

Car Pool LUMS

Software Engineering Course Project

Project Design Specification Document



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Department of Computer Science

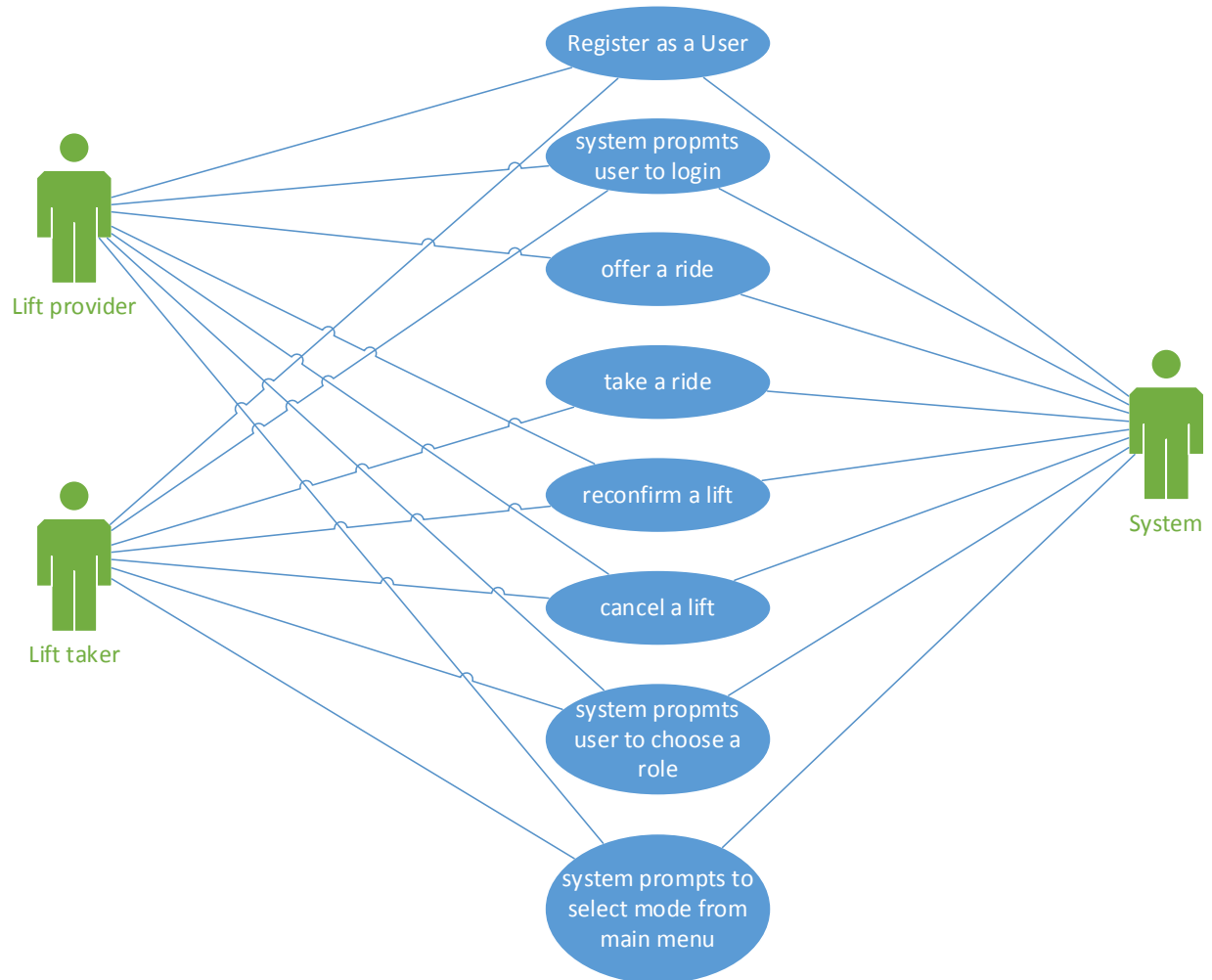
LahoreUniversity of Management Sciences

Lahore

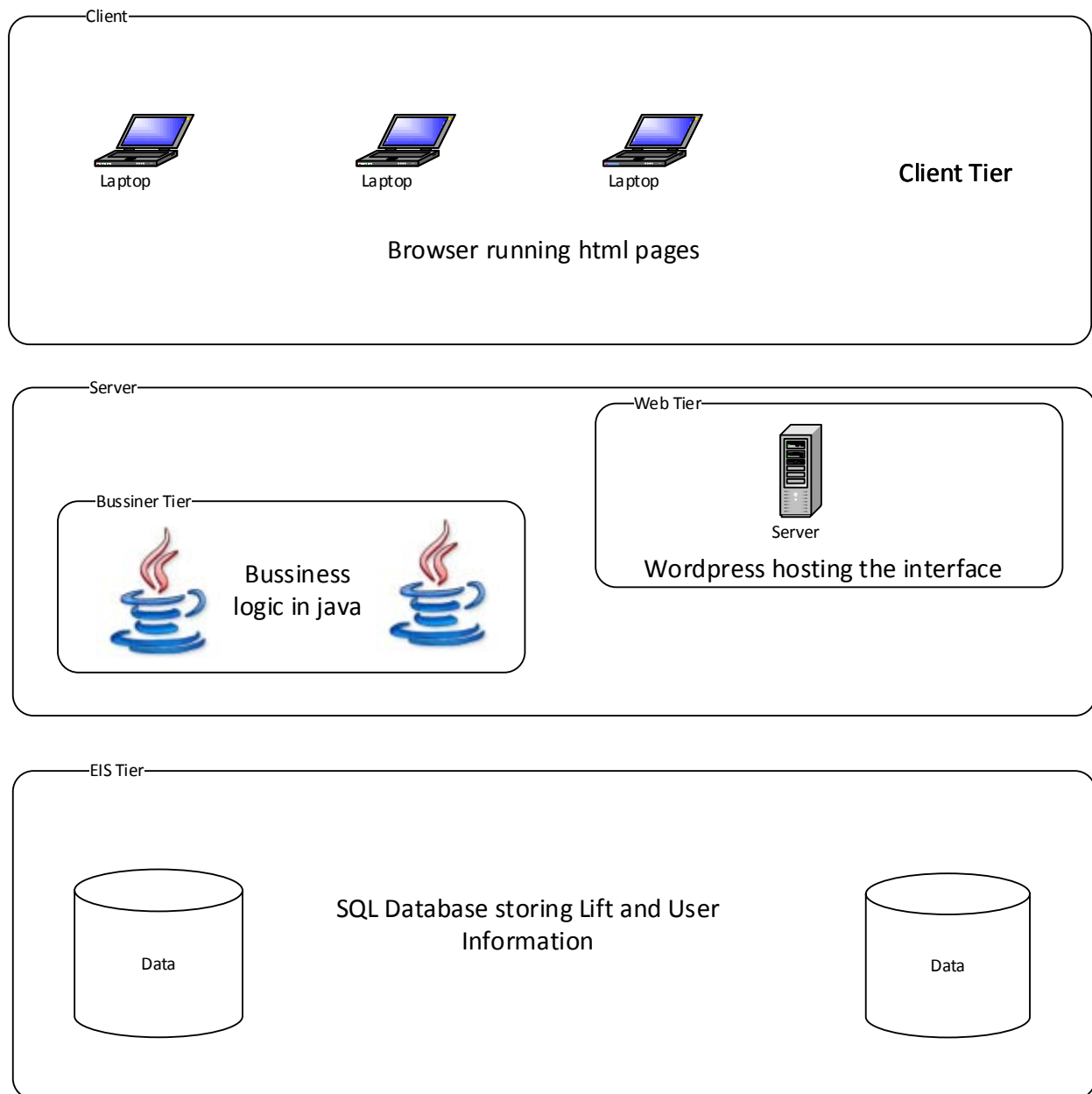
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Project Design Specification Document

Use Case Diagram

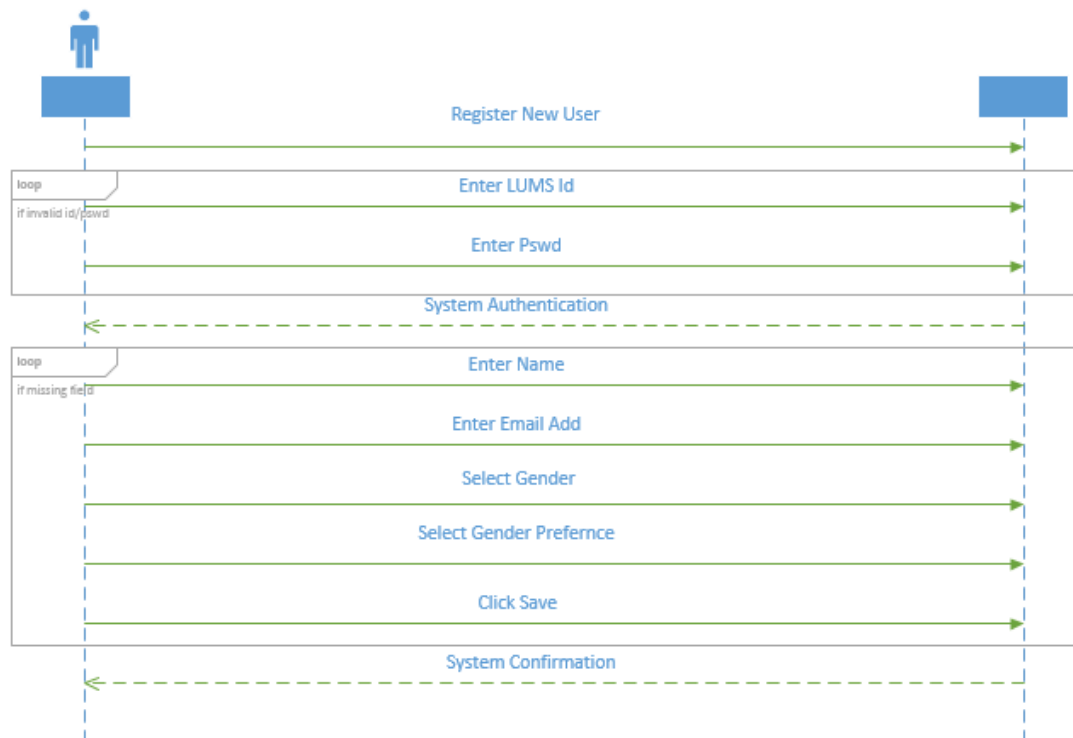


System Architecture

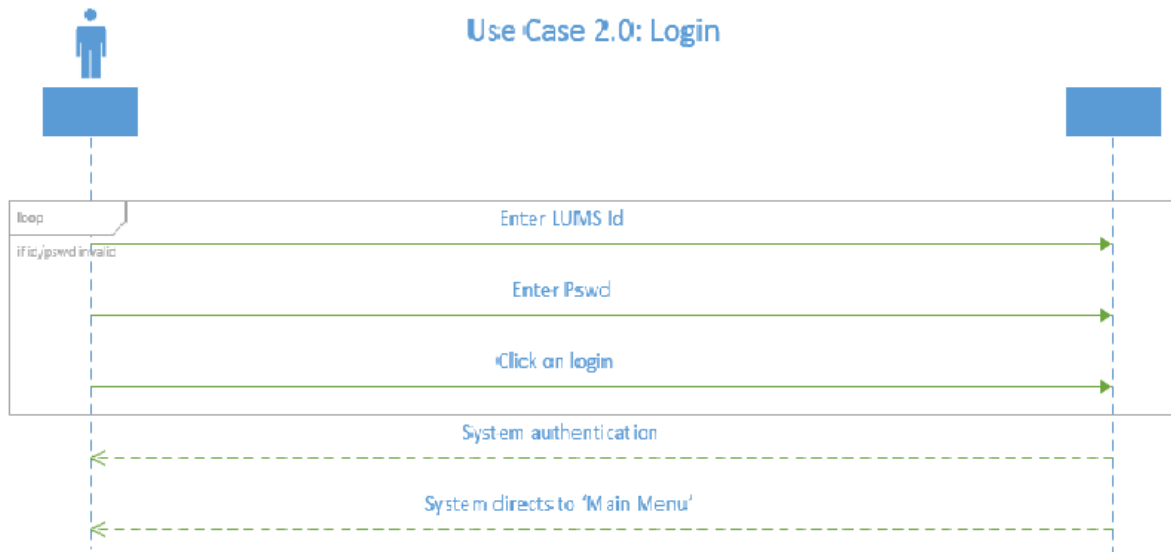


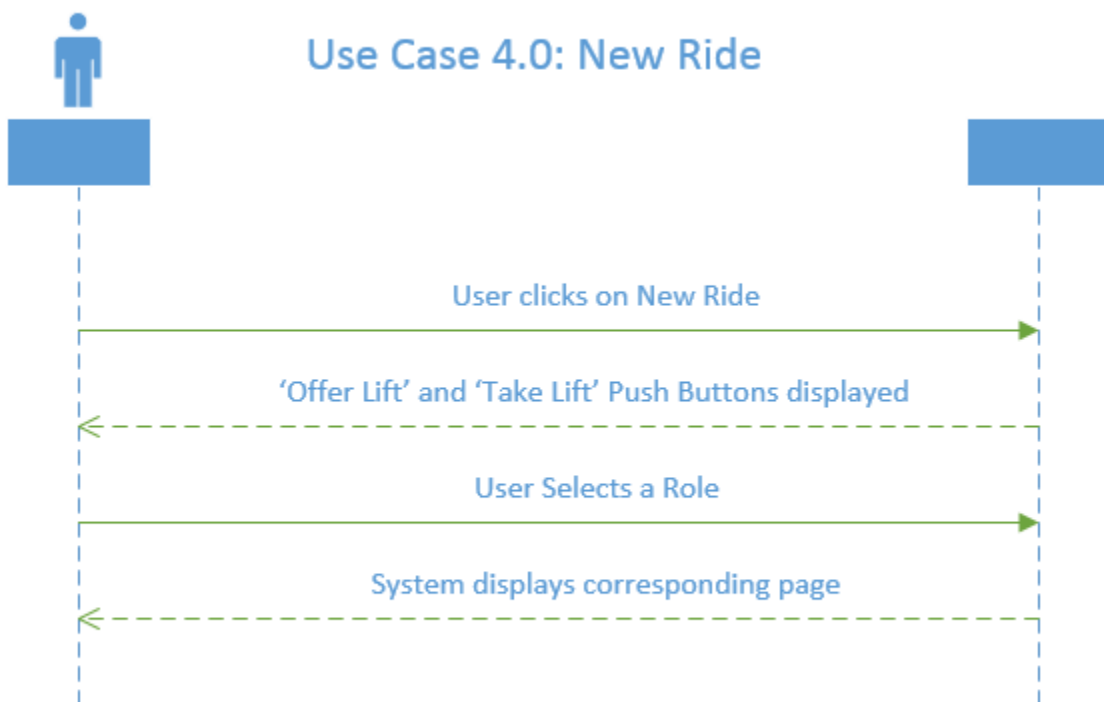
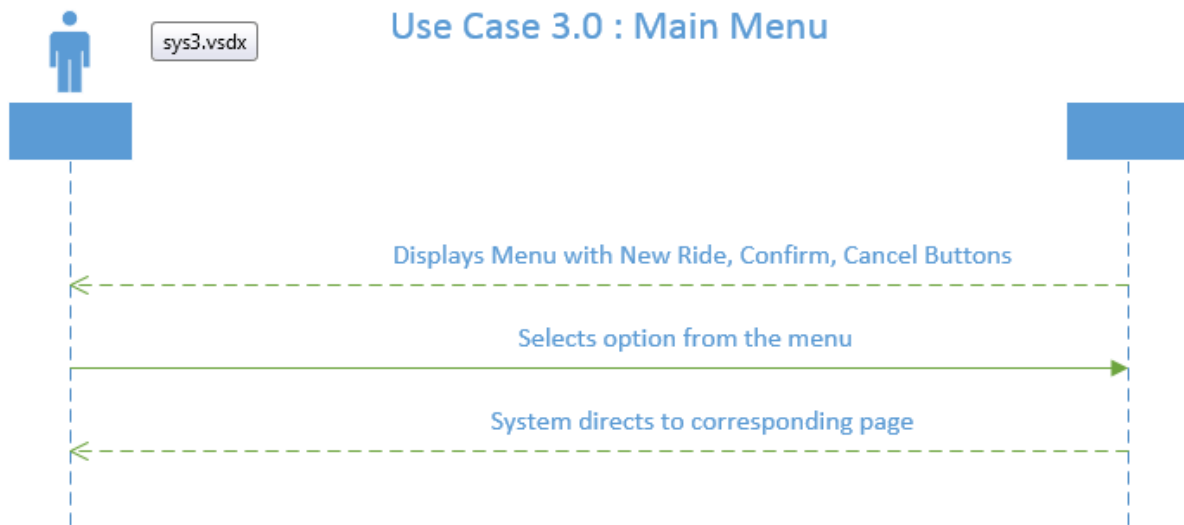
System Sequence Diagrams

Use Case 1.0: Register User



Use Case 2.0: Login





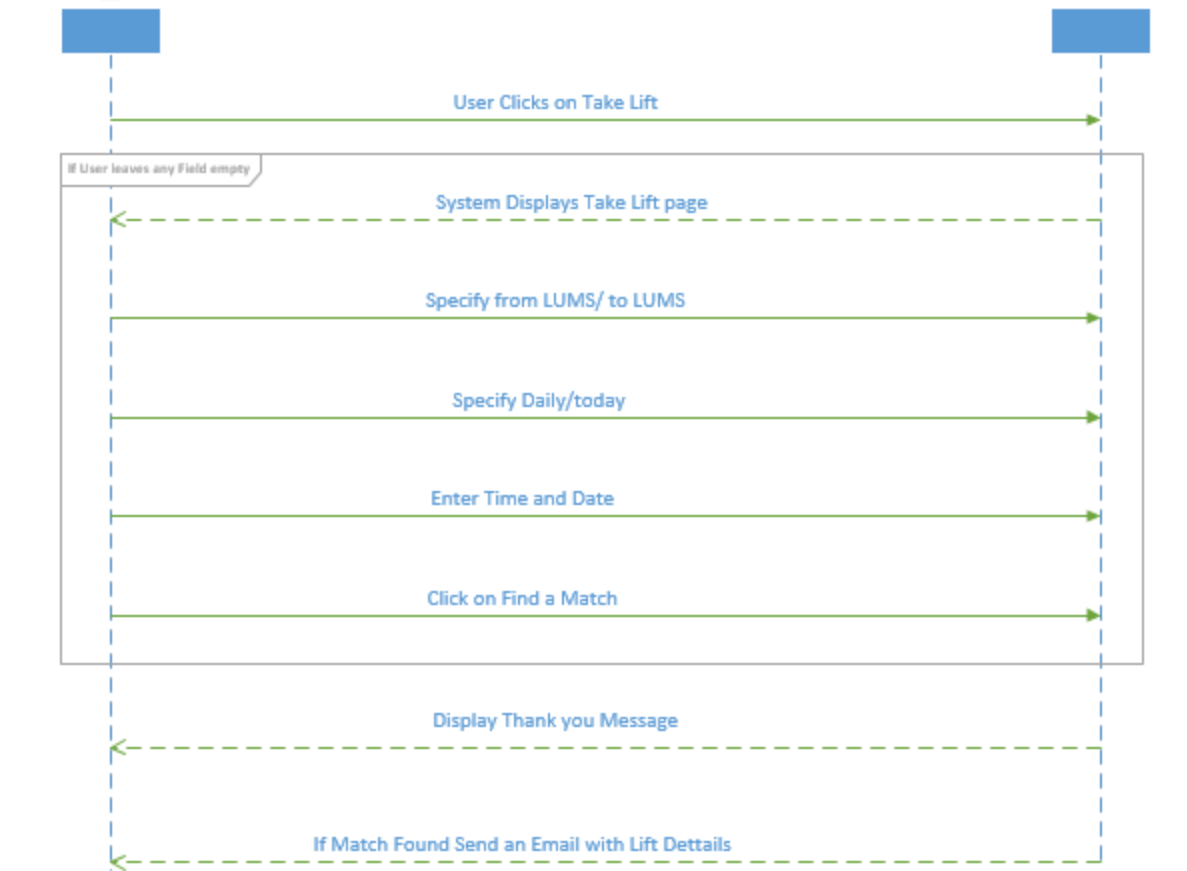


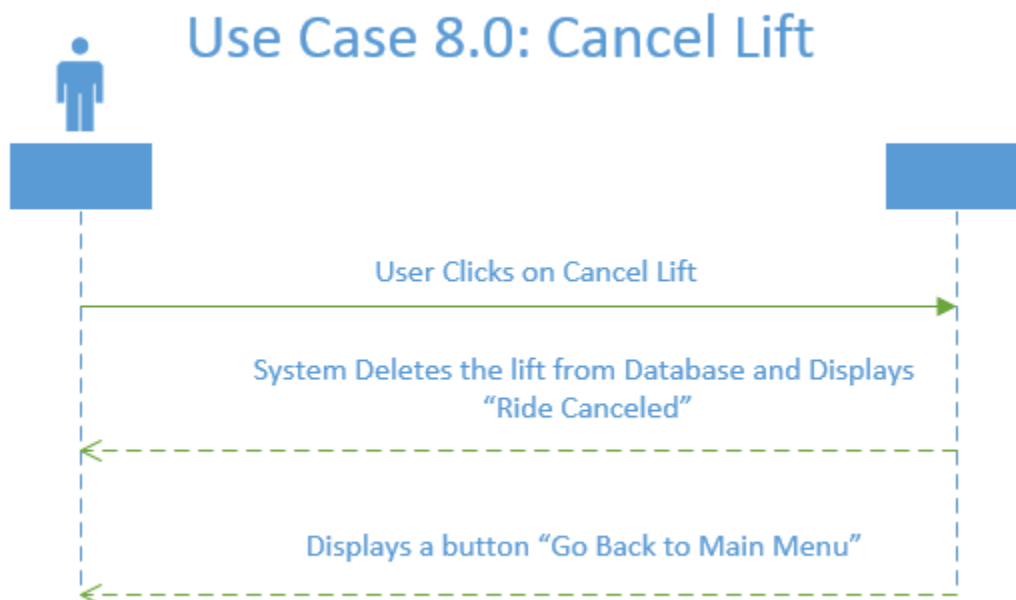
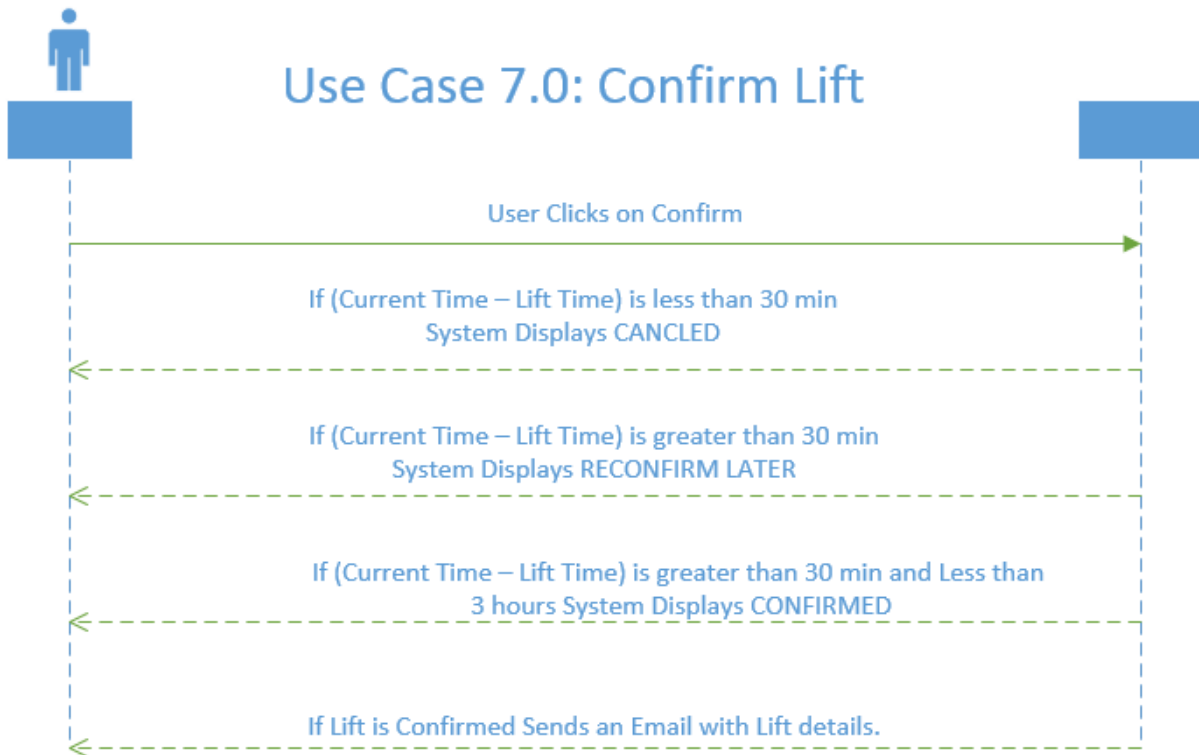
Use Case 5.0: Offer Lift





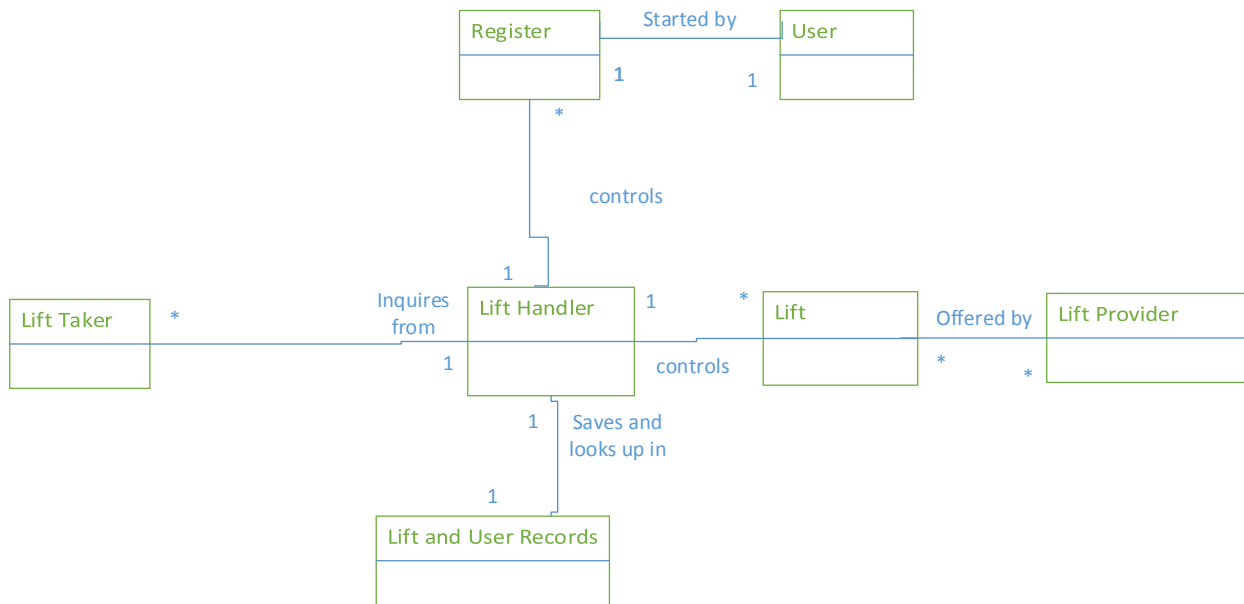
Use Case 6.0: Take Lift





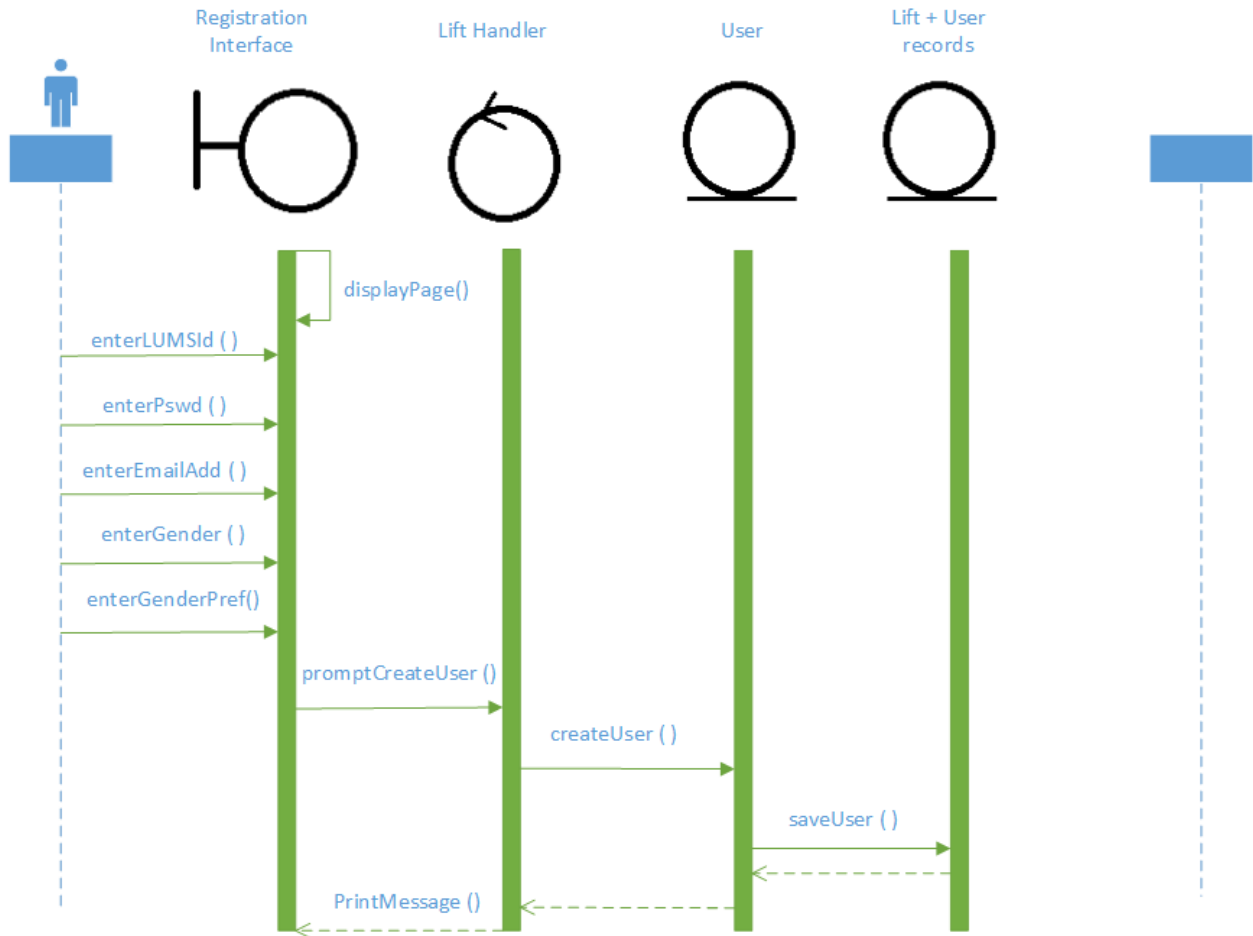
Domain model

It should model the real world conceptual classes.

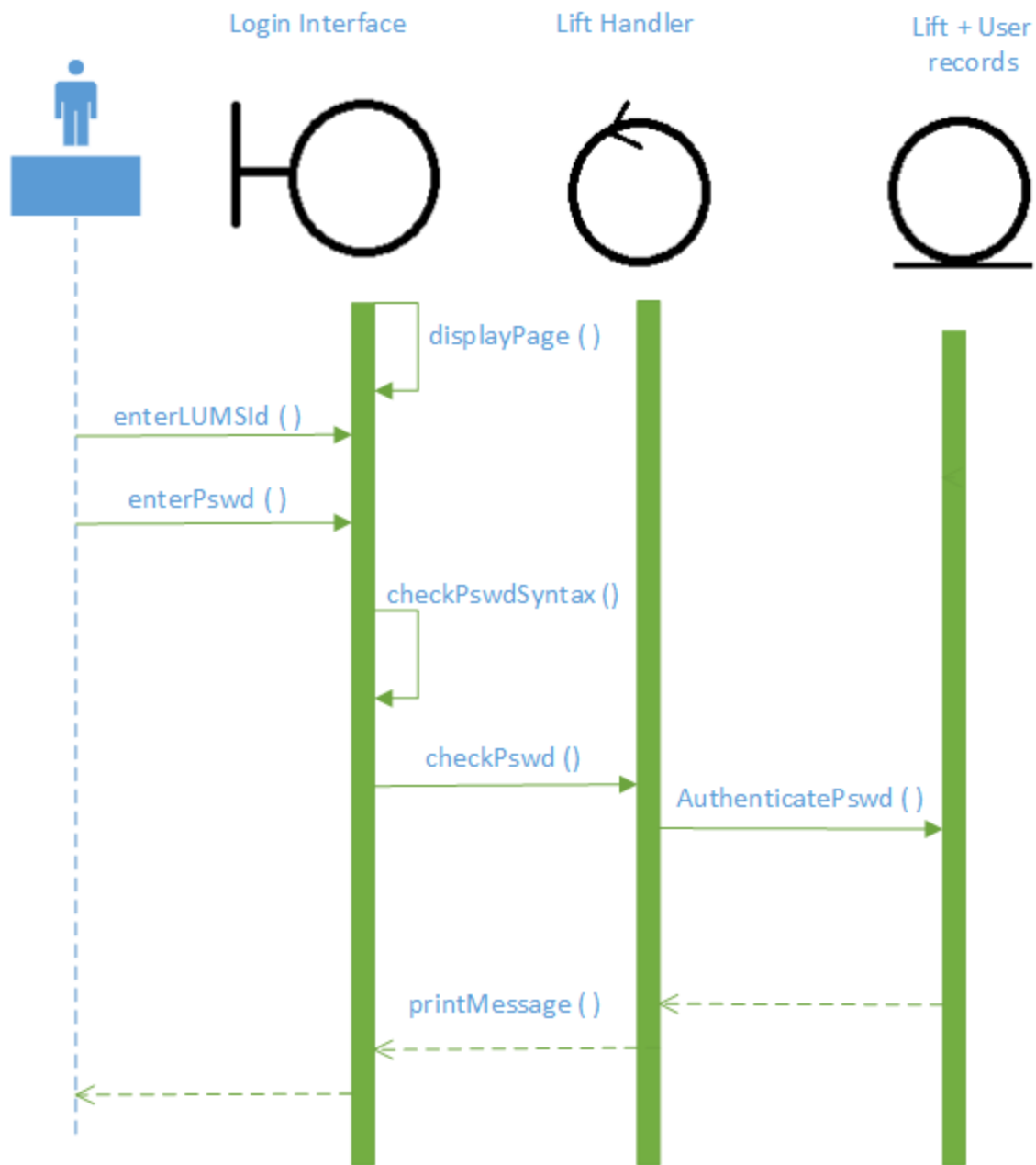


Sequence diagrams

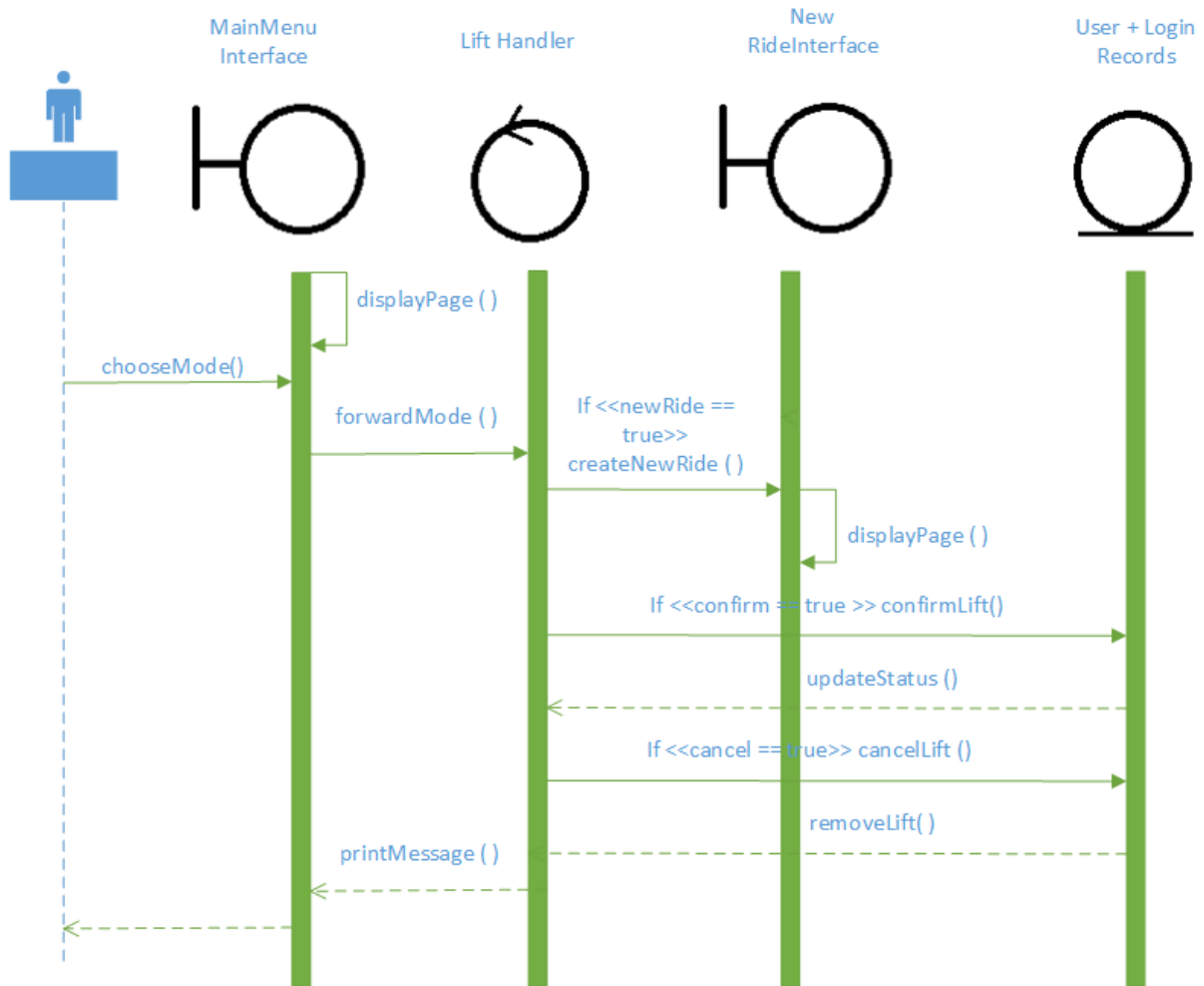
1. Registration



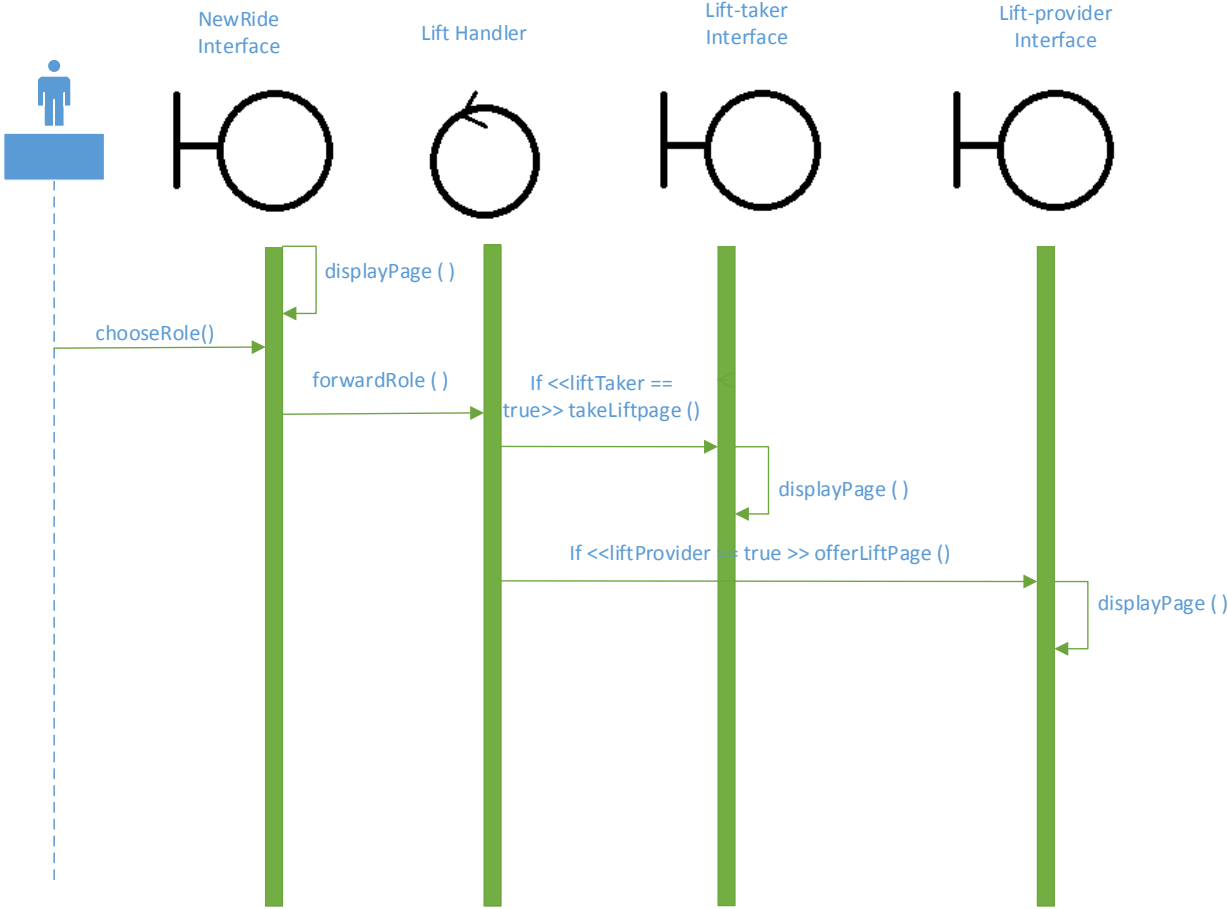
Use Case 2.0 : Login



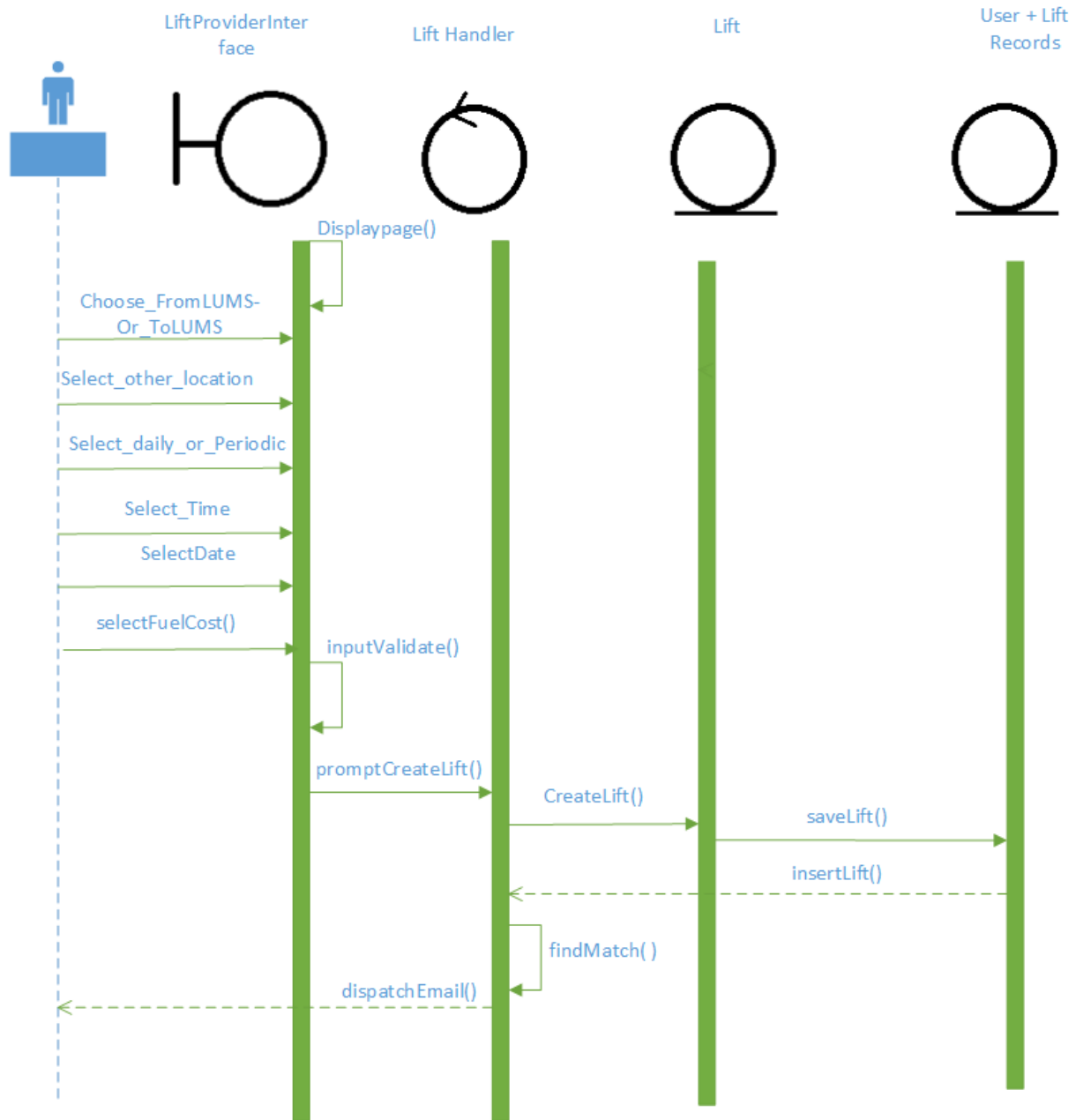
Use Case 3.0 : Select from Main Menu



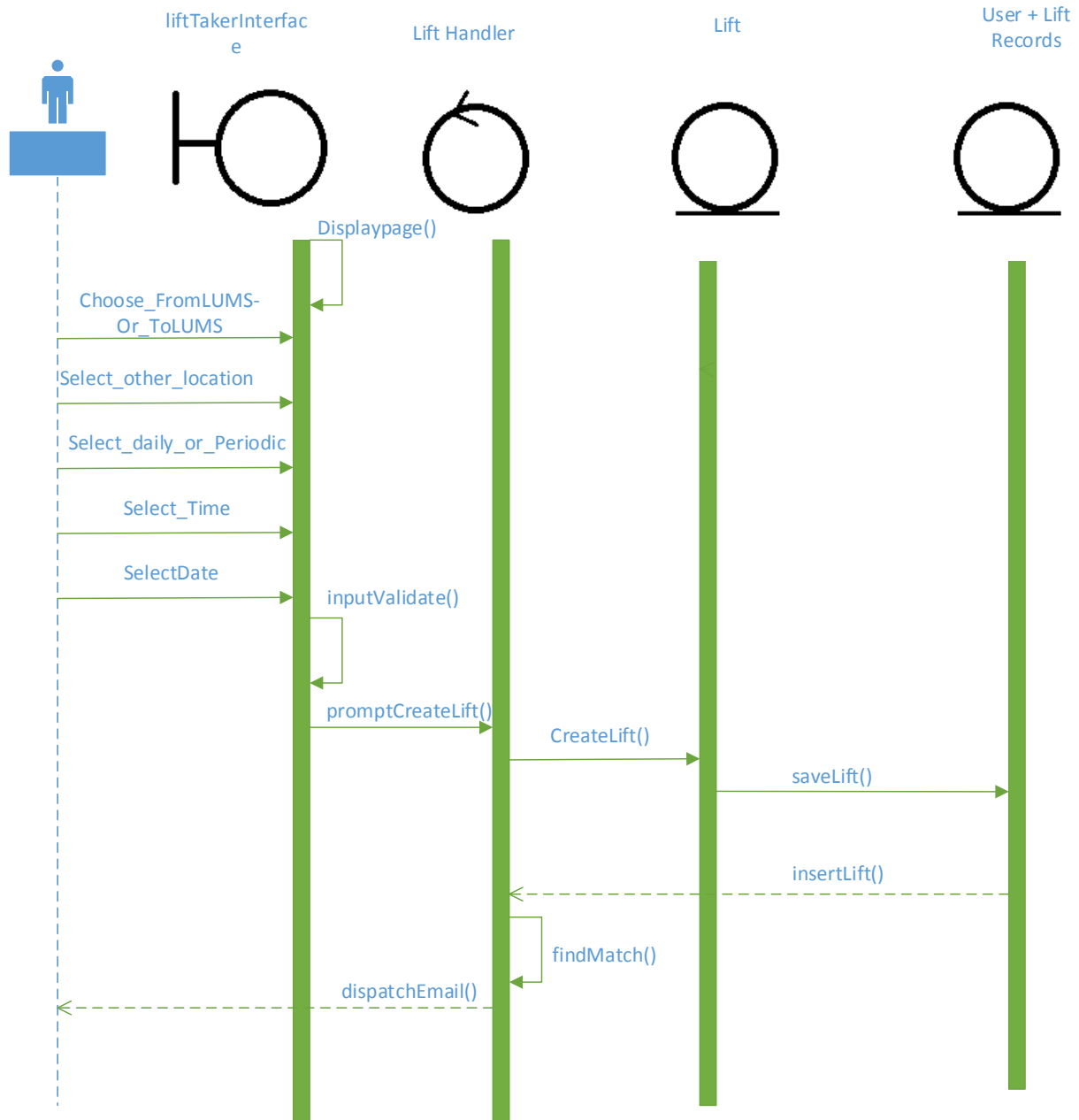
Use Case 4.0 :New Ride



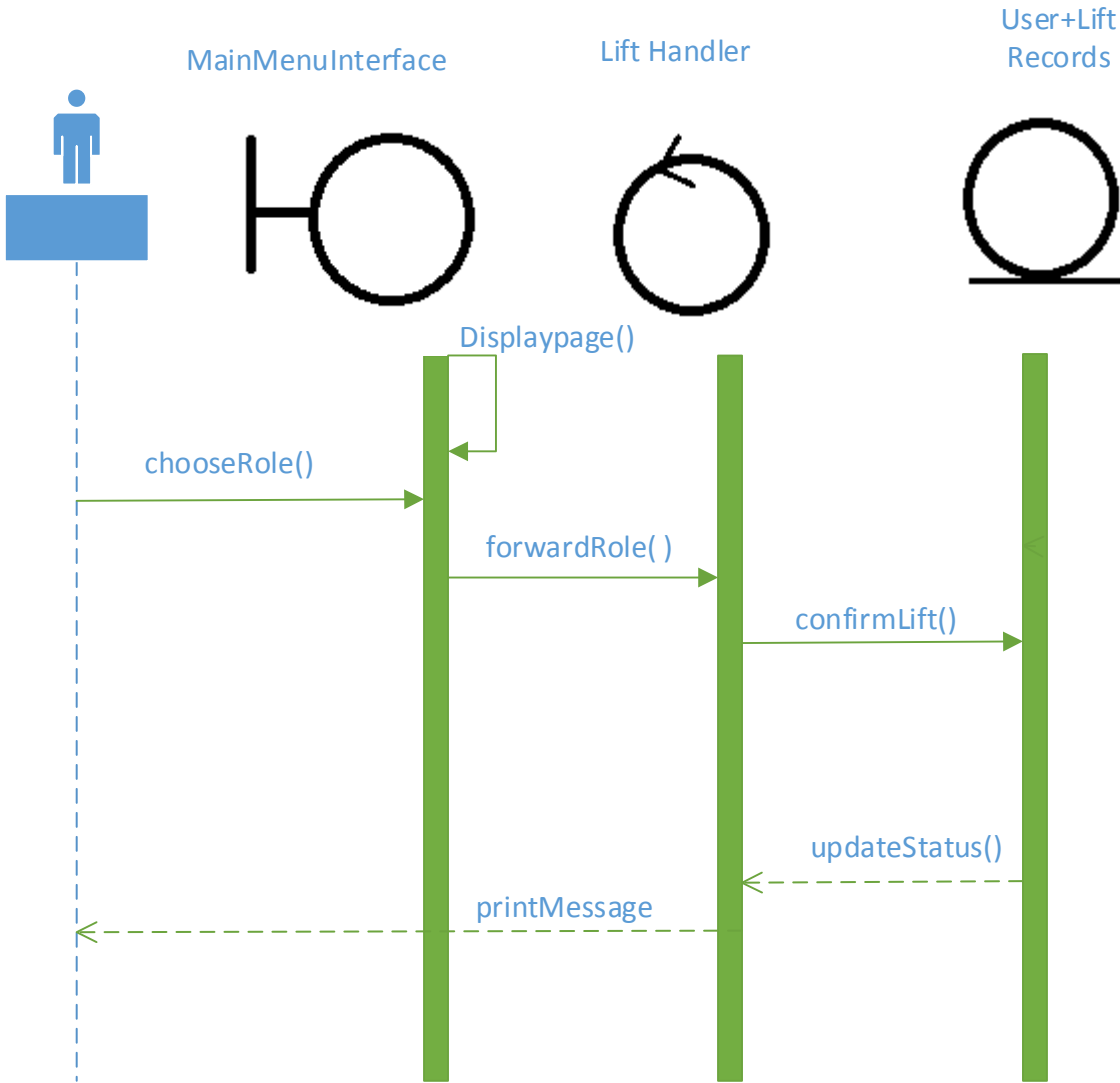
Use Case 5.0 :Offer a Lift



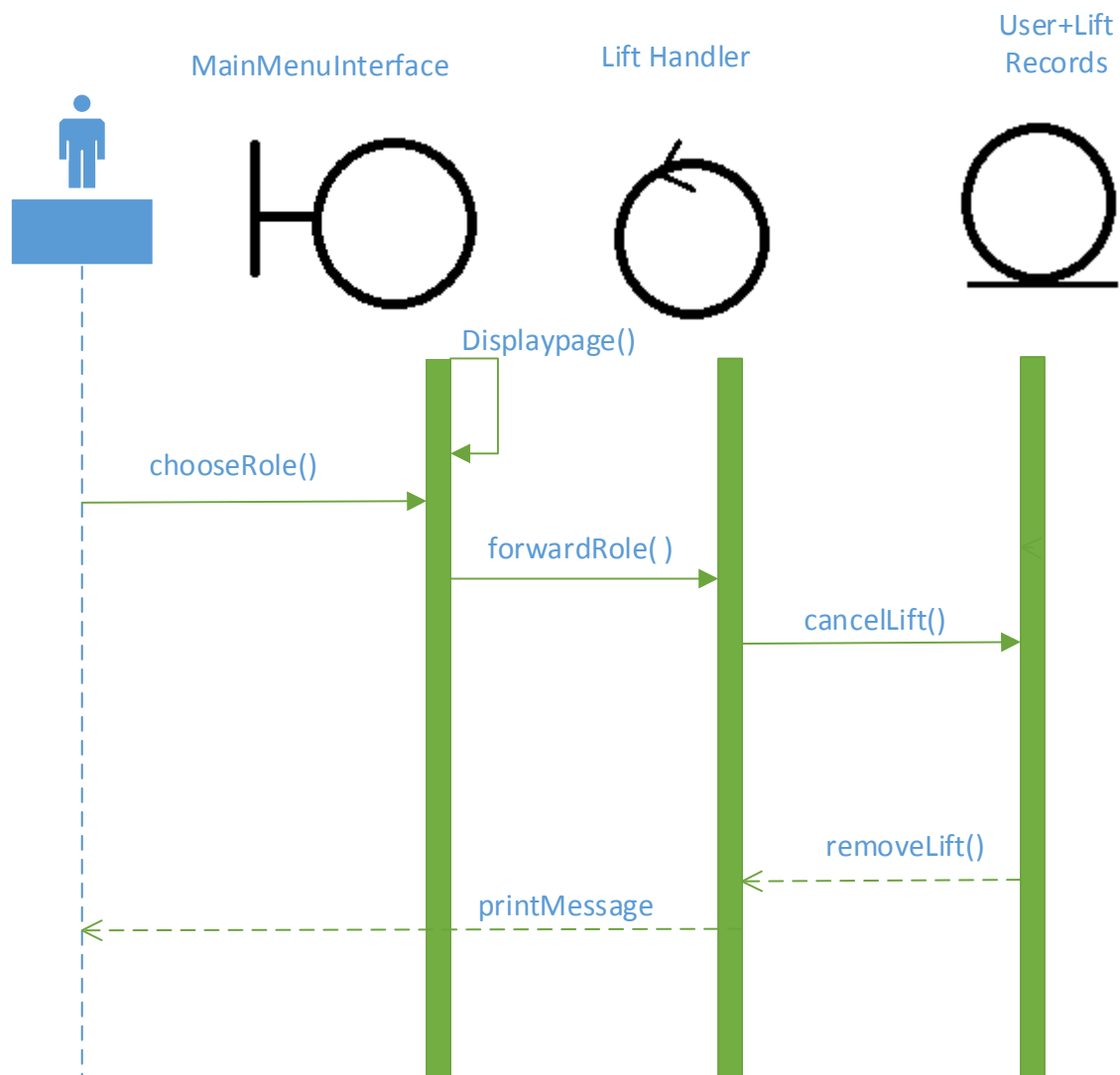
Use Case 6.0 :OfferLift



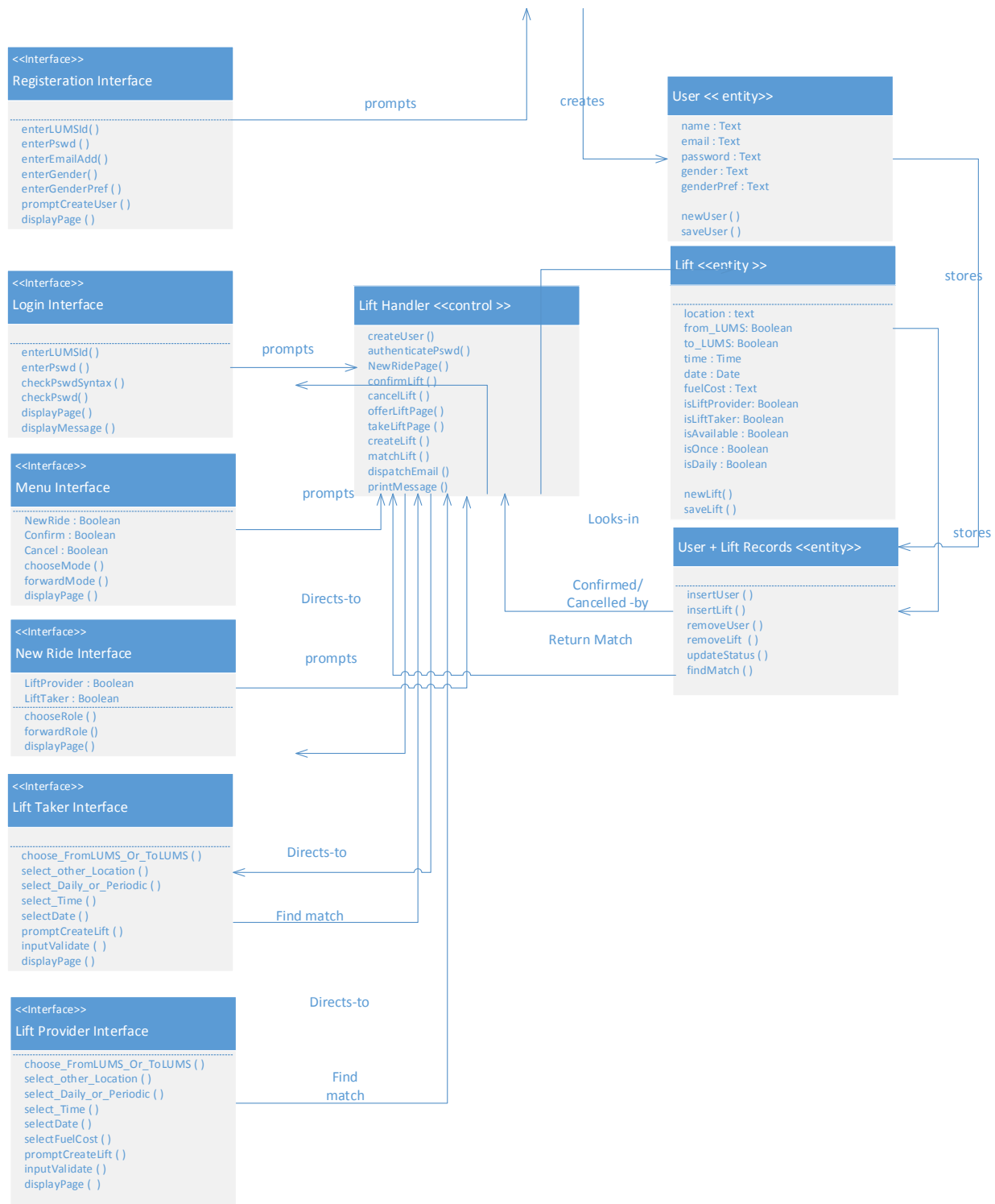
Use Case 7.0 :Confirm a Lift



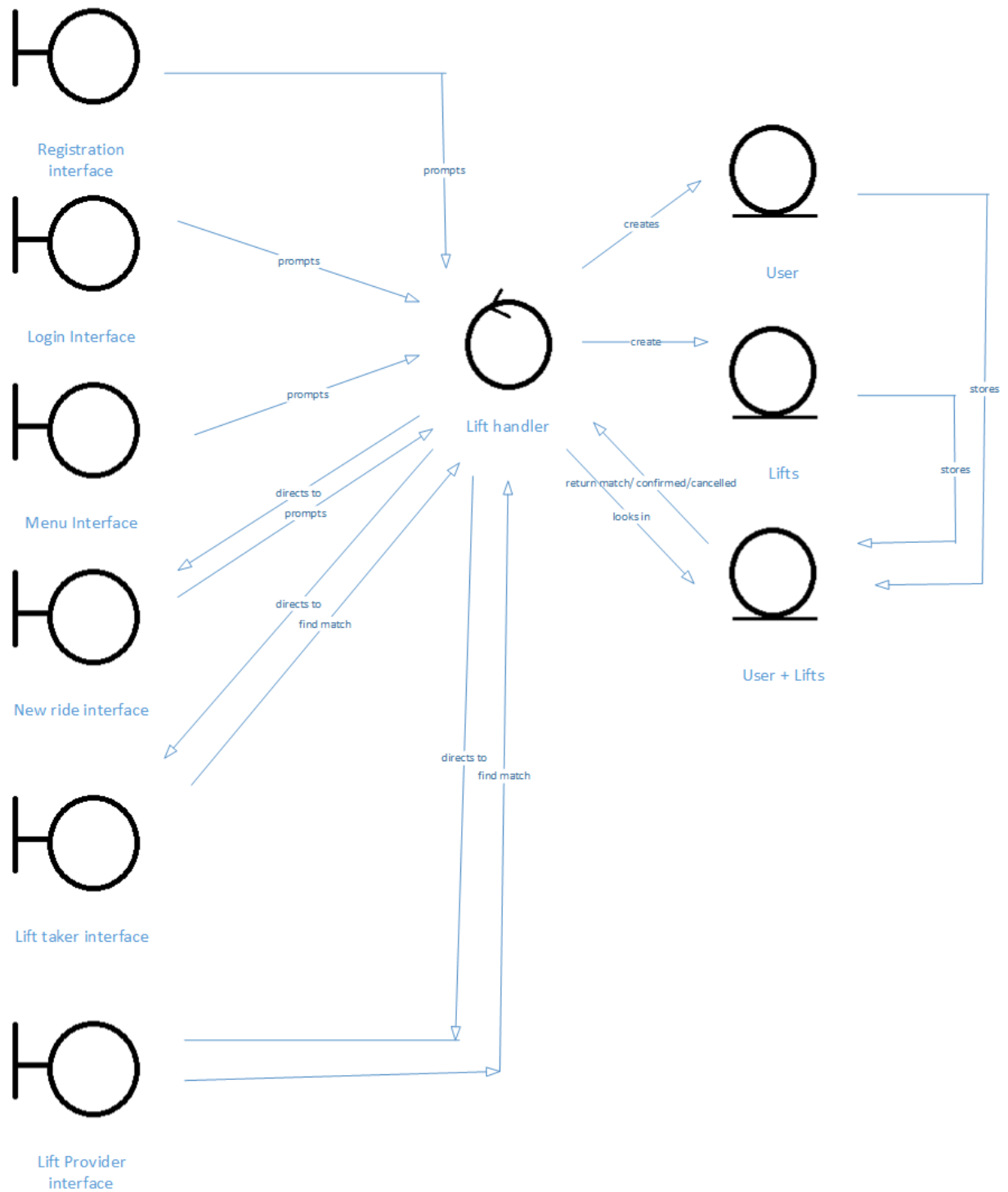
Use Case 8.0 :Cancel a Lift



(Design Class Diagram with Attributes and Methods)



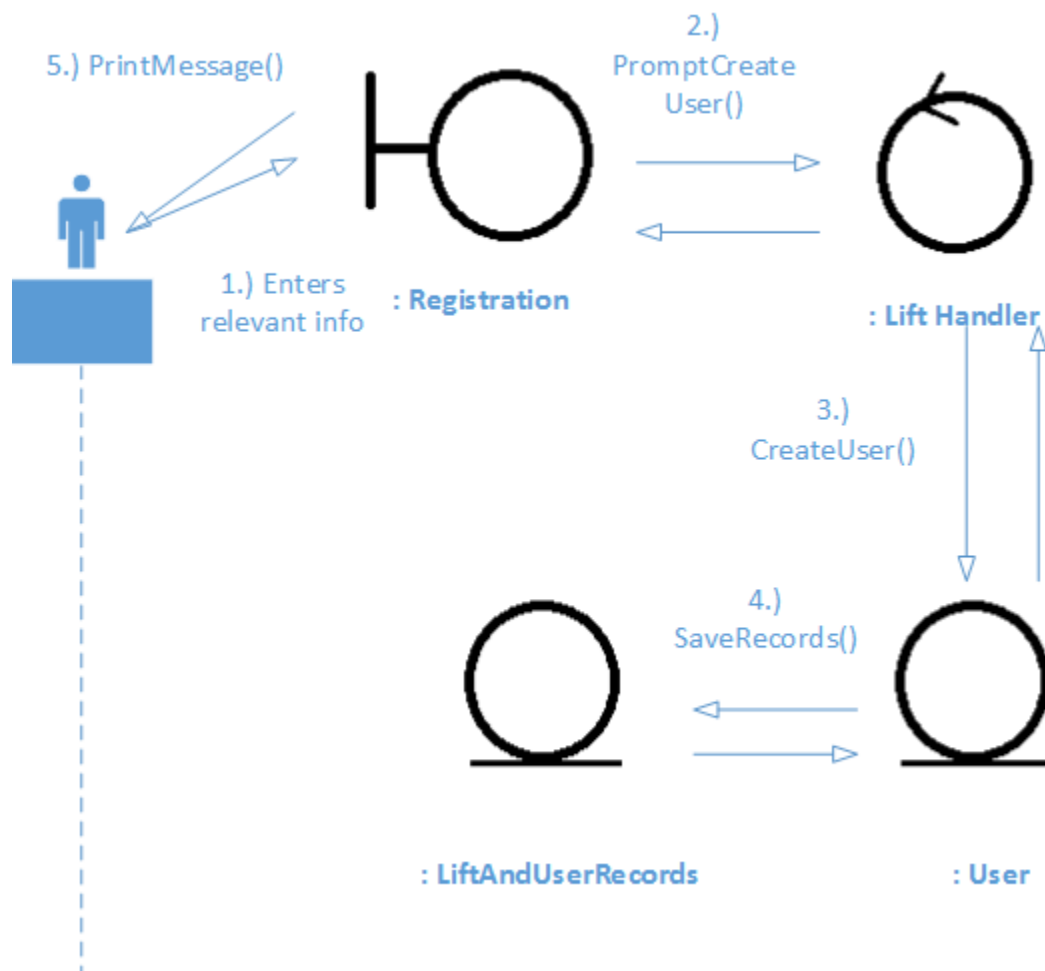
(Class Diagram using Entity, Boundary and Control Symbols)



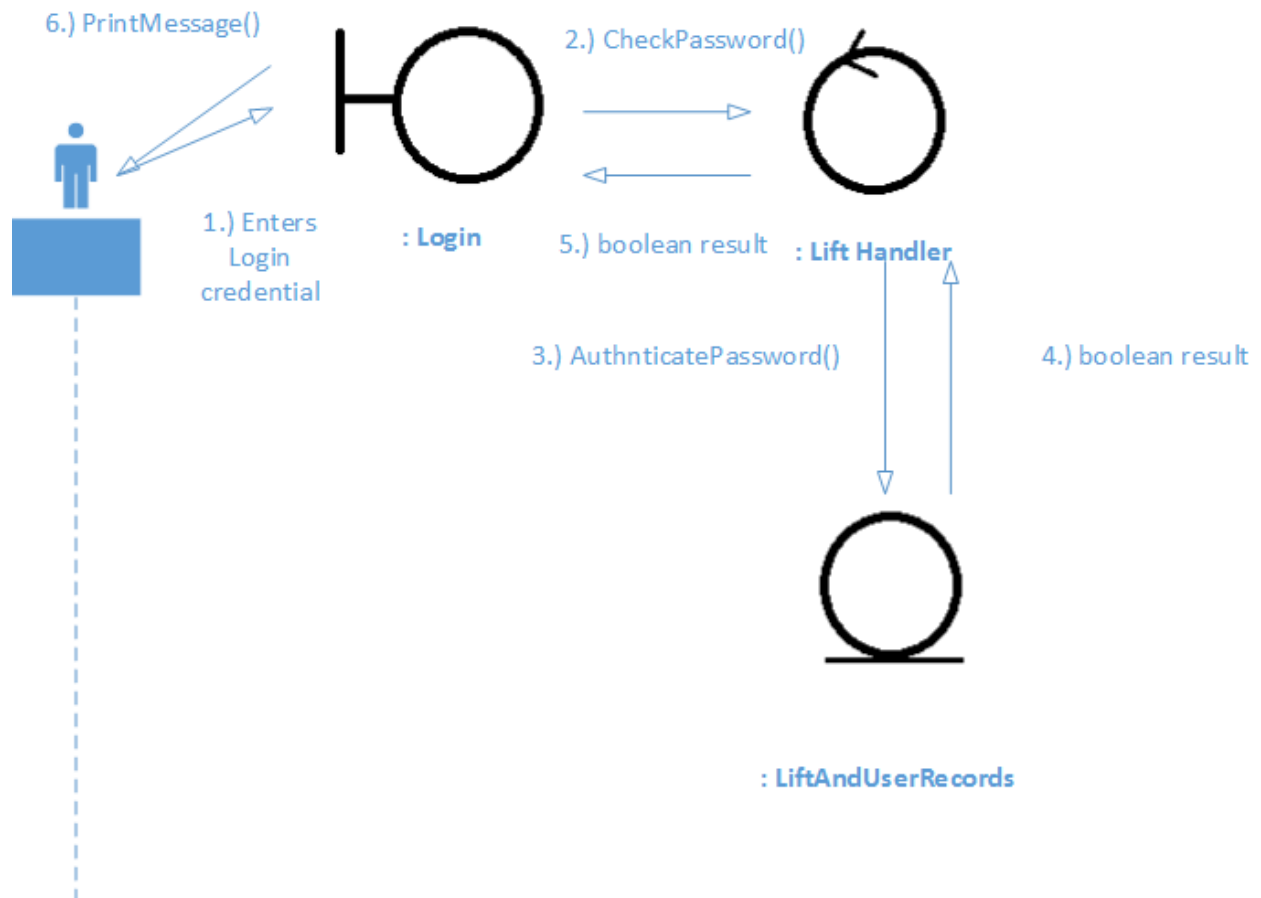
Collaboration Diagrams

One for each use case

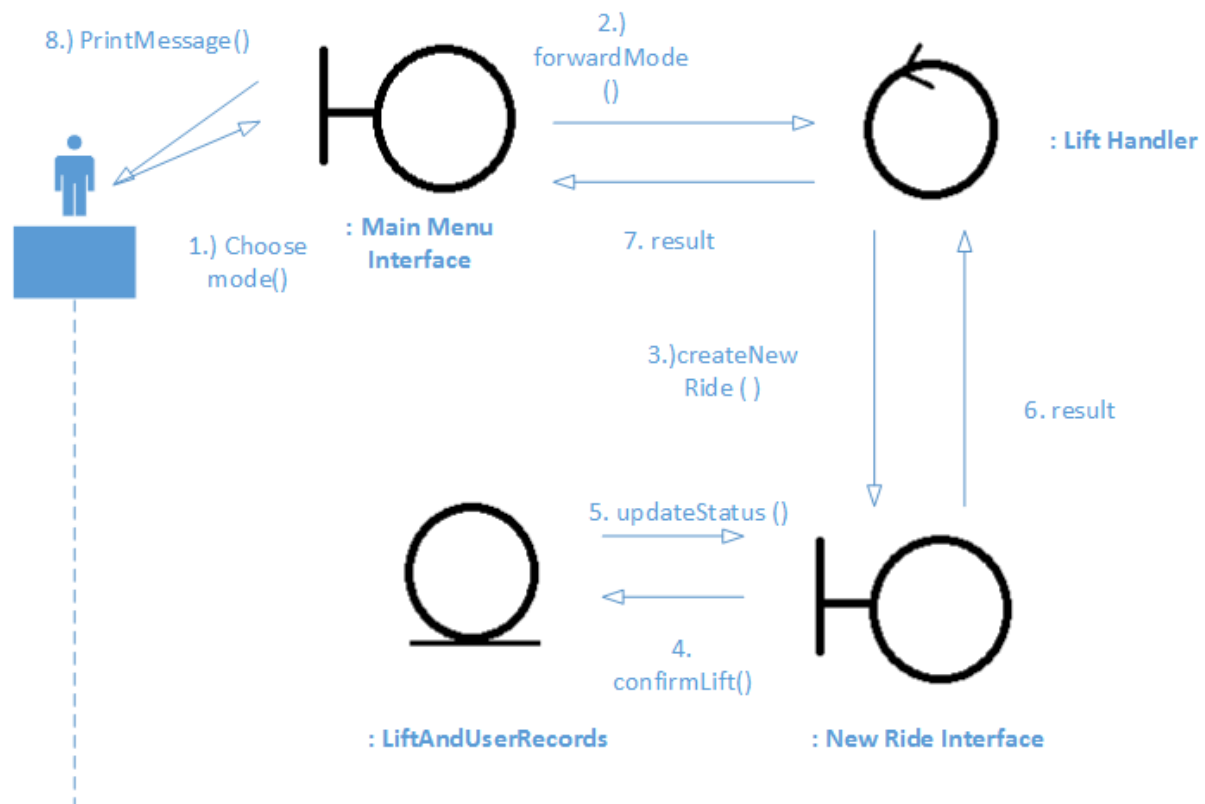
Registration:



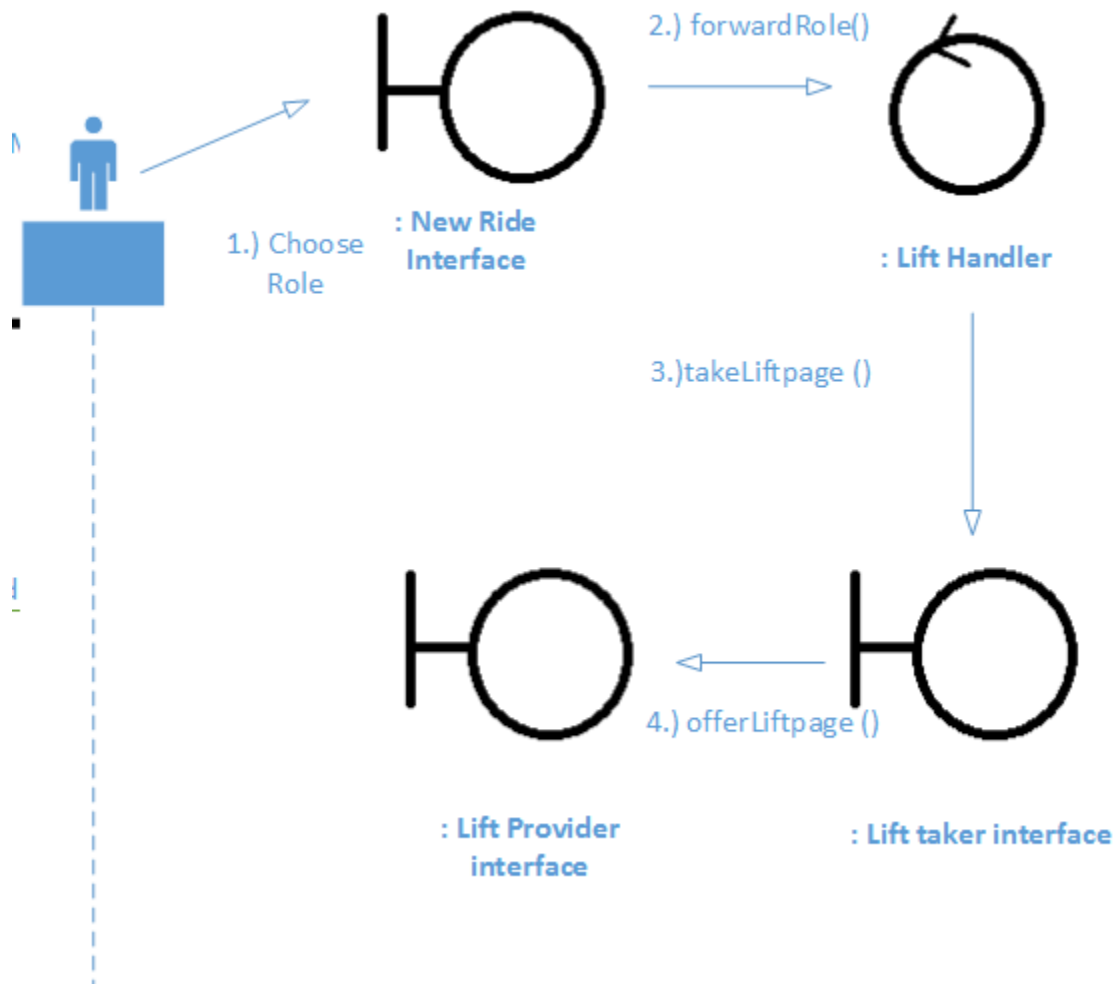
Login :



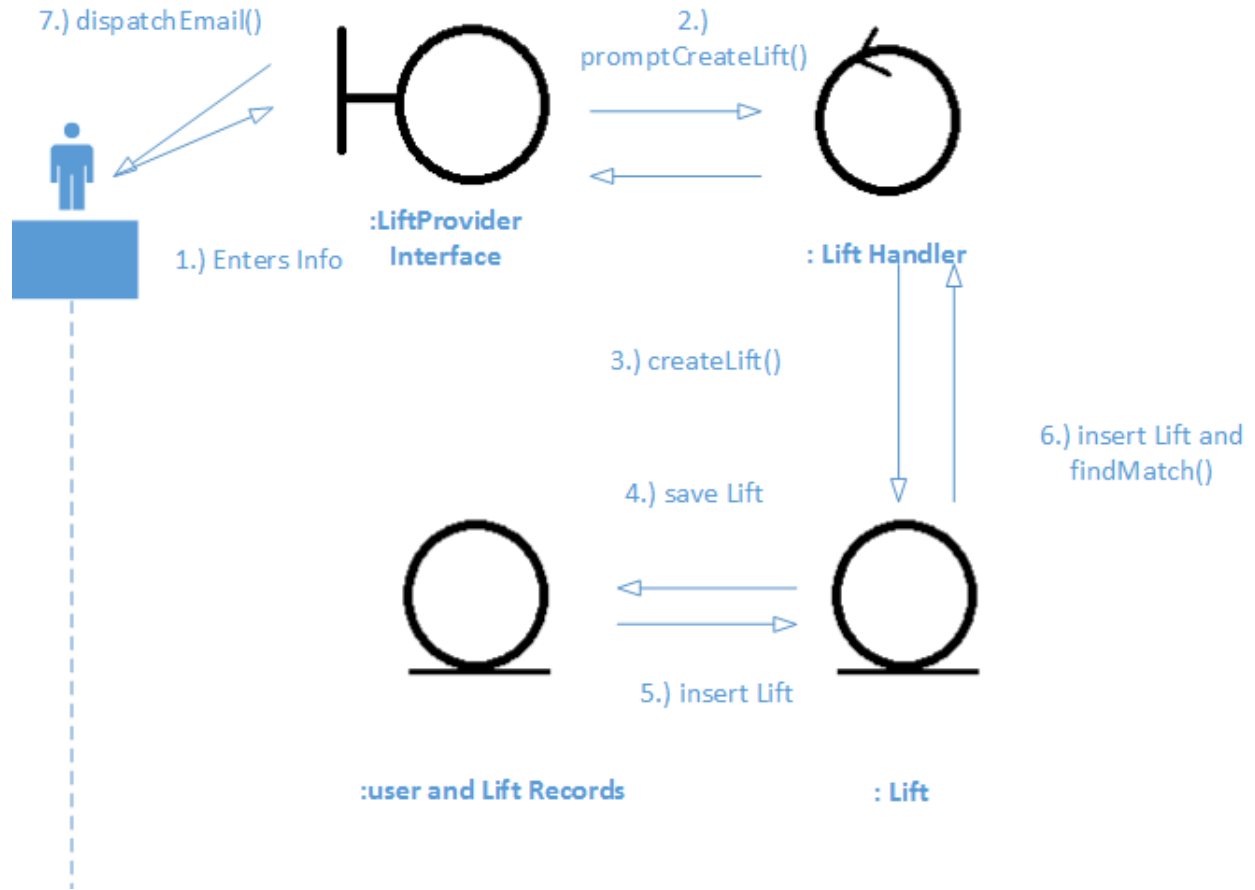
Main Menu:



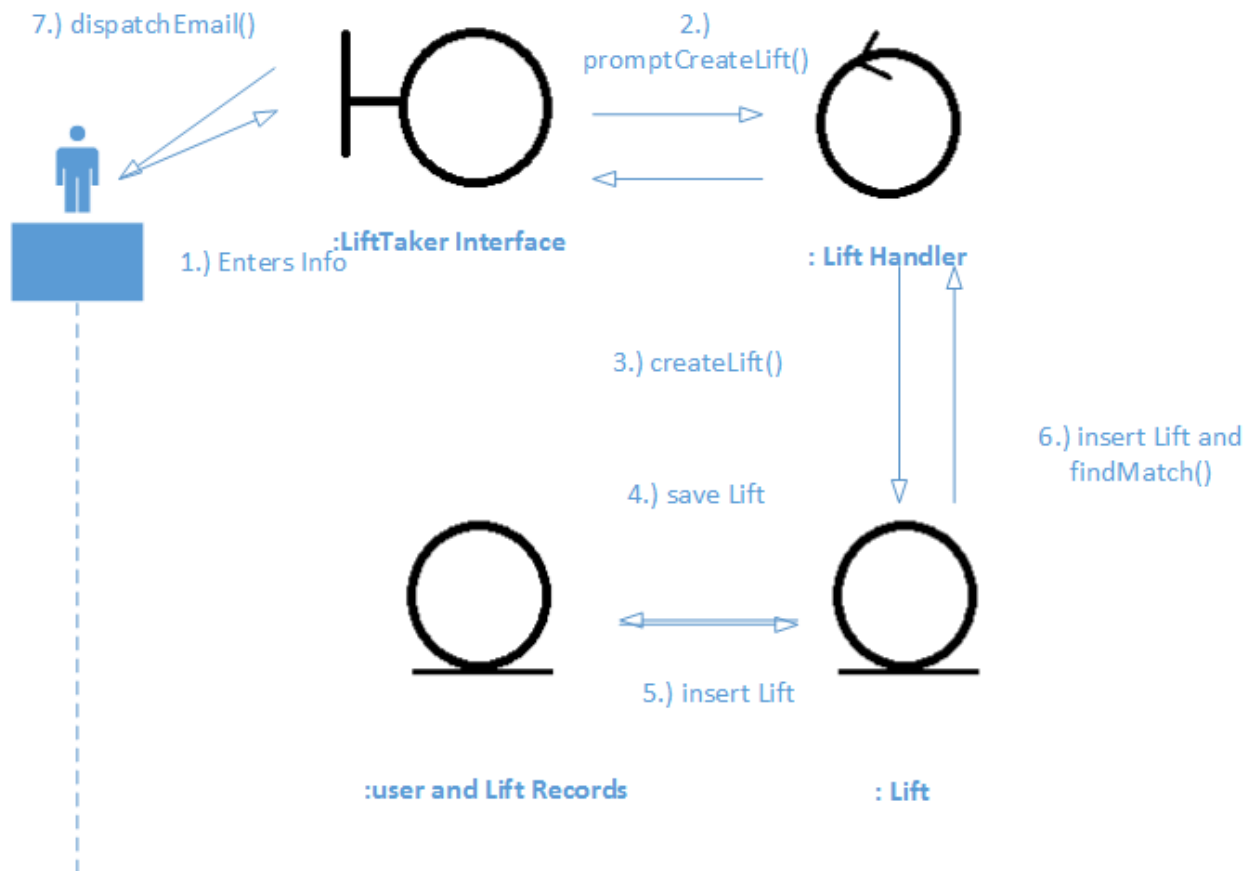
New Ride:



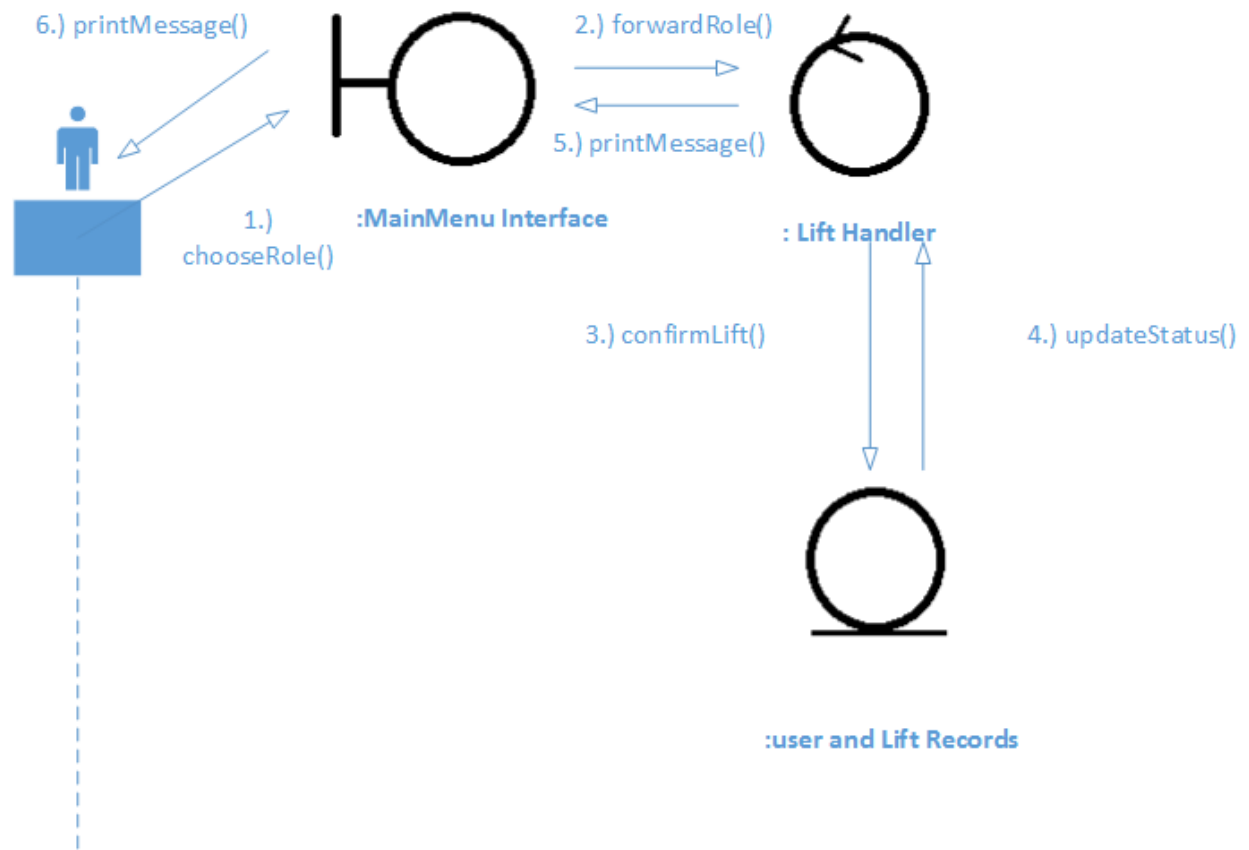
Offer Lift:



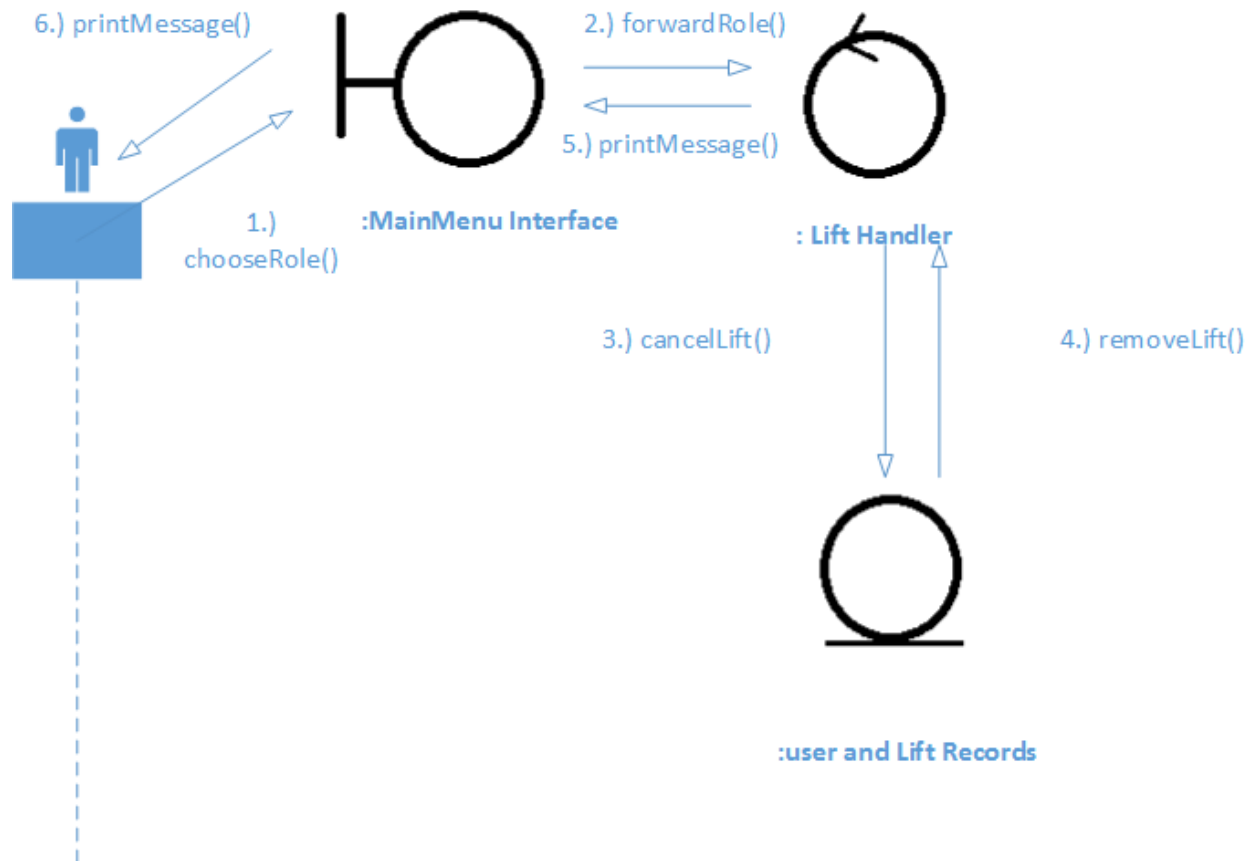
Take Lift:



Confirm Lift:

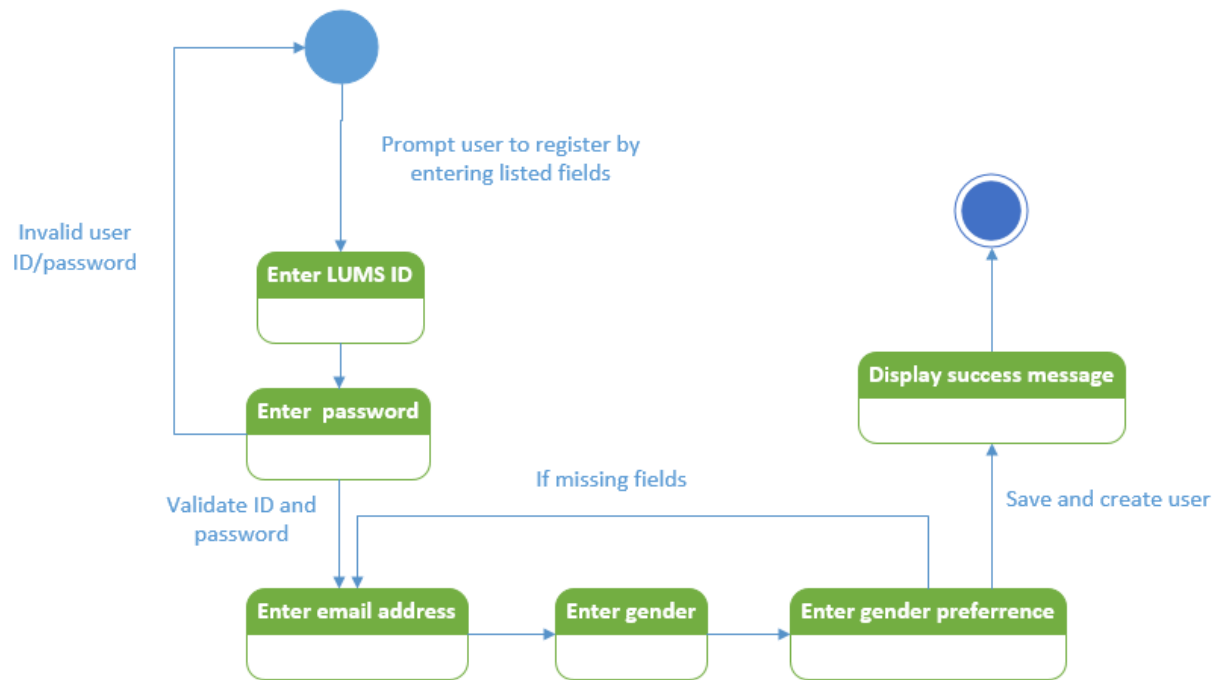


Cancel Lift:

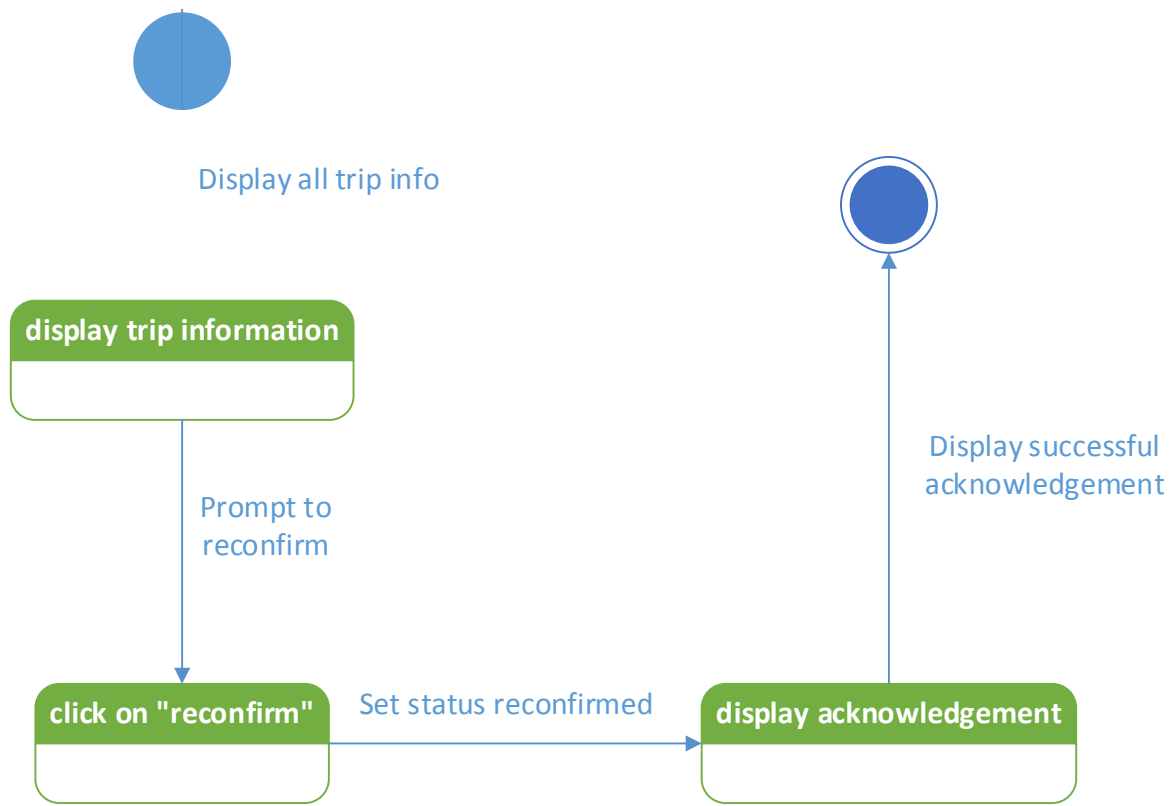


State charts

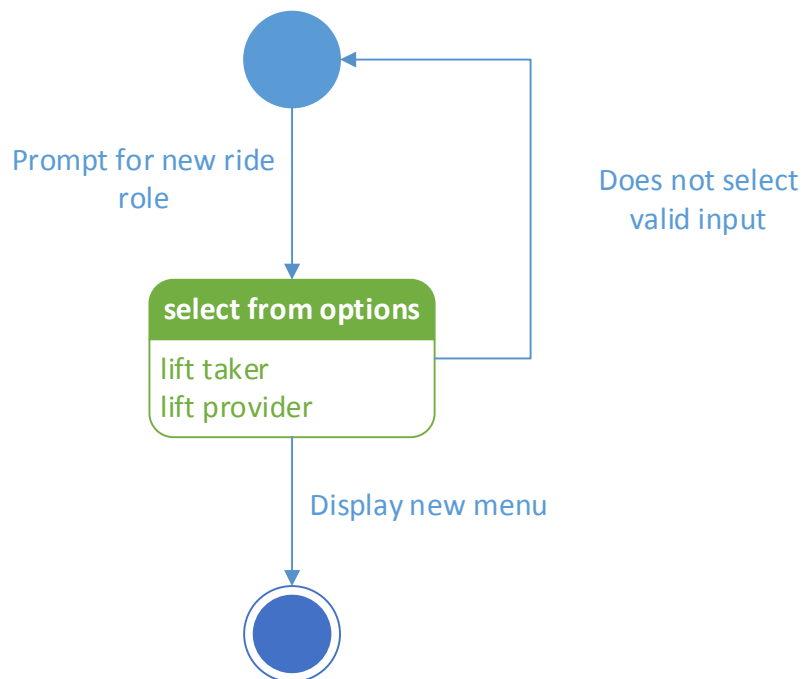
Registration:



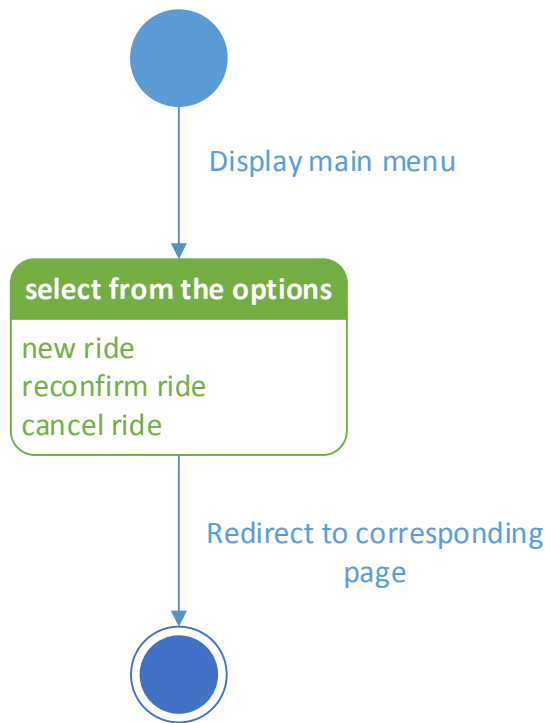
Reconfirm:



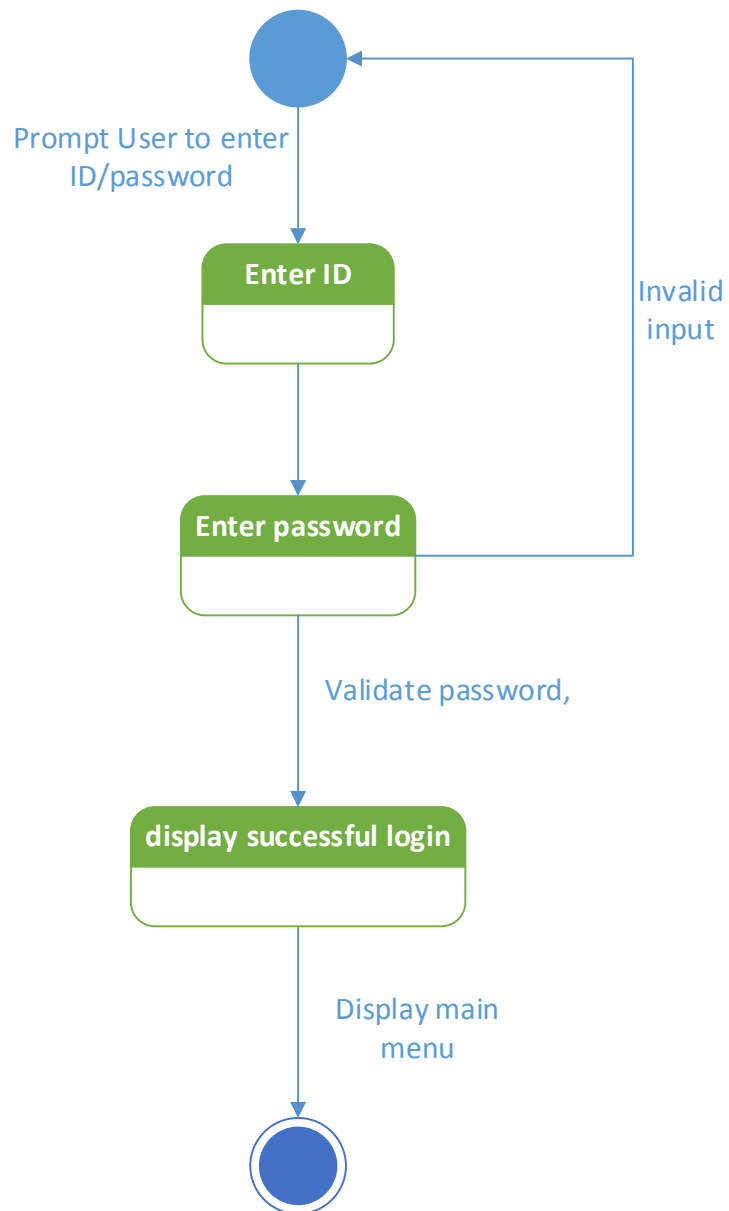
New Ride:



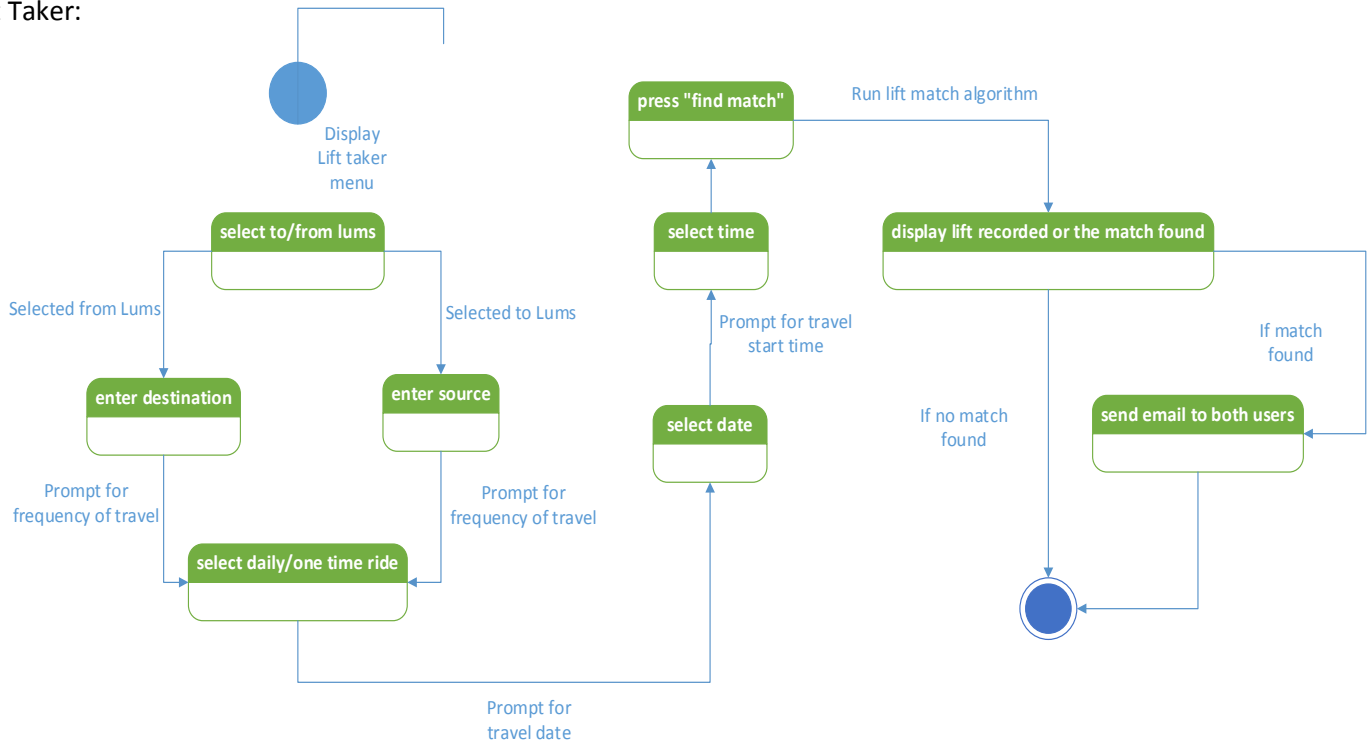
Main Menu:



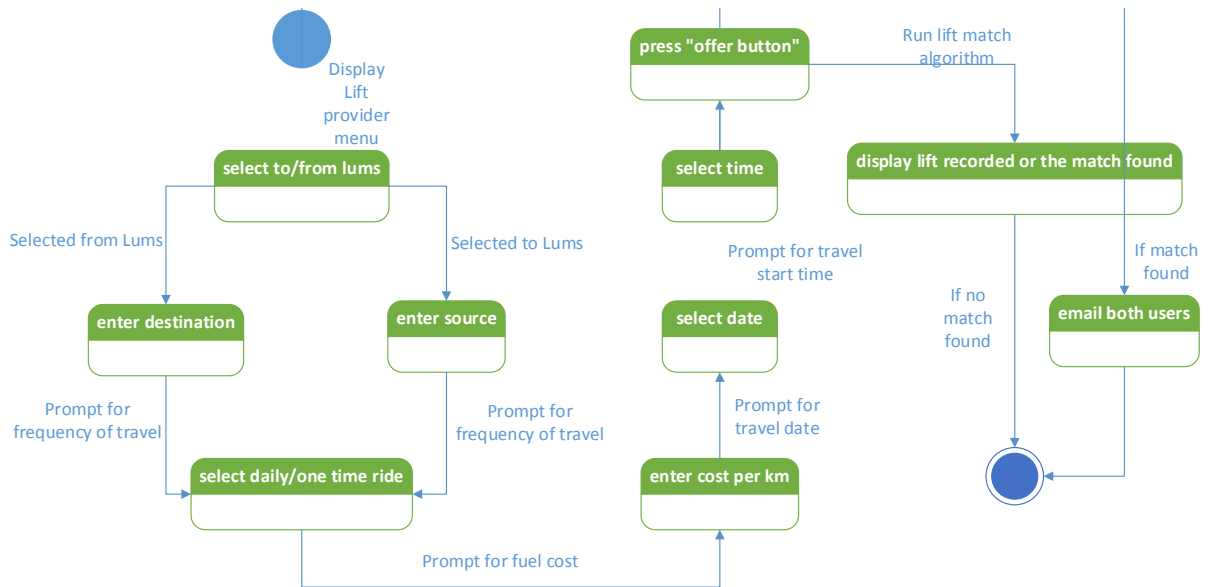
Login:



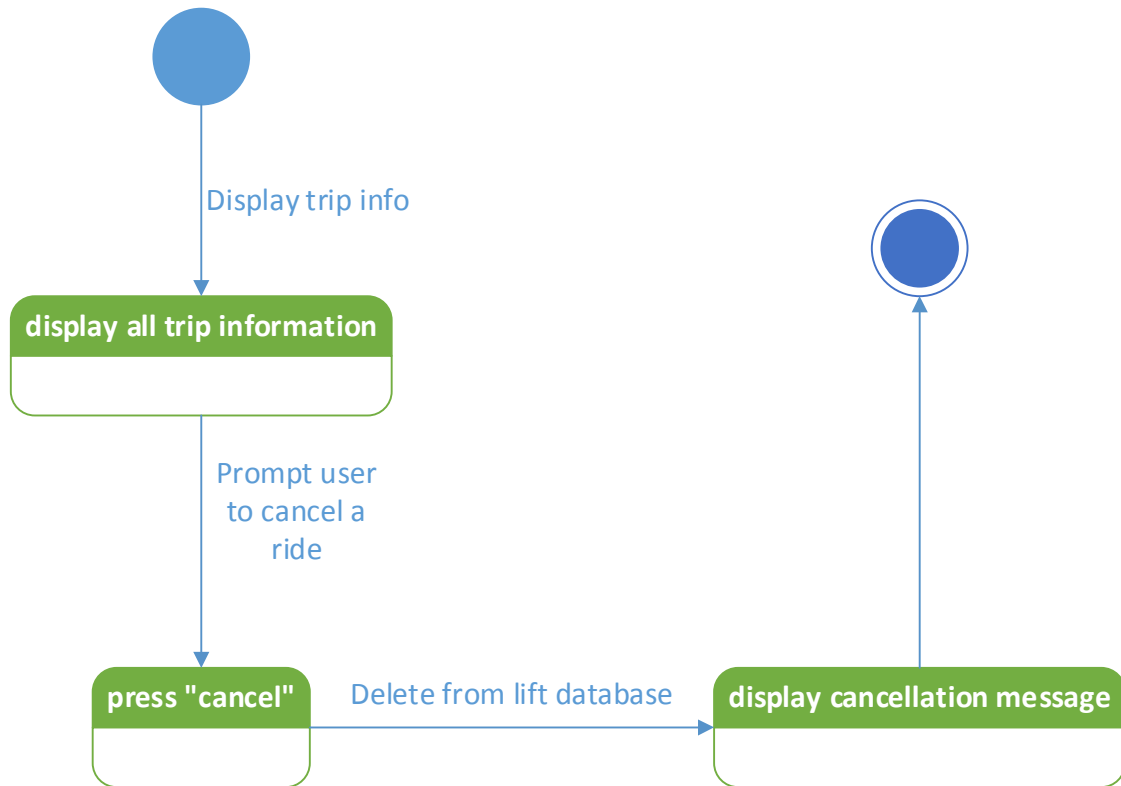
Lift Taker:



Lift Provider:

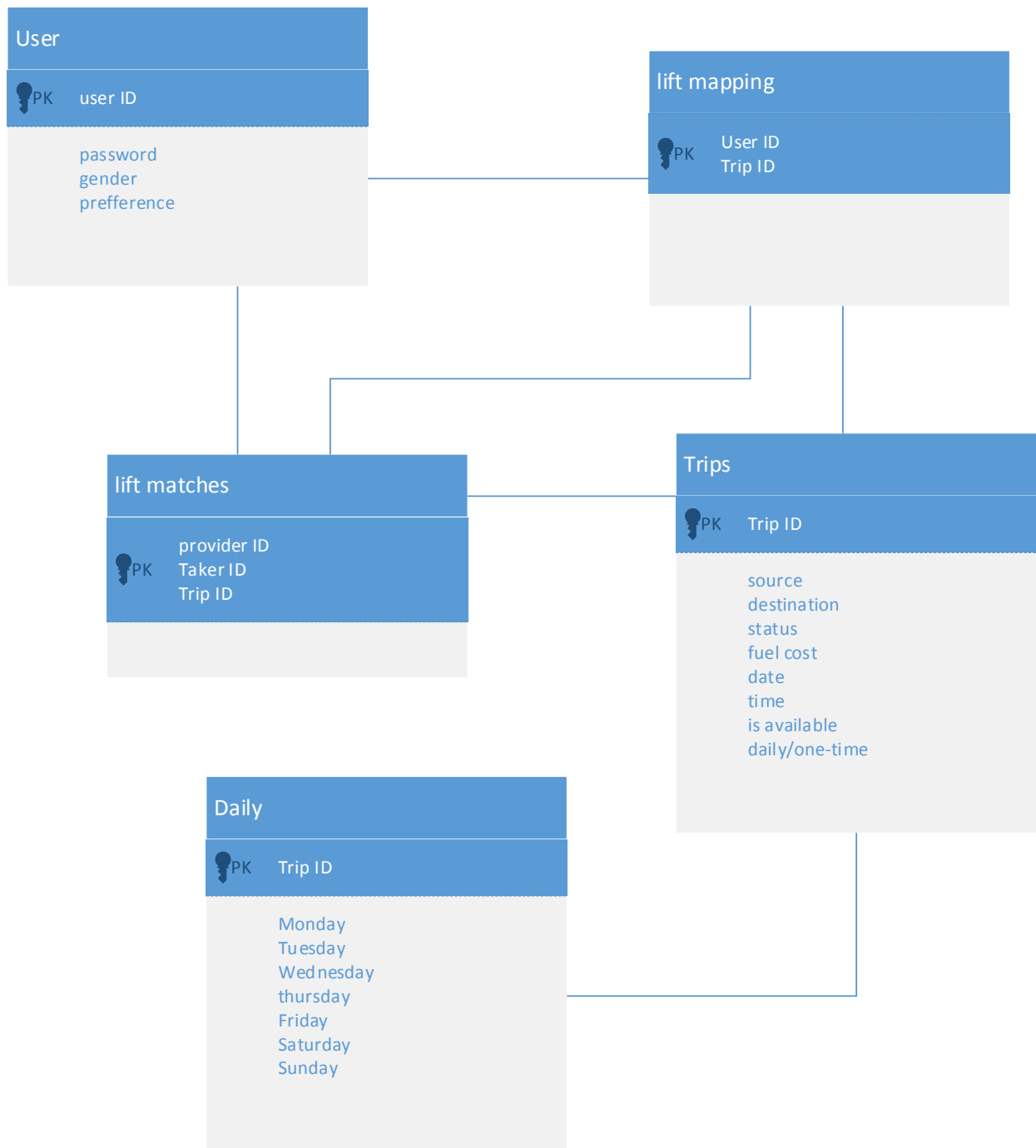


Cancel:

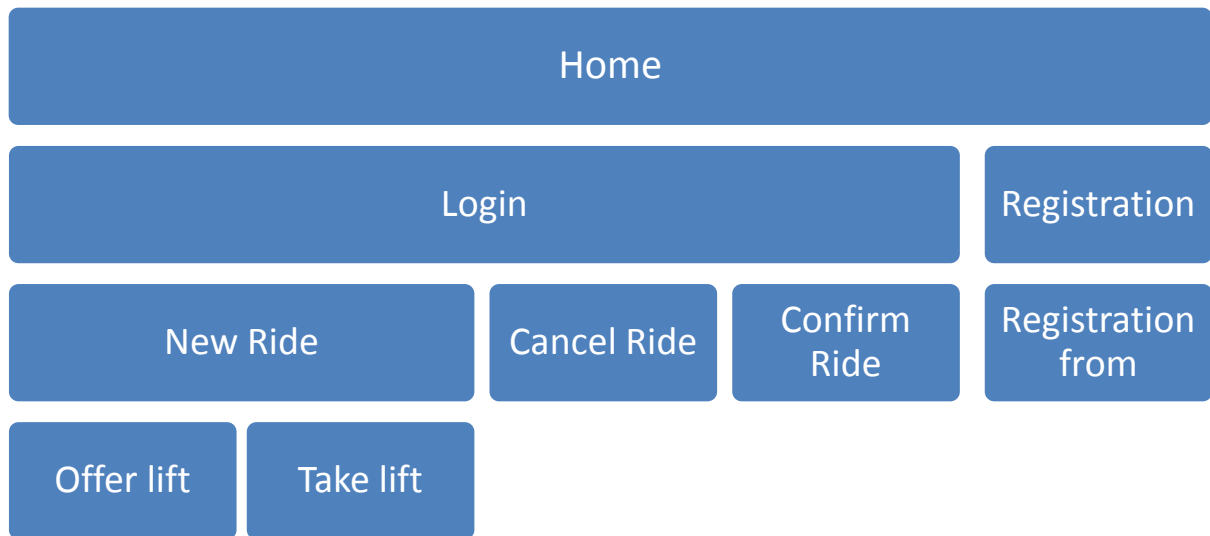


DB Schema/ ERD

(following is a sample ERD for a BIKE Store)(Your ERD can span more than one page)



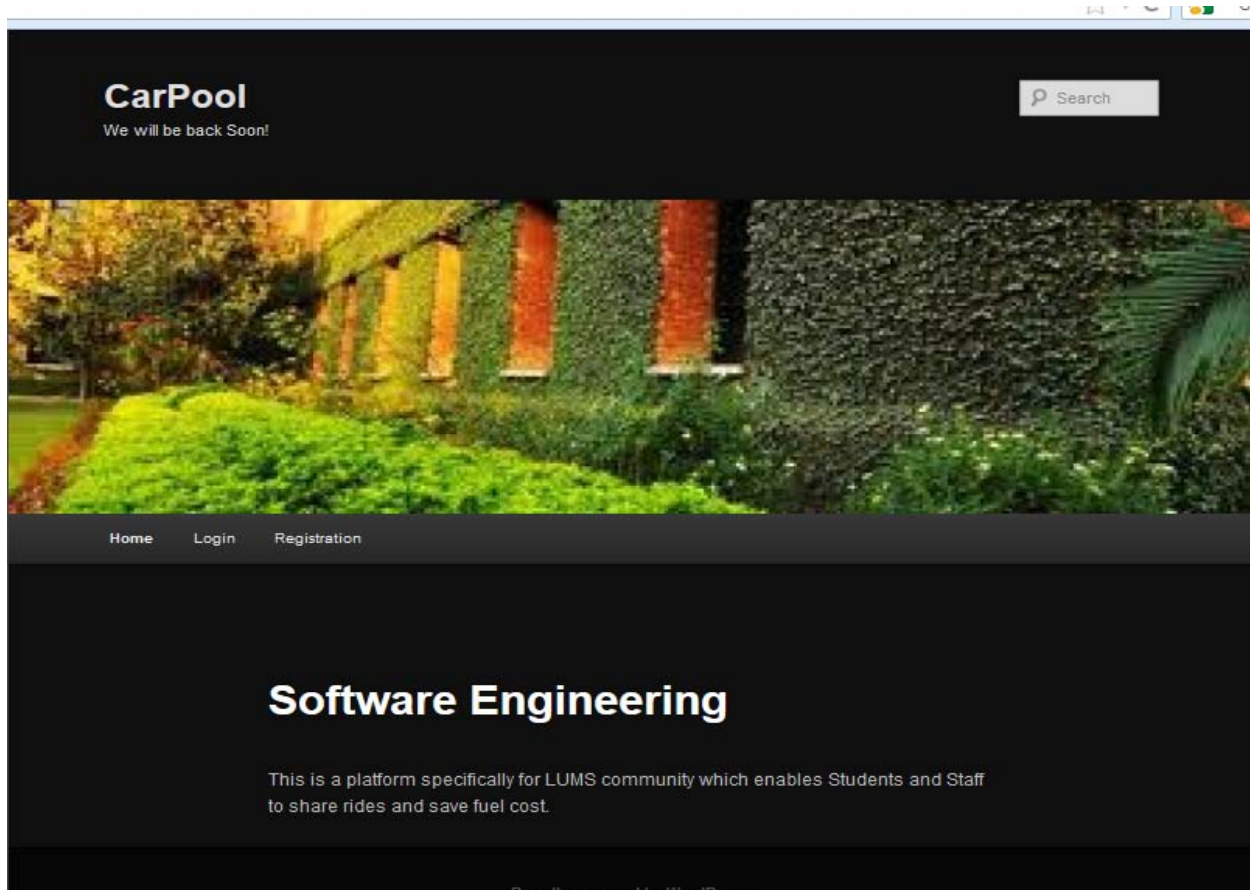
Site Map



Human Interface Design:

When a user logs in to our website i.e. domain.coma home page is displayed as below

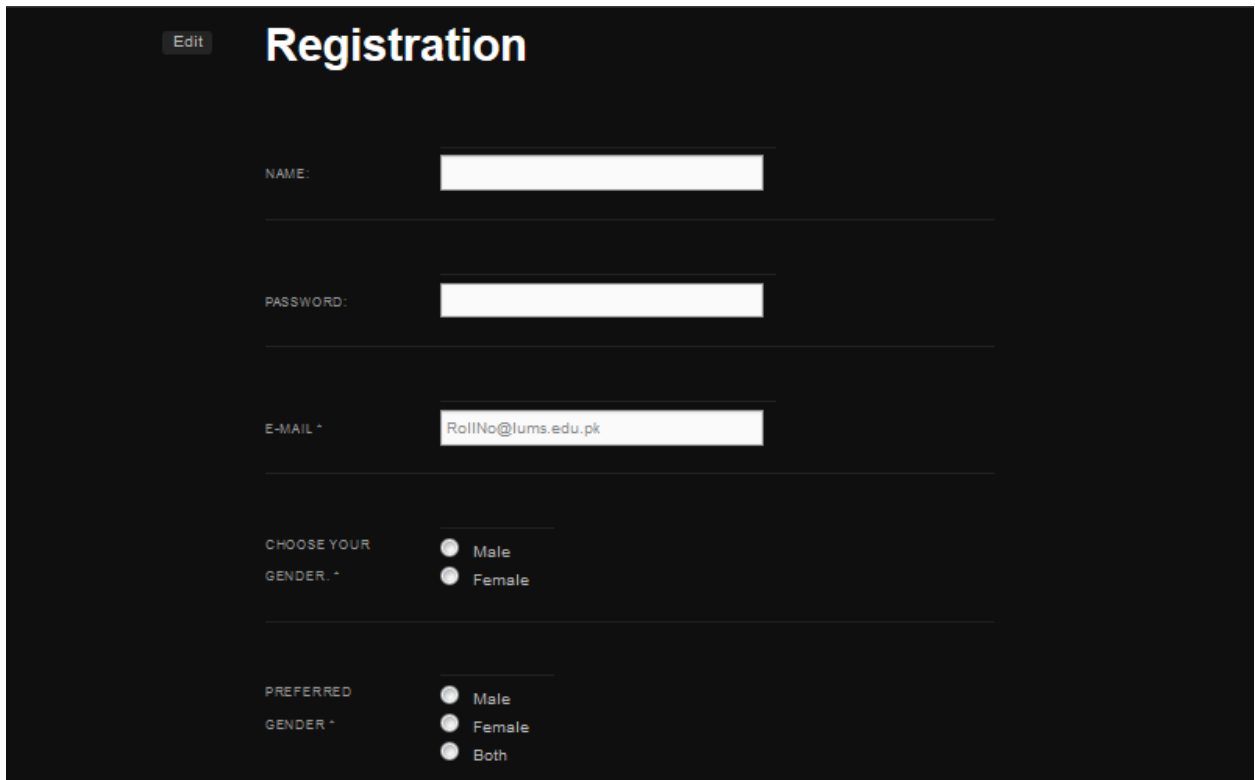
Screen



It is a sort of short introduction of our service and procedure by which user can benefit from this. There are 2 more menu options

1. Registration

When user click the Registration option Registration page is displayed which ask some basic information about the user i.e. name,password,email ID and etc.

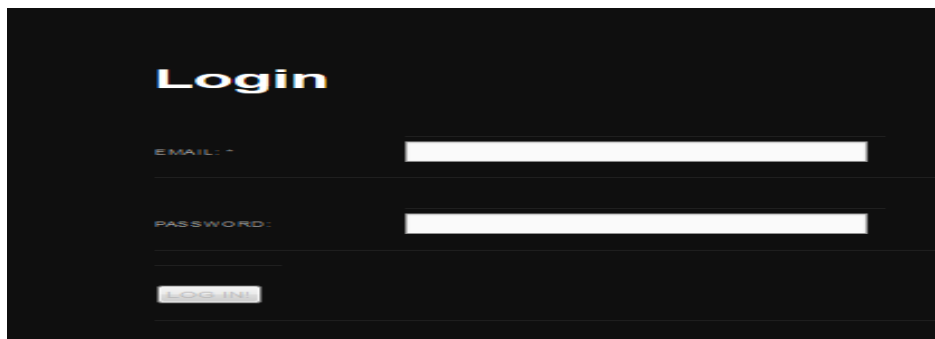


The image shows a registration form on a dark background. At the top left is an 'Edit' button. The title 'Registration' is in large white font. Below it are three input fields: 'NAME:', 'PASSWORD:', and 'E-MAIL *'. The 'E-MAIL *' field contains the text 'RollNo@lums.edu.pk'. Below the email field are two sections for gender selection. The first section is labeled 'CHOOSE YOUR GENDER *' and has two radio buttons: 'Male' and 'Female'. The second section is labeled 'PREFERRED GENDER *' and has three radio buttons: 'Male', 'Female', and 'Both'.

After Registration any user can benefit from our service.

2. Login

When user clicks the login option they are asked about their email ID and password (they set when they were registering) after successful login they would be directed towards the user's welcome page where they would be again provided with three options (pages under construction)



The image shows a login form on a dark background. The title 'Login' is in large white font. Below it are two input fields: 'EMAIL: *' and 'PASSWORD:'. Below the password field is a 'LOG IN' button.

1. Offer Lift
2. Confirm Lift

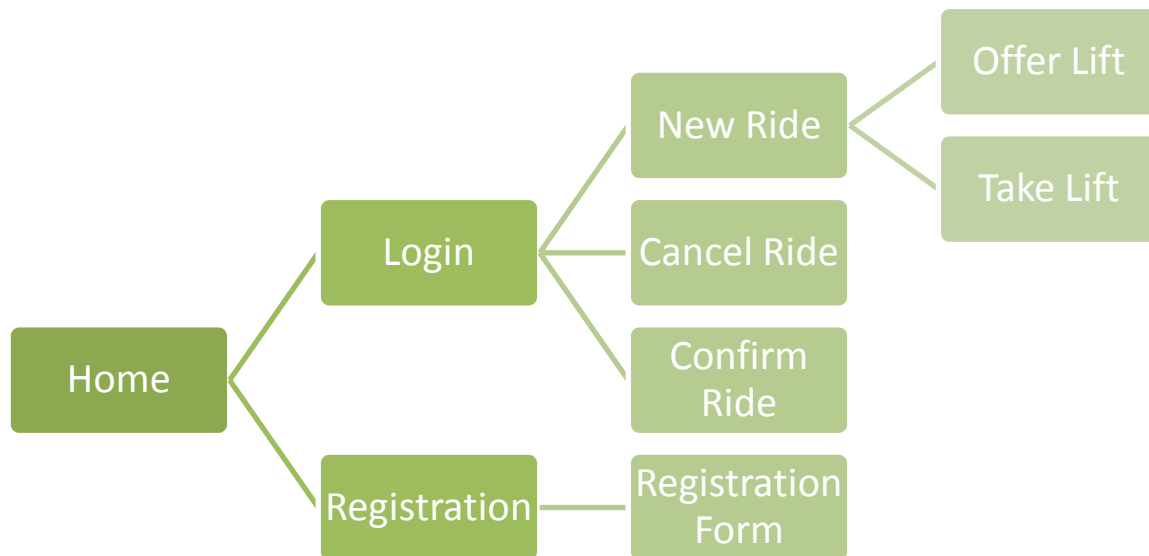
3. Cancel Lift

1. After clicking Offer lift they would be again provided with two options
 - i. You want to Offer a lift
 - ii. You want to get a lift

Whatever the option they choose they would be asked to enter some basic info i.e. starting point, destination and departure time

2. After Confirm lift they would be given an option to confirm the lift they previously have offered
3. After Cancel they would be given an option to cancel the lift they previously have offered

Navigation Flow



GitHub URL

<https://github.com/SoftwareEngineeringCarPool/CarPool-group-6.git>