2. Administrator could will be default accounts which will be usable for investigate the issue and notice the authenticate employees activity

4.4 Ease of use Requirement

1. User Interface of the application is user friendly and easy to use for all type of users.
2. The user manual is available for easy access to new users.

4.5 Accessibility Requirement

1. This is a web application so it can be accessed from any internet connected device
2. Only after login, the user will be able to access his/her account.