User manual

New bus management System

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1. Introduction

This manual provides an all-encompassing guide to the new bus system, which includes a web-based booking feature for passengers, real-time trip updates for drivers, and comprehensive management capabilities for administrators. Built using modern web technologies such as HTML, CSS, JavaScript, ASP.NET Core Web API, and SQL Server, the system promises efficiency, reliability, and scalable solutions.

2. Overview

The New Bus System aims to improve the transportation experience by integrating digital solutions. Passengers can book trips seamlessly via a user-friendly web portal, drivers receive dynamic updates about their routes, and administrators gain access to robust management tools for overseeing buses, stations, trips, and users.

3. Technical Specifications

 to use the system effectively, the following are required:

- A modern web browser (e.g., Chrome, Firefox).

- Stable internet connection.

- Enabled GPS/location access (for location-based features).

4. Deployment

The deployment process involves setting up the application on a web server, configuring the database, and ensuring integrations between different system components. Detailed configuration settings and step-by-step instructions will be provided to facilitate a smooth deployment.

5. Features

- **Passenger Booking:**A seamless web-based booking interface for passengers to choose and manage trips.

- **Driver Trip Updates:**Real-time notifications and updates for drivers regarding their routes and schedules.
- **Administrative Management:**A comprehensive dashboard for managing buses, stations, trips, and user accounts.

6. Roles

The system assigns different roles based on user requirements:

- **Passenger:** Can book trips, manage bookings, and receive updates.
- **Driver:** Access trip schedules, update statuses, and receive route notifications.
- **Administrator:** Full control over system operations including managing resources and users.

7.Passenger Scenario

7.1. Create account
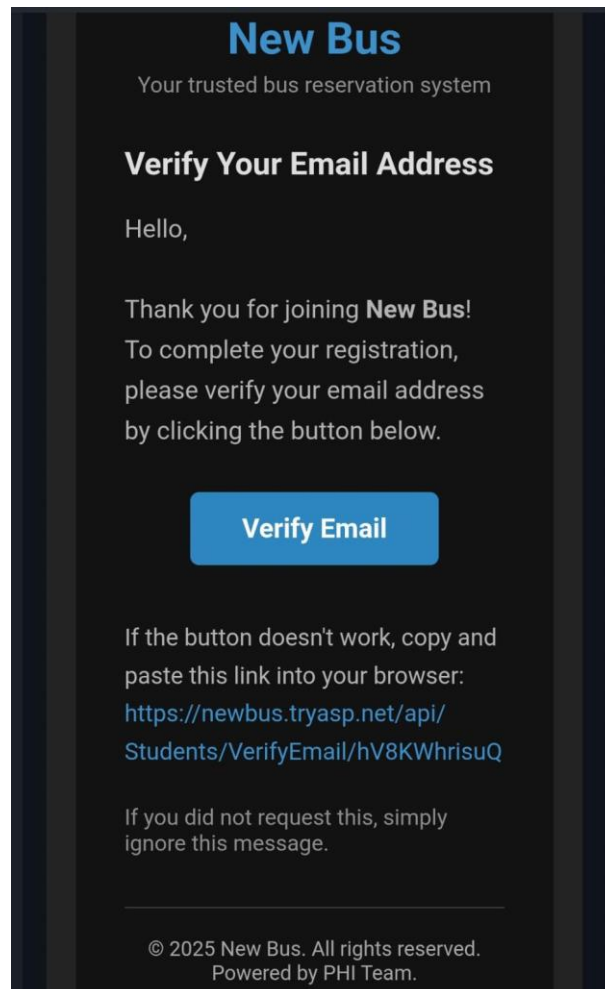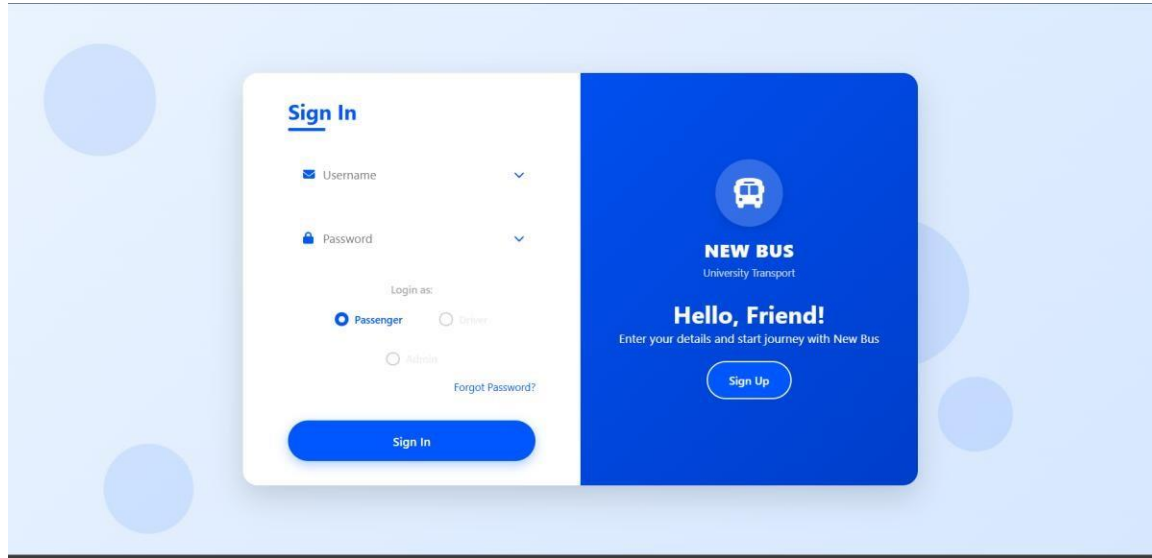Passenger creates an account and logs into the portal to book a trip.

7.2. Email verification

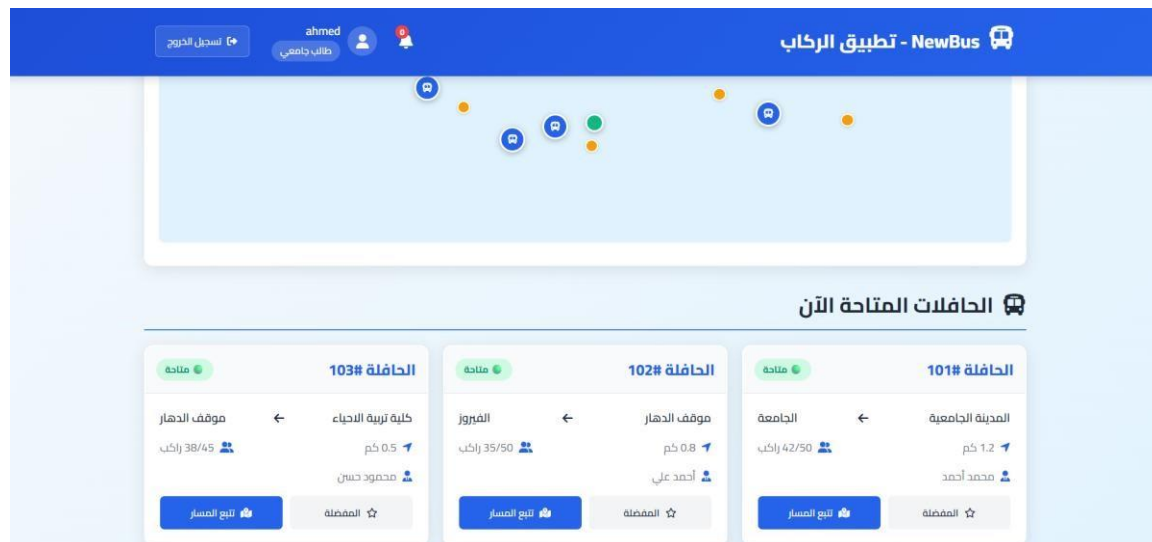click verify email button and the system directed you to the sign page
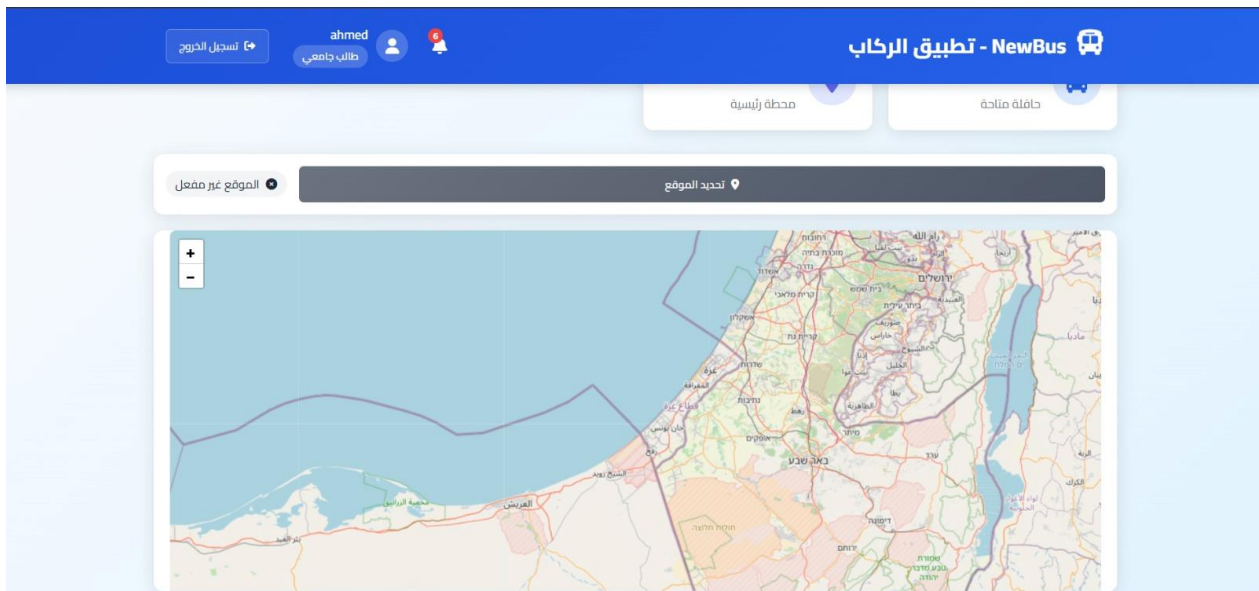
7.3. Login

7.4 Trip Selection (Passenger):
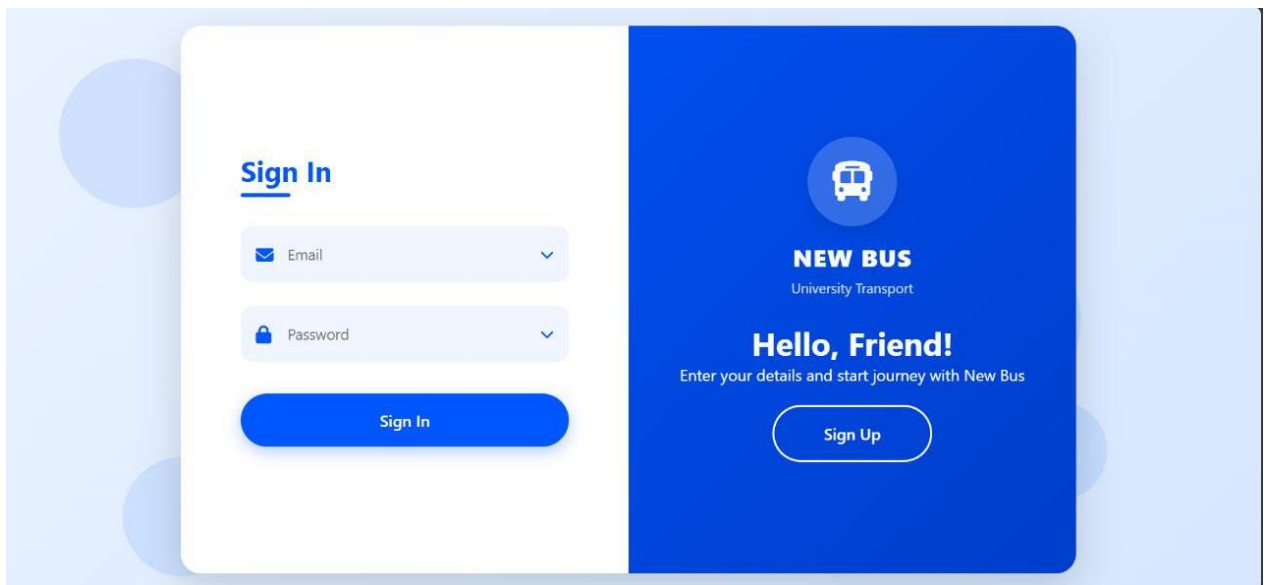Passenger selects a trip from the available options

7.5. Showing the map and sharing location

8. Driver Scenario

8.1. Login

sign in using a pre-assigned email and password provided by the system administrator. No registration or email verification is required

8.2. Starting trip

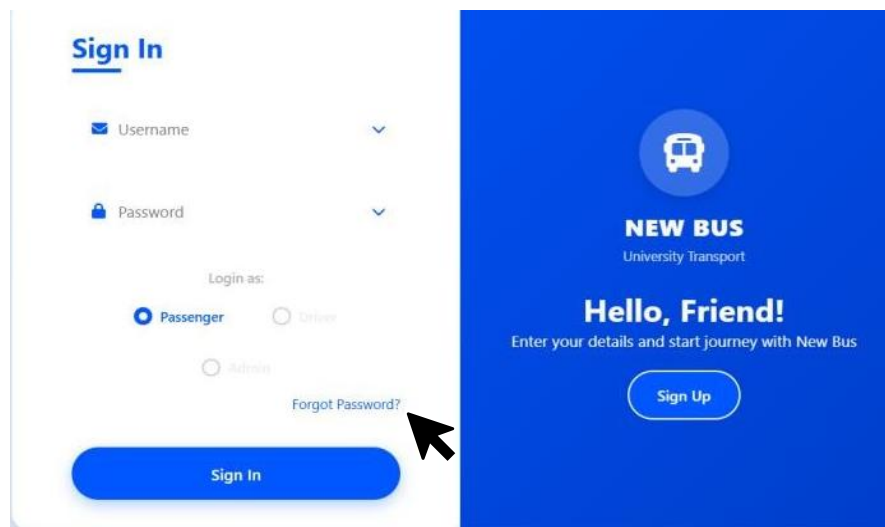## 8.3. Showing the map and sharing Live location of the Bus
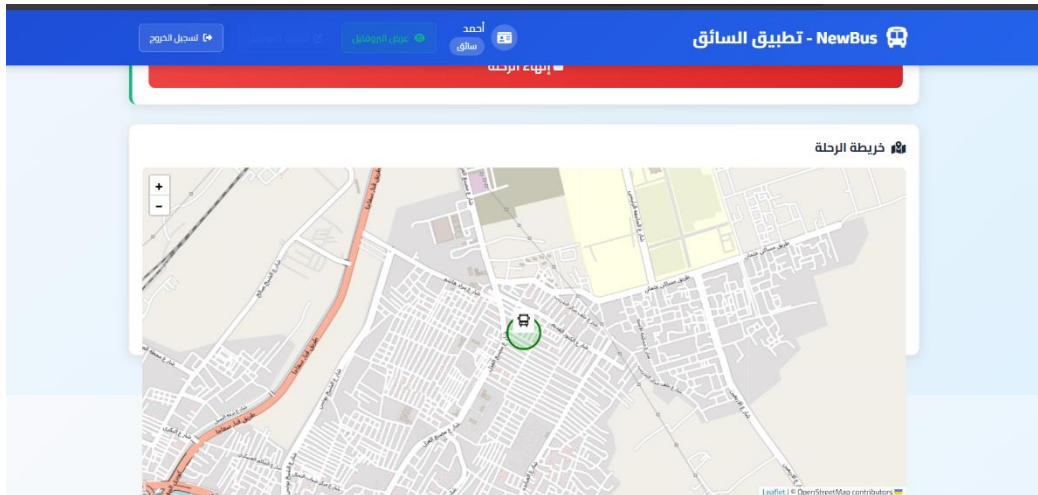
9. Troubleshooting / FAQs
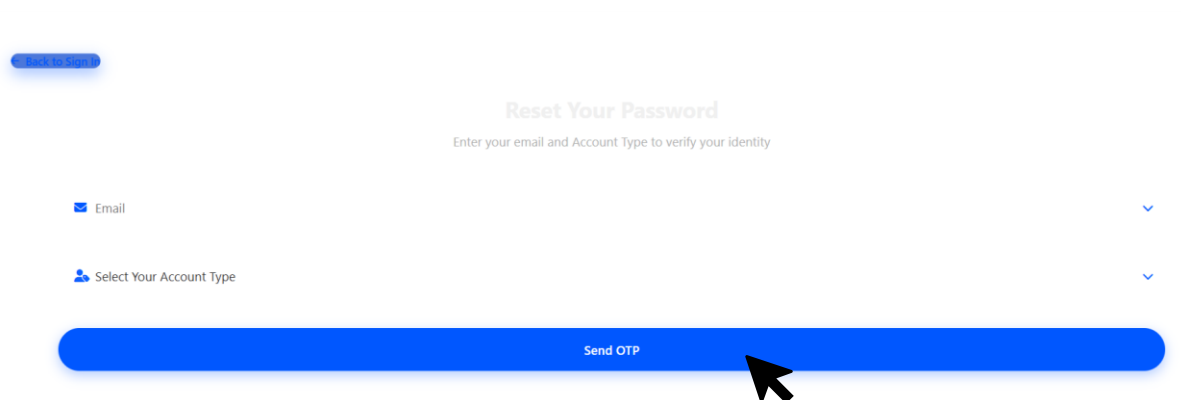
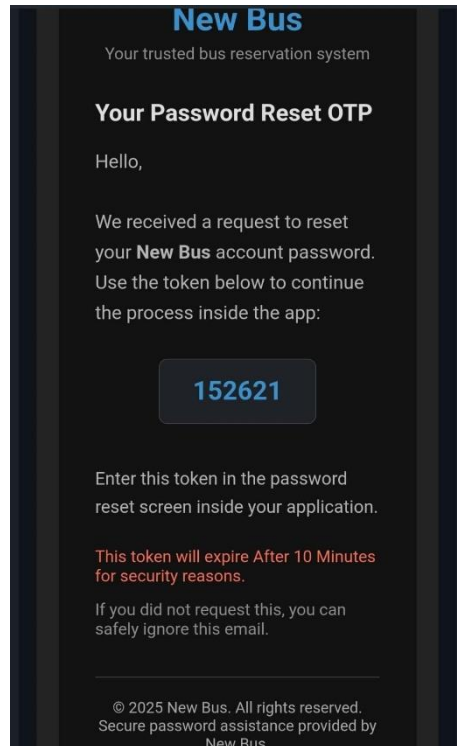### 9.1 Forget password

Click on forget password to reset it

Fill your email and click send OTP

The system will send OTP to the Email

10. Conclusion

The New Bus System represents a significant advancement in optimizing public transport services. Through effective implementation and utilization, passengers will gain better accessibility, drivers will benefit from improved routing efficiency, and administrators will find enhanced control over operational workflows.