

MYES Bus Ticketing System

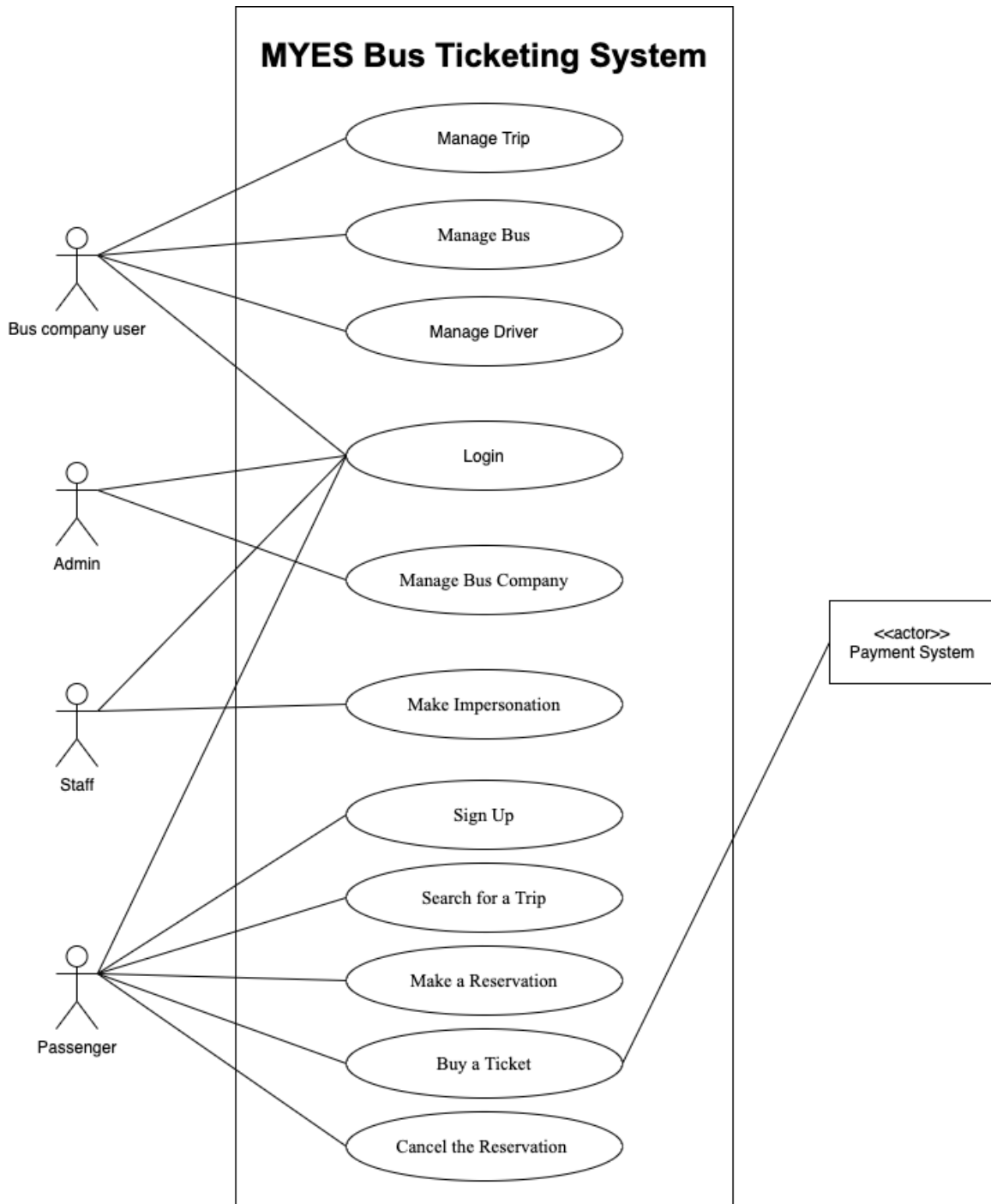


Use Case Specification

Revision History

Date	Author(s)	Description	Version
10/04/2021	Yiğit Erkal Eren Erol	Initial Version	v1.0

Use Case Diagram



Brief Descriptions

Use Case Number	Use Case Name	Actor	Brief Description
UC1	Login	Passenger, Bus company user, Admin, Staff	Passenger, Admin, Staff or Bus company users want to sign in. System requests sign in information. Users fill requested information. System approves and displays successful sign in messages.
UC2	Sign Up	Passenger	The Passenger wants to sign up as a user. System shows the sign up page. User fills information provided. System stores the information and displays a success message.
UC3	Manage Trip	Bus company user, Staff	Actor logs in to the system and wants to manage a trip. System shows the trip list of the company user. Company user selects a trip from the list and performs a CRUD operation.
UC4	Manage Bus	Bus company user, Staff	Actor logs in to the system and wants to manage buses in the system. System shows the bus list of the company user. Company user selects a bus from the list and performs a CRUD operation.
UC5	Manage Driver	Bus company user, Staff	Actor logs in to the system and wants to manage a driver. System shows the driver list of the company user. Company user selects a driver from the list and performs a CRUD operation.
UC6	Make	Staff	Staff logs in to the system and

	Impersonation		wants to manage the driver, manage a bus or manage a trip on behalf of the bus company user. Staff logs in to the system with required credentials. System displays a list of bus company users. Staff chooses one of them and performs required action. System displays a success message and redirects staff to the related page.
UC7	Manage Bus Company	Admin	Admin logs in to the system and wants to manage a bus company. System shows bus company list. Admin performs a CRUD operation.
UC8	Search for a Trip	Passenger	Passenger logs in to the system and wants to search for a trip. System display search screen. Passenger enters search criteria. System displays a list of the search results.
UC9	Make a reservation	Passenger	Passenger logs in to the system and wants to make a reservation. System displays the trip list. Passenger selects a trip. System displays the seat selection screen. Passenger selects an available seat and makes a reservation. System displays a successful reservation message.
UC10	Cancel the reservation	Passenger	Passenger logs in to the system and wants to cancel the reservation. System shows the reservation list of the user. Passenger selects a reservation and performs a cancel operation. System displays the success message for the cancellation of the reservation.

UC11	Buy a ticket	Passenger	Passenger logs in to the system and wants to buy a ticket. System displays a reserved trip. Passenger selects a reserved trip and performs the buy operation. System displays a success message.
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Fully-Dressed Descriptions

UC1: Login

Scope: MYES Bus Ticketing System

Level: User Goal

Primary Actor: Bus company user, Passenger, Staff, Admin

Pre-conditions: User has to be registered to the system previously and knows their credentials.

Post-conditions: User is logged in successfully to the system

Main Success Scenario:

1. User wants to login to the system
2. System presents a login form
3. User enters login credentials
4. System checks the user's credentials and shows a success message

Extensions:

4a System shows an error message and go to step 3

Frequency of Occurrence: could be nearly continuous

UC3: Manage Trip

Scope: MYES Bus Ticketing System

Level: User Goal

Primary Actor: Bus company user, Staff

Pre-conditions: User is logged in successfully to the system and authenticated with the privileges to manage trips.

Post-conditions: One or more trips are created/retrieved/updated/deleted.

Main Success Scenario:

1. User wants to manage trips
 2. System presents a list of company trips
 3. User may select a trip from the list
 4. System presents the details of the selected trip
- Step 3-4 repeated until user indicates it is done

Extensions

3a User wants to add a new trip

1. User provides the details of the new trip
2. System performs create operation and show successfully created message
 - 2a. There is a trip with the same details
 1. System displays a warning message

4a User wants to delete a trip

1. System asks for confirmation for delete operation
2. User confirms
3. System performs delete operation and shows success message for deletion

4b User wants to update a trip

1. User updates trip information
2. System validates the details and performs the update operation and shows success message for the update
 - 2a. System does not validate the details
 1. System displays the error message for the details

Frequency of Occurrence: could be nearly continuous

UC4: Manage Available Bus

Scope: MYES Bus Ticketing System

Level: User Goal

Primary Actor: Bus company user, Staff

Pre-conditions: User is logged in successfully to the system and authenticated with the privileges to manage busses.

Post-conditions: One or more buses are created/retrieved/updated/deleted

Main Success Scenario:

1. User wants to manage bus
 2. System presents a list of company buses
 3. User may select a bus from the list
 4. The system presents the details of the selected bus
- Step 3-4 repeated until user decides it is done

Extensions

3a User wants to add a new bus

1. User provides the details of the new bus
2. System performs create operation and show successfully created message
 - 2a. There is a bus with the same name
 1. System displays a warning message

4a User wants to delete a bus

1. System asks for confirmation for delete operation
- 2.. User confirms
3. System performs delete operation and show successfully deleted message

4b User wants to update a bus

1. User updates bus information.
2. System validates the details and performs the update operation and shows successfully updated message
 - 2a. System does not validate the details
 1. System displays the error message for the details

Frequency of Occurrence: Rarely

UC5: Manage Driver

Scope: MYES Bus Ticketing System

Level: User Goal

Primary Actor: Bus company user, Staff

Pre-conditions: User is logged in successfully to the system and authenticated with the privileges to manage drivers.

Post-conditions: One or more drivers are created/retrieved/updated/deleted.

Main Success Scenario:

1. User wants to manage drivers
 2. System presents a list of company drivers
 3. User may select a driver from the list
 4. System presents the details of the selected driver
- Step 3-4 repeated until user indicates it is done

Extensions:

3a User wants to add a new driver

1. User provides the details of the new driver
2. System performs create operation and show successfully created message
 - 2a. There is a driver with the same name
 1. System displays a warning message

4a User wants to delete a driver

1. System asks for confirmation for delete operation
2. User confirms
3. System performs the delete operation and show successfully deleted message

4b User wants to update a driver

1. User updates driver information.
2. System validates the details and performs the update operation and shows successfully updated message
 - 2a. System does not validate the details
 1. System displays the error message for the details

Frequency of Occurrence: Rarely