

Module: CSSE

Assignment 1

Group: 2021S2_REG_WE_37

Members

- | | |
|-----------------------|------------|
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Scenarios

1. Book tickets for passengers to get a transport system for a local and a foreign passengers.
Ticket booking
Fare calculation -Calculation of total cost for a journey per passenger depends on the distance travelled.
2. Plan time tables to prevent overcrowding of passengers in the transport by transport manager
3. Check tokens of the passengers in the bus - Check people without tickets or not scanned - ticket inspectors

Actors

1. Normal user
2. Foreign user
3. Bus driver
4. Transport manager
5. Ticket inspectors

Assumptions

1. All the passengers have smartphones in order to access the online transport system.
2. Bus doors will be opened when passengers present the token to the digital reader.
3. Passengers have to register into the system to get the token. System will create an account and initially passengers have to deposit an amount in order to start the bus journey. When the amount is insufficient the passenger can transfer a certain amount from the usual account via banking apps.
4. The token which will be provided to the foreign passenger is only valid for 7 days, and the local passengers can use the token by recharging (bank online payment or visiting the paying counter)
5. Paying counters are set up in every bus station.
6. Fare calculation is based on the starting and ending points. (a certain amount is assigned for one Kilometer, then the total distance travelled will be multiplied by that particular amount and the final amount is calculated). Money will be deducted from their account which they have already created and a notification will be sent during each reduction of the amount.
7. Refunds are not applicable when a certain journey is over.
8. The transport manager generates the time table by analysing the number of bookings available for the routes at a particular time. When there is more request by the customers then additional buses are allocated for the same route at the same time.

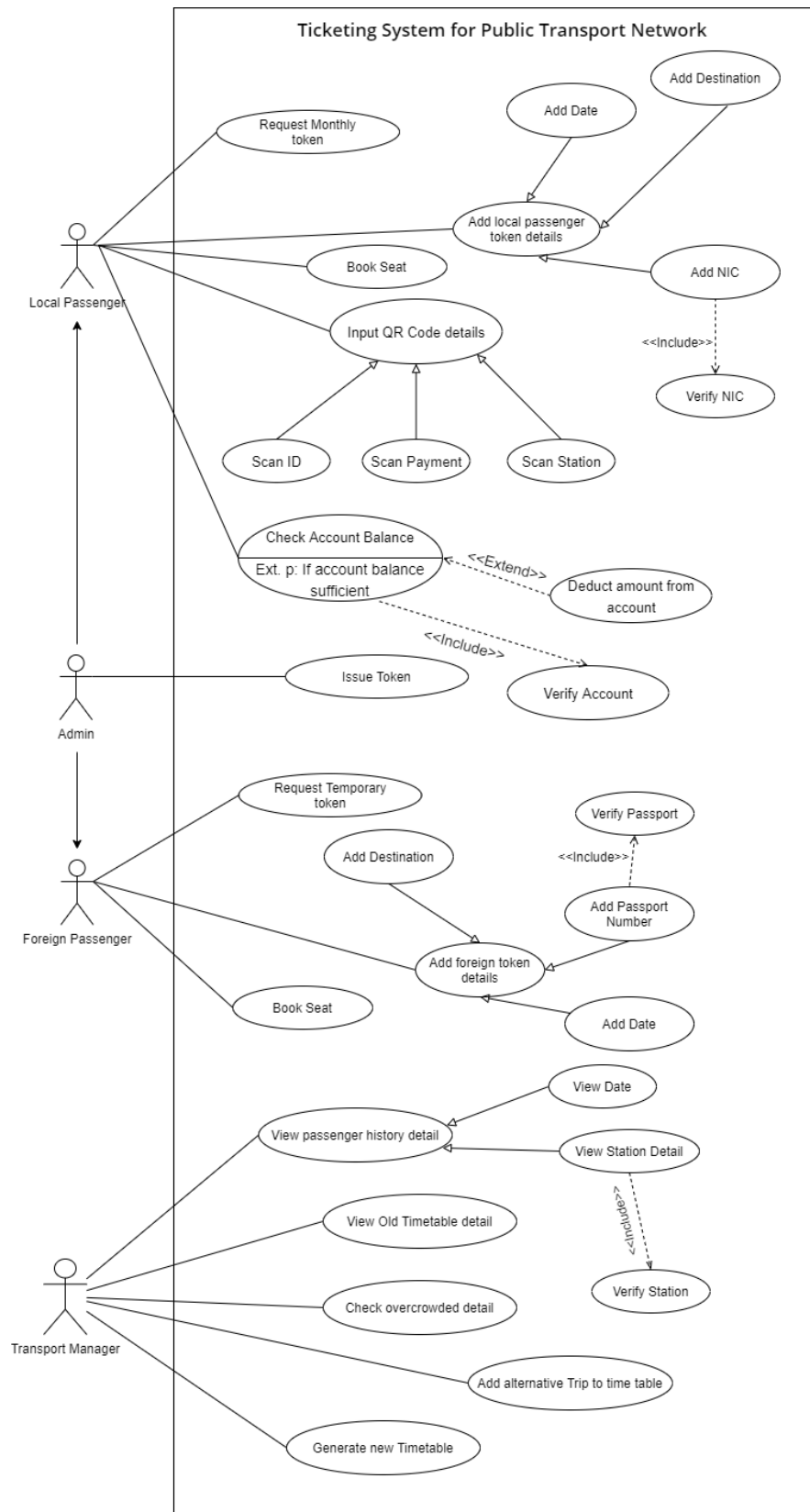
1.Use Case Diagrams

Scenario :

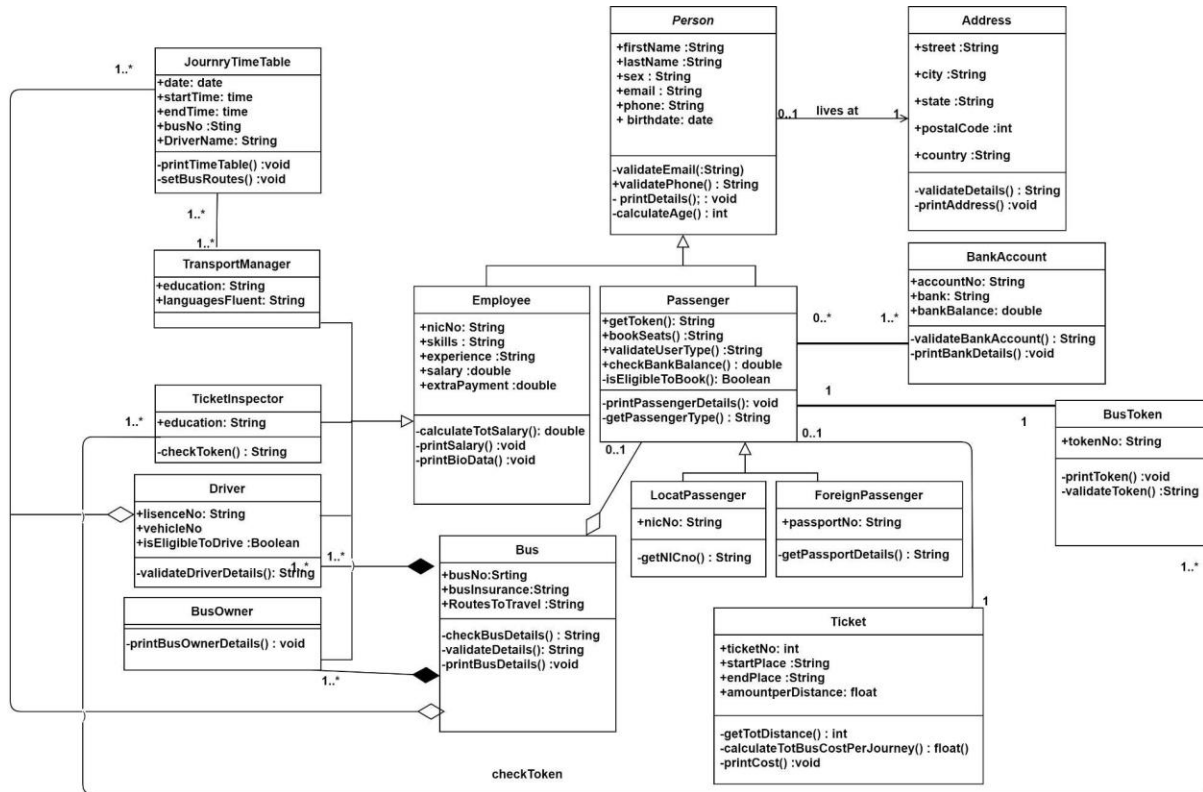
Book tickets for passengers to get a transport system for local and a foreign passengers.

Fare calculation for a journey

Plan time tables to prevent overcrowding of passengers in the transport by the transport manager.

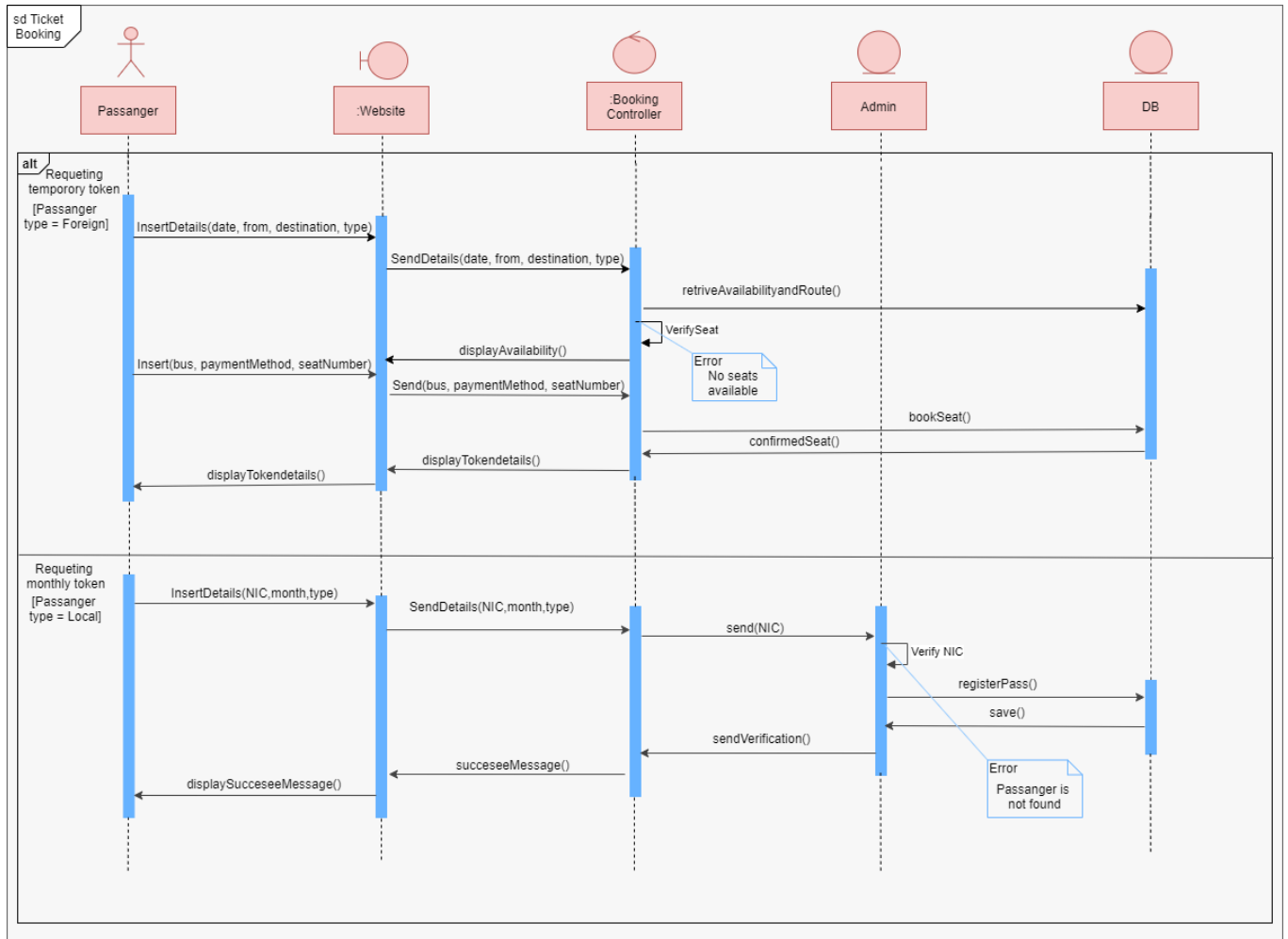


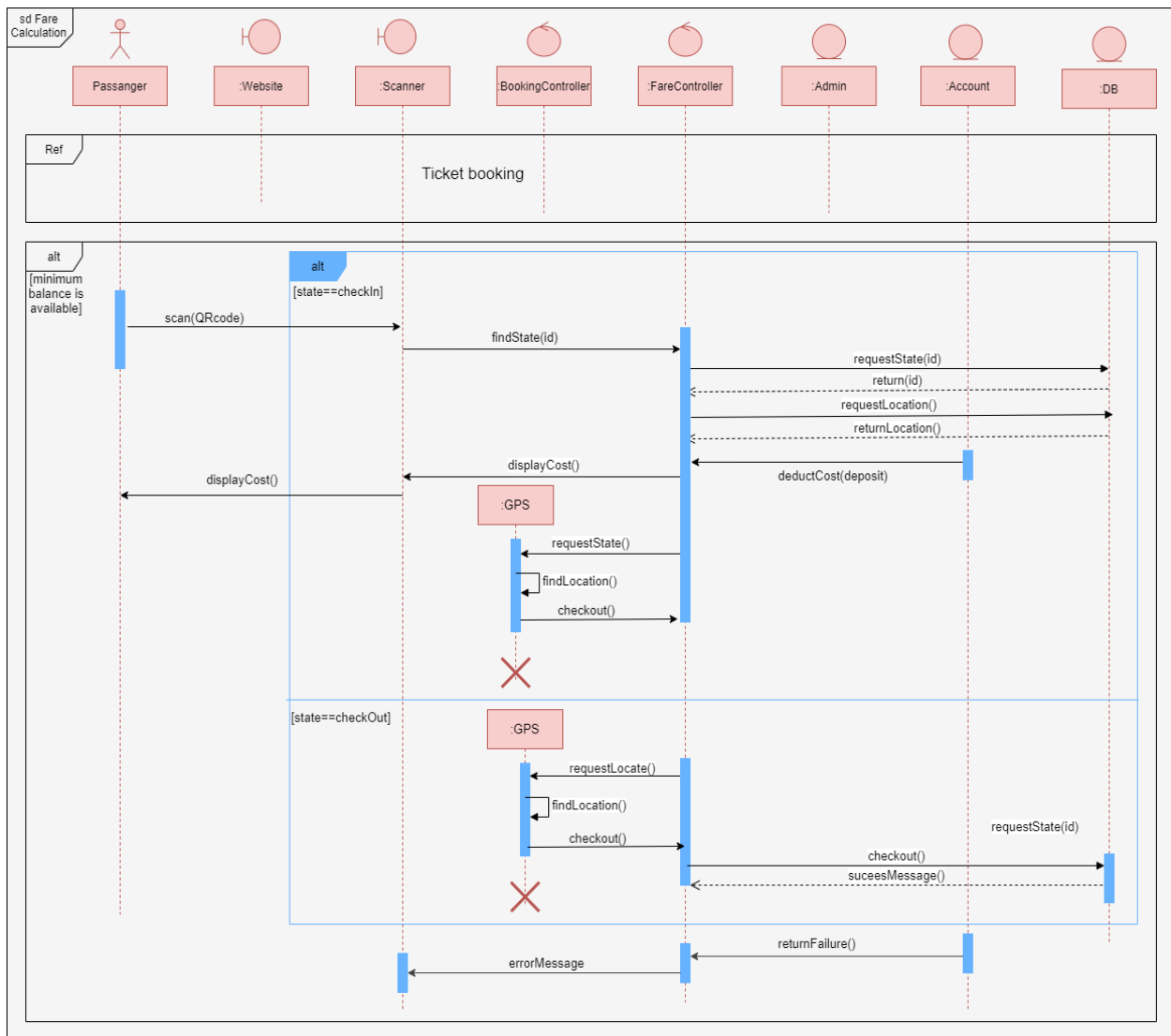
2.Class Diagram



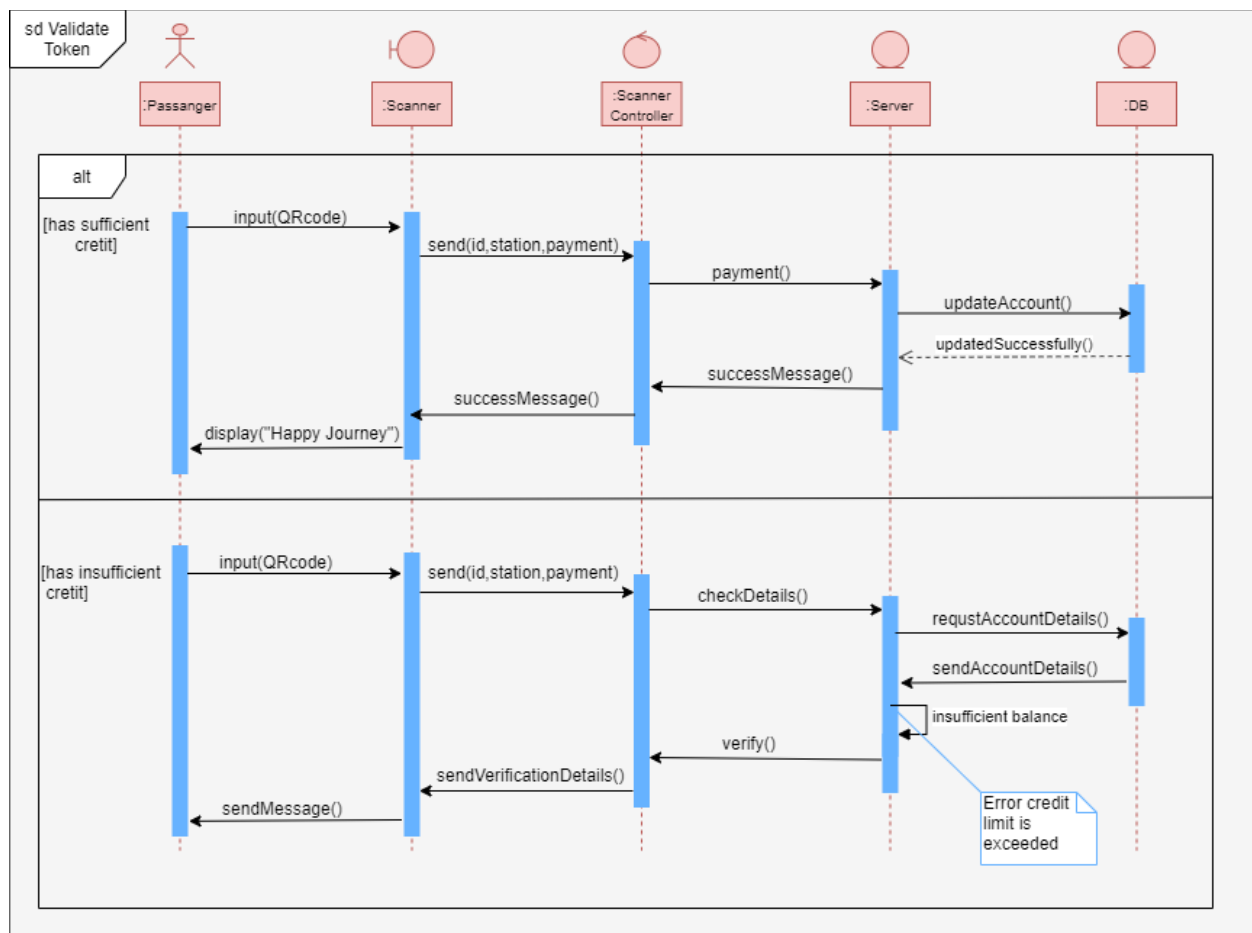
3.Sequence Diagram

3.a. Sequence diagram 1

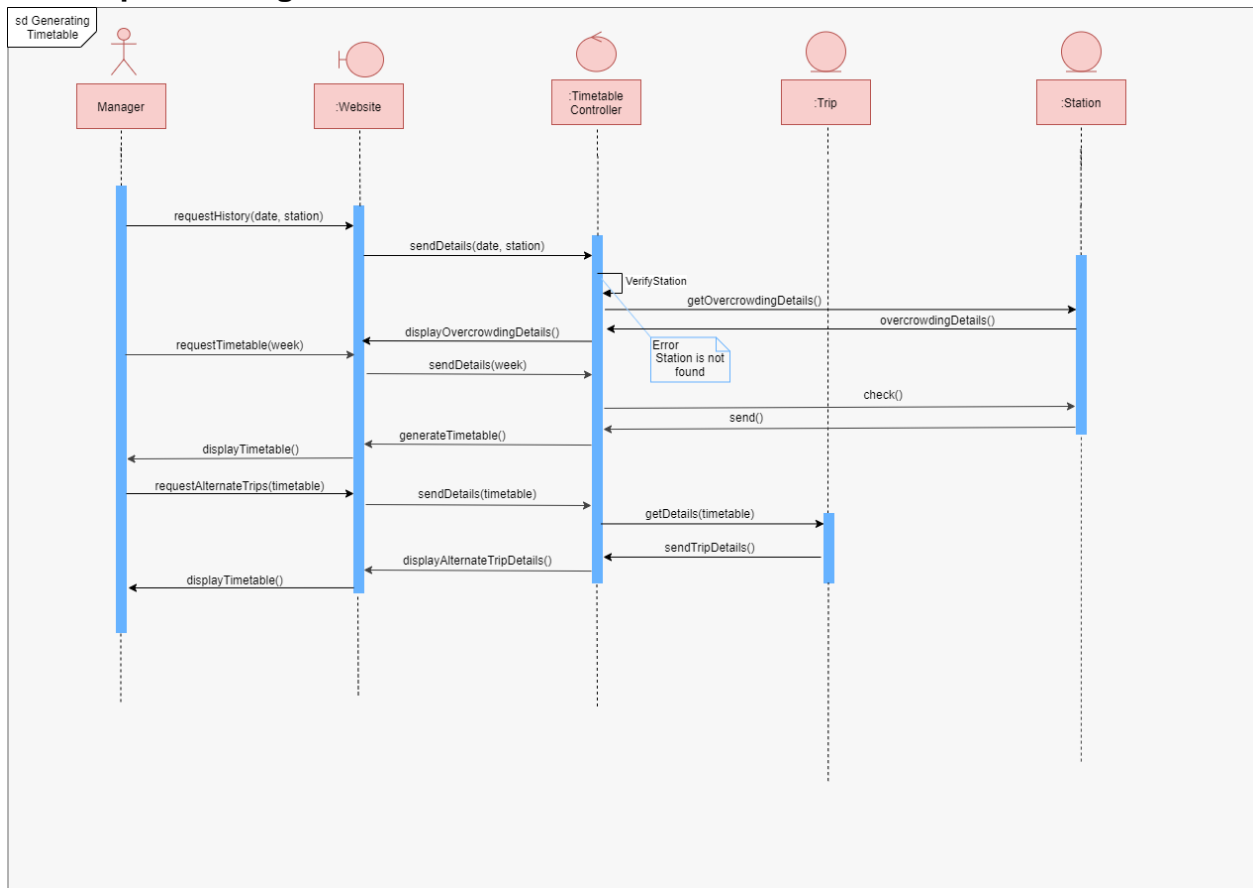




3.b. Sequence diagram 2



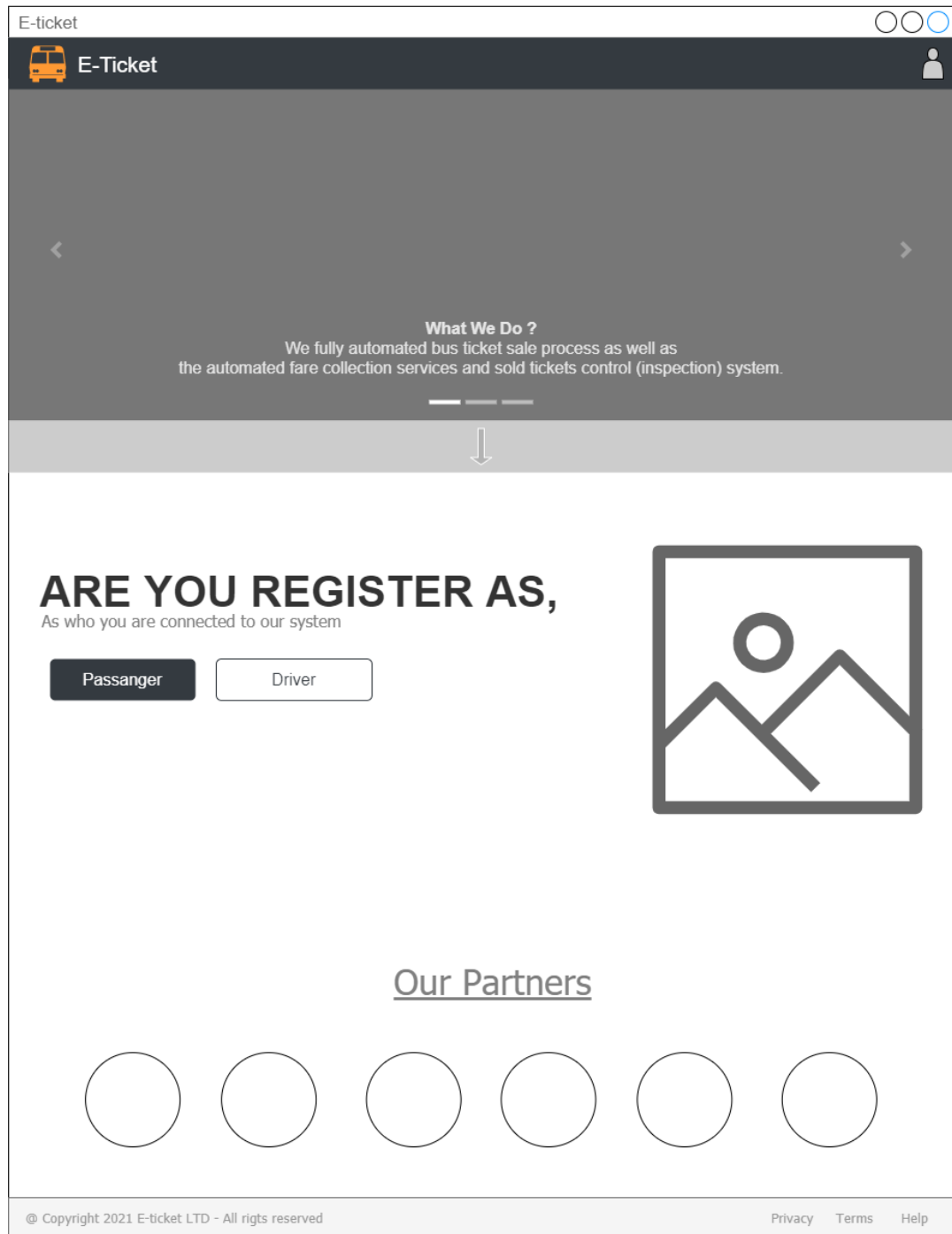
3.c. Sequence diagram 3



4.Wireframes


4.a. Web Application


Home Page



Login Page

E-ticket

 E-Ticket




Login Page

User Name

Password

Login

[Reset Password](#) [Registration](#)





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Registration Page

E-ticket

 E-Ticket



Registration

User Name *


Password *

Confirm Password *

Password Matching

Registration

[Login](#) [Reset Password](#)





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Reset Password Page

E-ticket

 E-Ticket



Reset Password

User Name *


Password *

Confirm Password *

Password Matching

Next


LoginRegistration




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Reset Password


Enter You Email *

Send Code

Passcode will be send within 40 seconds. Also it will be expire within 2 minites.

Passcode *

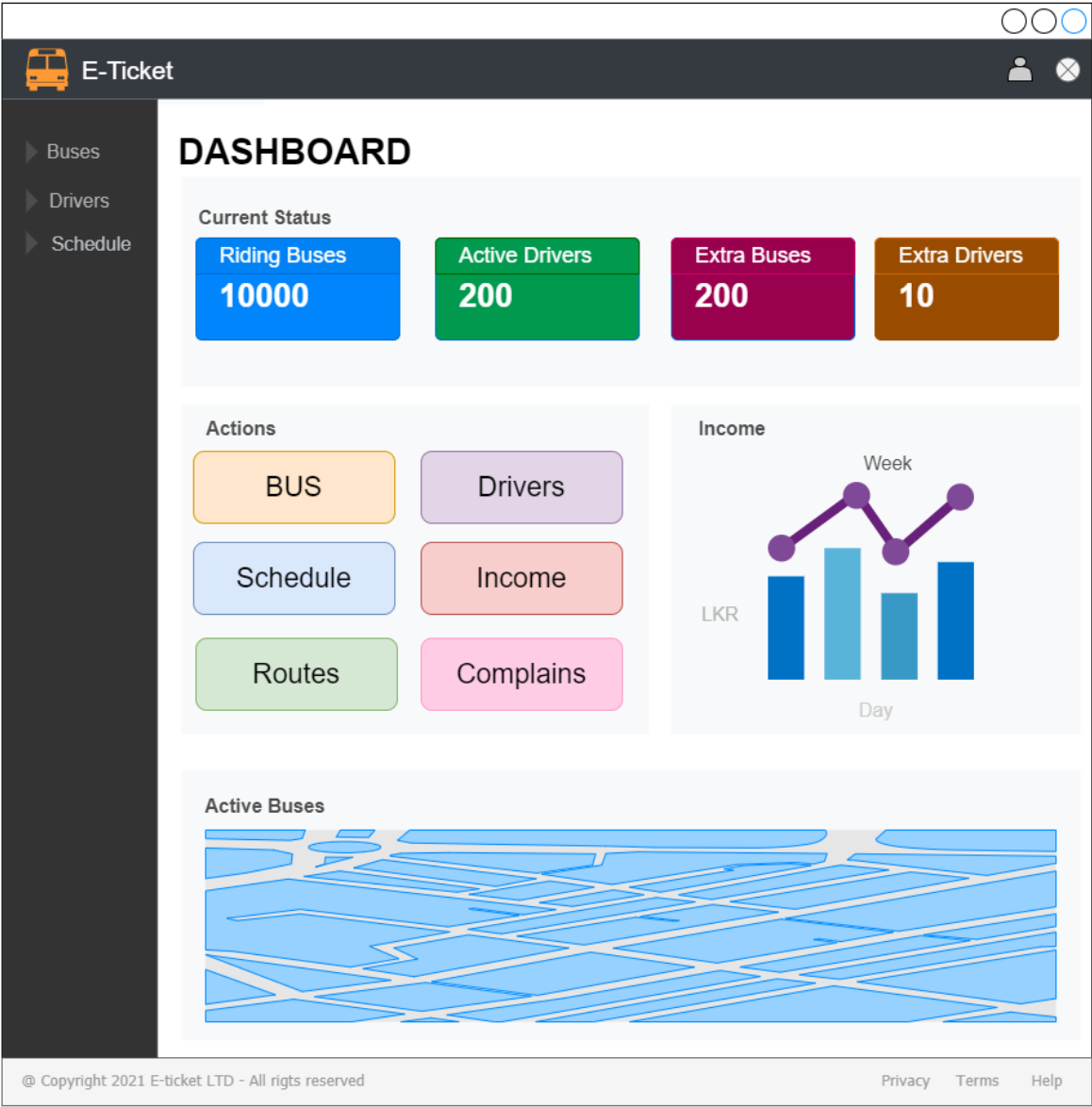
Reset Passowrd



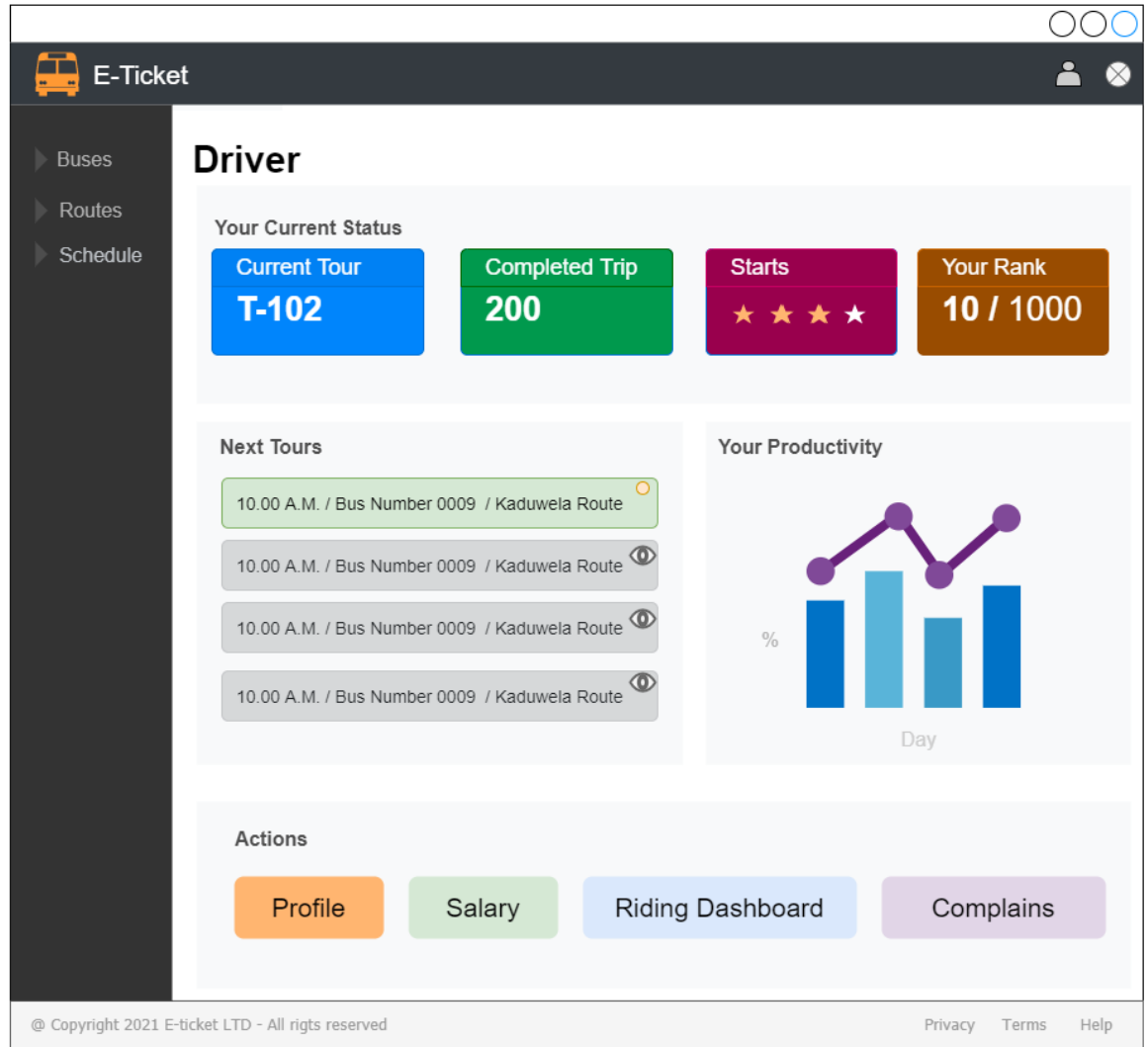
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Transport Manager Dashboard Page



Bus Driver Dashboard Page



4.b. Mobile Application

Loading Page



View Payment Page

The image shows a mobile application interface for viewing payment details. The app is displayed on a smartphone with a light gray bezel. The screen has a teal header with the word "PAYMENTS" in white. Below the header is a white card with a "Print" link in the top right corner. The card contains several input fields with labels and values: "Your Name" with the value "M.M.A.D.Nadun Sandeepa", "Route" with the value "Kandy - Colombo", "Start Time" with the value "10.00 A.M", "End Time" with the value "11.00 A.M", and "Total Price" with the value "LKR.100.00". At the bottom of the card is a teal "Pay" button. The smartphone's status bar at the top shows a signal strength indicator, a battery level indicator, and the time 10:10. The home indicator bar at the bottom is visible.

PAYMENTS

[Print](#)

Your Name
M.M.A.D.Nadun Sandeepa

Route
Kandy - Colombo

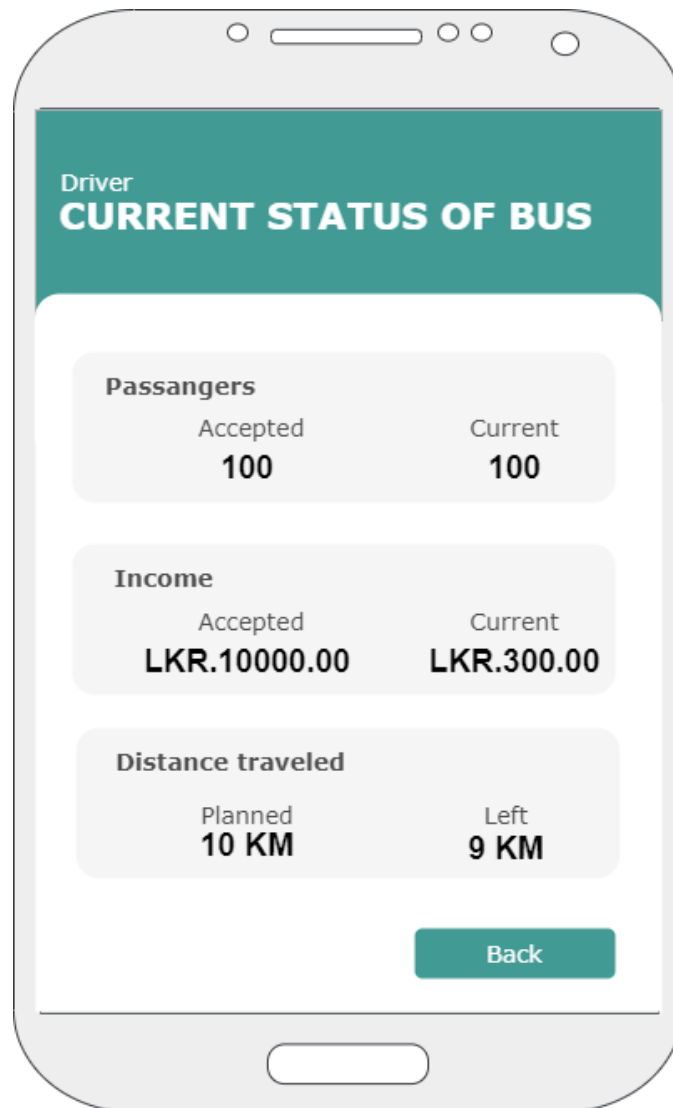
Start Time
10.00 A.M

End Time
11.00 A.M

Total Price
LKR.100.00

[Pay](#)

Tour Summary For Driver



Passenger Wallet

Passanger
YOUR WALLET

LRK. **20000.00**

Last Transaction : 2021.10.09 23.00 p.m

History

LRK.200.00

Lkr. 300.00

Lkr. 300.00

Lkr. 300.00

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Contributions

No	Members	Contributions
1.	M.M.A.N.N.Sandeepa IT19245584	1.Assumptions 2.Sequence Diagram 3.Class Diagram 4.UseCase Diagram 5.WireFrames
2.	Praveena.T IT19243672	1.Assumptions 2.Sequence Diagram 3.Class Diagram 4.UseCase Diagram 5.WireFrames
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