

SOFTWARE REQUIREMENT SPECIFICATIONS

SUBMITTED BY,

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TOPIC:BUS RESERVATION SYSTEM

ABSTRACT

Bus Reservation System is used to automate the purchase of online tickets through an easy online bus booking system. We can manage/book reservations, client info, and passenger lists with the bus ticket reservation system's admin, and book tickets easily via the Bus reservation Website.

MODULES

1. Admin

- Manage User – For the user, The admin can add, update, and delete user information and also the admin can change the password of the user.
- Manage Booking – For the booking, The admin can add, update, and delete booking information.
- Manage Bus – For the bus, The admin can add, update, and delete booking information.

2.User

- Log in – For the login, the user will login first before he/she can use the system.
- Sign up – For the sign up, the user will sign up first before he/she can use to login in the system.
- Homepage – For the homepage, you will be able to all the basic access in the whole system. Such as home, find bus, see booking, and login.
- Search Bus – For the search bus, the user will be able to search the available bus.

- **View Booking** – For the view booking, the user will be able to view the booking details.
- **Cancel Booking** – For the cancel booking, the user will be able to cancel there booking.

DESIGN

1.User Login and Sign up Page

The first page has buttons for login and sign up. On clicking these buttons, it will open up a modal for their respective use cases.

The login modal will have the following text boxes and the login button:

- **Username:** to enter the username. Username can be alphanumeric.
- **Password:** to enter the password. Password can be alphanumeric, can contain special characters and must be at least 8 characters in length.

There is also a provision to reset your password, in case the user forgets it. On login, the user will be redirected to the Home Page.

The sign up modal will have the following textboxes for the user to sign up to our website :

- **First_name:** to enter the first name. First_name must be entirely alphabetic.
- **Last_name:** to enter the last name. Last_name must be entirely alphabetic.
- **Email_id:** to enter the email address. Email can be alphanumeric and it must contain '@' symbol.
- **Password:** to enter the password. Password can be alphanumeric, can contain special characters and must be at least 8 characters in length. The password will be saved using encryption methods for security.
- **Phone number:** to enter the phone number. It must be entirely numeric and must be at least 10 characters long.

- The user will also have to verify a captcha to prevent bots from signing up to our webpage.

This registration will provide the user with customer profile id.

2. Home Page

The home page will have a navigation bar. In the navigation bar, a hyperlink to find bus page will be provided. The bokings can be found in another hyper-link, where the user can see the list of buses available on that date.

3. Find Bus page

The find bus page have the bus related informations:

- From:Enter from where the user starting the journey
- Destination: Enter the destination to travel
- Date: select the date for travelling

Then the user will get the details of buses according to the informations.

5. List of buses

Here user will get the bus details.And user can choose which bus to book,here user should enter the bus id and number of seats and user can book the bus.

6. Admin Page

The Admin page can only be accessed by the admin of the website. The admin can add other users in admin page if required. The admin can access through the information of users. Admin also has the authority to approve or reject a particular user registration request.

7. Cancel Page

The user can cancel the ticket any time after the boking of ticket.

Database design

1. FindBus

Field Name	Data types	Constraint
bus_id	int	primary key
bus_name	varchar(50)	j
From_name	varchar	
Destination_name	varchar	

2. BusBook

Field Name	Data Type	Constraint
bus_id	int	Primary key
bus_name	varchar(50)	
seat_no	int	

3. User

Field Name	Data Types	Constraint
user_id	int	Primary Key
first_name	varchar	
last_name	varchar	
email_id	varchar	
phone_number	int	
username	varchar	
password	varchar	

4. Cancel page

Field Name	Data Type	Constraint
id	int	primary key
user_name	varchar	
customer_profile_id	int	