Use Cases

for

Wanderful

Prepared by One Direction

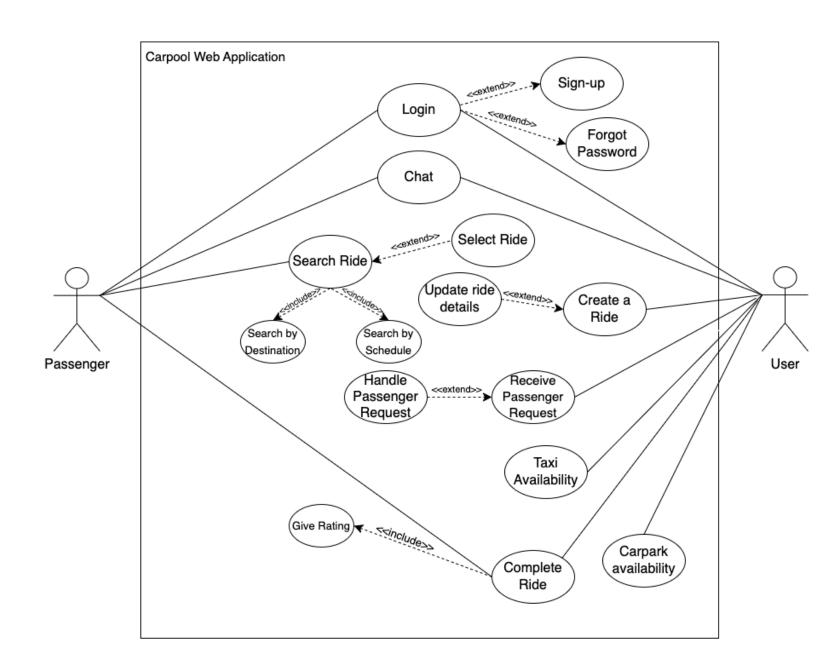
Nanyang Technological University

21/02/2023

Revision History

Name	Date	Reason For Changes	Version
Sethi Aryan	07/02/2023	First Draft	1.0
Sethi Aryan	21/02/2023	Second Draft	2.0

Use Case Diagram



Index For Use Cases

Use Case ID	Use Case Name
1	Sign-up
2	Login
3	Forgot Password
4	Create Ride
5	Update Ride Details
6	Search and Request Ride
7	Receive Passenger Request
8	Handle Passenger Request
9	Chat
10	Complete Ride
11	Taxi Availability
12	Carpark Availability

Use Case ID:	1.0		
Use Case Name:	Sign-Up		
Created By:	Tan Wei Yuan	Last Updated By:	Jarel Tan
Date Created:	07/02/2023	Date Last Updated:	15/02/2023

Actor:	Initiated by <i>User</i>		
Description:	User creates an account in our system database. To create an account, users must proved a unique username and valid password.		
Preconditions:	1. User has not created an account		
Postconditions:	New <i>User</i> account is created <i>User</i> account is added to database		
Priority:	High		
Frequency of Use:	Once per lifetime		
Flow of Events:	 User Clicks on the Signup button User is prompted to input email, username and password System checks if an account already exists with the email mentioned System verifies the availability of username in database System verifies password meets requirements a. 1 Uppercase alphabet 		

	 b. 1 Lowercase alphabet c. Between 8 - 24 characters 6. System creates <i>User</i> account and adds information of created <i>User</i> account to database 7. User is moved to the login screen
Alternative Flows:	AF-S1: Entered email is already in the database 1. User is prompted to go to the login page as the email has already been used for registration AF-S2: Entered Username is already in the database and is not unique 1. The UI displays the message "Username is already taken. Please enter another username." 2. Control returns to Step 1 AF-S3: Entered Password does not meet any of the 3 requirements 1. The UI displays the message "Password does not meet requirements. Please Enter a password with 1 Uppercase, 1 Lowercase and a length of 8 - 24 Characters." 2. UI returns to Step 1
Exceptions:	-
Includes:	-
Notes and Issues:	-

Use Case ID:	2.0		
Use Case Name:	Login		
Created By:	Tan Wei Yuan	Last Updated By:	Jarel Tan
Date Created:	07/02/2023	Date Last Updated:	15/02/2023

Actor:	Initiated by <i>User</i>	
Description:	User logs in to his account. For user to login to an account, username and password must match the database records.	
Preconditions:	User has already created an account Username and Password are entered correctly	
Postconditions:	1. <i>User</i> is logged in to the account	
Priority:	High	
Frequency of Use:	Low	
Flow of Events:	 User clicks on the Log In button User is prompted to input username and password System verifies the account details with the database User is logged into the account if the username and passwords match 	
Alternative Flows:	AF-S1: Username is not present in the database (Either User has entered the wrong username or account does not exist) 1. UI displays the message "Account does not exist. Please check log in details / Sign up with a new account." 2. UI returns to Step 1 AF-S2: Username is present in database but password does not match	

	UI displays the message "Password is invalid. Please reenter the password" UI returns to Step 1
Exceptions:	EX1: <i>User</i> enters an invalid password for three times 1. UI displays the message "Too many attempts. Please try again later." 2. UI returns to Step 1
Includes:	-
Notes and Issues:	-

Use Case ID:	3.0		
Use Case Name:	Forgot Password		
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan
Date Created:	21/02/2023	Date Last Updated:	21/02/2023

Actor:	Initiated by <i>User</i>		
Description:	User has forgotten their password, so they are sent a verification email first to verify themselves, and then they are allowed to reset their password from the link sent to their emails		
Preconditions:	User has already created an account User has forgotten their password		
Postconditions:	The database has been updated with the new password for the user		
Priority:	Medium		
Frequency of Use:	Low		
Flow of Events:	 User clicks on the Forgot Password button User is prompted to input their email for verification User receives an email and then clicks on the link to verify the user, which takes them to the password-changing page User enters their new password, and system verifies password meets requirements: 1 Uppercase alphabet 2 Etween 8 - 24 characters User details are updated and the user is taken to the login page 		
Alternative Flows:	AF-S1: Email is not in the database (Either User has entered the wrong email or account does not exist)		

	 UI displays the message "Account does not exist. Please check email details / Sign up with a new account." UI returns to Step 2
Exceptions:	-
Includes:	-
Notes and Issues:	-

Use Case ID:	4.0		
Use Case Name:	Create Ride		
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan
Date Created:	07/02/2023	Date Last Updated:	21/02/2023

Actor:	Initiated by <i>User</i>		
Description:	User creates a ride as a Driver or as a Passenger. To do so, User has to fill up the required details of the ride such as, start and end location, date & time of ride, number of available seats on the ride, indicates if the ride is a recurring ride or a one time ride, and indicates if the user has a personal car to use or if they want someone to share a taxi with.		
Preconditions:	 User has an account User has successfully Lo 	gged into account	
Postconditions:	The database containing a new record	all the rides has been updated with	
Priority:	igh		
Frequency of Use:	igh		
Flow of Events:	1. User clicks on the "Create 2. User is prompted to ente a. Starting Point: (Sta b. Ending Point: (End c. Date & Time: (eg. d. Available Seats: (Ne. Recurring ride: [Year of Ride: (Per 3. User clicks on the Create	er ride details: Fart location) I location) 8 Feb 2023 0900hrs) Number of Seats) Pes / No (One time ride)] Sonal Car / Taxi)	

	 The System will add the details of the ride into the database UI displays the message "Ride Created Successfully"
Alternative Flows:	-
Exceptions:	-
Includes:	-
Notes and Issues:	-

Use Case ID:	5.0		
Use Case Name:	Update Ride Details		
Created By:	Sethi Aryan	Last Updated By:	Jarel Tan
Date Created:	21/02/2023	Date Last Updated:	21/02/2023

Actor:	Initiated by the creator of the Ride		
Description:	User creates a ride as a Driver or as a Passenger. To do so, User has to fill up the required details of the ride such as, start and end location, date & time of ride, number of available seats on the ride, indicates if the ride is a recurring ride or a one time ride, and indicates if the user has a personal car to use or if they want someone to share a taxi with.		
Preconditions:	 User has an account User has successfully logged into account User has created a ride 		
Postconditions:	The database with the ride has been updated with the new details		
Priority:	Medium		
Frequency of Use:	Medium		
Flow of Events:	 User clicks on the "My Rides" button User is shown all the rides that they have created User selects a specific ride, and clicks on the 'Edit' icon User is prompted to update the following details: a. Starting Point: (Start location) b. Ending Point: (End location) c. Date & Time: (eg. 8 Feb 2023 0900hrs) d. Available Seats: (Number of Seats) e. Recurring ride: [Yes / No (One time ride)] f. Type of Ride: (Personal Car / Taxi) 		

	5. User clicks on the 'Confirm' button6. The System will update the details of the ride in the database7. UI displays the message "Ride Updated Successfully"
Alternative Flows:	AF-S2: User has no rides 1. UI displays "You have no rides"
Exceptions:	-
Includes:	-
Notes and Issues:	-

Use Case ID:	6.0		
Use Case Name:	Search & Request Ride		
Created By:	Sethi Aryan	Last Updated By:	Jarel Tan
Date Created:	07/02/2023	Date Last Updated:	15/02/2023

Actor:	Initiated by User (Passenger)		
Description:	User searches for available rides as a Passenger When on the page to select a Wander Ride, the system will display all available rides in the system Passenger is then able to select the ride to view the details of the ride and are able to request for a ride with that user.		
Preconditions:	User has an account User has successfully logged into the account		
Postconditions:	A request is sent to the <i>user</i> who made the ride chosen by the <i>passenger</i> .		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	 Passenger navigates to the page to Select a Wander Ride System displays all available rides Passanger selects a ride System displays the information of the selected ride including: a. Start Location b. End Location c. Date & Time d. Number of Seats Available e. Recurring ride / One Time ride f. Type of ride (Personal Car / Taxi) Passenger clicks on the Request Ride Button 		

	System Records the Details in the database and sends a ride request to the <i>Driver</i>
Alternative Flows:	AF-S1: No Existing Rides 1. UI displays message "No available rides" 2. Use Case does not continue to step 3
Exceptions:	-
Includes:	The search list can be filtered on the basis of the destination of the ride or the time for which the ride is scheduled (Use Case ID 4.1)
Notes and Issues:	-

Use Case ID:	6.1		
Use Case Name:	Search & Request Ride (Filter Function)		
Created By:	Jarel Tan	Last Updated By:	Jarel Tan
Date Created:	15/02/2023	Date Last Updated:	15/02/2023

Actor:	Initiated by User (Passenger)		
Description:	User searches for available rides as a Passenger When on the page to select a Wander Ride, the system will display all available rides in the system The Passenger is able to filter the rides by their desired start and end location and the system will display rides that relevant to their filter specifications. Passenger is then able to select the ride to view the details of the ride and are able to request for a ride from that Driver.		
Preconditions:	User has an account User has successfully logged into the account		
Postconditions:	A request is sent to the <i>driver</i> who made the ride chosen by the <i>passenger</i> .		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	 Passenger navigates to the page to Select a Wander Ride System displays all available rides Passenger clicks on the filter button and is prompted to include all interested fields to filter by: a. Start Location b. End Locaiton c. Date & Time d. Type of Ride (Personal Car / Taxi) Passanger selects a ride 		

	 5. System displays the information of the selected ride including: a. Start Location b. End Location c. Date & Time d. Type of Ride (Personal Car / Taxi) 6. Passenger clicks on the Request Ride Button 7. System Records the Details in the database and sends a ride request to the <i>Driver</i>
Alternative Flows:	AF-S1: No Existing Rides 1. UI displays message "No available rides" 2. Use Case does not continue to step 4 AF-S2: No Existing Rides based on filter details 1. UI displays message "No available rides" 2. Use Case does not continue to step 4
Exceptions:	-
Includes:	The search list can be filtered on the basis of the destination of the ride, the time for which the ride is scheduled and the type of ride
Notes and Issues:	-

Use Case ID:	7.0		
Use Case Name:	Receive Passenger Request		
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan
Date Created:	07/02/2023	Date Last Updated:	07/02/2023

Actor:	Handled by <i>Driver</i>		
Description:	The <i>driver</i> receives a request made by the <i>passenger</i> to be a part of the ride scheduled, and inspects it		
Preconditions:	 The <i>driver</i> has scheduled a ride A <i>passenger</i> has made a request to be a part of the same ride 		
Postconditions:	The <i>passenger</i> is notified if their request is accepted, and then the <i>driver</i> is given the decision of either accepting or rejecting the request		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	 The <i>driver</i> receives a request from the <i>passenger</i> The <i>driver</i> goes through the passenger's details and either accepts or rejects the request within 5 minutes 		
Alternative Flows:	-		
Exceptions:	-		
Includes:	-		

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Use Case ID:	8.0			
Use Case Name:	Handle Passenger Request			
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan	
Date Created:	07/02/2023	Date Last Updated:	07/02/2023	

Actor:	Handled by <i>Driver</i>		
Description:	The <i>Driver</i> accepts or rejects a request made by the <i>passenger</i> to be a part of the ride scheduled		
Preconditions:	The <i>driver</i> received a request made by a <i>passenger</i> to be a part of the ride scheduled by the <i>driver</i>		
Postconditions:	The <i>Passenger</i> is notified if their request is accepted, and then a communication link is established between the <i>passenger</i> and the <i>driver</i>		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	 After inspecting the request, the <i>driver</i> either accepts or rejects the request If the request is accepted, a communication link is established between the <i>driver</i> and the <i>passenger</i> 		
Alternative Flows:			
Exceptions:	If the <i>driver</i> fails to respond to the request of the <i>passenger</i> , the request automatically gets declined		
Includes:	-		

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Use Case ID:	9.0			
Use Case Name:	Chat			
Created By:	Tan Wei Yuan	Last Updated By:	Tan Wei Yuan	
Date Created:	07/02/2023	Date Last Updated:	07/02/2023	

Actor:	Driver and Passenger		
Description:	To allow the <i>driver</i> to communicate with the passenger		
Preconditions:	 Driver must have accepted the ride request Ride confirmed between driver and passenger Conversation must be stored on a database 		
Postconditions:	-		
Priority:	Medium		
Frequency of Use:	Medium		
Flow of Events:	 A ride is confirmed between <i>driver</i> and <i>passenger</i> <i>Driver</i> and <i>passenger</i> use the chat window to coordinate pick up location 		
Alternative Flows:	-		
Exceptions:	-		

Includes:	-
Notes and Issues:	-

Use Case ID:	10.0			
Use Case Name:	Complete Ride			
Created By:	Tan Wei Yuan	Last Updated By:	Tan Wei Yuan	
Date Created:	07/02/2023	Date Last Updated:	07/02/2023	

Actor:	Driver and Passenger
Description:	Upon reaching the destination, the <i>driver</i> and <i>passenger</i> must acknowledge that the ride has completed
Preconditions:	Ride confirmed between passenger and driver End location reached
Postconditions:	 The ride status is changed to completed The carpoolers are prompted to give a rating to each other
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	 At the end location, the driver and the passenger are prompted to confirm the rides completion Once either parties confirm, the ride status is set to complete
Alternative Flows:	-
Exceptions:	-
Includes:	The carpoolers are prompted to give a rating to the passengers they shared a ride with
Notes and Issues:	-

Use Case ID:	11.0			
Use Case Name:	Taxi Availability			
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan	
Date Created:	21/02/2023	Date Last Updated:	21/02/2023	

Actor:	Initiated by User		
Description:	After a taxi ride created by the <i>user</i> has been confirmed, the <i>user</i> can get the information and location about all the taxis in a 200m radius from the starting point to help them with tracking down a taxi		
Preconditions:	 User has an account User has successfully logged into account User has created a taxi ride 		
Postconditions:	-		
Priority:	Medium		
Frequency of Use:	High		
Flow of Events:	 User clicks on the 'Taxi Availability' button under a taxi ride page User is given all the information related to all the taxis in a 200m radius from the starting point mentioned in the trip User can then track the taxi, which makes it easier for the user to catch it 		
Alternative Flows:	-		
Exceptions:	-		

Includes:	-
Notes and Issues:	-

Use Case ID:	12.0		
Use Case Name:	Carpark Avail	ability	
Created By:	Sethi Aryan	Last Updated By:	Sethi Aryan
Date Created:	21/02/2023	Date Last Updated:	21/02/2023

Actor:	Initiated by User
Description:	User is shown a list of all the carparks around Singapore and they can select a specific carpark and get information about it
Preconditions:	User has an account User has successfully logged into account
Postconditions:	-
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	 User clicks on the "Carpark Availability" Button User is shown a list of all the carparks in different areas around Singapore User can filter the list on the basis of location After selecting a specific carpark, the user can get all the information about the carpark and its location.
Alternative Flows:	-
Exceptions:	-
Includes:	-

Notes and Issues:	