

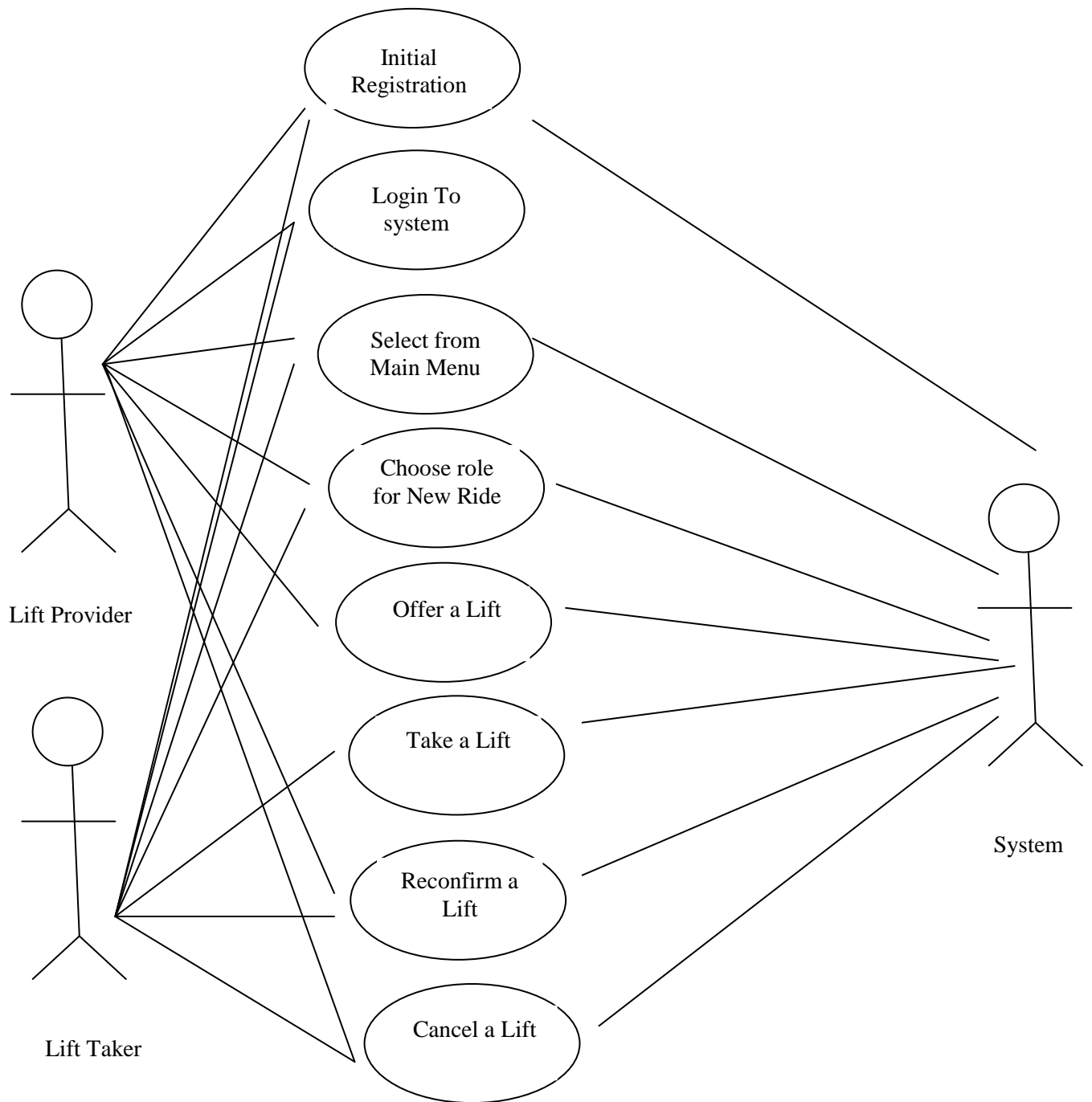
USE CASES LUMS CAR POOL SYSTEM

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<i>Primary Actor</i>	<i>Use Cases</i>
User (Lift provider/ Lift Taker)	<ol style="list-style-type: none"> 1. Initial Registration 2. Login to the system 3. Select from Main menu 4. Choose role for New Ride (Lift Provider/ Lift Taker) 7. Reconfirm a Lift 8. Cancel a Lift
Lift Provider Only	<ol style="list-style-type: none"> 5. Offer a Lift
Lift Taker Only	<ol style="list-style-type: none"> 6. Take a Lift

Use Case ID:	1		
Use Case Name:	Initial registration		
Created By:	Mohsin Ali	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider / Lift Taker		
Description:	A form with different required fields will be shown and user will be asked to give details if he/she wants to offer or take a lift at any time in future.		
Preconditions:	<ol style="list-style-type: none"> 1. User should be a member of LUMS community. 2. User should not be already registered 		
Postconditions:	<ol style="list-style-type: none"> 1. Submit button pressed 2. User has filled all the required fields 		
Normal Flow:	1.0 <ol style="list-style-type: none"> 1. User enters his LUMS ID 2. Enter LUMS password 3. System authenticates if id and password are valid 4. Ask user if he wants to be a Lift Provider or Lift Taker or both 5. Present the corresponding form 6. Enters email address 7. Enter its own gender and gender preference 8. Click on save 		
Exceptions:	1.0 Invalid ID or password <ol style="list-style-type: none"> 1. Display Error message 2. Prompts the user to re-enter the ID password 1.1 User leaves a required field blank <ol style="list-style-type: none"> 1. Display Error message “required field missing” 2. Display the form again 1.2 User is already registered <ol style="list-style-type: none"> 1. Display Error Message “you are already registered please login” 		
Includes:	Login		
Priority:	High		
Frequency of Use:	Assuming all LUMS community registers in a week. 400 times a day.		

Use Case ID:	2		
Use Case Name:	Login to the system		
Created By:	Zuha Agha	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider / Lift Taker		
Description:	Ask user to authenticate himself		
Preconditions:	1. Should already be registered.		
Postconditions:	2. Password and Id should be valid		
Normal Flow:	2.0 1 User enters his LUMS ID 2 Enter LUMS password 3 Click on login 4 System authenticates if id and password are valid 5 Redirect to the homepage provided no exception has been raised		
Exceptions:	2.0 Invalid ID or password 1.Display Error message 2. Prompts the user to re-enter the ID password		
Includes:	None		
Priority:	High		
Frequency of Use:	Equal to the number of hits per day Estimated: 50 per day		

Use Case ID:	3		
Use Case Name:	Select from Main Menu		
Created By:	Ali Kamina	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider / Lift Taker		
Description:	Ask user whether he wants to reconfirm a ride, cancel a ride or create a new ride		
Preconditions:	-		
Postconditions:	-		
Normal Flow:	3.0 1 Display three checkboxes, one for Reconfirmation, one for Cancellation and one for new Ride 2 Redirect to the corresponding pages		
Exceptions:	-		
Includes:	Reconfirmation, Cancellation, Choose role for New Ride		
Priority:	High		
Frequency of Use:	Estimated: 50 per day		

Use Case ID:	4		
Use Case Name:	Choose role for New Ride		
Created By:	Ali Raza	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider / Lift Taker		
Description:	Ask user whether he wants to be lift provider or lift taker for the trip.		
Preconditions:	1. Has no lift scheduled for that time		
Postconditions:	-		
Normal Flow:	4.0 1 Display two checkboxes, one for each role 2 Redirect to corresponding page 3. Click 'Select'		
Exceptions:	4.0 User presses select without checking any option 1. Error displayed		
Includes:	Offer a Lift, Take a Lift		
Priority:	High		

Frequency of Use:	Estimated: 50 per day
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Use Case ID:	5		
Use Case Name:	Offer a Lift		
Created By:	Mohsin Ali	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider		
Description:	Gather information about the route that the lift provider is willing to offer.		
Preconditions:	-		
Postconditions:	<ol style="list-style-type: none"> 1. Sanity check on inputs. 2. Has no lift clashing with that time 		
Normal Flow:	5.0 <ol style="list-style-type: none"> 1. Specify going from LUMS or to LUMS. 2. Choose source/destination from a list of known locations. 3. Allow lift provider to opt for one time or periodic/regular lifts 4. Specify fuel cost per KM 5. Specify time and date. 6. Click on “Offer and Keep the Environment green” button. 7. System performs a sanity check on time and cost. Fuel cost entered should not exceed Rs. 15 per km. 8. System runs lift matching algorithm to find interested lift-takers whose routes and gender preferences match. 		
Exceptions:	5.0 Too high fuel cost Display error message and prompt the user to re-enter the field. 5.1 Incorrect Time or Date Display error message and ask the user to re-fill the fields. 5.2 Blank fields Error displayed. Ask the user to complete the form entries.		
Includes:	Offer a Lift, Take a Lift		
Priority:	High		
Frequency of Use:	Estimated: 50 per day		

Use Case ID:	6		
Use Case Name:	Take a Lift		
Created By:	Mohsin Ali	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Taker		
Description:	Ask user information about where and when he needs a ride and try to find him a match.		
Preconditions:			
Postconditions:			
Normal Flow:	6.0 Specify going from LUMS or to LUMS. Choose source/destination from a list of known locations. Choose if wants the lift once or periodically over the course of semester. Click on “Find a Match” button. If a match is found display the Lift provider’s profile and Display message Otherwise		
Exceptions:	6.0 Match not found <ol style="list-style-type: none"> 1. Add users request 2. Display message “we did not find any match as soon as we do we will email you the details” 		
include	-		
Priority:	High		
Frequency of Use:	Estimated: 25 per day		

Use Case ID:	7		
Use Case Name:	Reconfirm a Lift		
Created By:	Zuha Agha	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Provider / Lift Taker		
Description:	Ask user reconfirm his ride		
Preconditions:	<ol style="list-style-type: none"> 1. Current time should be within 30 min to 3 hours before the time of the ride. 		
Postconditions:	-		
Normal Flow:	7.0 <ol style="list-style-type: none"> 1 Users current trip information is displayed 2 User clicks on the reconfirm button 3 Acknowledgment message is displayed 		
Exceptions:	7.0 <ol style="list-style-type: none"> 1. If user fails to confirm half an hour before the time for the lift, the system cancels the lift. 		

Includes:	Cancel
Priority:	High
Frequency of Use:	Estimated: 50 per day

Use Case ID:	8		
Use Case Name:	Cancel a lift		
Created By:	Ali Raza	Last Updated By:	-
Date Created:	March 6, 2013	Date Last Updated:	-
Actors:	Lift Taker / Lift provider		
Description:	Ask user if he wants to cancel his ride		
Preconditions:	1. User should already have a ride offered/requested.		
Postconditions:			
Normal Flow:	8.0 Display the user his current ride and display a button saying “Cancel” Display another button saying “Go back to the main menu” Cancel the ride and if anybody else has requested a ride for that route and a Lift taker has cancelled the ride then email the waitlisted user the details for the ride.		
Exceptions:	8.0 User does not clicks on the cancel button and clicks on “go back” 1. Do not cancel the ride and redirect back to menu		
include	-		
Priority:	low		
Frequency of Use:	Estimated: 5 per day		