

IT303 – SOFTWARE ENGINEERING

ASSIGNMENT 3

BUSINESS REQUIREMENTS

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Business Actors:

1. **Driver:** Users who offer rides
2. **Rider:** Users who request rides
3. **Administrator:** Person who manages the operation of the platform
4. **Auk:** System which pairs drivers with riders and vice versa. It also takes care of other things which are described in the business use cases.

Glossary:

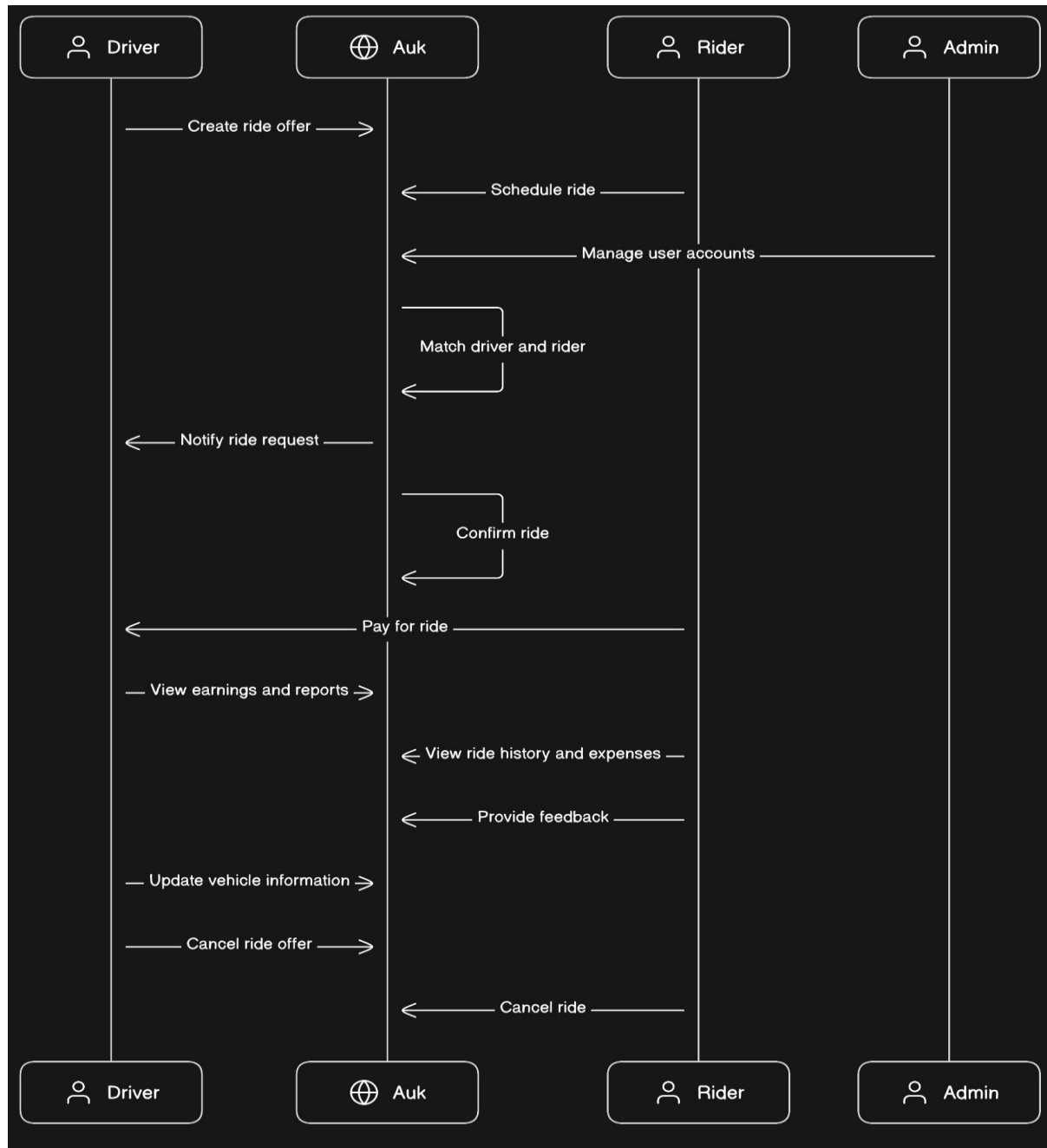
Term	Definition
Driver (Business actor)	Users who offer rides to transport passengers to their destinations.
Rider (Business actor)	Users who request rides to reach their desired destinations.
Car (Business object)	The vehicle used by drivers to transport riders to their destinations.
Administrator (Business actor)	The person responsible for overseeing the overall operation of the carpooling platform.
Auk (Business actor, Business object)	The system that pairs drivers with riders and vice versa

Business Use Cases:

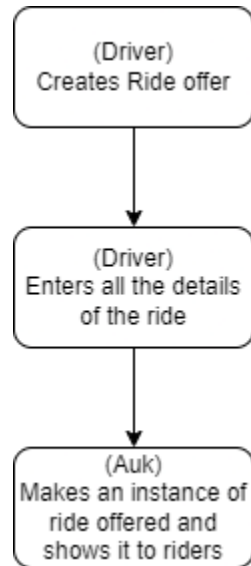
1. **Driver creates a ride offer:** Driver makes a ride offer, by specifying the destination, time of ride, duration of ride and the price wanted.
2. **Rider schedules rides:** Rider can schedule rides in advance with information like time of ride, expected price.
3. **Administrator manages user accounts:** The administrator can do operations like creation, edits, or deletions of user accounts available in the software. They also handle account related issues.
4. **Auk matches a driver with a rider:** Auk finds a suitable match between a driver offering a ride and a rider requesting a ride.
5. **Auk notifies driver of ride request:** When a rider requests a ride, Auk notifies the matches driver about the request.
6. **Auk confirms the ride:** If the driver confirms the ride, Auk notifies both the driver and rider about the confirmation.
7. **Rider pays for the ride:** Once the ride has been completed, the rider pays the driver for the service offered.
8. **Driver views earnings and reports:** Drivers can view their earnings till date and other reports about the rides they have completed.
9. **Rider views ride history and expenses:** Riders can view their ride history and expenses within the platform.
10. **Rider provides feedback:** Riders can provide feedback about their drivers, which will be stored in the system and help future riders
11. **Driver updates vehicle information:** Drivers can edit their vehicle information (like number of seats, model, etc.) or add a new vehicle.
12. **Driver cancels an offer:** Driver has the ability to cancel the ride offered by the Auk.

13. **Rider cancels an offer:** Rider has the ability to cancel a ride offered by the Auk.

Communication Diagram:



Activity Diagram:



An activity diagram for the business use case: Driver creates a rider offer
