

## WIPRO NGA Program – EP Batch

Capstone Project Presentation – 11 July 2024

Project Title Here - FastX Online Bus Ticket Booking System

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#### Introduction

Problem Statement: FastX Online Bus Ticket Booking System

The FastX Online Bus Ticket Booking System is an innovative web-based application designed to streamline the process of reserving bus seats. Users can easily search for bus routes, view schedules, book tickets, and make payments online. By connecting passengers with bus operators, this system simplifies journey planning and booking management, providing a seamless and efficient experience for all users.



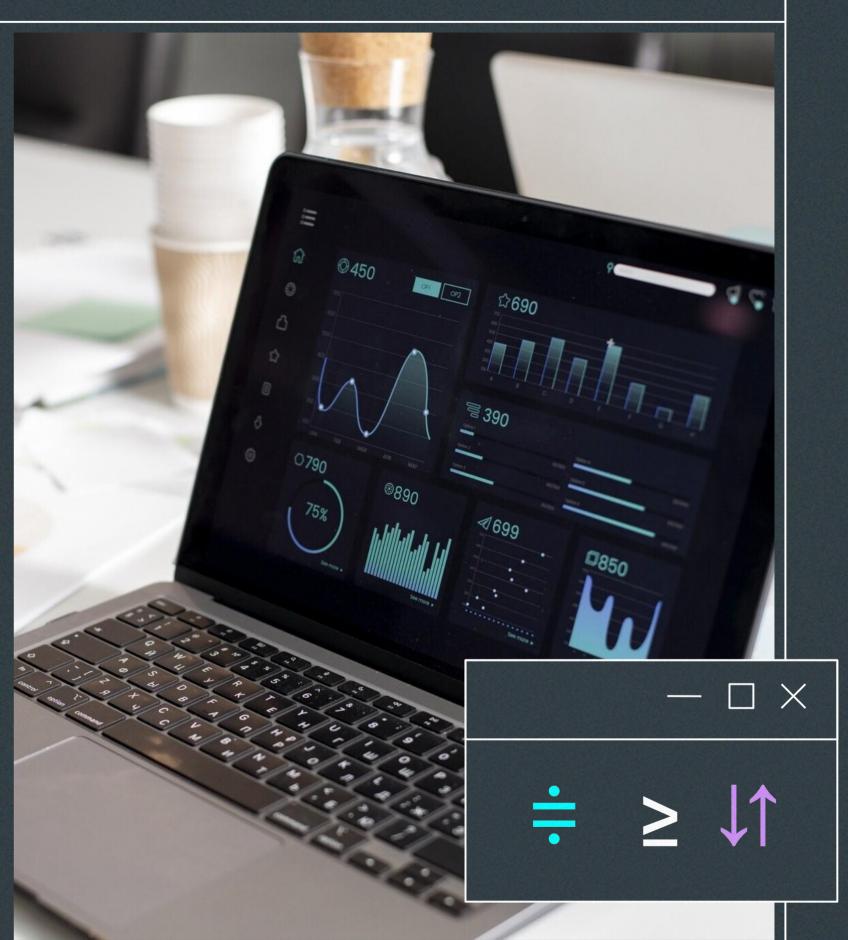
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#### Technologies Used



- Frontend: Angular
- Backend: Java, Spring Boot for API development
- Database: MySQL / SQL Server
- Authentication: JSON Web Tokens (JWT) for secure user authentication



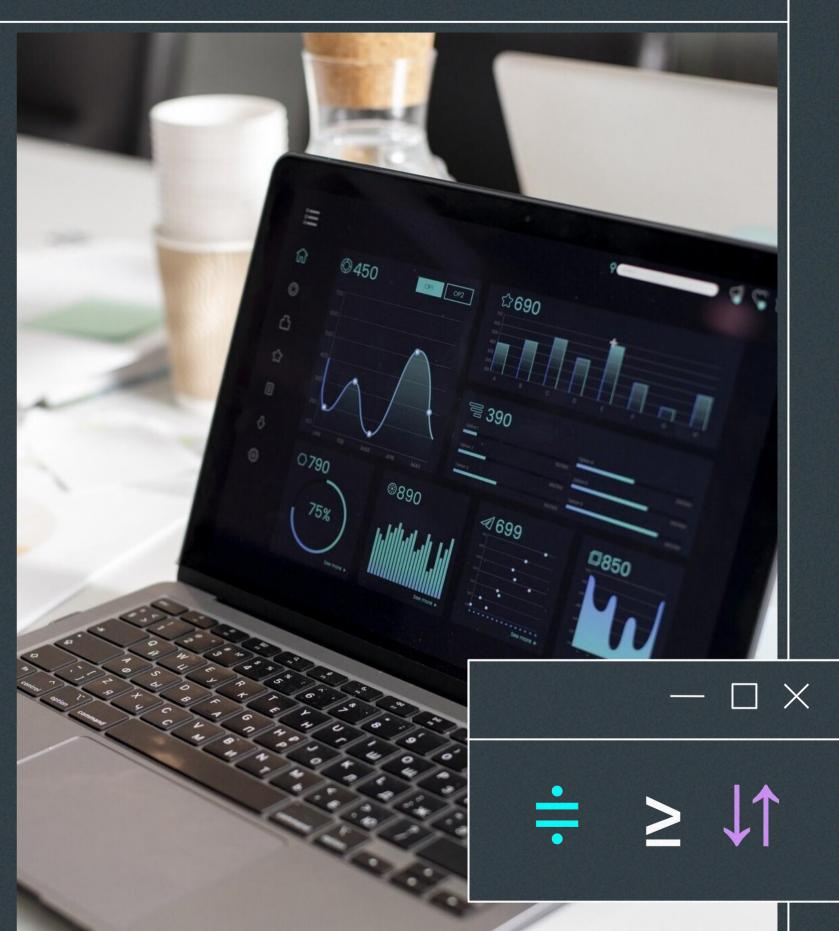


## Project Scope

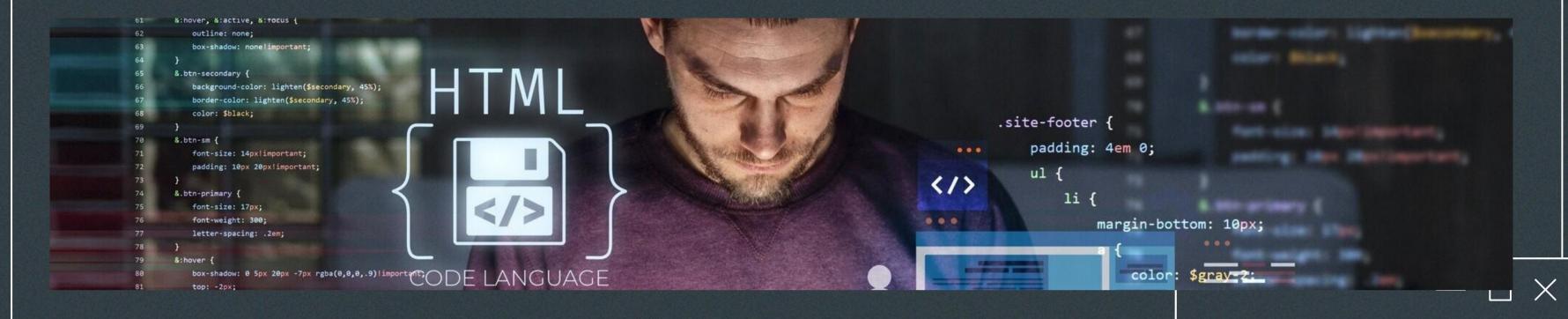


Fastx\_BusTicket\_Booking

- User Registration and Authentication
- Bus Route Search
- Route Details and Booking
- Ticket Confirmation
- User Profiles
- Admin Dashboard







## User Login Module

#### real-time information

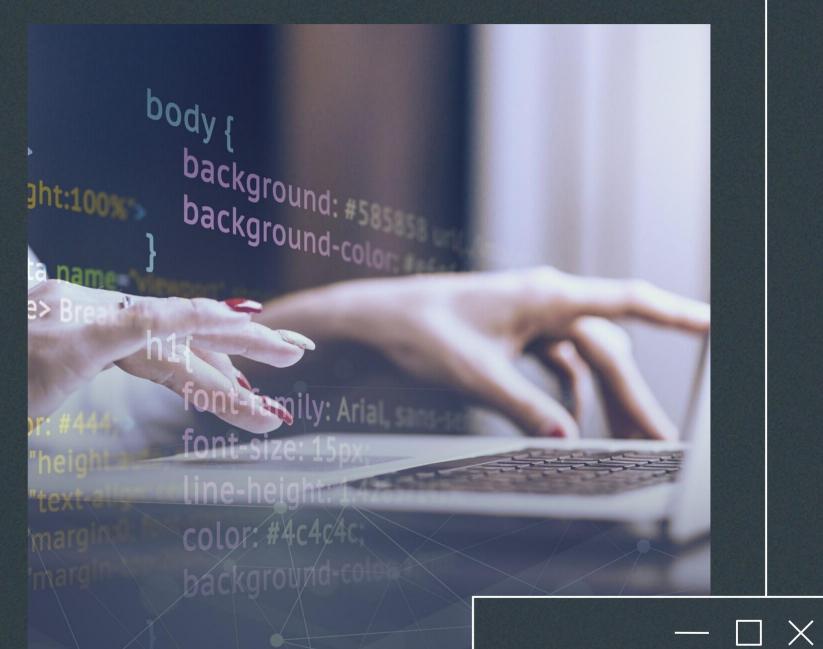
- Functionality:
- Secure user login with JWT authentication
- Validate credentials and generate JWT token
- Store token securely on the client side





## User Registration Module

- Functionality:
- Create new user accounts
- Collect user details (name, email, password, etc.)
- Validate and store user information securely
- Redirect to login page upon successful registration

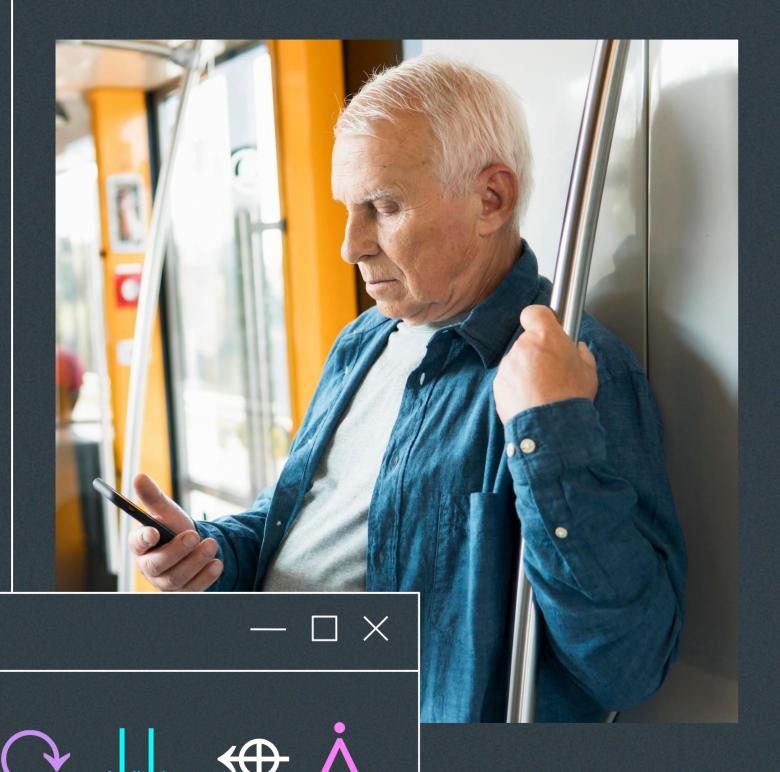












## Bus Operator Registration Module

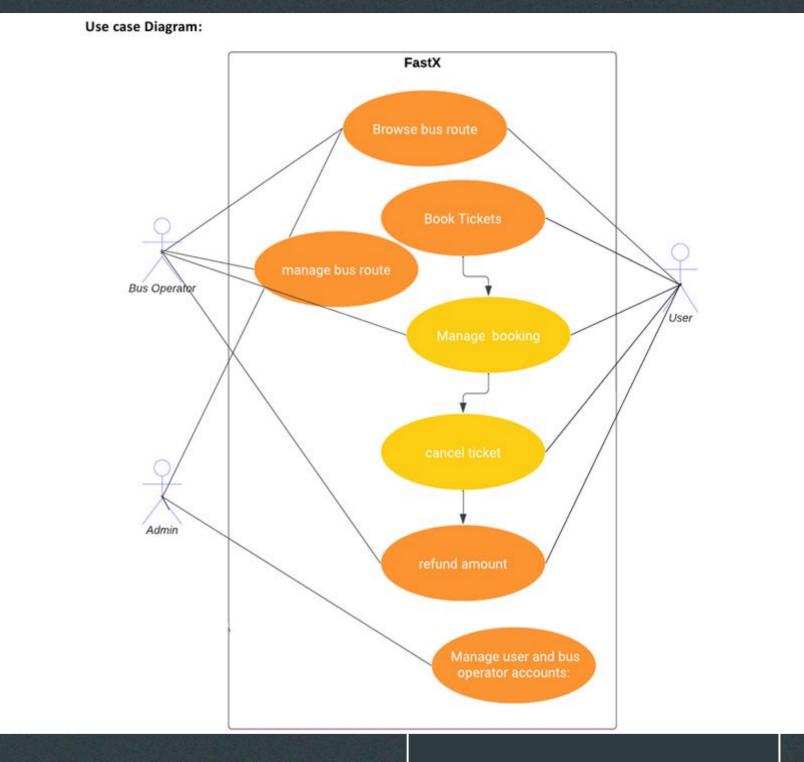
- Functionality:
- Register bus operators with necessary details
- Allow operators to manage bus routes and schedules
- Validate and store operator information securely



## Use Case Diagrams



- Visual representation of system interactions
- Actors: User, Bus Operator,
   Administrator
- Major use cases: User Registration,
   Login, Bus Route Management, Booking
   Management



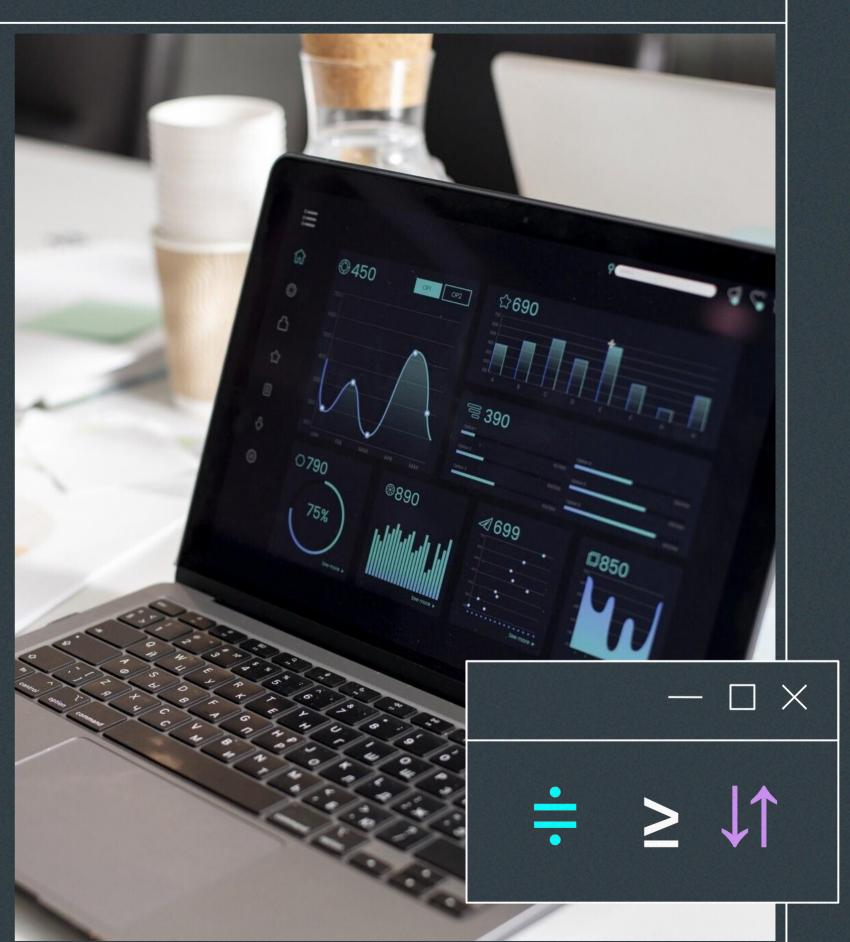




## System Architecture



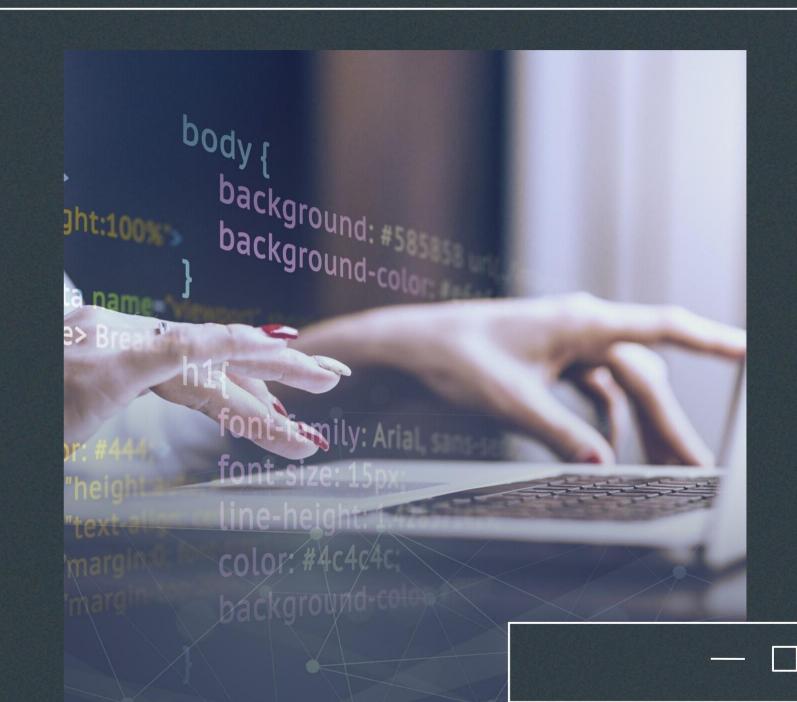
- Frontend: Angular for user interface
- Backend: Spring Boot for API development
- Database: MySQL / SQL Server for data storage
- Authentication: JWT for secure user sessions





## **Development Process**

- User Registration:
- Collect and validate user details
- User Login: Secure login and JWT generation
- Bus Operator Management: Register and manage bus operators
- Booking Management: Confirm bookings and handle cancellations









#### **OUTPUT SNAPSHOTS**

Register Login Ticket Search Bus Home Welcome to FastX Bus Ticket **Booking System** Book your bus tickets easily and quickly!

#### **Easy Booking**

Book your tickets with just a few clicks.

#### **Comfortable Travel**

Enjoy a comfortable journey with our topnotch buses.

#### 24/7 Support

We are here to assist you round the clock.

| Home Register Login Ticket Search Bus |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Name:                                 | Register Administrator                | Bus Operator Login  Email:            | Login                                 |
| Email: Password:                      | Email                                 | Password:  Login                      | Password                              |
| Phone Number:                         | Password  Register                    |                                       | Login                                 |
| Address:                              |                                       |                                       |                                       |
| Register                              |                                       |                                       |                                       |
|                                       |                                       |                                       |                                       |

#### Create Bus Schedule Bus Name: Enter Bus Name Bus Number: Enter Bus Number Bus Type: Enter Bus Type Number of Seats: Enter Number of Seats Origin: Enter Origin Destination: Enter Destination Timings: Enter Timings Fare: Enter Fare Submit

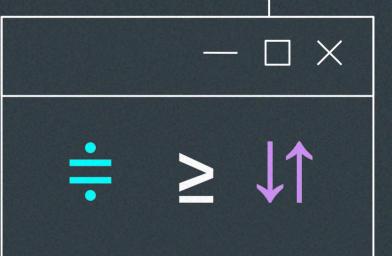
Home	Register	Login	Ticket	Search Bus	
					Origin:
					Destination:
					Search Buses
Home Reg	ister Login	Ticket Sear	ch Bus		
				Create Booking	

0	
Schedule ID	
0	
Seat Numbers	
Booking Date	
dd-mm-yyyy	
Total Fare	
Status	

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## Conclusion: Optimizing the Passenger Journey

The FastX Online Bus Ticket Booking System offers a comprehensive solution for passengers and bus operators."It simplifies the booking process, enhances user experience, and ensures secure transactions."By leveraging modern technologies, FastX aims to revolutionize the way bus tickets are booked, making it more convenient and efficient for everyone".





# Thanks!





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Any Queries?











