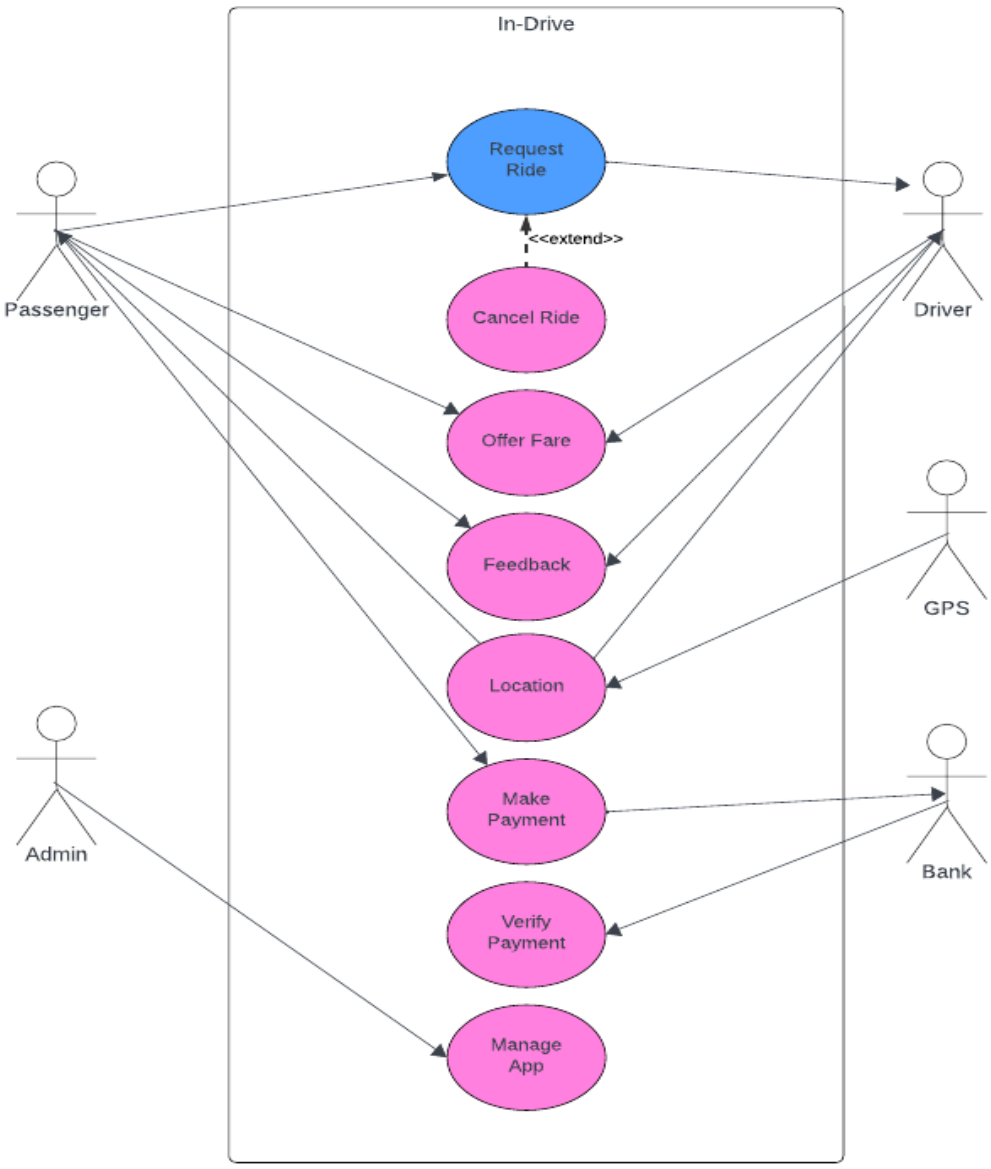
USECASE DIAGRAM



USECASE DESCRIPTION

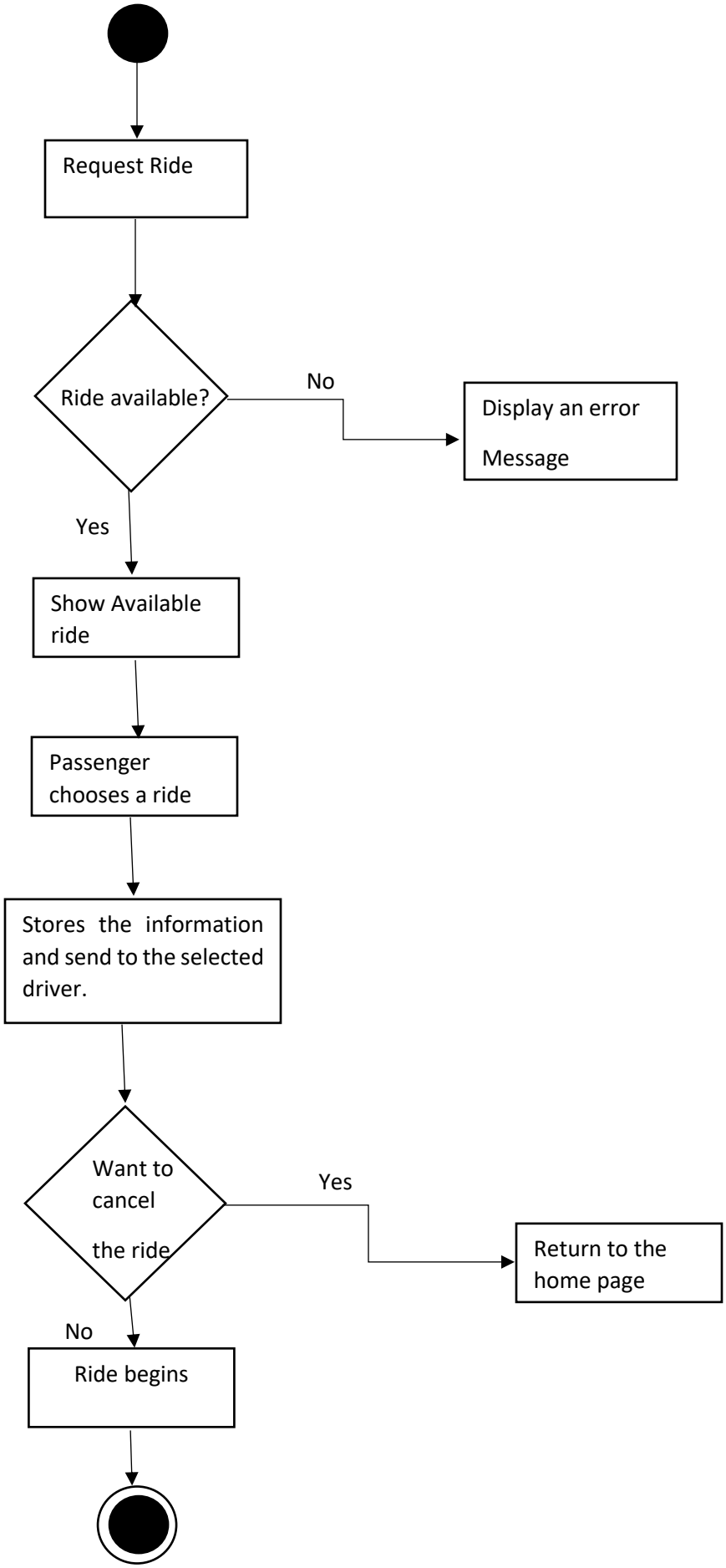
ID and Name	**UC-1 Request a Ride**	
Created By:	Dilawar and Team	Date Created:18/11/2023
Primary Actor:	Passenger	Secondary Actor: Driver
Description:	The Passenger requests a ride of his desired choice. The system will find a ride according to the passengers needs and will forward the request of passenger to the driver of the ride. The passenger can also cancel the ride if incase he changes his mind.	
Trigger	The passenger indicates that he wants a ride.	
PreConditions	PRE-1. Passenger's ID has been authenticated PRE-2. Passenger's location is valid and is inside the range of the app.	
PostConditions	POST1- Passenger's Request is stored in Indrive database. POST2- Passenger's Request is sent to driver.	
Normal Flow	**1.0 Request for a ride** 1- Passenger requests for his desired ride. 2- System shows the available rides related to the passenger's request. 3- Passenger chooses a ride. 4- System stores the information and sends a ride request to the selected driver.	
Alternative Flow	**1.1 Passenger Cancels the ride** 1- Passenger cancel the ride during the process. 2- The system returns back to it's home page. 3- The passenger can request for a new ride.	
Exception	**1.1.E1 No Rides are available** 1- The system displays error message that no rides are currently available. 2- System asks passenger if he wants to be notified when a ride is available in his location. 3- System asks passenger if he wants to schedule a ride for later. 4- System returns to home screen.	
Priority	High	
Frequency	Approximately 200 times a day	
Business Rules	BR-1	

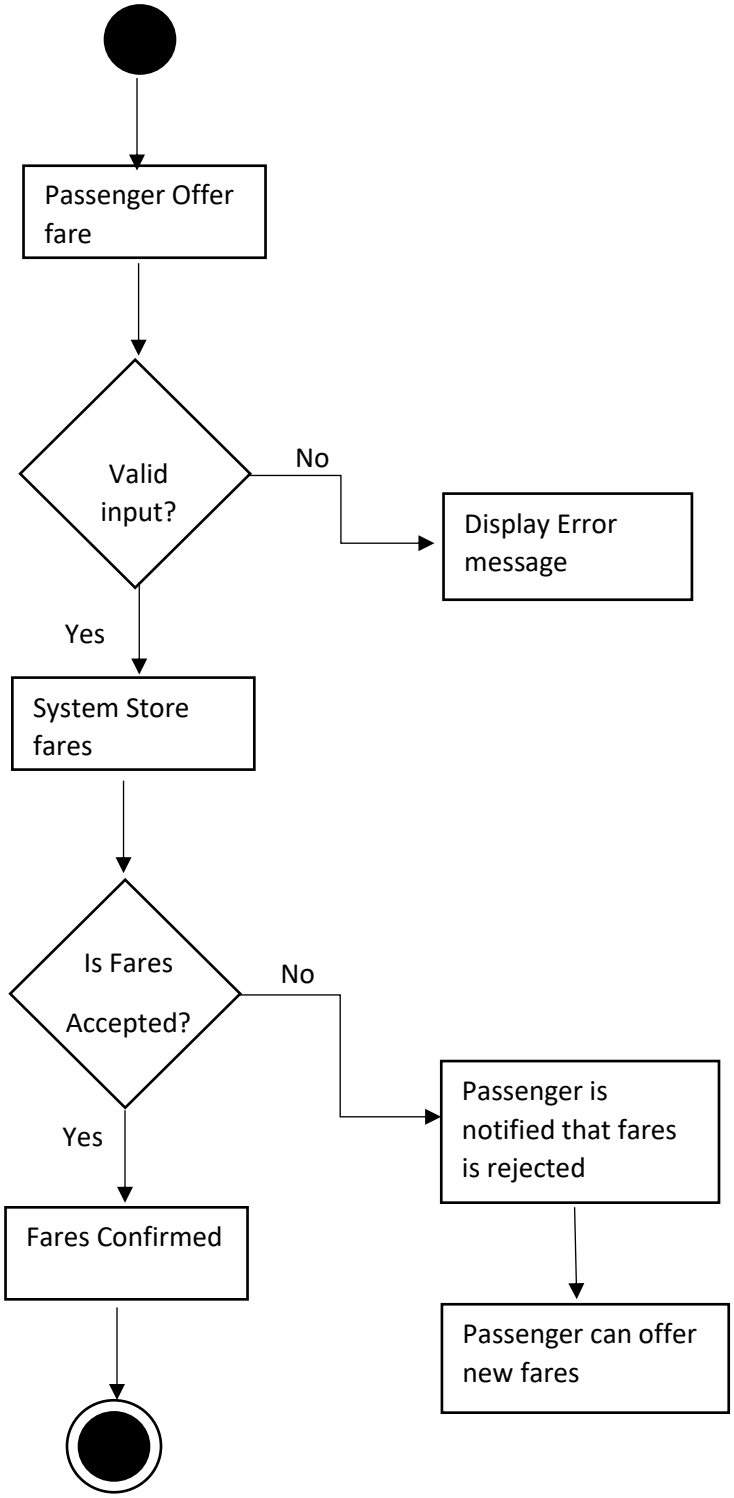
ID and Name	**UC-2 Offer a fare**
Created By:	Dilawar and Team Date Created:18/11/2023
Primary Actor:	Passenger Secondary Actor: Driver
Description:	The Passenger offers a fare of his own choice. The offered fare is stored in the system and is sent to the driver. If the fare is accepted by both driver and the passenger, the fare price will be confirmed, otherwise the ride will be automatically canceled.
Trigger	The passenger indicates he wants to offer a fare.
PreConditions	PRE-1. Passenger's ID has been authenticated. PRE-2. Passenger's location is valid and is inside the range of the app. PRE-3. Passenger has offered a valid fare.
PostConditions	POST1- Passenger's fare is stored in Indrive database. POST2- Passenger's fare is sent to driver. POST3- Passenger gets feedback from the driver.
Normal Flow	**2.0 Fare accepted by driver** 1- The fare offered by the passenger is accepted by the driver or the driver offers his own fare. 2- Fare is confirmed by negotiation.
Alternative Flow	**2.1 Fare is rejected by driver** 1- Either the driver rejects fare or the passenger rejects fare. 2-The ride is canceled. 3-Passenger will be asked to select another ride
Exception	**2.1.E1 Invalid fare** 1- The system displays error message that the fare offered is too high or too low. 2- The user will be asked to re-enter a new fare.
Priority	High
Frequency	Approximately 200 times a day
Business Rules	BR-2

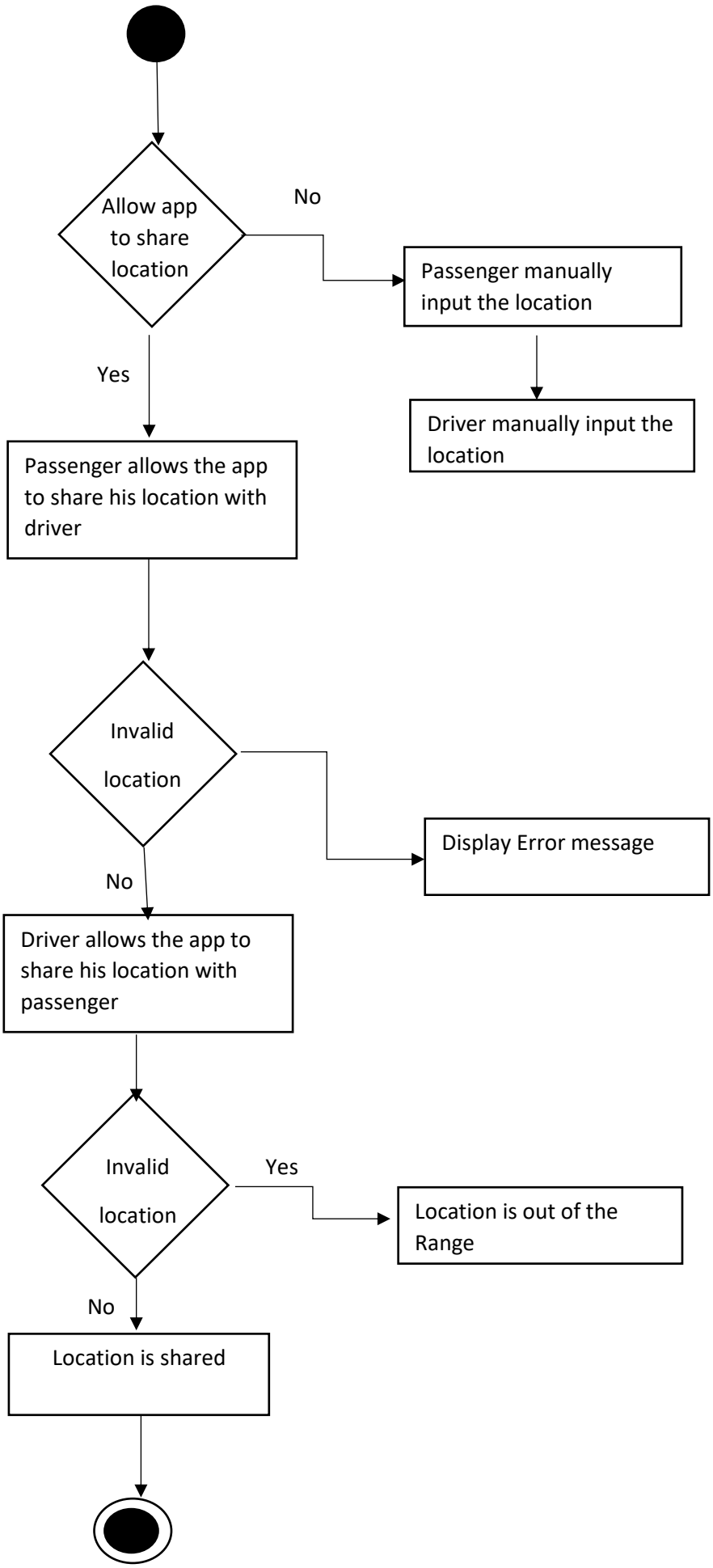
ID and Name	**UC-3 Send Location**
Created By:	Dilawar and Team Date Created:18/11/2023
Primary Actor:	GPS Secondary Actor: Passenger, Driver
Description:	When a passenger requests a ride, the GPS will automatically retrieve the exact location of passenger and will share the location with rider. Similarly, the driver's location (accuracy up to 5 meters) will be shared with the passenger.
Trigger	The passenger requests a ride.
PreConditions	PRE-1. Passenger's ID has been authenticated. PRE-2. Passenger's allows GPS to track his location.
PostConditions	POST1- Passenger's location is shared with driver. POST2- Driver's location is shared with passenger.
Normal Flow	**3.0 Accurate location is shared** 1- The Passenger allows the app to share his location with driver. 2- The Driver allows to share his location with passenger.
Alternative Flow	**3.1 Location is not shared** 1- Either the driver does not allow the app to share his location or either passenger does not allow to share his live location. 2- The passenger or driver will be asked to enter there location manually through address.
Exception	**3.1.E1 Invalid Location** 1- The location shared by the passenger is out of the range of app. 2- An error message will be displayed that this location is out of our range.
Priority	High
Frequency	Approximately 200 times a day
Business Rules	BR-3

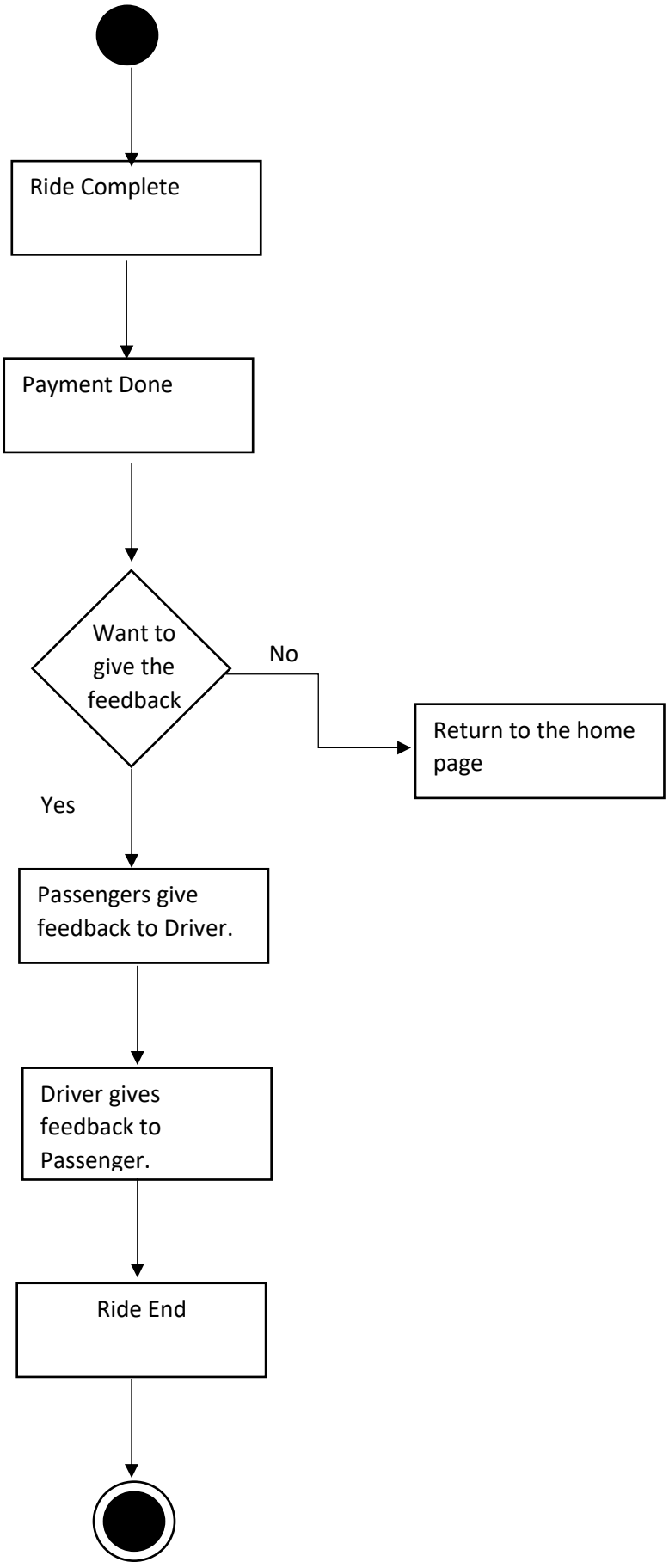
ID and Name	**UC-4 Give Feedback**	
Created By:	Dilawar and Team	Date Created:18/11/2023
Primary Actor:	Passenger, Driver	Secondary Actor: Passenger, Driver
Description:	After the ride is completed, the passenger and driver will be given the opportunity to rate each other and give feedback to each other	
Trigger	The ride is completed.	
PreConditions	PRE-1. The ride is completed PRE-2. Payment is done.	
PostConditions	POST1- feedback and ratings given to driver are stored in app's database. POST2- feedback and ratings given to passenger are stored in app's database.	
Normal Flow	**4.0 Feedback is posted** 1- The Passenger gives proper feedback to the driver. 2- The driver gives proper feedback to the passenger.	
Alternative Flow	**4.1 Refuse to give feedback** 1- Either the driver refuses to give feedback to passenger or either passenger refuses to give feedback to the driver. 2- The ride session will be ended and the system will go to the homepage.	
Exception	**4.1.E1 Feedback is given before completion of a ride.** 1- An error message will be displayed that feedback can only be given once a ride is completed.	
Priority	Low	
Frequency	Approximately 200 times a day	
Business Rules	BR-4	

ACTIVITY DIAGRAM




Passenger Offer fare
Valid input?
No
Display Error message
Yes
System Store fares
Is Fares Accepted?
No
Passenger is notified that fares is rejected
Yes
Fares Confirmed
Passenger can offer new fares


Allow app to share location
No
Passenger manually input the location
Driver manually input the location
Yes
Passenger allows the app to share his location with driver
Invalid location
Display Error message
No
Driver allows the app to share his location with passenger
Invalid location
Yes
Location is out of the Range
No
Location is shared


Ride Complete
Payment Done
Want to give the feedback
No
Return to the home page
Yes
Passengers give feedback to Driver.
Driver gives feedback to Passenger.
Ride End