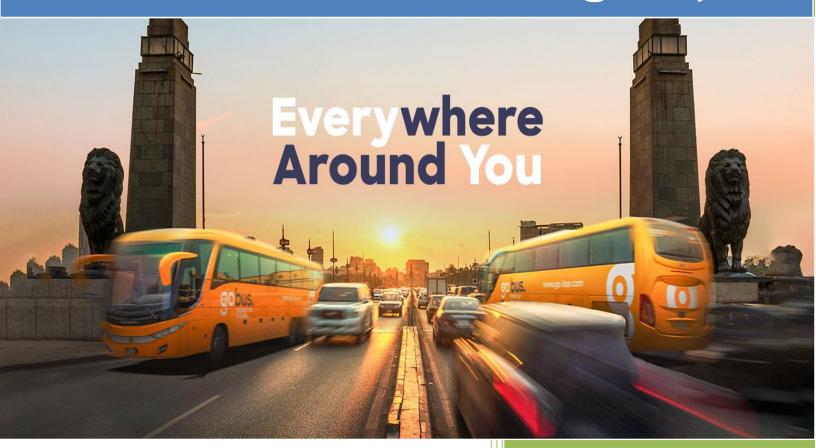
2025

"Go Bus" Software Testing Project



By:

Team 1

2/20/2025





TABLE OF CONTENTS

- * Go Bus Software Testing Plan
- 1 Overview of the project, objectives .

1 TEST STRATEG

- 1.1 Test Type
- 1.2 Scope of Testing
- 1.2.1 Feature to be tested
- 1.2.2 Out Scope of Testing
- 1.3 Test Type

2 TEST ENVIRONMENT

3 TEST CRITERI

- 3.1 Entry Criteria
- 3.2 Exit Criteria

4 SCHEDULE & ESTIMATIO

- **4.1 Project Timeline and estimation**
- 4.2 Risk Assessment & Mitigation

5.TEST DELIVERABLES

5 USER STORIES

6 USE CASE

7 Scenarios:





8 DEPENDENCY

9 Design





Go Bus Software Testing Project

Project Overview:

The goal of this project is to ensure the "Go Bus"(https://go-bus.com/)online platform provide a smooth, secure, and reliable booking experience for users. The focus will be on testing functionalities like ticket booking, payment, user registration, and customer support.

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project "Go B". The plan identify the features to be tested, the types of testing to be performed and the risks associated with the plan.

Objectives:

TEST OBJECTIVE The test objectives are to verify the Functionality of website Go Bus, the project should focus on **Booking a Ticket**, **Searching for Buses**, **Cancelling a Booking**, **Viewing Booking Details**, **Tracking Bus Status**, **Creating an Account** to guarantee all these operation can work normally in real business environment:

- Ensure system reliability and stability.
- > Validate user-friendly interface.
- Identify and report functional and performance-related bugs.
- Improve compatibility across devices and browsers.





TEST STRATEGY

In Scope:

Functional Testing:

- ✓ User registration & login process.
- ✓ Ticket booking flow.
- ✓ Payment gateway integration (Fawry, Aman, Visa, etc.).
- ✓ Seat selection and cancellation process.
- ✓ Email and SMS notifications.

Compatibility Testing:

- ✓ Cross-browser testing (Chrome, firefox, microsoft Edge)
- √ Cross-device testing (Desktop)

Usability Testing:

- ✓ User navigation and ease of use
- ✓ UI/UX evaluation
- ✓ Localization and translation testing.

Regression Testing:

- ✓ After every system update
- ✓ New feature testing





Features to be tested

Feature to be tested; all the feature of website Go Bus will be testing As an Exploratory Testing.

Module Name	Description
Booking	The user can search for trips, select trips, remove them if desired, confirm trips, Viewing Booking Detail and book them.
login process	User can login The user can login to complete the booking process.
Registeration	User can register with E-mail
Seat selection & Cancellation process	User can Seat selection and cancel the process
Payment gateway	User can complete the booking with Various Payment Methods: (Master card&Visa&Fawry,ect)
Search for Buses	User cansearch for buses by entering my departure city, destination, and travel date so that I can find available buses.
Header& Footer (Home page)	Contains :compant,FAQ,Terms,Policy,contact us and language. In footer -whatsapp iconyoutube iconlinkedin iconinstagram iconfacebook icon.
Go Bus Routes(Home page)	User can check the routes; there are more than 20 Bus Routes in Egypt
Go-Bus-Classes (Home page)	User can choose bus classes, Explore Egypt with the most booked classes:Super Go D&Business class DD& Economy.





Travel Destination	User can choose travel destination and book through it.
Go Bus Stations	The user can check if a Go bus Stations at their location before making a reservation.

Out of Scope:

- API Development
- Mobile Application
- security Testing and Performance Testing

> Test Type

In the project Go Bus, there're types of testing should be conducted.

- 1. Integration Testing (Individual software modules are combined and tested as a group).
- 2. System Testing: Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.
- 3. Smoke Testing.
- 4. Regression Testing





Test Environment

-Windows 10 (Chrome).

Entry Criteria

- Basic Functional Availability: The website should be accessible, and key functionalities (ticket booking, schedule display, payment process) should be ready for testing.
- 2. Defined Test Scope and Objectives:
- 3. Access to Different User Roles:Testers should have credentials for different user roles (guest users, registered users)
- 4. Availability of Testing Tools:
 - o Required tools (browser developer tools, bug-tracking software).

Exit Criteria

- 1. Sufficient Coverage of Key Functional Areas:
 - Major functionalities have been explored, and cases have been identified.
- 2. No Critical Defects Blocking Testing:
 - Any critical issues discovered have been documented and addressed, allowing further testing.
- 3. Documented Findings and Insights:
 - Observations, issues, and potential usability improvements have been recorded in a report or bug-tracking tool.





رواد مصر الرقمية Project Timeline

Task	Start Date	End Date	Duration	Responsible Team Member
Requirement Analysis	20, February 2025	21, February 2025	Day	TEAM 1
Test Planning	22 February 2025	25, February 2025	3 Days	TEAM 1
Test Case Design	26, February 2025	29, February 2025	3 Days	TEAM 1
Functional Testing	15, March 2025	22, March 2025	7 Days	TEAM 1
Regression Testing	1,April 2025	2,April 22025	Day	TEAM 1
Reporting & Documentation	3,April 2025	5,April 2025	2 Days	TEAM 1
Final Sign-off	6,April 2025	7,April 2025	Day	TEAM 1





Milestones

- 1. Project Kick-off (February 20, 2025)
- 2. Test Plan (February 22, 2025)
- 3. Test Case Completion (February 26, 2025)
- 4. Functional Testing Completion (March22, 2025)
- 5. Regression Testing Completion (April 2, 2025)
- 6. **QA Sign-off and Reporting** (April 7, 2025)

Risk Assessment & Mitigation

Risk Category	Potential Risk	Impact	Mitigation Strategy
Functional Bugs	Critical bugs in ticket	High	Perform thorough
	booking,payment		functional &
	processing		regression.testing
			before deployment
Compatibility Issues	Website or app not	Medium	Perform cross-
	working on some		browser and cross-
	devices/browsers		device testing
Third-Party Failures	Payment gateway	High	Implement retry
	(Fawry, Visa)		mechanisms and
	downtime		error handling
User.Experience	Confusing navigation	Medium	Conduct usability
Issues	or booking process		testing and gather
			user feedback





Problem Statement:

- 1. Travelers often face challenges in finding and booking bus tickets efficiently due to:
- 2. Lack of real-time information on bus availability and schedules.
- 3. Inconvenient payment options and unreliable booking systems.
- 4. Difficulty in managing bookings (e.g., cancellations, refunds).
- 5. Poor user experience on mobile devices or during peak traffic.

Key Performance Indicators

KPI	Metric	Target Value
Test Coverage	Percentage of test cases executed	95% or higher
Response Time	Average system response time	Less than 2 seconds
Regression Test Pass Rate	Percentage of passed test cases after code changes	90% or higher

Deliverables

- > Test Plan Document
- > Test Cases and Test Scenarios
- > Functional and Performance Test Reports
- > Defect Report
- > Final Test Execution Report





User Stories

Search for Buses:

As a traveler, I want to search for buses by entering my departure city, destination, and travel date so that I can find available buses.

Book a Ticket:

As a traveler, I want to select a bus, choose my seat, and book a ticket so that I can secure my travel plans.

View Booking Details:

As a traveler, I want to view my booking details (e.g., seat number, departure time) so that I can confirm my travel arrangements.

Cancel a Booking:

As a traveler, I want to cancel my booking so that I can get a refund if my plans change.

Payment Options:

As a traveler, I want to pay for my ticket using multiple payment methods (credit card, debit card, etc.) so that I can choose the most convenient option.

Track Bus Status:

As a traveler, I want to track the real-time status of my bus so that I can plan my journey accordingly.





Create an Account:

As a traveler, I want to create an account so that I can save my personal details and view my booking history.

Contact Customer Support:

As a traveler, I want to contact customer support so that I can resolve any issues with my booking.

Use Cases

Use Cases	Actor	Preconditions	Main Flow:	Postconditions
Use Case 1: Search for Buses	Traveler	The user is on the homepage.	1.The user enters the departure city, destination, and travel date. 2.The system validates the input and displays a list of available buses. 3.The user applies filters (bus type, departure time) to	The user views the details of the selected bus.



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			narrow down	
			the results.	
			4 The system	
			4.The system	
			updates the	
			list of buses	
			based on the	
			applied filters.	
			5.The user	
			selects a bus	
			to view its	
			details.	
			1.The user	
			selects a seat	
			from the	
			available	
		The user has	options.	The ticket is
Use Case 2:	Traveler	selected a bus		booked, and the
Book a		and is logged in	2.The system	user receives a
Ticket			displays the	confirmation.
			total fare and	
			prompts the	
			user to enter	
			passenger	
			details.	
			3.The user	
			enters	
			passenger	





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			details (name, age) and proceeds to payment.	
			4.The system displays available payment options.	
			5.The user selects a payment method and completes the payment.	
			6.The system generates a ticket and sends a confirmation email/SMS.	
Use Case 3: Cancel a Booking	Traveler	The user has a booked ticket and is logged in.	1.The user navigates to the "My Bookings" page. 2.The system	The booking is canceled, and the user receives a refund (if applicable).





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رواد مصر الرقمية	displays a list	
	displays a list	
	of the user's	
	bookings.	
	2 The user	
	3.The user	
	selects the	
	booking they	
	want to	
	cancel.	
	curicei.	
	4	
	4.The system	
	displays the	
	cancellation	
	policy and	
	refund	
	amount.	
	5.The user	
	confirms the	
	cancellation.	
	Cancenation.	
	6.The system	
	processes the	
	cancellation.	
	7.The user	
	receives a	
	cancellation	
	confirmation	
	email/SMS.	
	Citian, Sivis.	





Use Case 4: Track Bus Status	Traveler	The user has a booked ticket.	1.The user navigates to the "My Bookings" page. 2.The system displays a list of the user's bookings. 3.The user selects the	The user views the current status of their bus.
Contact Customer	Traveler	The user is on the website.	booking they want to track. 4.The system displays the real-time status of the bus (On Time, Delayed). 1.The user navigates to the "Contact	The user's query is submitted, and they receive a
Support			Us" page. 2.The system displays a form for the user to enter their	confirmation.





query. 3.The user enters their name, email, and query. 4.The user submits the form. 5.The system sends the query to customer support and displays a confirmation	رواد مصر الرقمية	
enters their name, email, and query. 4.The user submits the form. 5.The system sends the query to customer support and displays a		query.
submits the form. 5.The system sends the query to customer support and displays a		enters their name, email,
sends the query to customer support and displays a		submits the
support and displays a		sends the query to
message.		support and displays a confirmation

Scenarios

Scenario 1: Successful Booking

The user searches for buses, selects a bus, chooses a seat, completes the payment, and receives a confirmation.

Scenario 2: No Buses Available

The user searches for buses but finds no available buses for the selected route and date.





Scenario 3: Payment Failure

The user attempts to pay for a ticket, but the payment fails due to insufficient funds or network issues.

Scenario 4: Partial Refund on Cancellation

The user cancels a booking, and the system refunds a partial amount based on the cancellation policy.

Scenario 5: Bus Delayed

The user tracks their bus and finds that it is delayed by 30 minutes.

Functional Requirements

1. User Management

- Users can create an account by providing personal details (name, email, phone number, password).
- o Users can log in using their email and password.
- Users can reset their password by email
- o Users can update their profile information (name, contact details).

2. Bus Search and Booking

- Users can select for buses by entering departure city, destination, and travel date.
- o Users can filter search results by bus type, departure time, and price.
- Users can view detailed information about a bus (amenities(images), seat map).
- Users can select seats and book tickets for one or more passengers.
- Users can apply discount codes (promo).





3. Payment Processing

 Users can pay for tickets using multiple payment methods (credit card, Aman,pasata and fawry).

4. Booking Management

- Users can view their booking history and current bookings.
- Users can cancel a booking.

5. Notifications

 Users should receive email/SMS notifications for booking confirmation, payment success and cancellation.

Non-Functional Requirements

1. Usability

- The system should have a responsive design that works seamlessly on desktop.
- o The user interface should be easy to navigate, with clear instructions.
- The system should support multiple languages (EN) for international users.

2. Reliability

- The system should automatically recover from failures (server crashes) within 5 minutes.
- 4. **Compatibility**The system should be compatible with major browsers (Chrome, fire fox and Microsoft Edge).





Dependency

Features ID	Features Name	Priority	Dependent on	Execution Order	Notes
F_001	Login(User Authentication)	High	NA	1	Essential for secure access to services
F_002	Booking Cycle	High	F_001	2	Allows user to book tickets online; requires user Authentication
F_003	Seat Selection	High	F_002	3	Enables users to choose their perferred seats durind booking
F_004	Multi language support	Medium	none	4	provide a diverse user base by offering English language option
F_005	User Profile Management	Medium	F_001	5	Allowes users to manage personal information and view booking history
F_006	Go Bus Routes	High	none	6	Provides users with information on bus rotes .
F_007	Bus situation	Medium	None	7	user can check if a Go bus Stations at their location





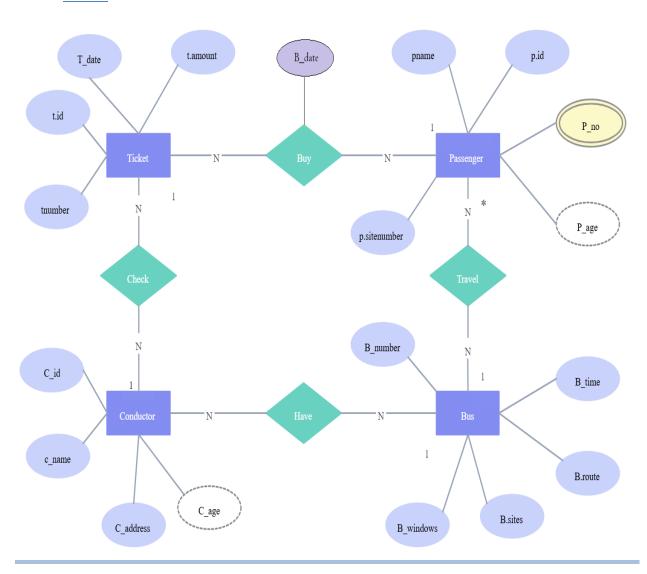
رواد مصر الرقمية					
					before making a reservation.
F_008	Header &Footer	Medium	All test cases in this feature don't depend on any other feature but "contact us" denpends on NA&F_002	8	 Contains: (Company) FAQ Terms Policy Contact us
F_009	Travel Destination	Medium	None	9	User can choose travel destination and book through it.
F_010	Customer Support chat	Low	None	10	Provides real_assistance to users; enhence user experience
F_011	Go Bus News	Low	None	11	All news about gobus
F_012	Report a bug	Low	None	12	If you discover a bug on the site, contact us to improve the user experience.





Design

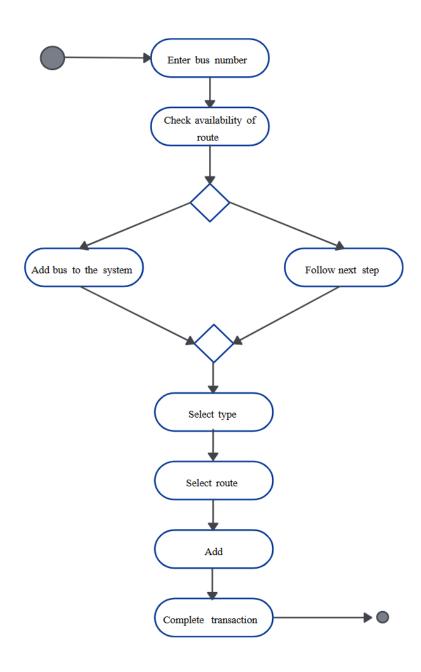
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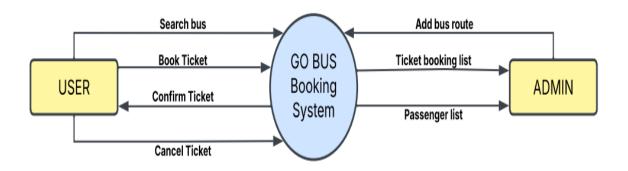
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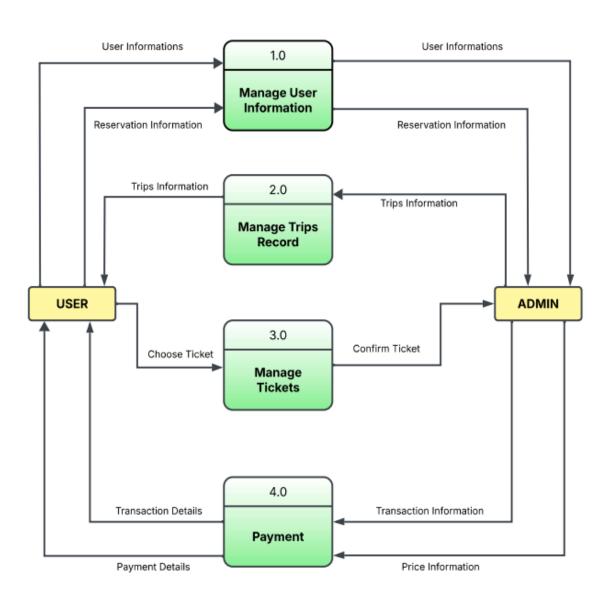






• DFD_1

GO BUS DFD LEVEL 1

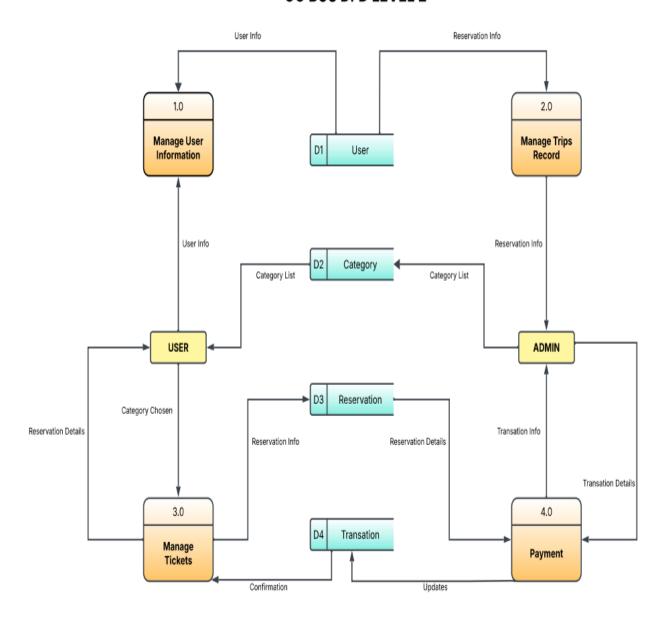






• DFD_2

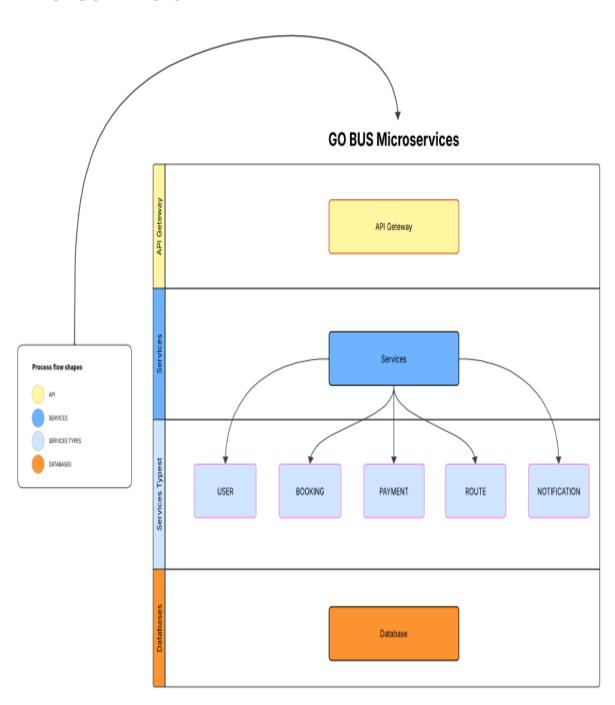
GO BUS DFD LEVEL 2







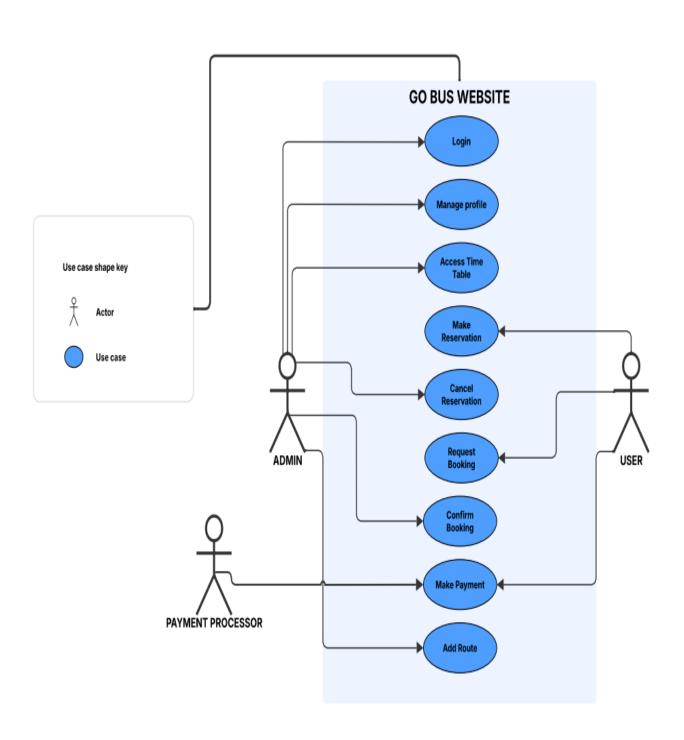
• MICROSERVICES







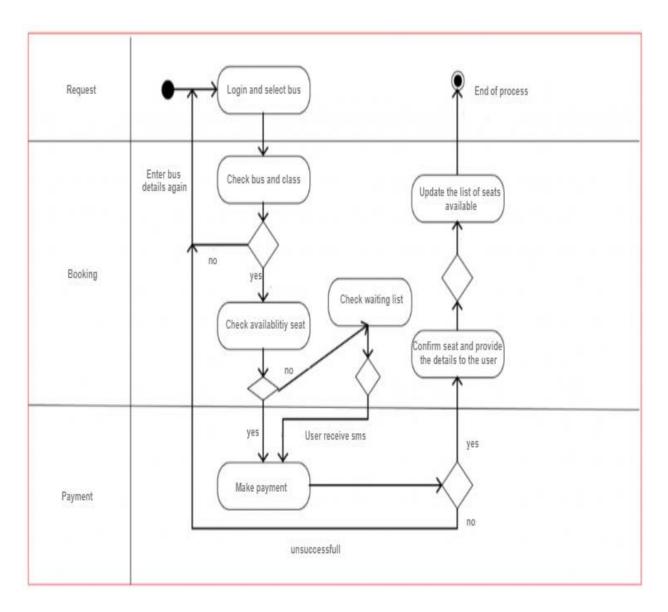
• USE_CASE







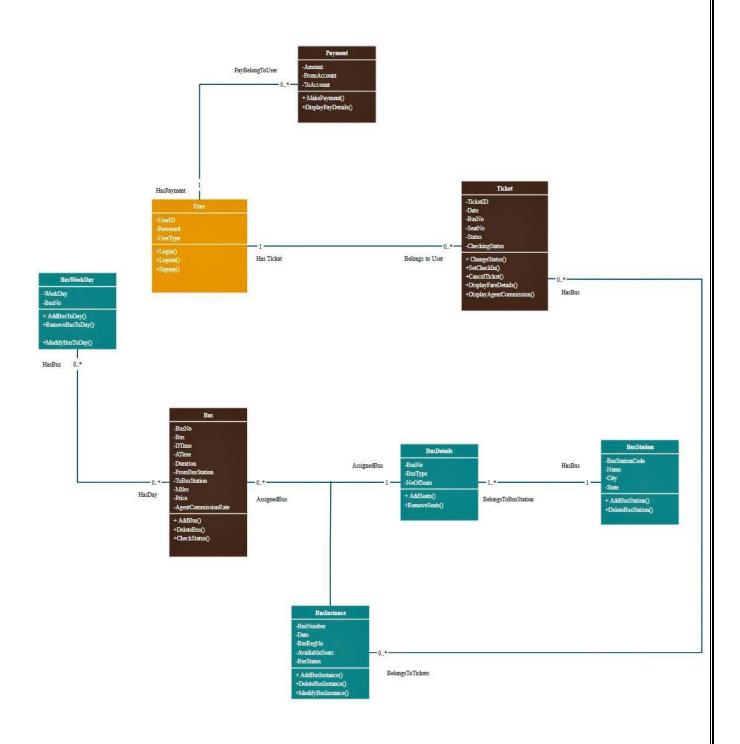
State







CLASS







Sequence

