

Uber SRS document

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Contents:

Introduction.....	
Functional requirements	3
Non-functional requirements	13
Behavior diagrams	17
- Use-case diagrams	17
- Activity diagrams	33
- Sequence diagrams (SSDs)	47
Structure diagrams	67
- Class diagrams	67
-Object diagrams	68
-Package diagrams	77
Database Specification (ERD , Table).....	77
System architecture	80

I. Functional requirements:

❖ Admin

ID	Description
A01	Edit profile system
A02	Make a system account
A03	Release system update
A04	Send user warning

User

❖ Home

H001	The system shall display some suggestion to the user
H002	The system should show you maps around you
H003	The system shall shows the user the last locations he searched for OR reached
H004	The user can search for any place he wants to access
H005	The system home page shall contains what the customer need rides Or delivery services
H006	The system home page shall contains what the customer need rides Or delivery services

H007	The system would have a some of saving methods such as (public transportation – share your journey – add one breakpoint – go with a bike)
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❖ Services

1. Ride

SR01	The rider system used to request a ride
SR02	The system should find and show the nearby available drivers to the rider
SR03	The nearest driver should be notified about the rider's requests
SR04	system display an estimated time of arrival for the driver heading to the pickup location
SR05	system should provide information about driver to rider including first name, vehicle type, and license plate number
SR06	when the rider arrives at the destination and exits the vehicle the trip ends
SR06	If The rider has a preferred route , it's helpful to talk through the directions
SR07	The system is used to enter the preferred destination anytime before or during the ride2

2. Truck

<u>ST01</u>	the system should connect shippers and carriers in the freight industry
<u>ST02</u>	system should allow shipper to select carrier according to its rate
<u>ST03</u>	system should allow shipper to select Truck according to good's weight and velum
<u>ST04</u>	system should allow shipper and carrier to track the location and status of the truck during transit and notify them if there is changes or delay
<u>ST05</u>	system should handle payment process between shipper and carrier by determine payment method and generate invoice

3. Public transport

<u>SPT01</u>	The system shall provide all public transport such as (trains , bus, etc) and private transport companies such as(go bus , eg bus , etc)
<u>SPT02</u>	The system shall displays all trips with their dates and prices and degree <u>Not:</u> the price varies according to the degree
<u>SPT03</u>	The system supports option to go back or go only
<u>SPT04</u>	The system supports booking more than person for the same account

SPr05

The system displays to the passengers during the trips the current location and remaining time

4. Bike

<u>SB01</u>	System shall display some rules to the user
<u>SB02</u>	The user can reserve a bike for a duration of time
<u>SB03</u>	System shall display the available bikes for user and some details about bikes
<u>SB04</u>	System shall identify each bike using specific ID
<u>SB05</u>	User can reserve by entering some details (name, age....)
<u>SB06</u>	If the person exceeds the bike rental hours, the rental price will be according to the bike rental price
<u>SB07</u>	When the person comes with the bike, the system will cancel the reservation of the bike and it will be ready for rent, and the person must pay the bike rent to the system according to the number of rental hours

5. Scooter

<u>SM01</u>	System shall provide a moto service
<u>SM02</u>	Moto can work in delivering passengers or orders
<u>SM03</u>	System shall provides the service of renting a moto with or without a driver

<u>SM04</u>	Renting without a driver , system shall calculates the cost less than with a driver
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6. Eats

➤ Order

<u>SEO1</u>	User can make or cancel orders
<u>SEO2</u>	User shall enter order info such as (address , mobile phone , etc)
<u>SEO3</u>	User can follow the order to where it arrived

➤ Basket

<u>SEB1</u>	Basket contains all selected products
<u>SEB2</u>	System shall calculate price automatically
<u>SEB3</u>	User can add or delete product
<u>SEB4</u>	User can choose the payment method in the basket

➤ Browse

<u>SEB1</u>	User can browse products
<u>SEB2</u>	System shall contains a different stores
<u>SEB3</u>	User can choose between stores
<u>SEB4</u>	System shall displays the price and details of each product and the system owner contract whit them

❖ Account

1. Help

AH01	system shall show options for help and each option has its topics
AH02	The system should provide users with a way to contact customer support if they have any issues or questions, and should also allow them to provide feedback and ratings on their ride experience
AH03	system shall show all topics that user may have a problem with and show the solution
AH04	system shall has support messages option

2. Wallet

AW01	System should allow customer to add funds in the wallet
AW02	After trip ended The fare is automatically calculated and charged to the payment method that has been linked to the rider's account
AW03	The option of payment method must be selected before a ride is requested
AW04	System should allow customer to use promo code and referral code

3. Trips

<u>AT01</u>	The system display all current trips and completed trips
<u>AT02</u>	The system display all info about trips
<u>AT03</u>	The user can choose between the trips

4. Settings

<u>AS001</u>	The system should give the user the right to choose whether to add a home address or not
<u>AS002</u>	The system should give the user the right to choose whether to add a work address or not
<u>AS003</u>	The system should give the user the right to choose whether to set up a family profile or not
<u>AS004</u>	The system should give the user the right to choose whether to change or add a email or not
<u>AS005</u>	The system should give the user the right to choose whether to change password or not

5. Earn by driving OR delivering

AE01	<p>If the method of payment is electronic and service is (ride or truck or Public transport or scooter with driver) then the system shall transfer the money to account of driver (or Public transport organization) , after adding a percentage to its account</p> <p>Note: if the method of payment is cash and then the driver or (or Public transport organization) at the end of month pays the percentage in the branch</p>
AE02	<p>If the method of payment is electronic and service is (bike or scooter without driver) then the system shall transfer the money to account of owner (owner of scooter or bike), after adding a percentage to its account</p> <p>Note: if the method of payment is cash and then the branch shall at the end of month pays the percentage to owner (owner of scooter or bike)</p>
AE03	<p>If order ,After confirmed order , the system shall transfer the money to account of store , after adding a percentage to its account</p> <p>Note: if the method of payment is cash and then the branch shall at the end of month pays the percentage to owner (owner of store)</p>

6. Rate

<u>AR01</u>	After a trip ends the system will ask the rider to rate the driver from 1 to 5 Stars
<u>AR02</u>	System is also asked the driver to rate riders
<u>AR03</u>	This feedback system is designed to foster a community of respect and accountability for everyone

7. View info and Update

<u>AVU1</u>	All users can view his info such as (full name – number of mobile – etc)
<u>AVU2</u>	All users can update his info
<u>AVU3</u>	When updating system shall requires user to enter password for verification
<u>AVU4</u>	In the update , the user can add another number

❖ Sign in

<u>SI001</u>	User shall sign in by google email or number of mobile
<u>SI002</u>	if user not have an account ,he can create an new account
<u>SI003</u>	When user creating a new account system shall send to user SMS to complete creation

<u>SI004</u>	When user creating a new account system request form user some info such as (full name – age – etc ...)
<u>SI005</u>	If user forget password, he can reset it by sending the system a verification SMS

❖ Sign out

<u>SO001</u>	The user can sign out
<u>SO002</u>	After sign out the user can sign in by another account or some account

II. Non-functional requirements:

1. Look-and-feel REQs

LF01	The system should have a white background and icons should have different color
LF02	The system shall be attractive to all age groups over 18 years old
LF03	The System should have user friendly-interface
LF04	The system shall not use a exciting sounds.

2. Usability & Humanity REQs

UH01	The product shall be easy to use on the first attempt by a member of the public without training
UH02	The system should be possible to use the system to pay in different Currencies
UH03	90% of the general population should be able to place an order from the web interface within 5 minutes, & 90% of the elderly users should be able to place an order from the web interface within 10 minutes
UH04	The System should be available

3. Performance REQs

<u>Pr001</u>	system is safe and rider can share his trip with another
<u>Pr002</u>	Customer can find nearest driver in 10 seconds of his request
<u>Pr003</u>	Many driver can be available of customer's area
<u>Pr004</u>	system should calculate accurately the fair for each ride according to distance and time

4. Operational & Environmental REQs

<u>EO01</u>	Device that download uber application should have sufficient storage memory and processing power
<u>EO02</u>	The Uber application requires a compatible operating system such as Android or iOS
<u>EO03</u>	internet connection is required for the Uber app
<u>EO04</u>	Uber application required valid payment method such as valid credit card
<u>EO05</u>	The System shall be compatible with all modern browsers

5. Maintainability & Support REQs

<u>MS01</u>	Writing clean and understandable code.
<u>MS02</u>	The system shall be able to be modified to cope with a new class of user.

<u>MS03</u>	Comprehensive testing is essential for ensuring that changes made to the code do not change existing functionality.
<u>MS04</u>	Code that is optimized for performance can be easier to maintain in the long run.

6. Cultural REQs

<u>Cu01</u>	system should be a seamless and user-friendly experience for both drivers and riders, regardless of their cultural background or language. This may include intuitive navigation, clear instructions, and support for multiple languages.
<u>Cu02</u>	the system should be accessible to everyone, regardless of physical abilities. This may include providing vehicles with wheelchair accessibility or allowing riders to specify their accessibility needs in advance.
<u>Cu03</u>	the system should strive to minimize its environmental impact by promoting the use of low-emission vehicles, implementing eco-friendly practices, and partnering with other organizations to support sustainability initiatives.
<u>Cu04</u>	the system should be sensitive to the cultural backgrounds and beliefs of its users. This may include providing training for drivers and riders on

cultural norms and customs, as well as implementing policies that promote diversity and inclusion.

7. Legal REQs

Le01	Your access and use of the Services constitutes your agreement to be bound by these Terms, which establishes a contractual relationship between you and system. If you do not agree to these Terms, you may not access or use the Services. These Terms expressly supersede prior agreements or arrangements with you. system may immediately terminate these Terms or any Services with respect to you, or generally cease offering or deny access to the Services or any portion thereof, at any time for any reason.
Le02	Supplemental terms may apply to certain Services, such as policies for a particular event, activity or promotion, and such supplemental terms will be disclosed to you in connection with the applicable Services. Supplemental terms are in addition to, and shall be deemed a part of, the Terms for the purposes of the applicable Services. Supplemental terms shall prevail over these Terms in the event of a conflict with respect to the applicable Services
Le03	system may amend the Terms related to the Services from time to time. Amendments will be effective upon system's posting of such updated Terms at this location or the amended policies or supplemental

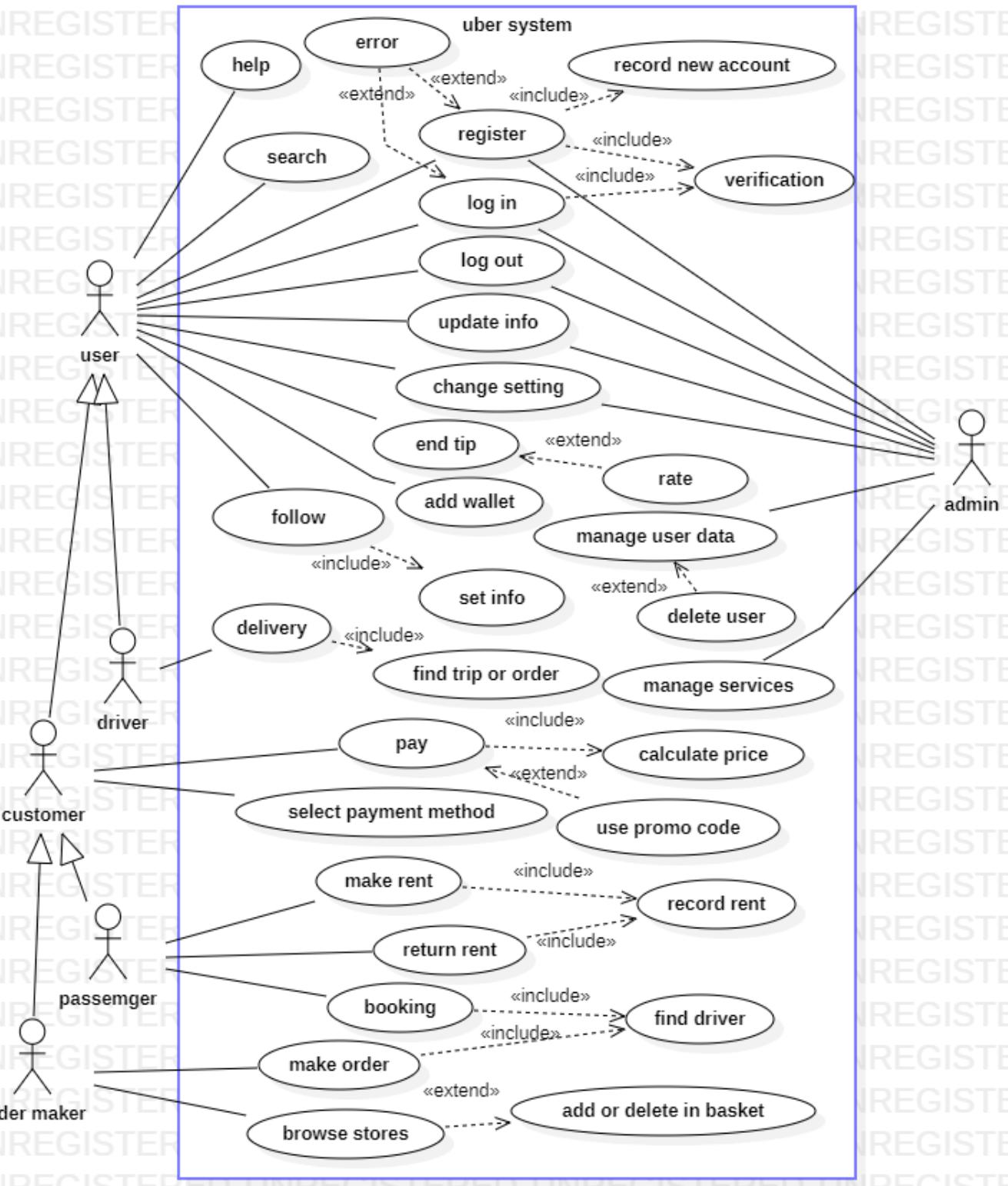
terms on the applicable Service. Your continued access or use of the Services after such posting constitutes your consent to be bound by the Terms, as amended

8. Security REQs

<u>Sec01</u>	System should require form driver to log in with a strong password to prevent unauthorized from accessing their accounts
<u>Sec02</u>	system should request only the necessary permissions for accessing the device's features, such as GPS, camera, and microphone to ensure that drivers are not sharing unnecessary personal data
<u>Sec03</u>	System shall notify customer when any suspicious activity by unauthorized such as attempt to login or request from customer account
<u>Sec04</u>	Data between Uber app and server should be encrypted to prevent unauthorized form accessing sensitive information
<u>Sec06</u>	The app should include safety and security features such as emergency contacts, driver identification, and a panic button.

III. Behavior Diagrams

a) Use-case diagram



Use-case scenarios

Scenario:1

Name	Manage user data
ID	US1
Initiator	Admin
Goal	Manage and editing user data
Pre-co.	Admin log in
Post-co.	Managed or editing data
Main s.s	1. Admin see all users info 2. Admin can edit this info (delete user) Extensions non

Scenario:2

Name	Manage services
ID	US2
Initiator	Admin
Goal	Manage and editing services

Pre-co.	Admin log in
Post-co.	Managed or editing data
Main s.s	<p>3.Admin see all services</p> <p>4.Admin can edit (add/delete/update) service</p> <p>Extensions non</p>

Scenario:3

Name	Log in
ID	UC3
Initiator	User / admin
Goal	Start to use the system
Pre-co.	Use open app or browse website
Post-co.	User / admin can use the system
Main s.s	<p>1. User/admin open app or browses website</p> <p>2. User/admin enters info</p> <p>3. System verification to info</p> <p>4. User/admin can use the system</p> <p>Extensions</p> <p>3.a invalid info</p>

	3.a.1 message error
	3.a.2 user/admin re-enter info

Scenario:4

Name	Change setting “update profile”
ID	UC4
Initiator	User / admin
Goal	Editing setting
Pre-co.	User/admin can log in the system
Post-co.	The setting changed
Main s.s	<p>1. The User/admin go to setting 2. The User/admin click changes 3. User/admin make changes 4. User/admin clicks done button 5. The system requires verification 6. The User/admin enters password 7. verification 8. Change completed</p> <p>Extensions</p> <p>5.a invalid password</p>

	5.a.1 message error
	5.a.2 the user/admin re-enter password

Scenario:5

Name	Help me
ID	US5
Initiator	User use help
Goal	Help user to solve problem
Pre-co.	There is problem
Post-co.	Solve problem
Main s.s	<ul style="list-style-type: none"> 1. User is having a problem 2. User click help bouton 3. System display options 4. User select option 5. System requires problem details 6. User enters details 7. System suggest solutions 8. User use any solution <p>Extensions non</p>

Scenario:6

Name	Add wallet
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ID	US6
Initiator	user
Goal	Add wallet for pays electronic
Pre-co.	The user had a bank account
Post-co.	Wallet is added , and use can pay electronic
Main s.s	<p>1. The user click add wallet 2. System require wallet data 3. User enters wallet data 4. System verification</p> <p>Extensions</p> <p>3.a Wrong info 3.a.1 message error 3.a.2 user r-enter data</p>

Scenario:7

Name	Rate / End trip
ID	US7
Initiator	User
Goal	Customer rates driver and driver rates customer

Pre-co.	Trip is ended
Post-co.	User has been rated by another user from 1 to 5
Main s.s	<p>1. User end trip 2. System ask customer to rating driver 3. Passenger rates driver (1:5) 4. System record rating 5. And also driver rating passenger</p> <p>Extensions non</p>

Scenario:8

Name	Delivery / find driver
ID	US8
Initiator	Driver delivery / System find driver
Goal	Delivery of an order , passenger or load
Pre-co.	Make order or book
Post-co.	The order , passenger or load has arrived and the driver is free
Main s.s	<p>1. System request to driver to delivery trip or order or load 2. Driver accept or not 3. If user accept system display trip info 4. Driver communicate with customer</p>

5. Drier start trip

Extensions

2.a driver don't accept

2.a.1 system request to another driver

Scenario:9

Name	Follow / set time and location
ID	US9
Initiator	Customer follow /System set time and location
Goal	Follow time and location of trips or orders or loads
Pre-co.	Start trip or make order
Post-co.	See order or trip location and time
Main s.s	1. The customer click to follow trip 2. System display maps 3. System calculate time based on speed and Distance Extensions non

Scenario:10

Name	Select payment method
ID	US10
Initiator	Customer
Goal	Add payment method
Pre-co.	booking or making order
Post-co.	The payment method is selected (cash/electronic)
Main s.s	<p>1.Customer clicks select payment method 2.System display cash or electronic 3.Customer selected cash or electronic 4.Customer pays</p> <p>Extensions</p> <p>3.a customer select electronic but hadn't wallet</p> <p>3.a.1 suggest add wallet</p> <p>3.a.2 only cash</p>

Scenario:11

Name	pay
ID	US11
Initiator	Customer
Goal	Pay
Pre-co.	Payment method selected (electronic)
Post-co.	fare is pay
Main s.s	<ol style="list-style-type: none">1. Click to pay2. System require PIN3. Customer entered PIN4. Verification5. Pay completed <p>Extensions</p> <ol style="list-style-type: none">3.a invalid PIN3.a.1 message error3.a.2 customer re-enter PIN4.a not enough balance4.a.1 message error4.a.2 recharge wallet4.a.3 pay cash

Scenario:12

Name	Make rent
ID	US12
Initiator	Passenger
Goal	renting bike or scooter
Pre-co.	Noe
Post-co.	User haver a bike or scooter for same hours and this bike or scooter not available now
Main s.s	<ol style="list-style-type: none">1. The user clicks rent2. User select a rent6. User enter rent info(time etc)7. User select payment method8. User clicks confirm button9. System confirms10. System display details <p>Extensions non</p>

Scenario:13

Name	Return rent
ID	US13
Initiator	Passenger
Goal	Return bike or scooter after end renting
Pre-co.	Make rent
Post-co.	Bike or scooter is available
Main s.s	<ol style="list-style-type: none">1. User request return rent2. The storekeeper checks for damaged3. Storekeeper send damage to system as(..%)4. System add a additional fare if damaged5. System record a scooter (or bike) available <p>Extensions non</p>

Scenario:14

Name	Browse / make order
ID	US014
Initiator	Order maker
Goal	Browse store and make any order

Pre-co.	Noe
Post-co.	User make any order form any store and this order is delivering
Main s.s	<p>1. Order maker select store</p> <p>2. Order maker browse store</p> <p>3. Order maker add or delete in basket</p> <p>4. System calculate price</p> <p>5. Order maker select payment method</p> <p>6. Order maker pay</p> <p>7. Order maker confirm</p> <p>8. System find driver</p> <p>9. System display order details (driver , price etc)</p> <p>10. Order maker and driver communicate</p> <p>Extensions non</p>

Scenario:15

Name	Booking
ID	US15
Initiator	Passenger
Goal	Mobility and loading
Pre-co.	non

Post-co.	Booked car , truck or train
Main s.s	<ol style="list-style-type: none"> 1. The user clicks booking button 2. System displays all available 3. User select (train ticket, truck ,etc) 4. User select payment method 5. User clicks confirm button 6. System confirms 7. System display details <p>Extensions non</p>

Scenario:16

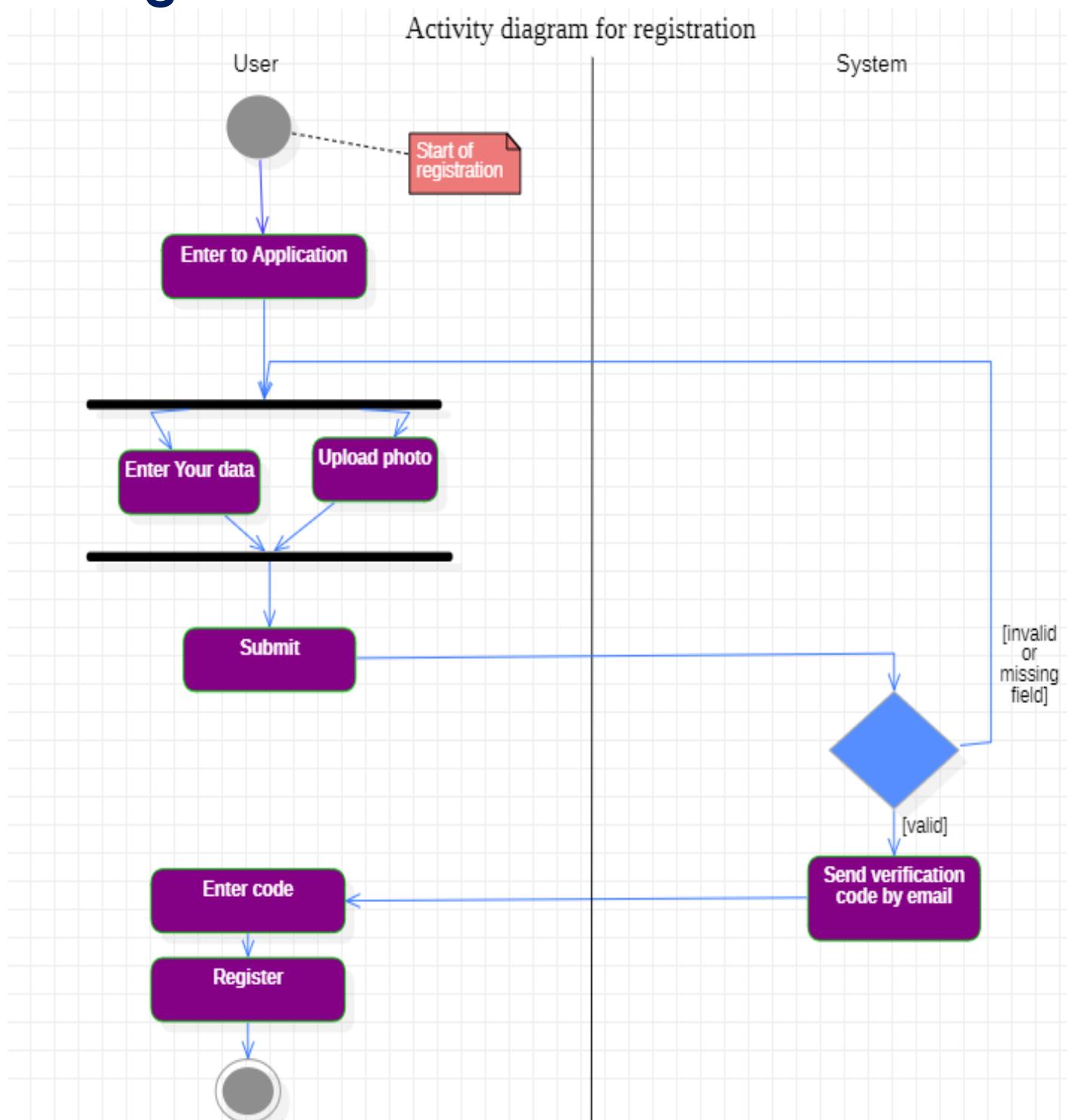
Name	Calculate price and pay
ID	US016
Initiator	System
Goal	Calculate fare or order price and pay
Pre-co.	Make order or booking
Post-co.	Price calculate and pay
Main s.s	<ol style="list-style-type: none"> 1. System have a algorithms to calculate price 2. System calculate Percentage for himself 3. System Transfer Balance driver account <p>Extensions non</p>

Scenario:17

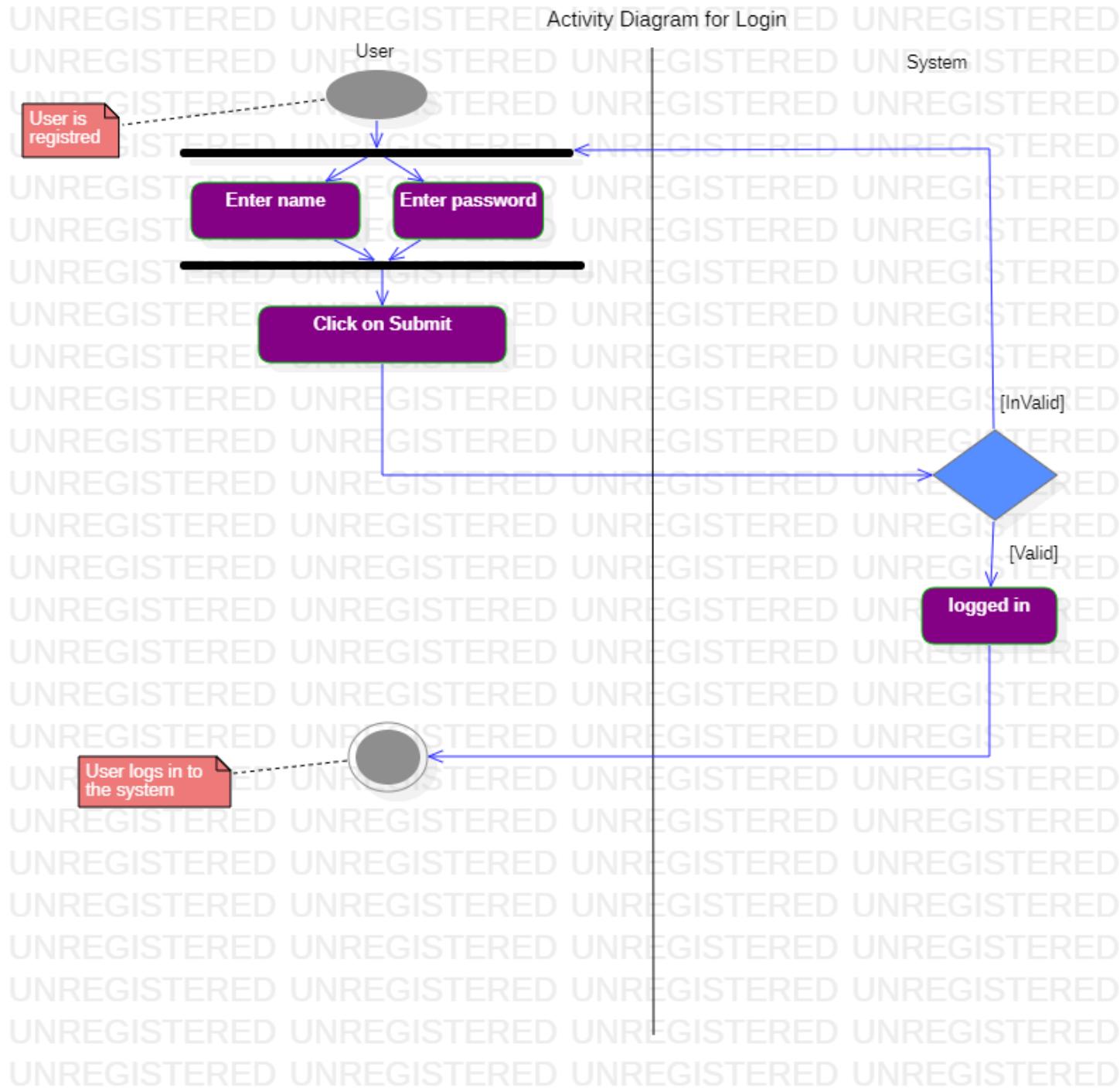
Name	search
ID	US017
Initiator	user
Goal	Search to any palace
Pre-co.	Non
Post-co.	User searched to any palace and seen all available drive and price or search in stores
Main s.s	<ol style="list-style-type: none">1. User clicks search2. User enter any palace or store3. System display all available driver and price4. System display all stores <p>Extensions non</p>

b) Activity diagram

1. Registration

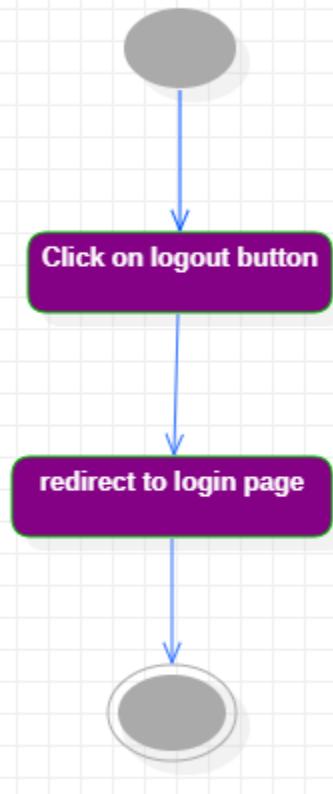


2. Log in

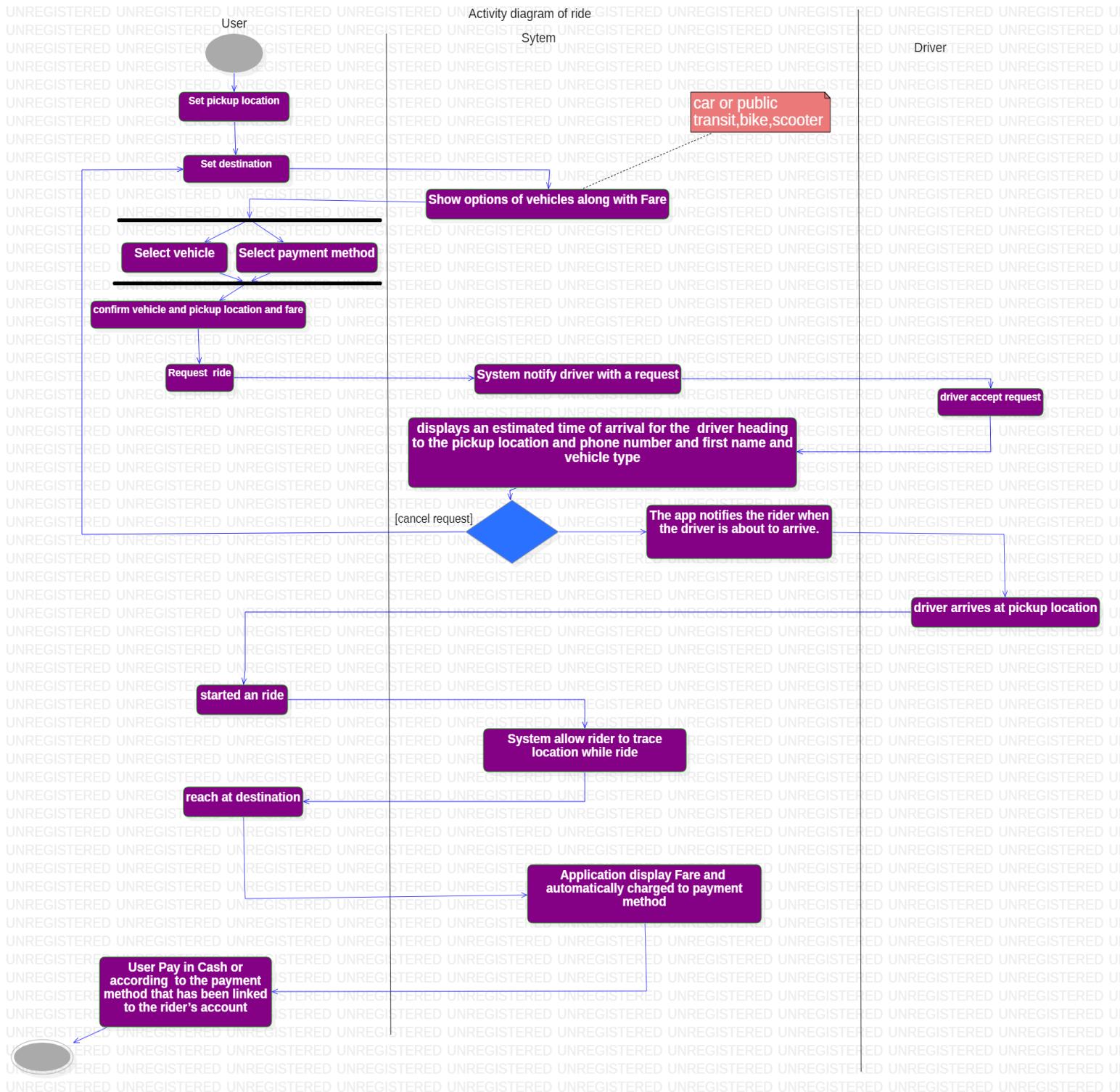


3. Log out

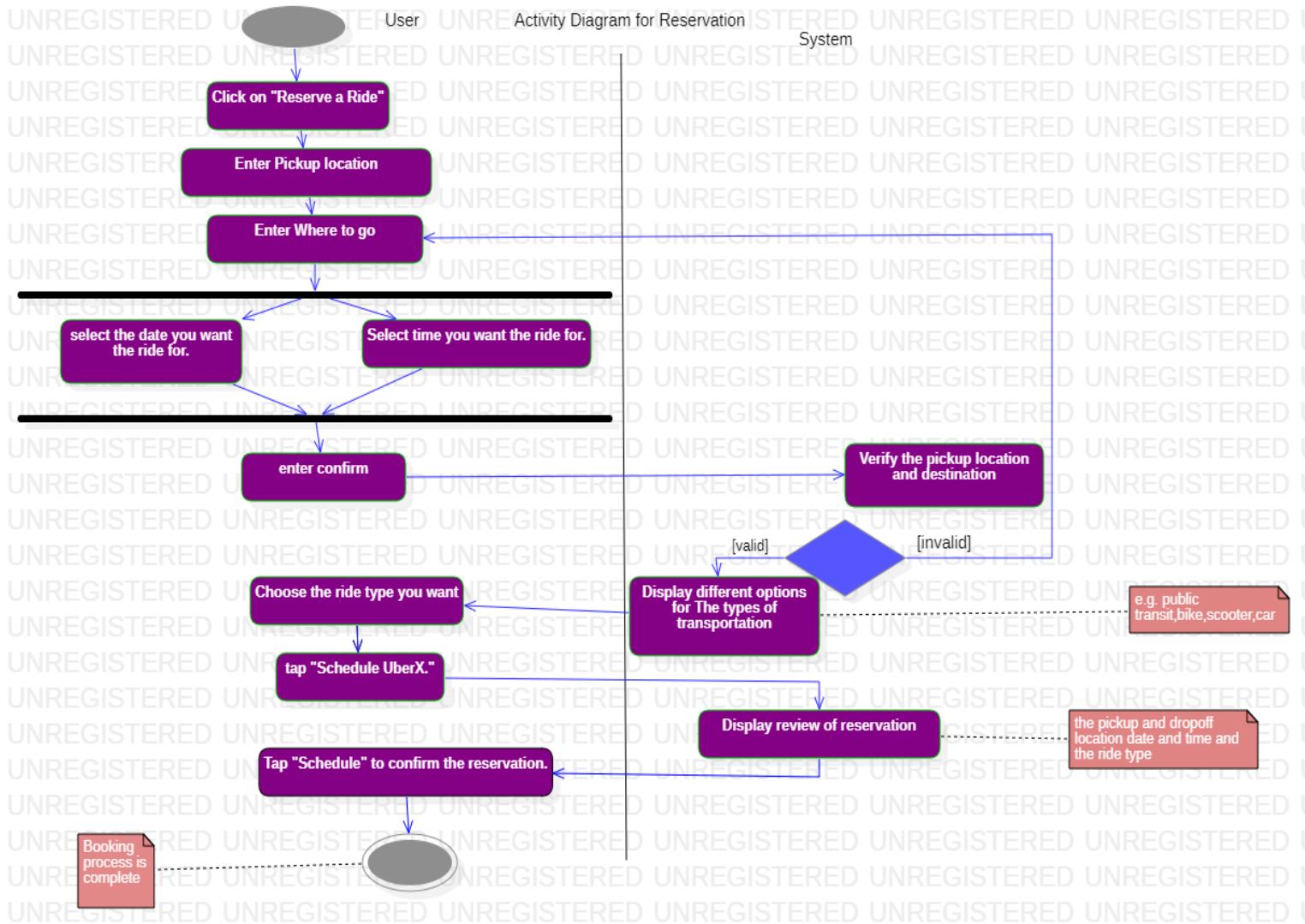
Activity Diagram for Logout



4. Ride



5. Booking

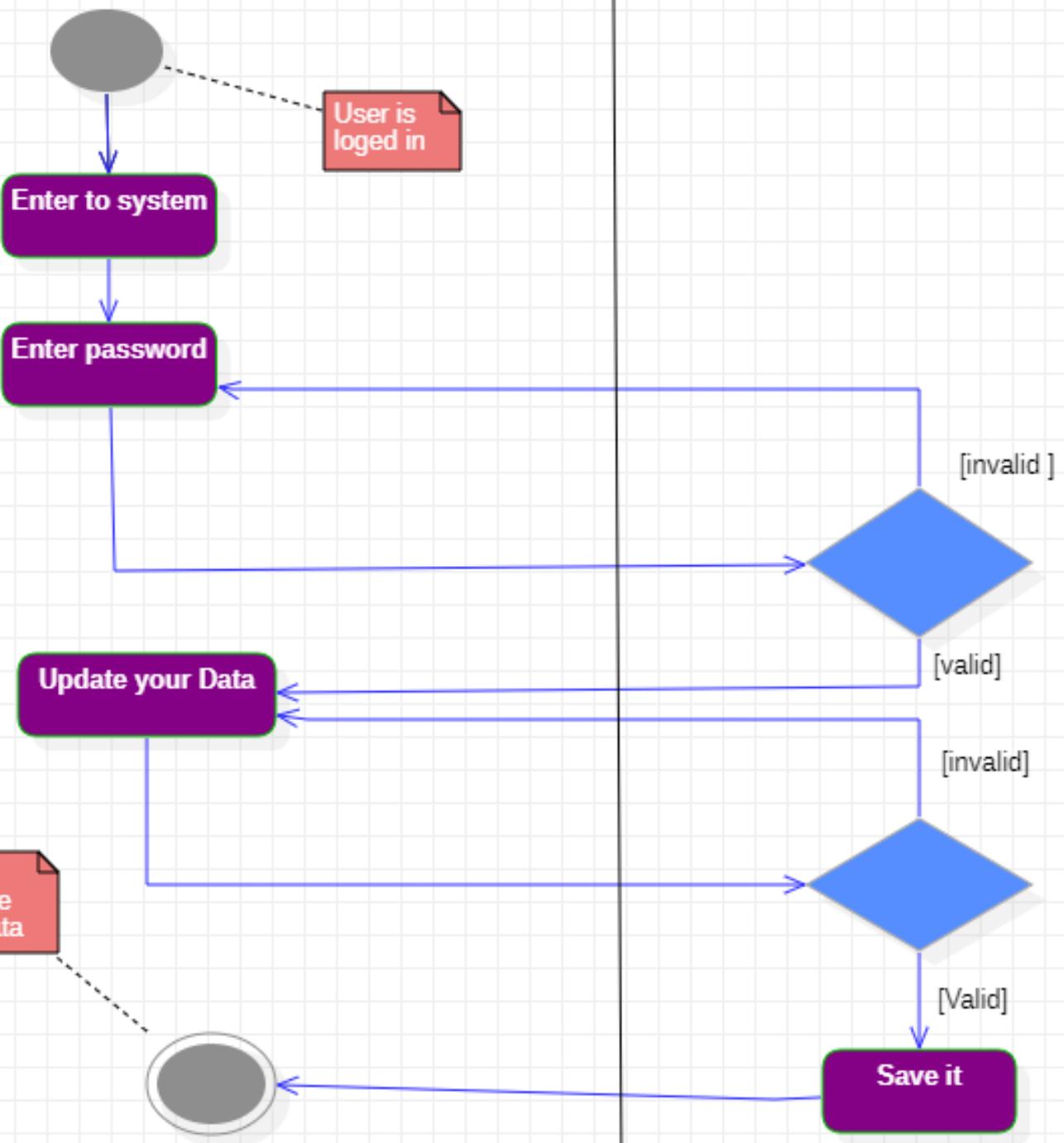


6. Update

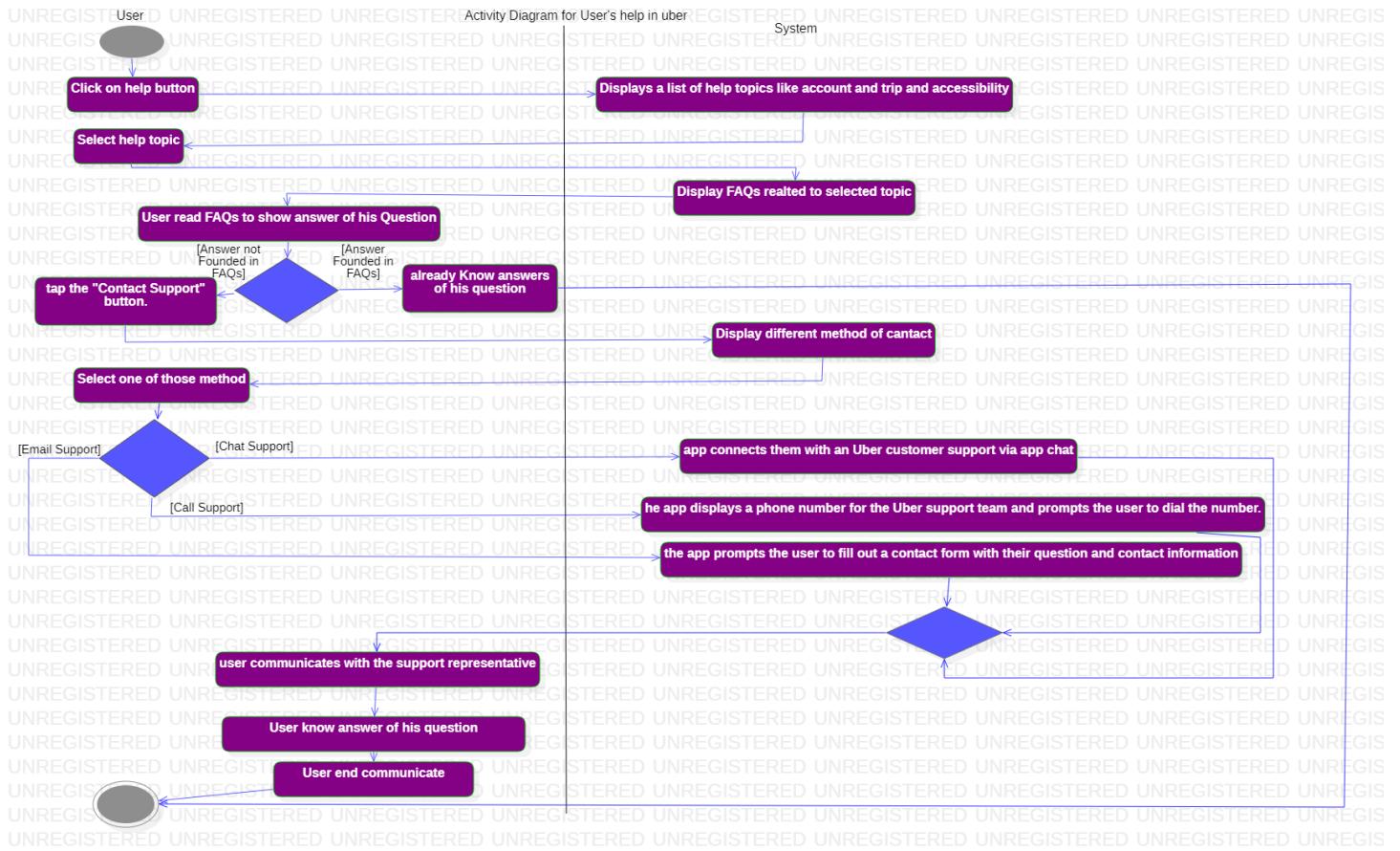
Activity Diagram for Update user'data

User

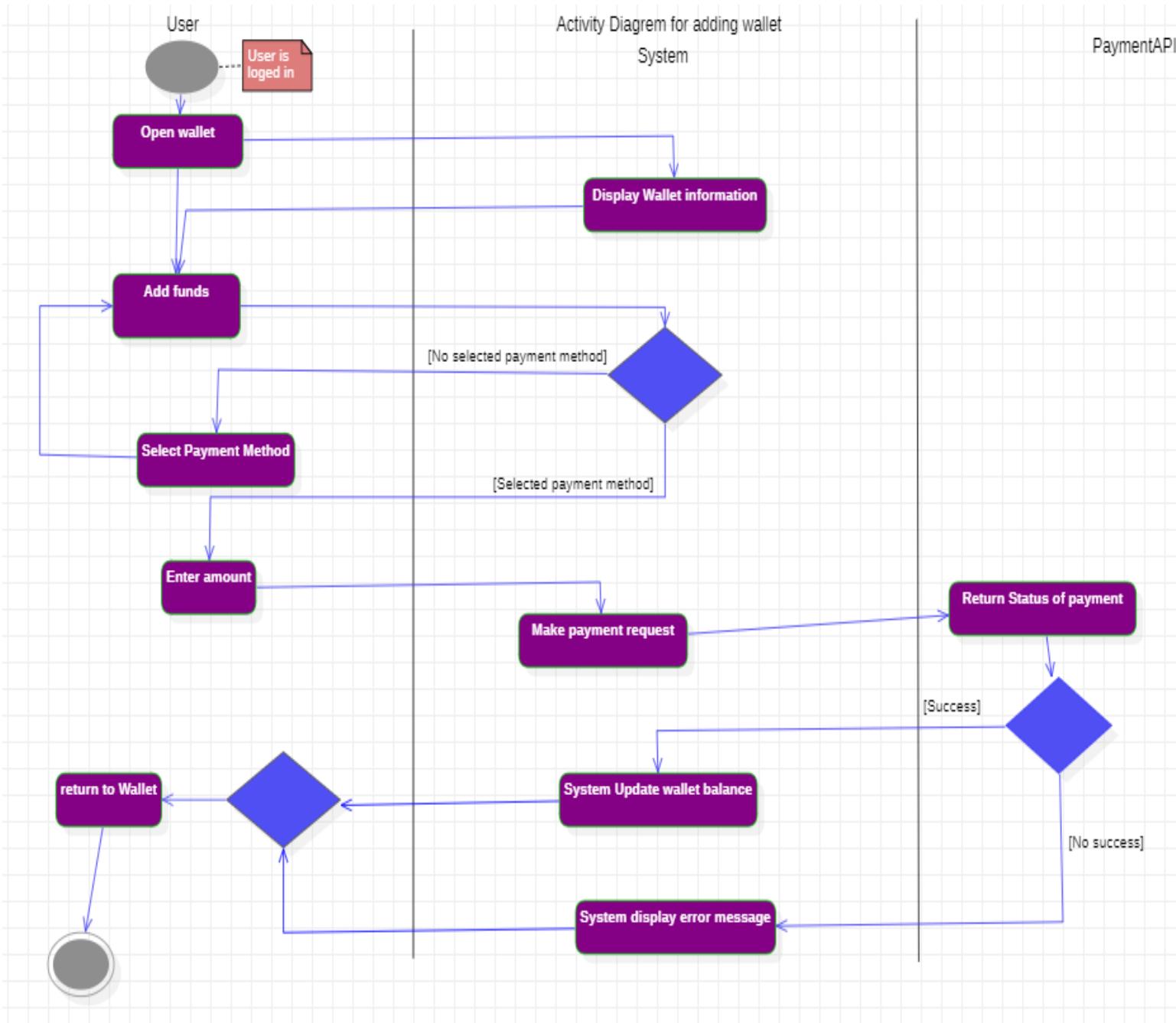
System



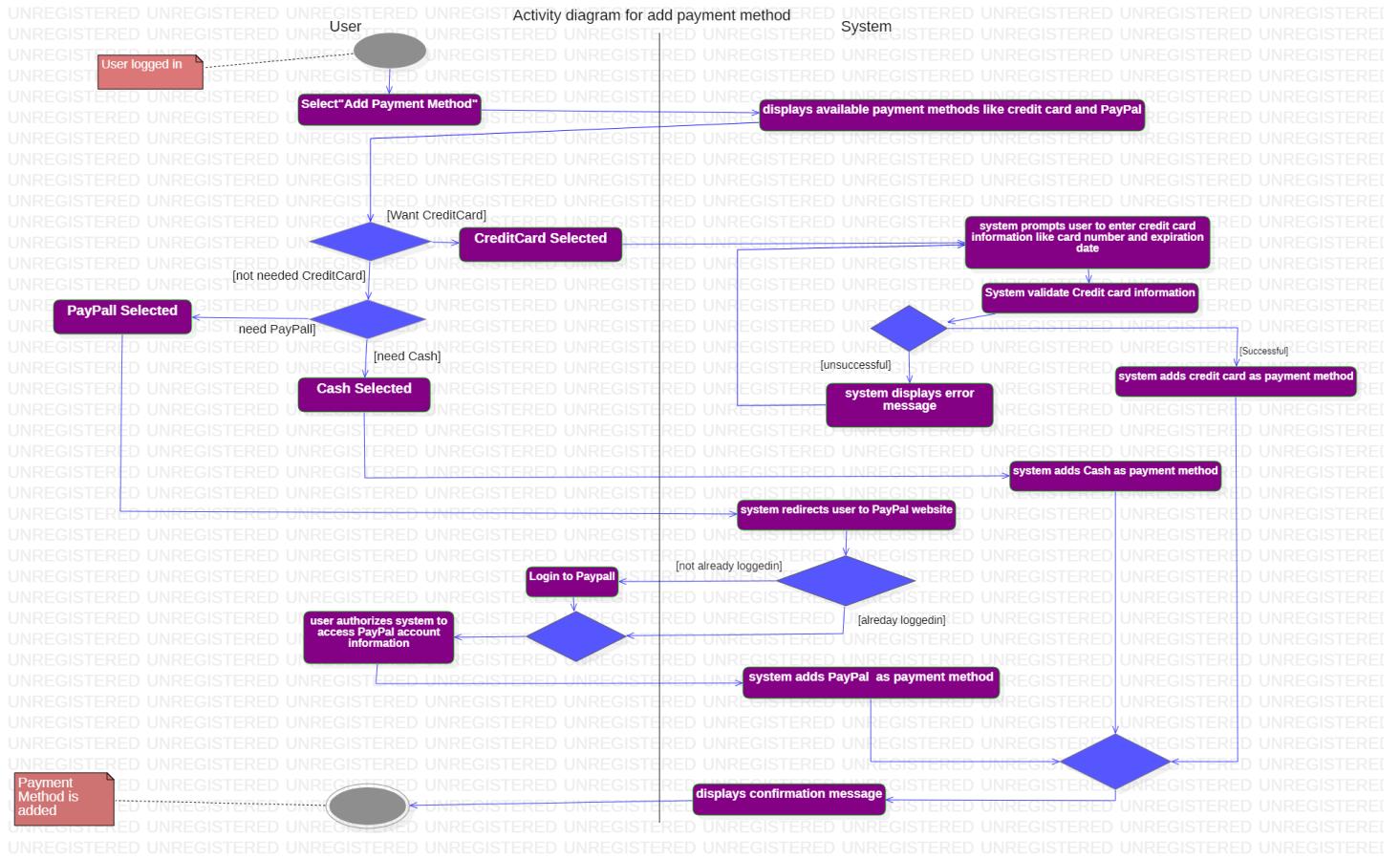
7. Help



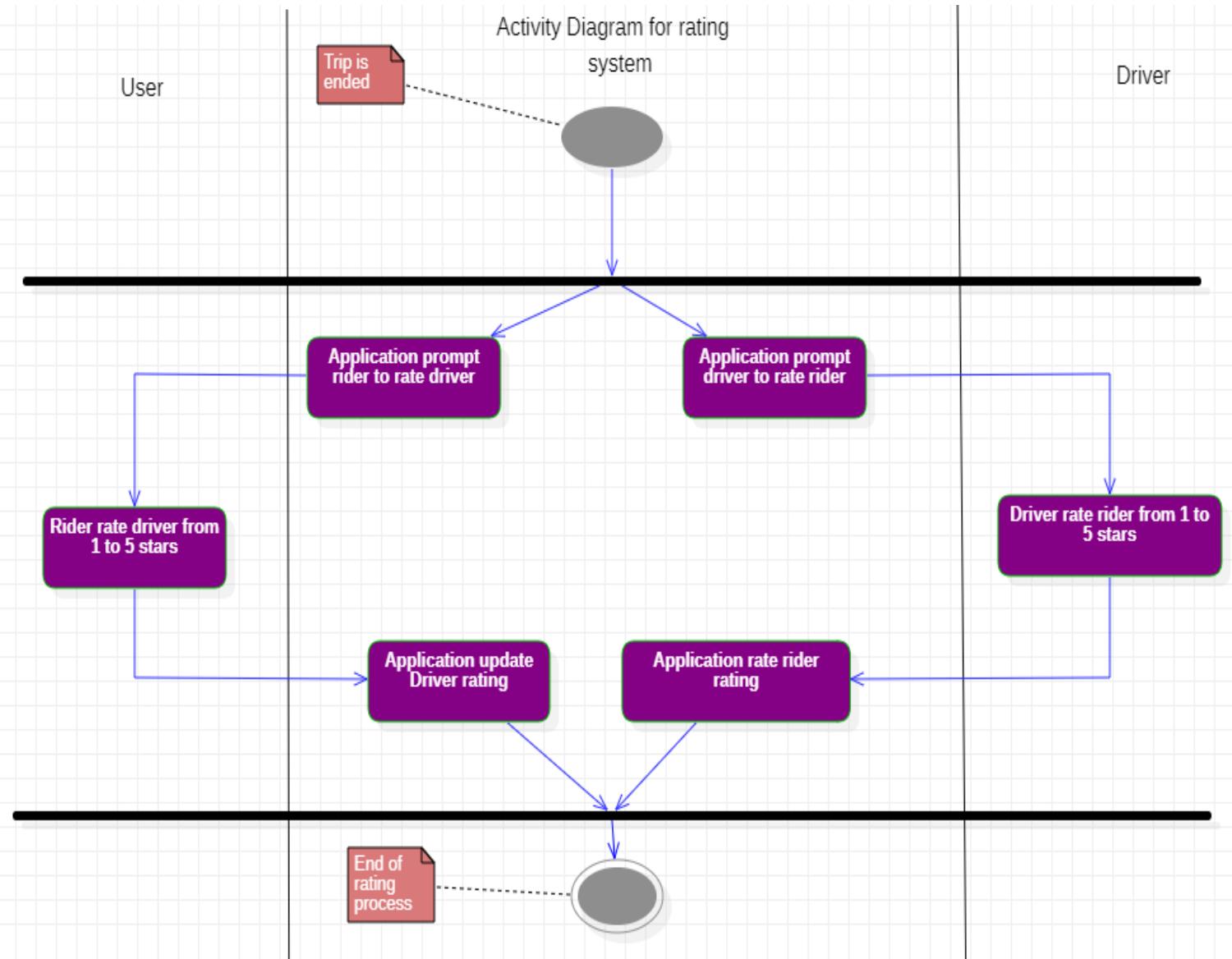
8. Add wallet



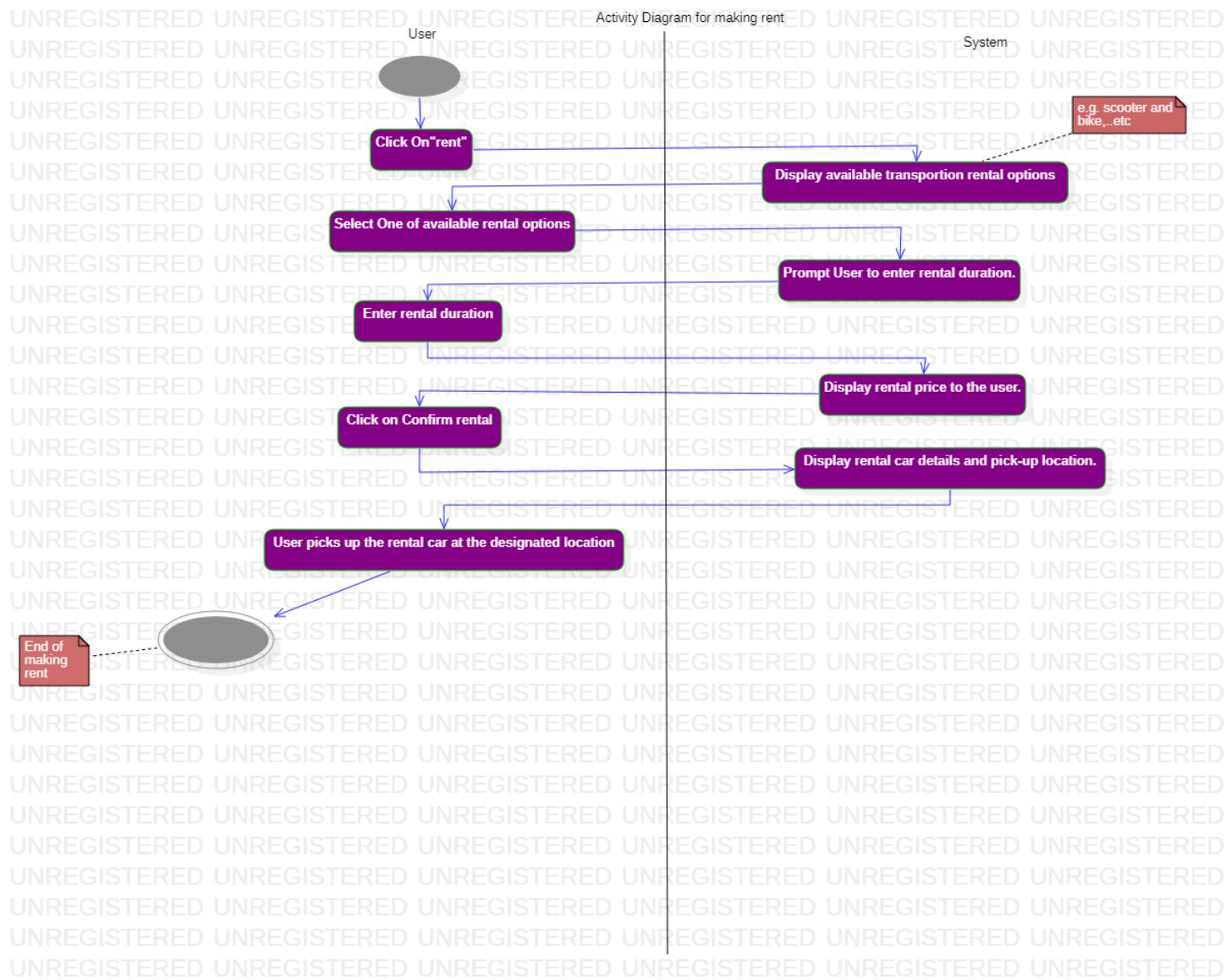
9. Add payment method



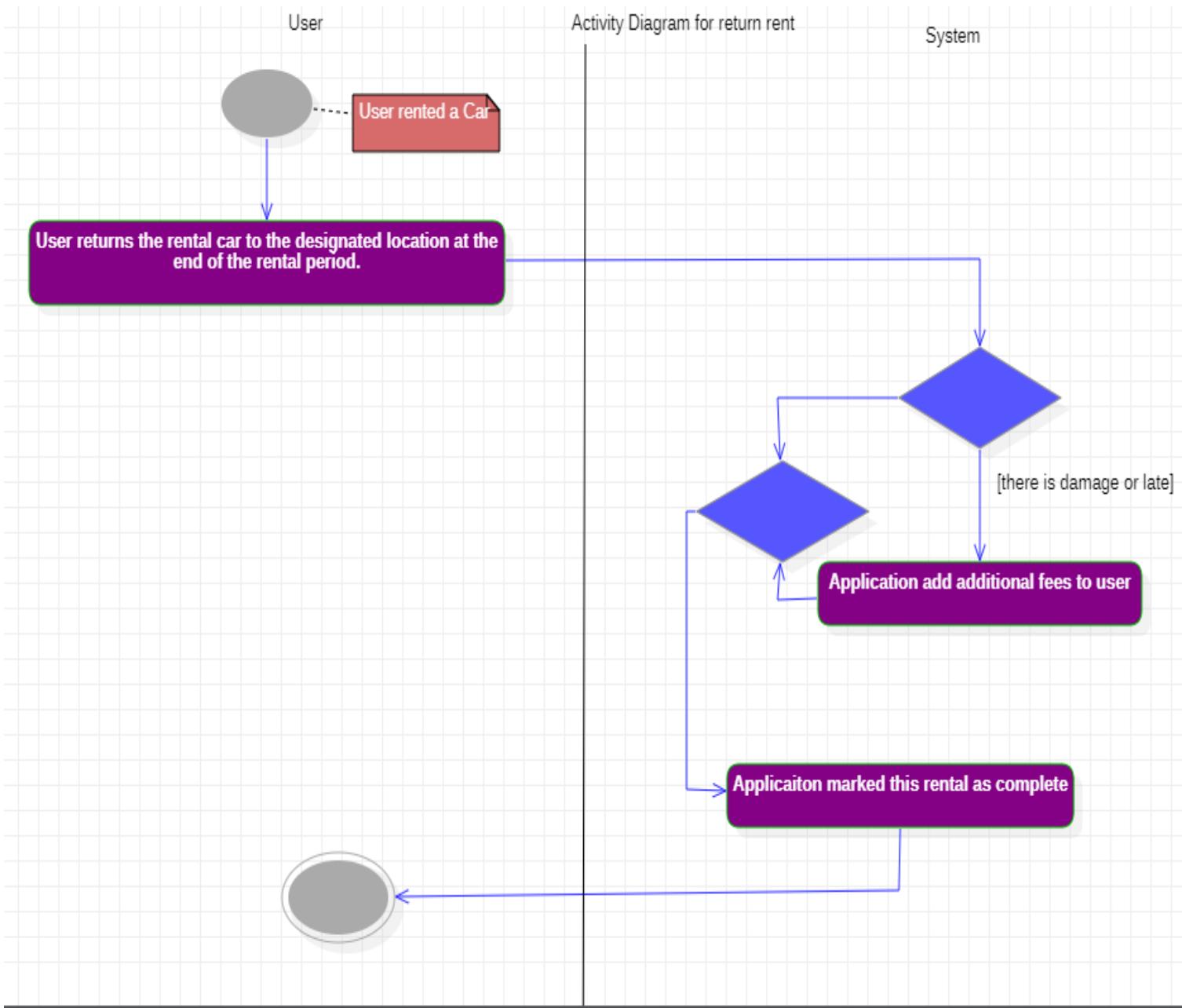
10. Rate



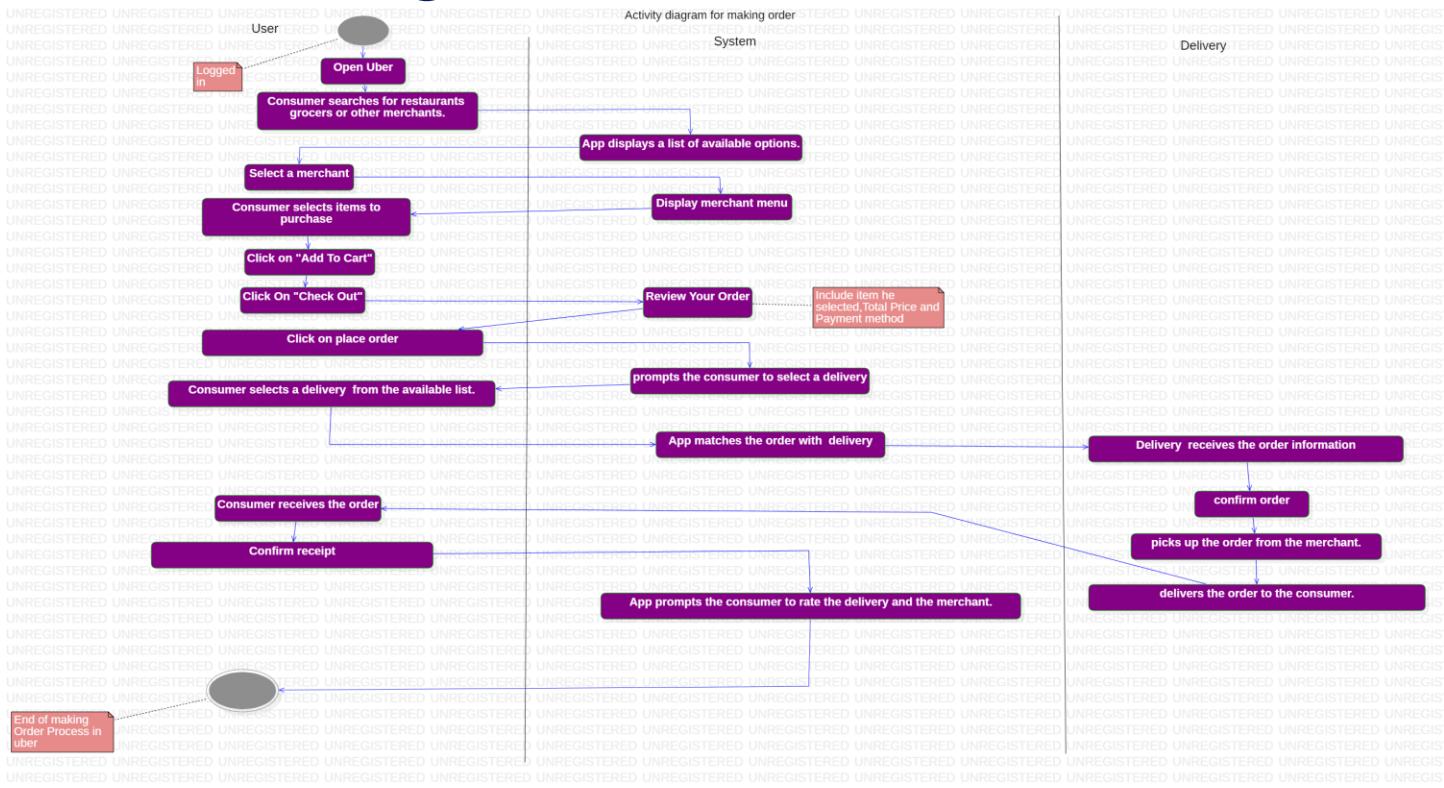
11. Make rent



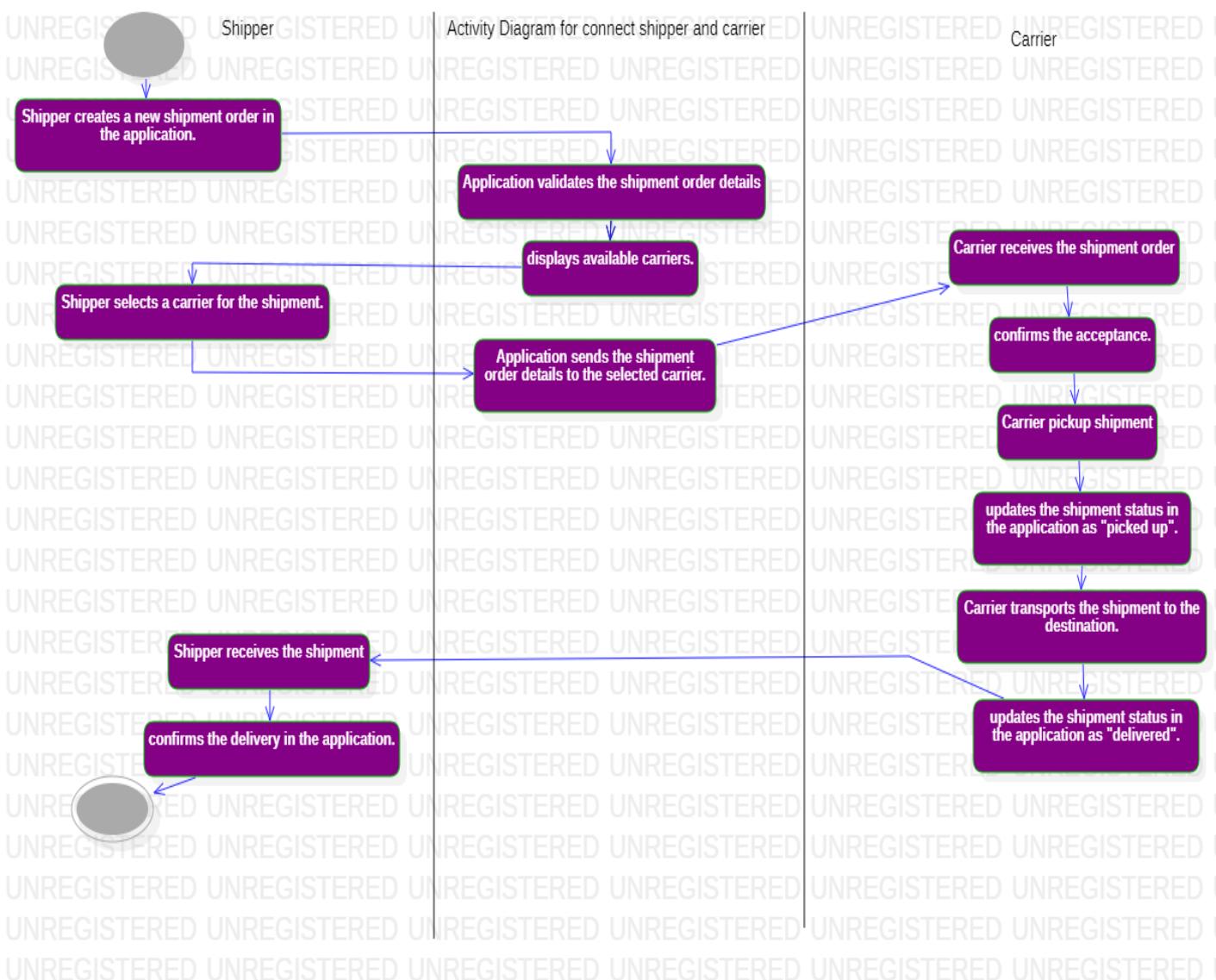
12. Return rent



13. Making order



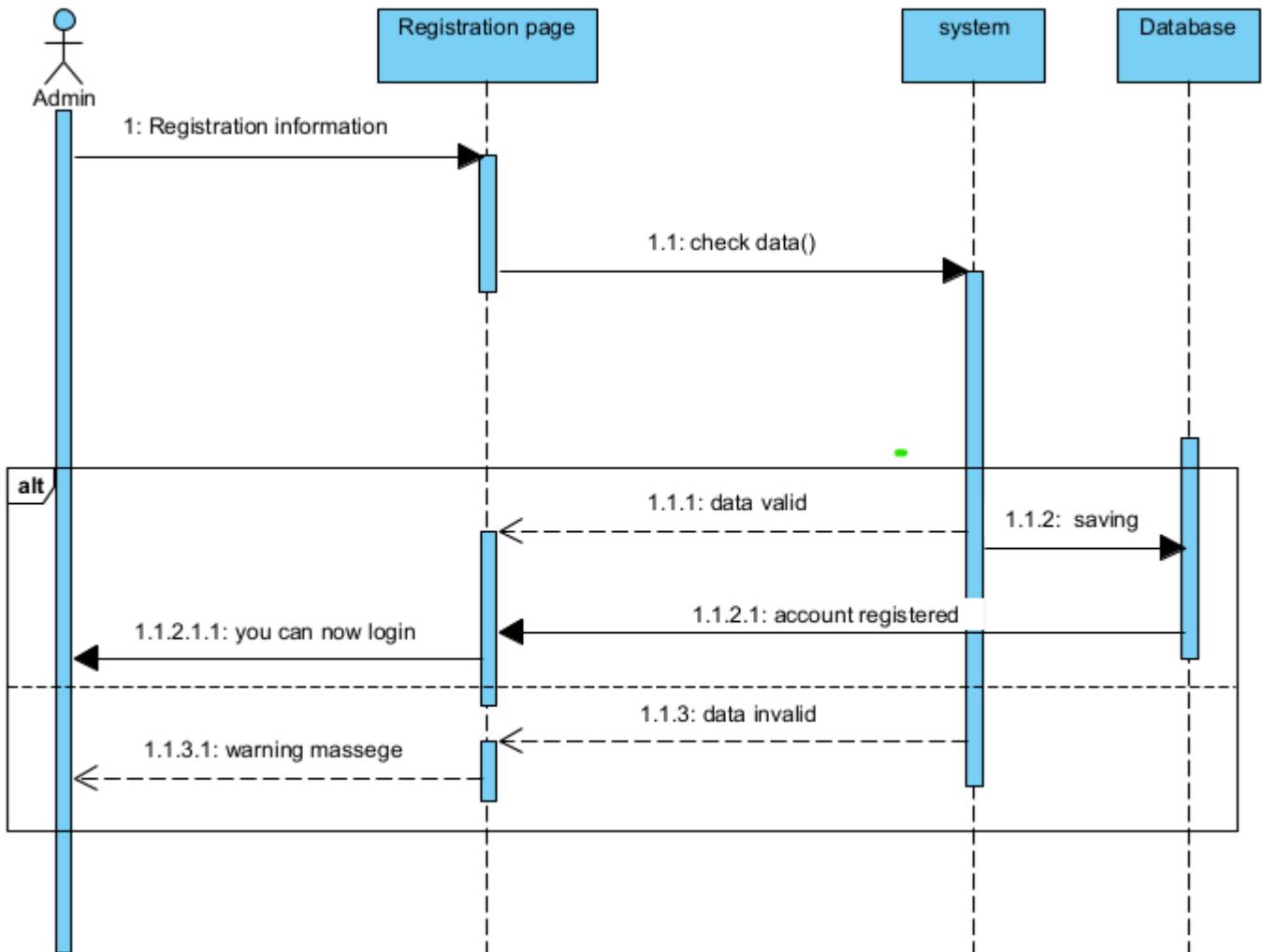
14. Shipping



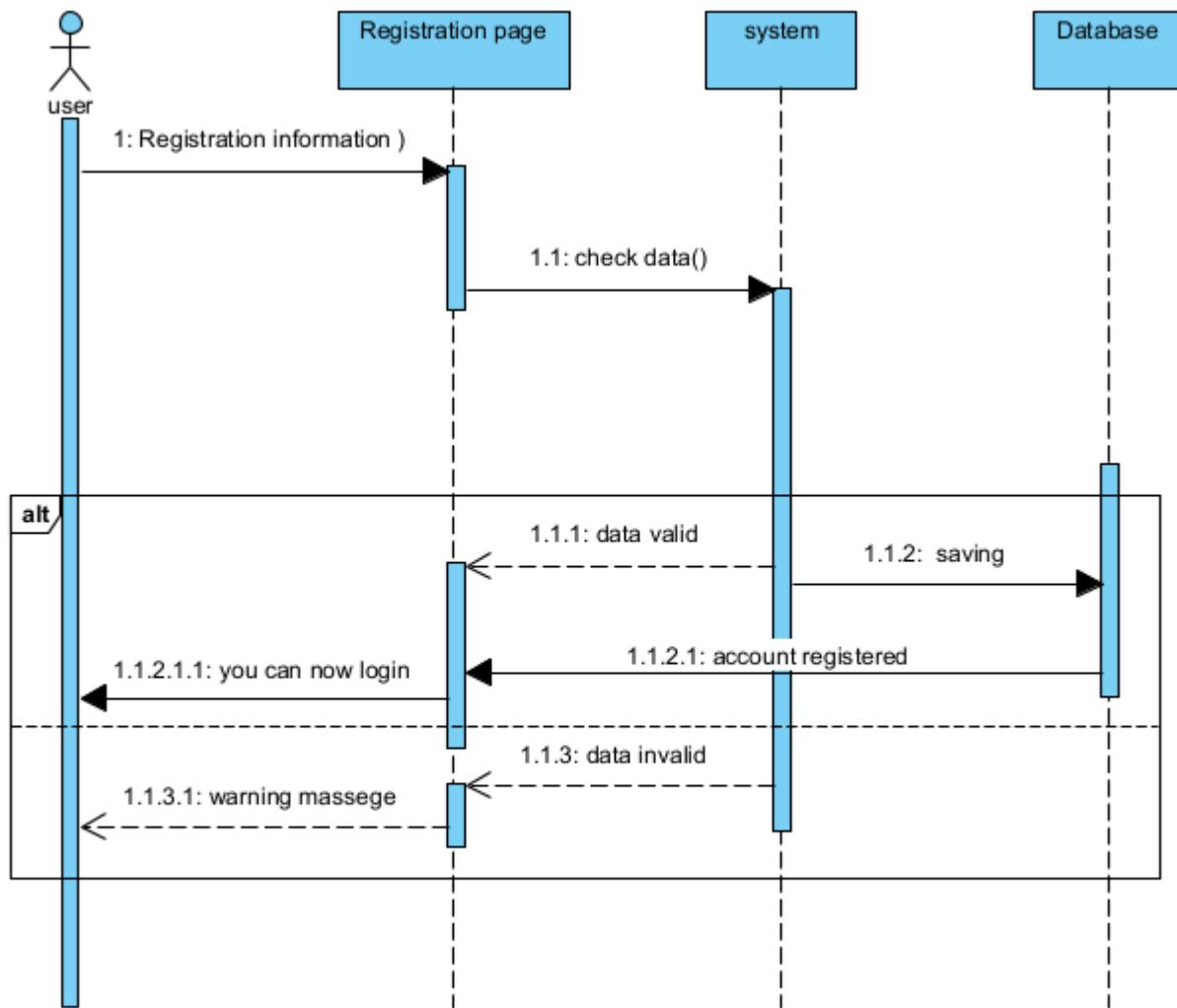
c) Sequence diagram

1. Registration

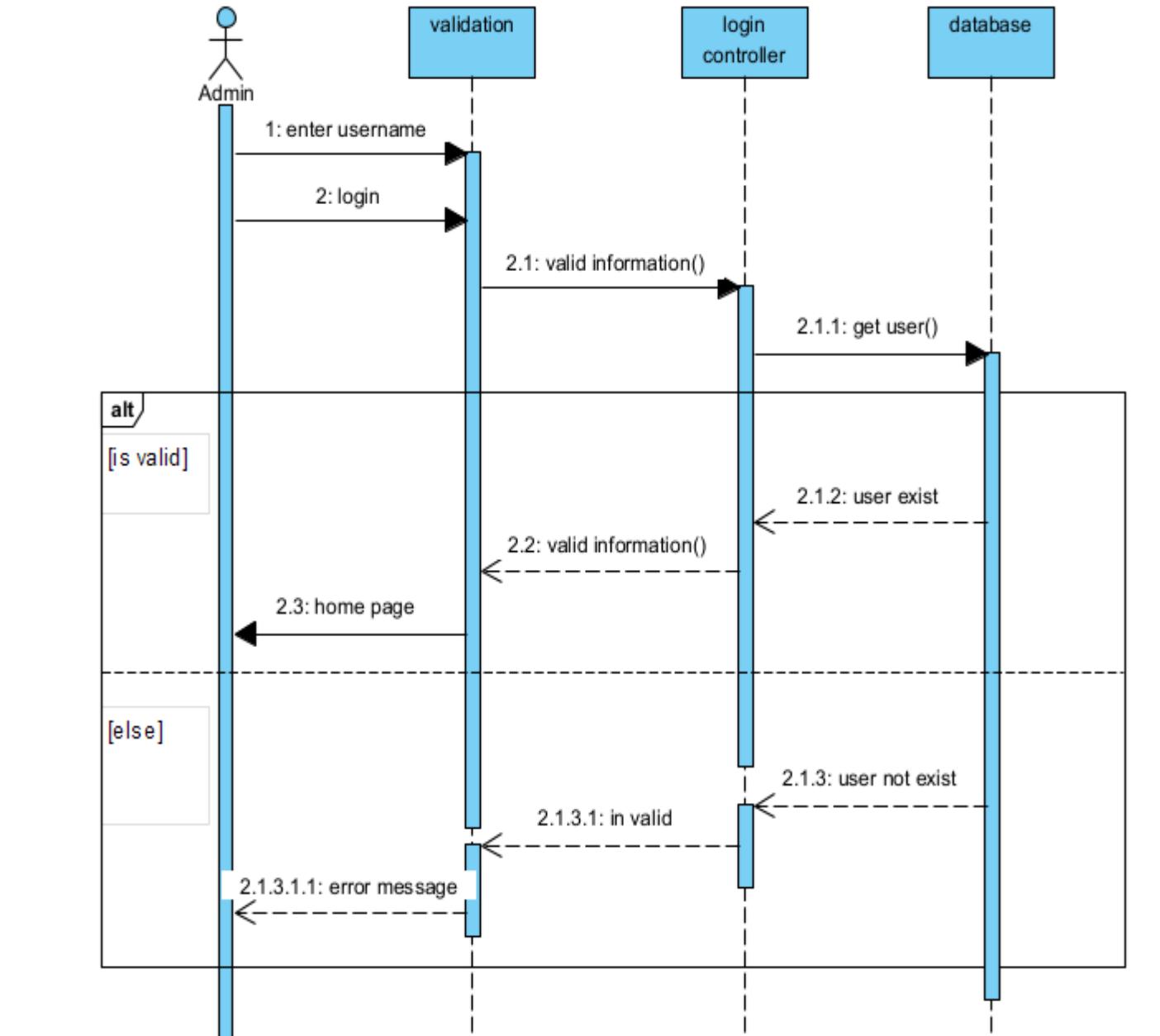
Admin



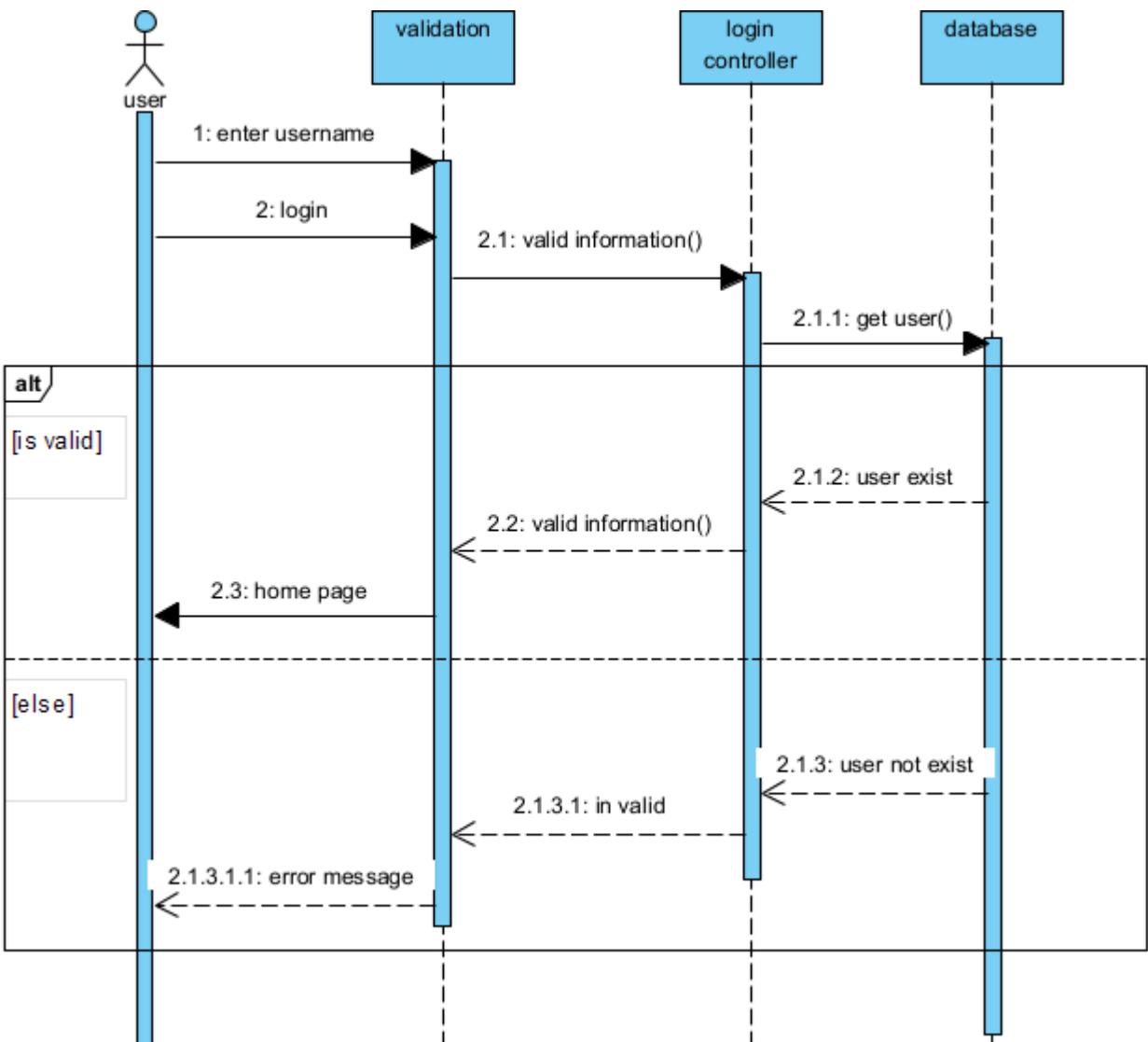
User



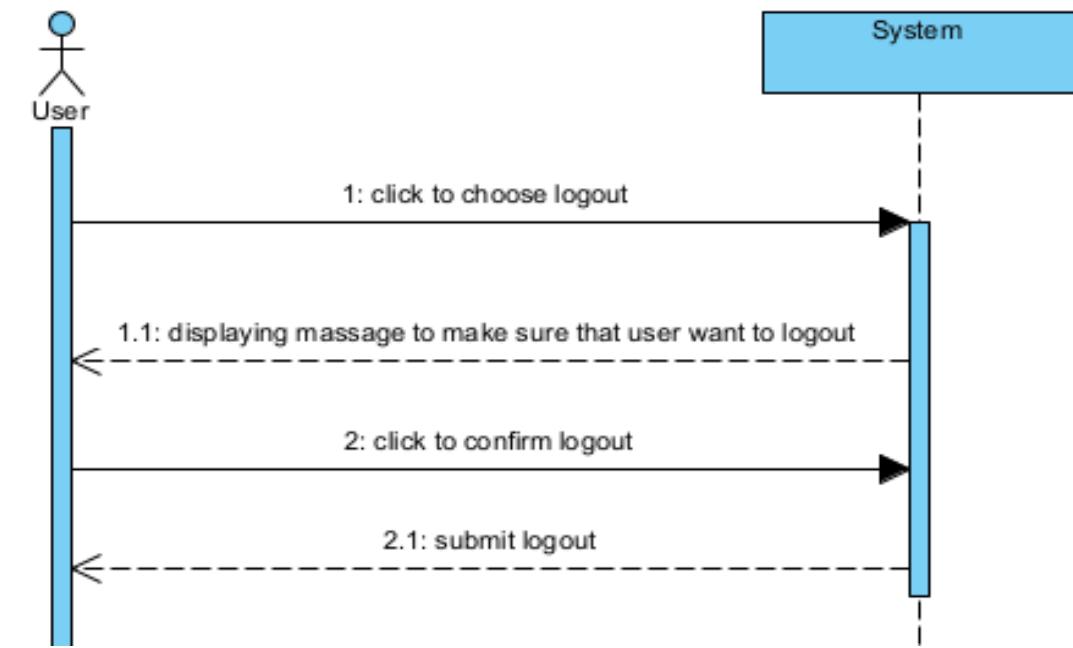
2. Log in Admin



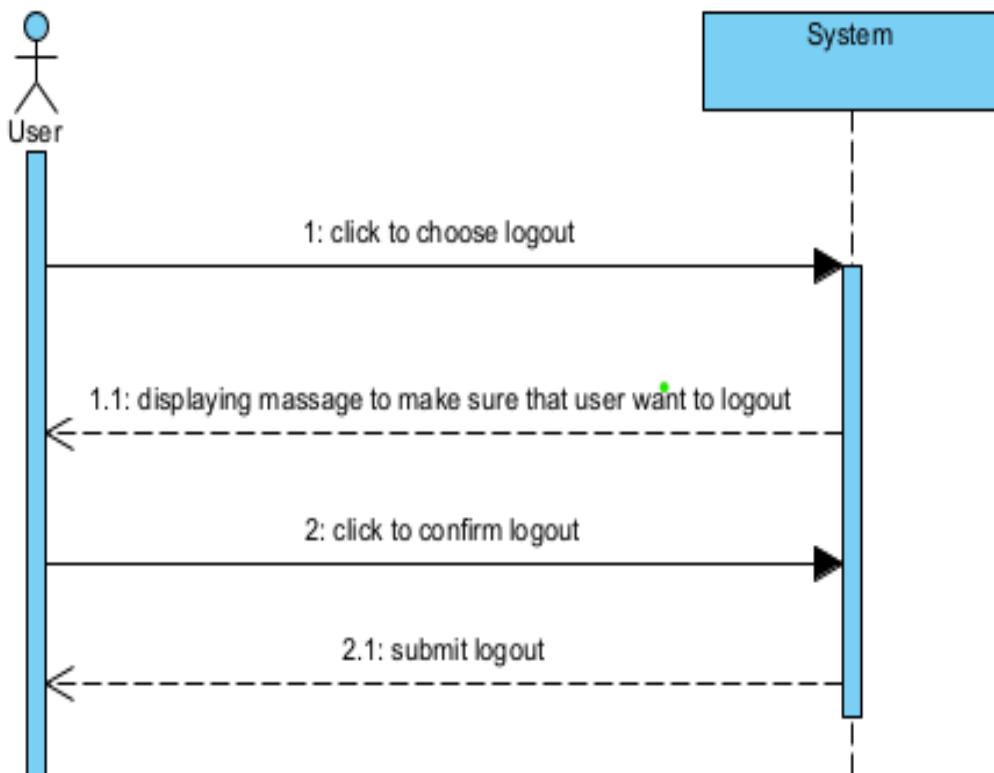
User



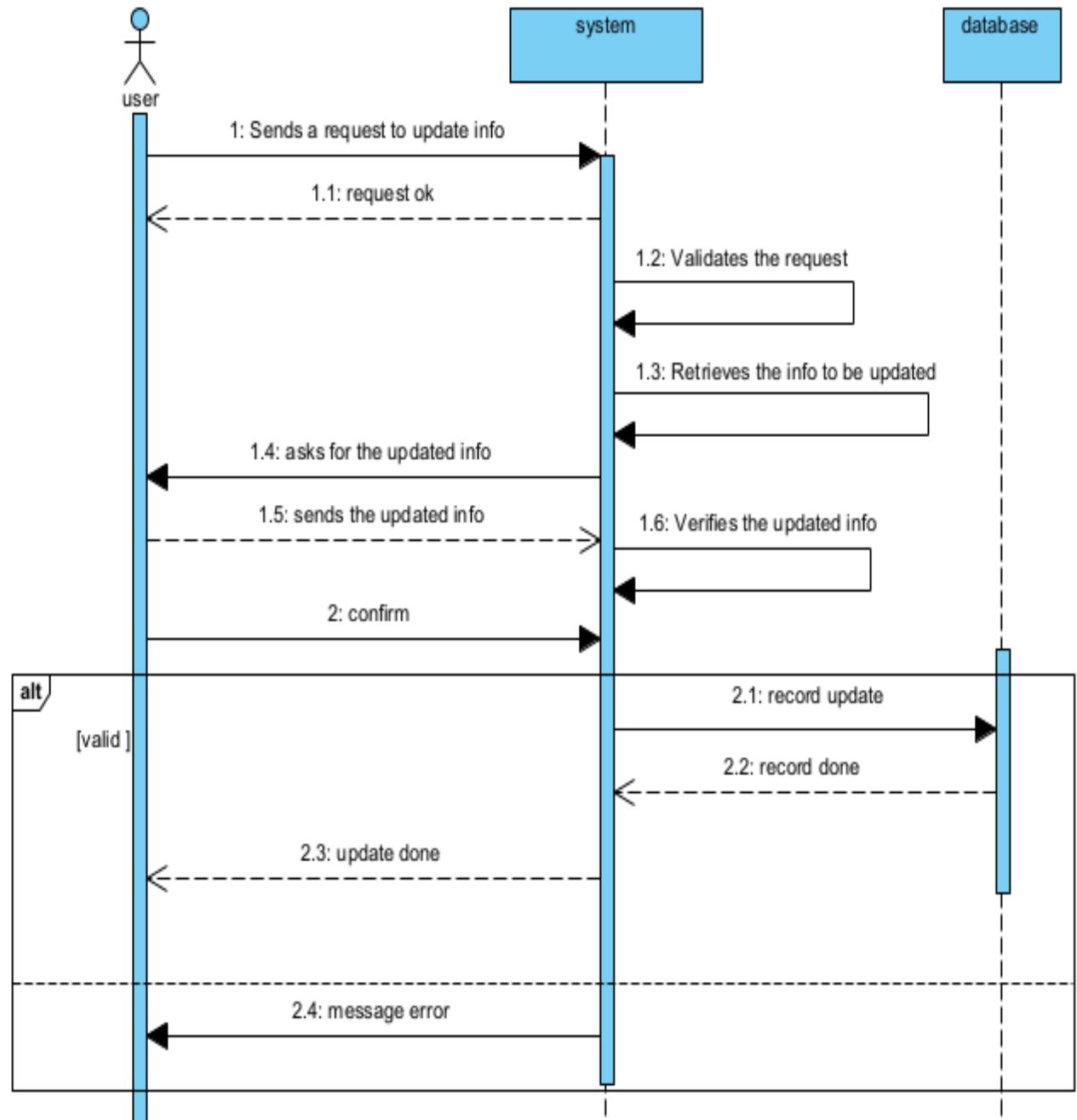
3. Log out Admin



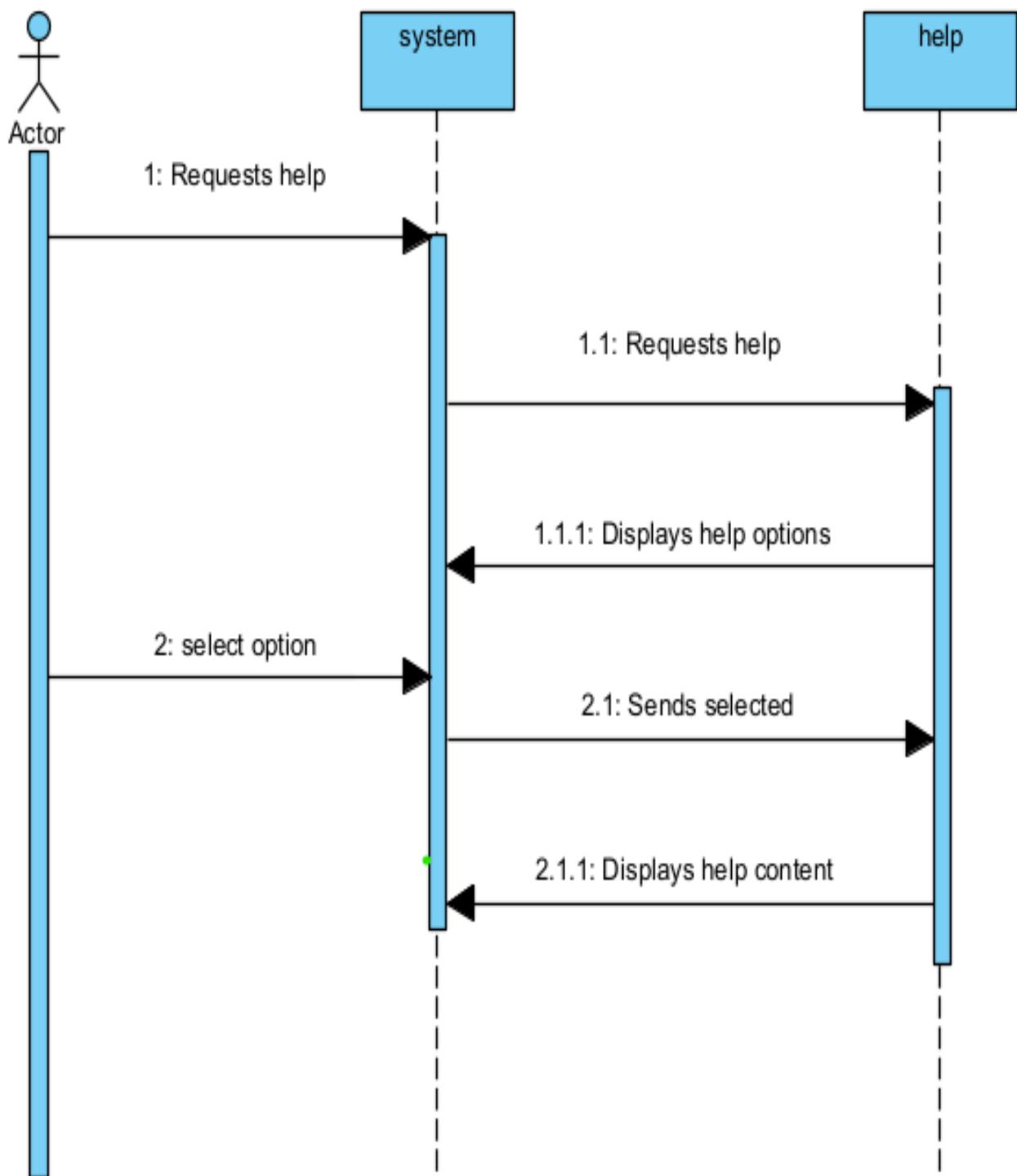
User



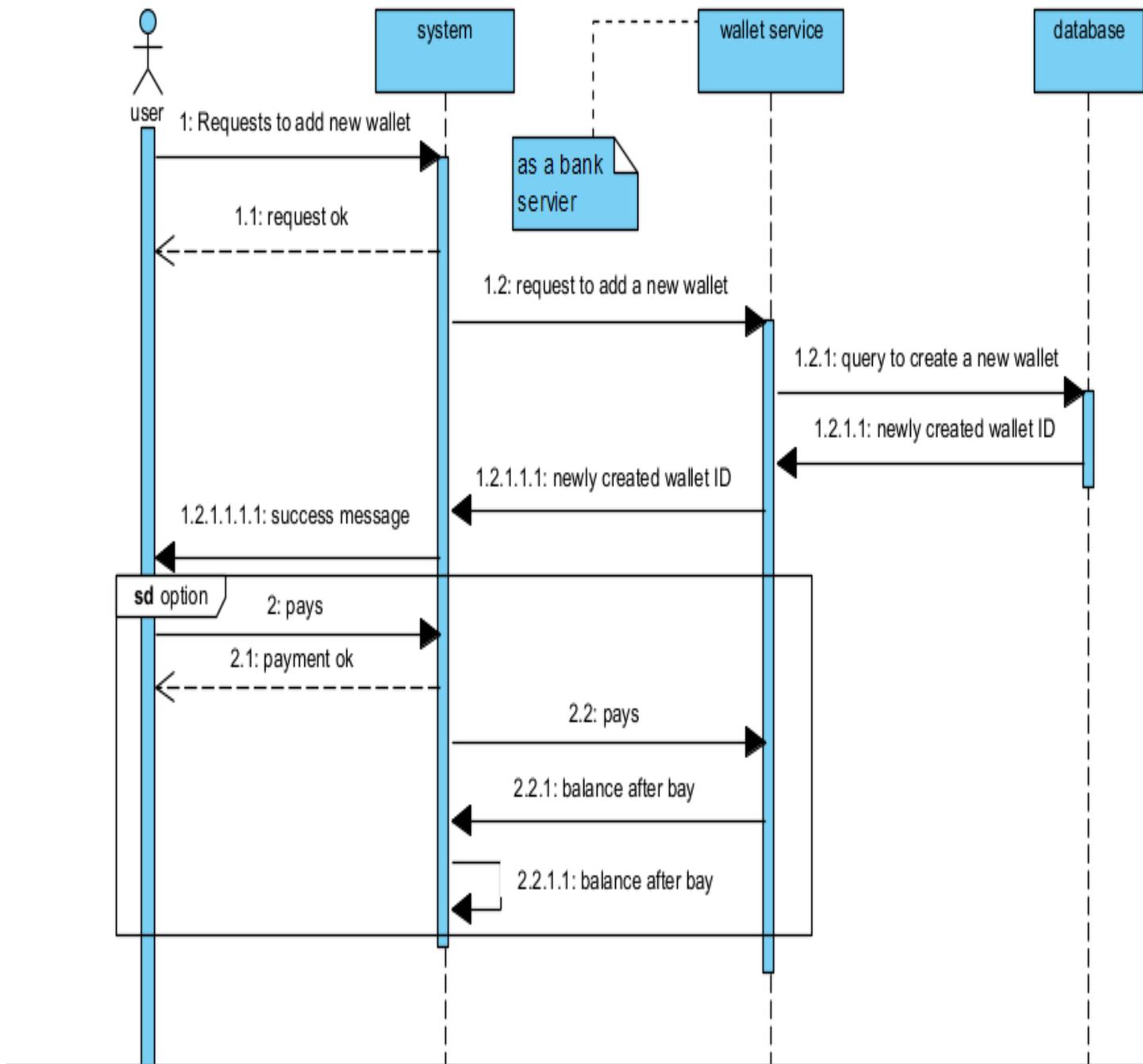
4. Change setting 5. Update info



6. Help

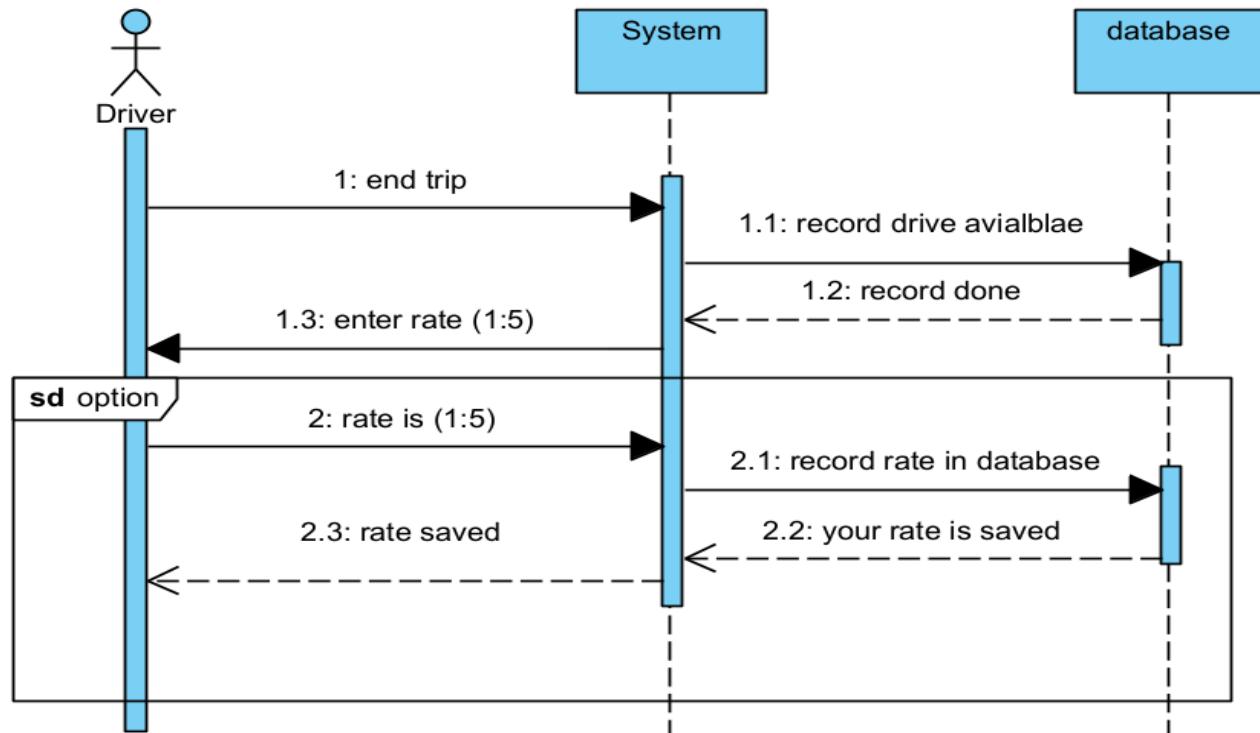


7. Add wallet

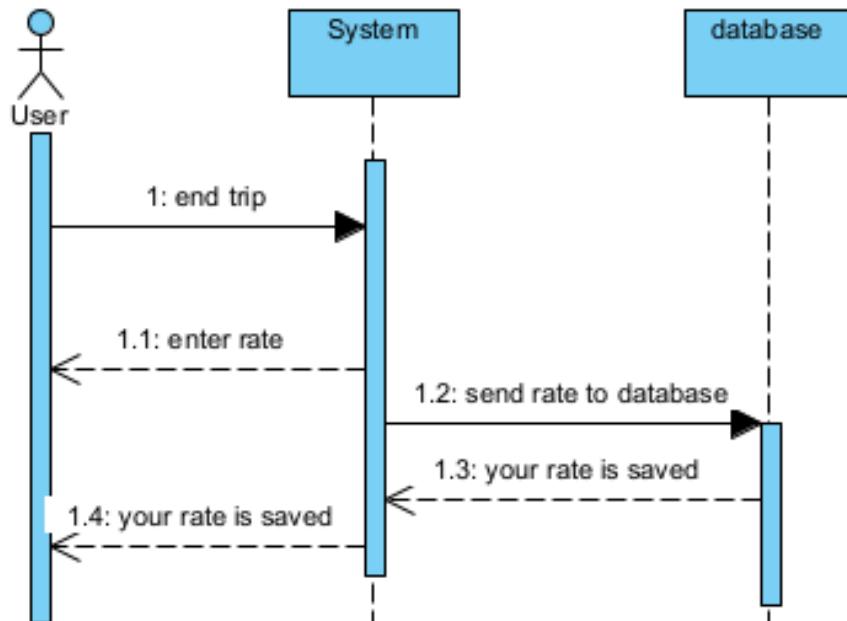


8. End trip and rate

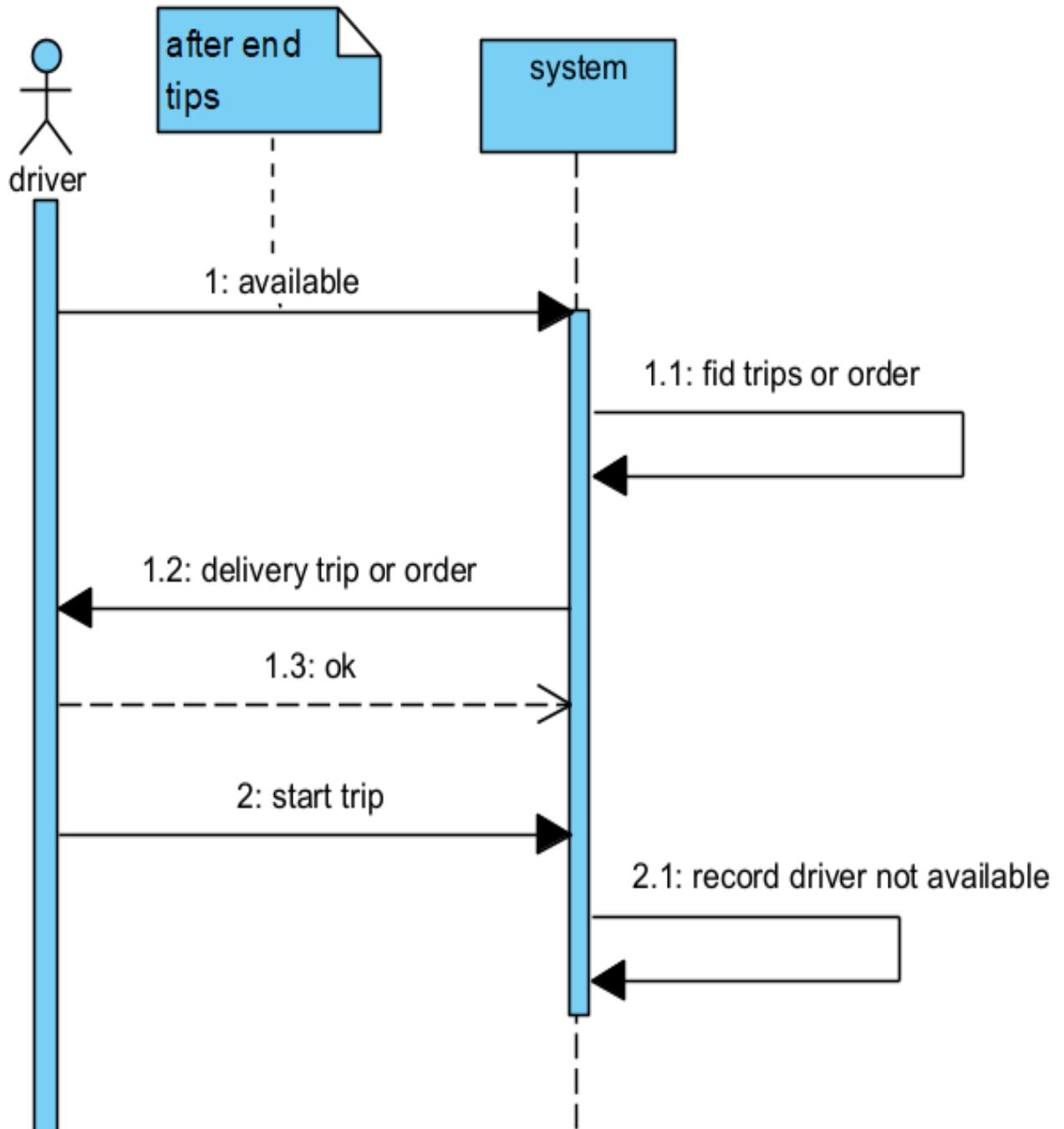
Driver



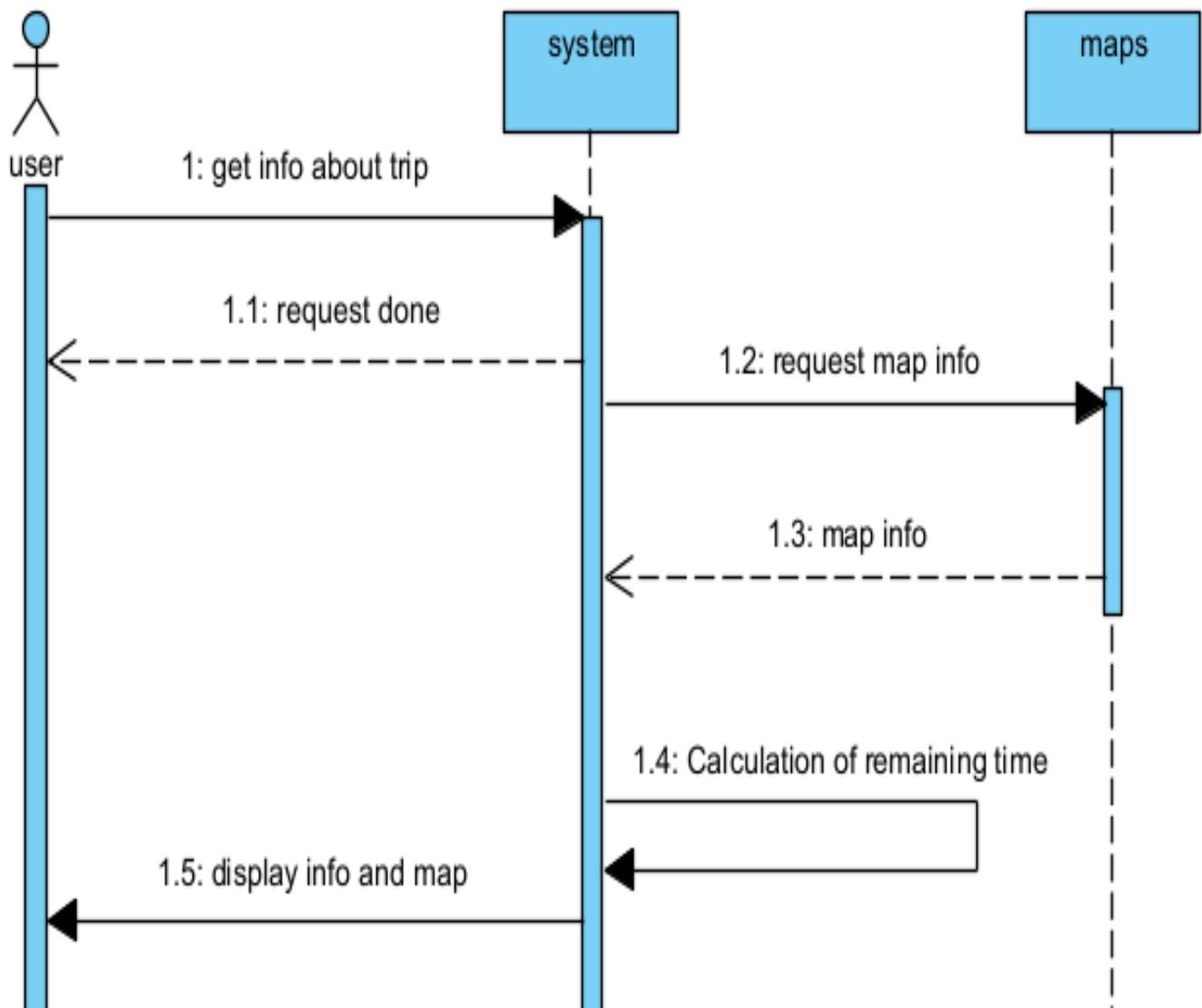
Customer



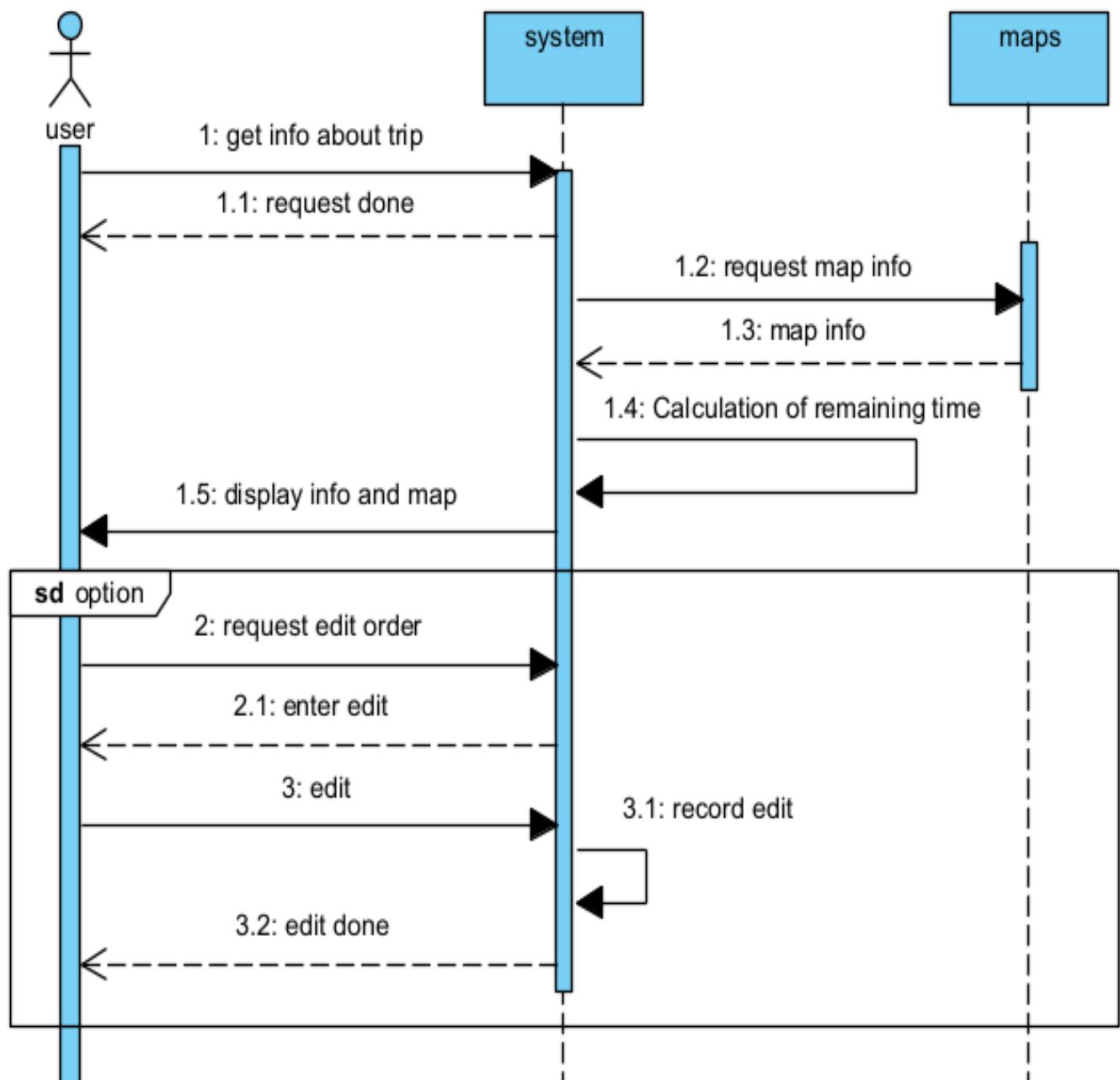
9. Delivery



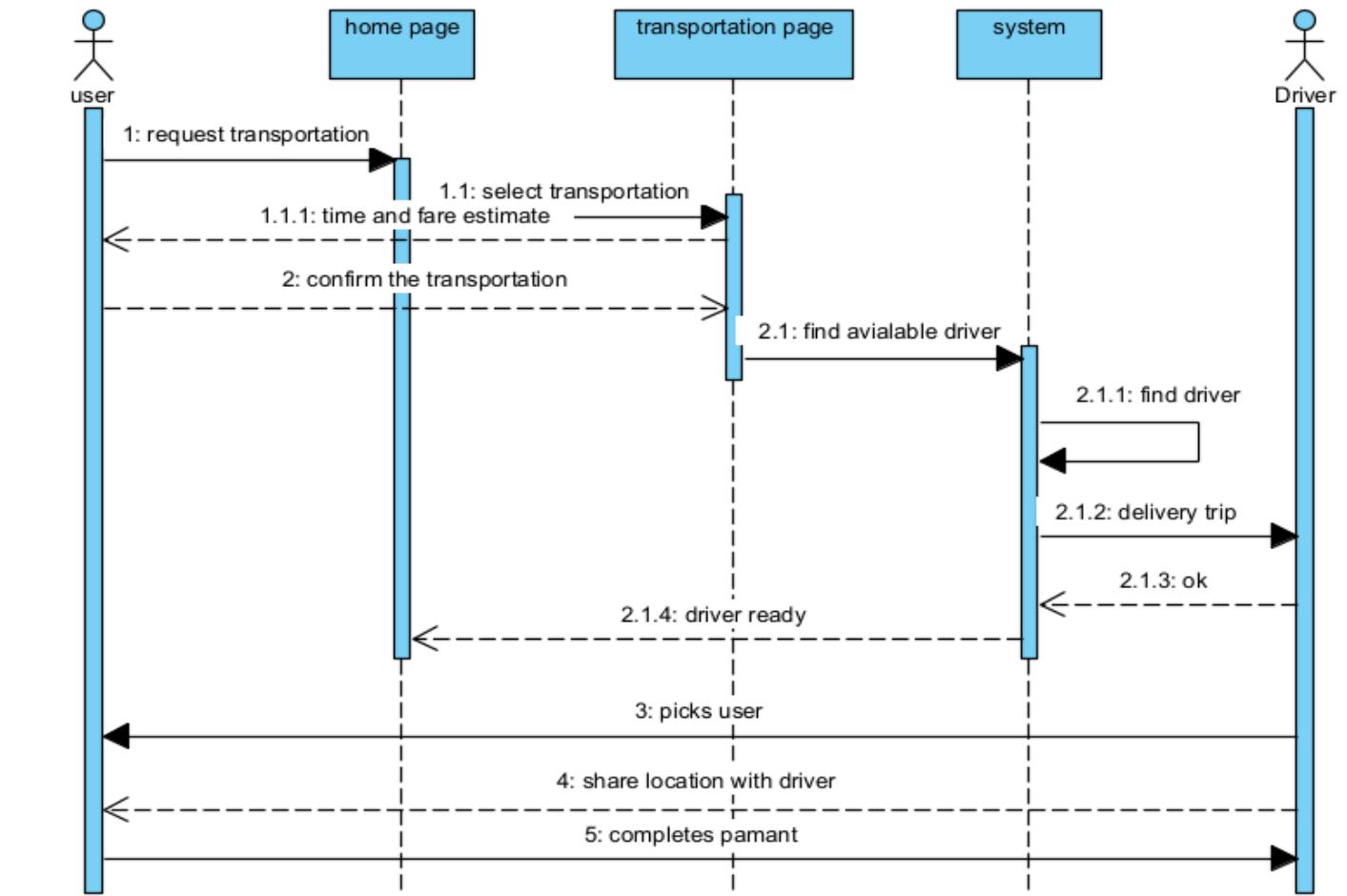
10. Follow Trip



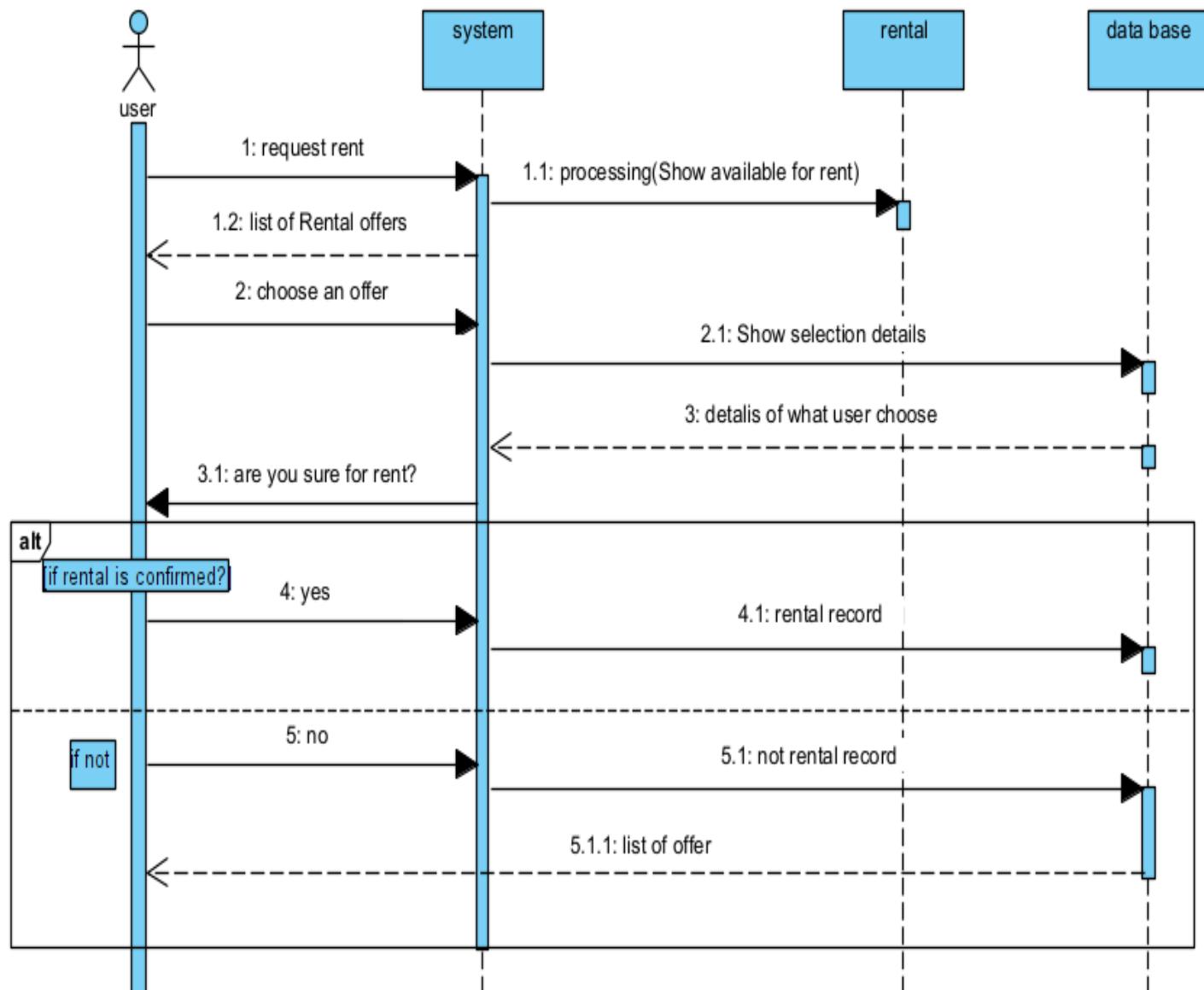
Order



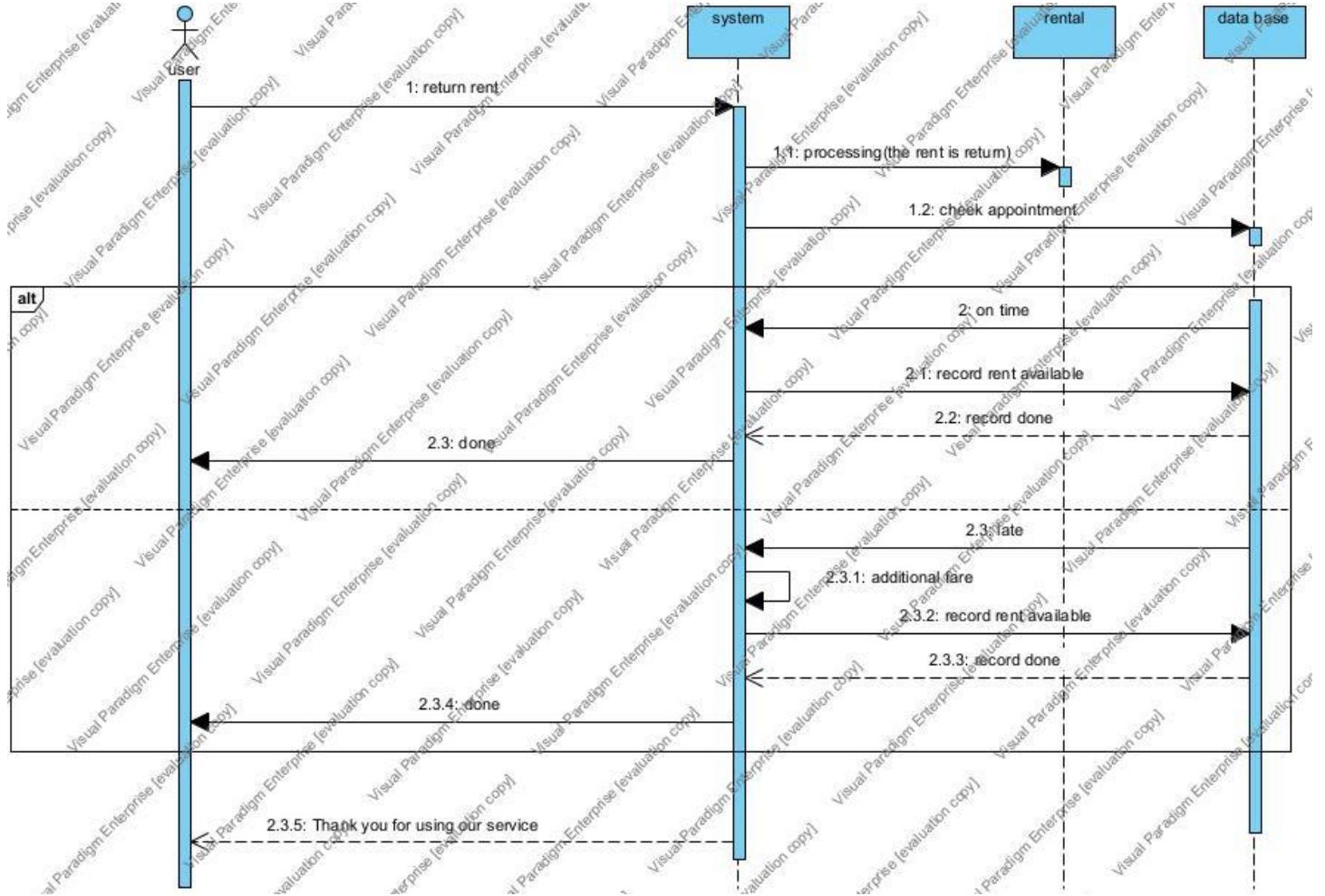
11. Booking



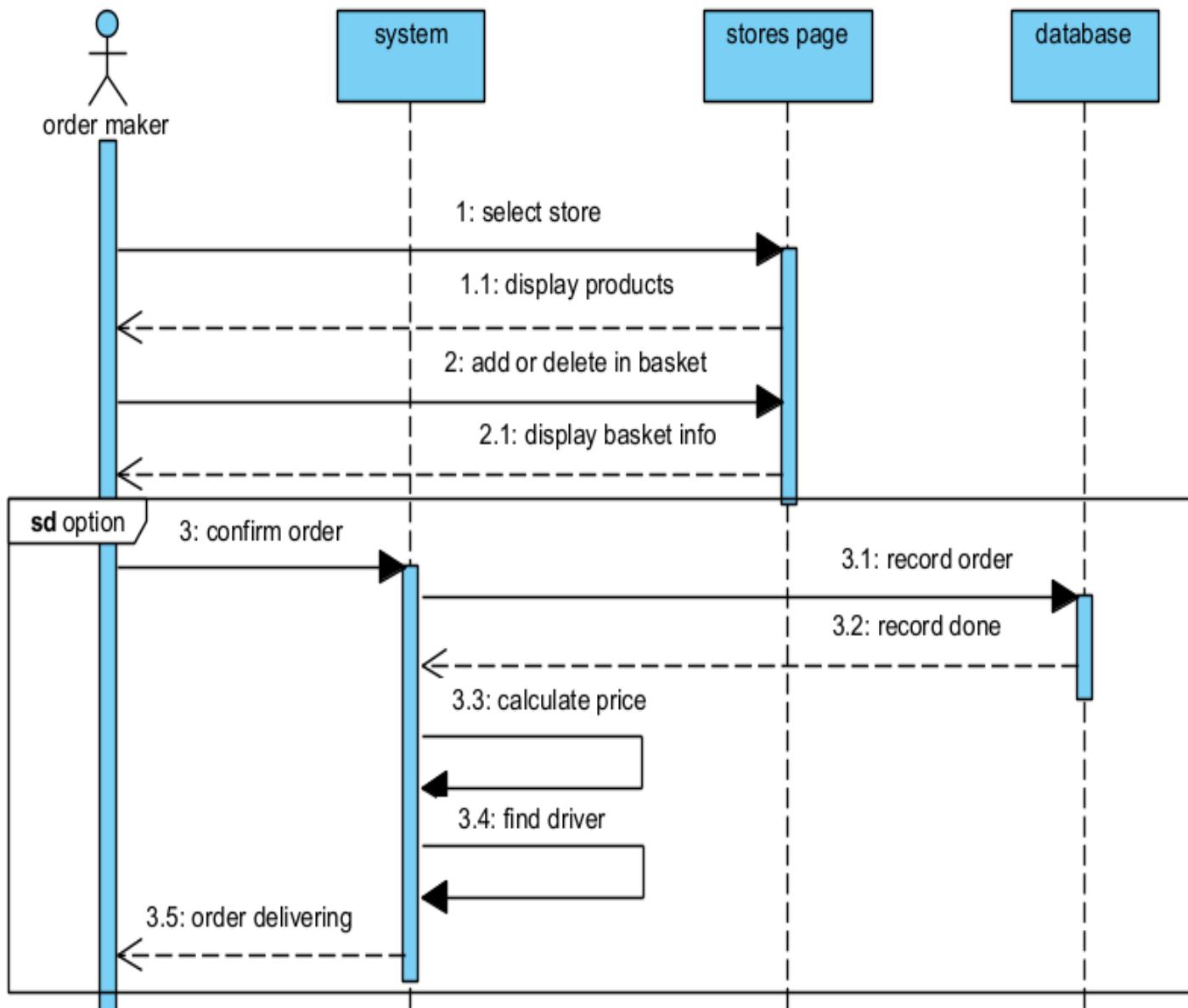
12. Make rent



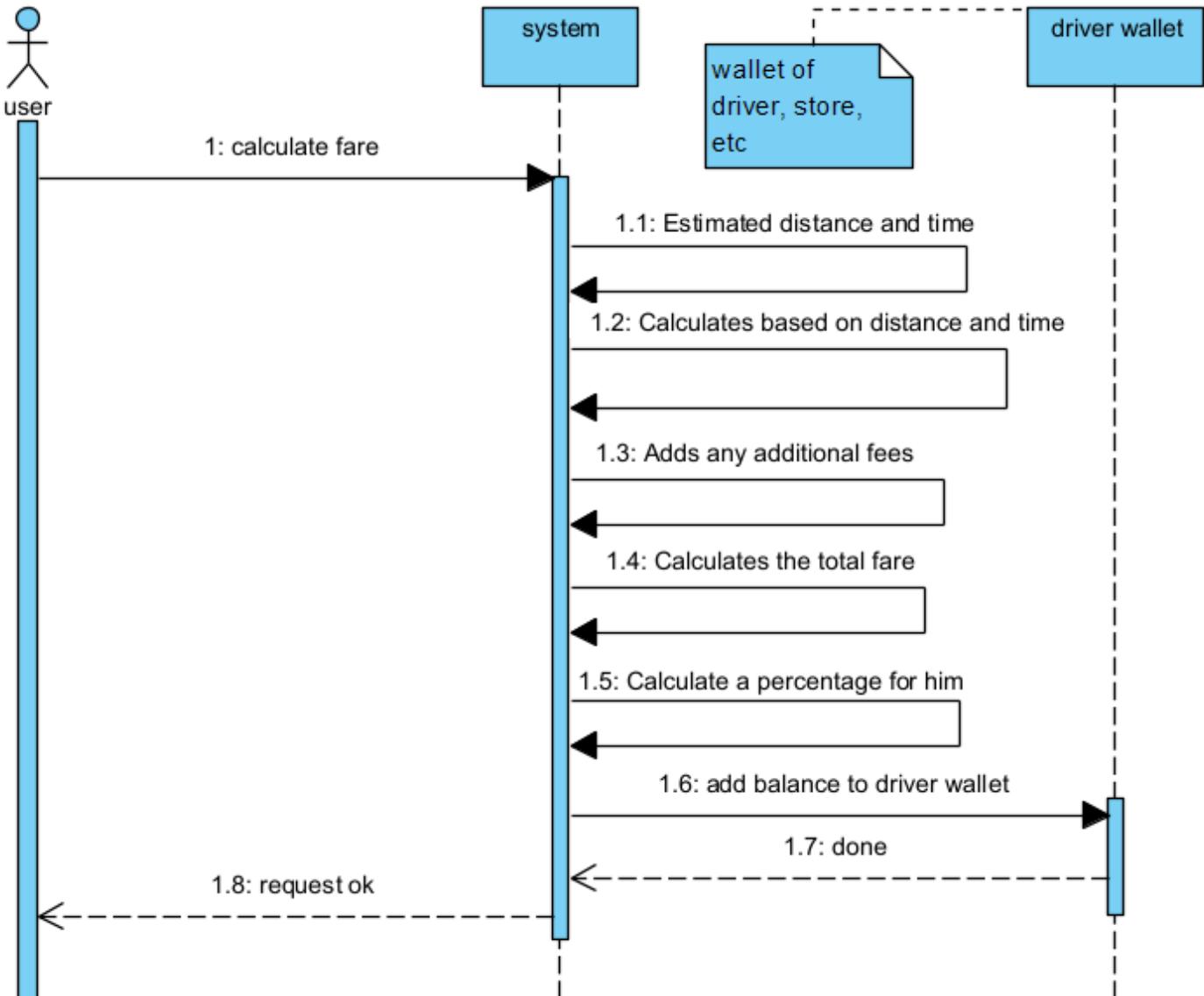
13. Return rent



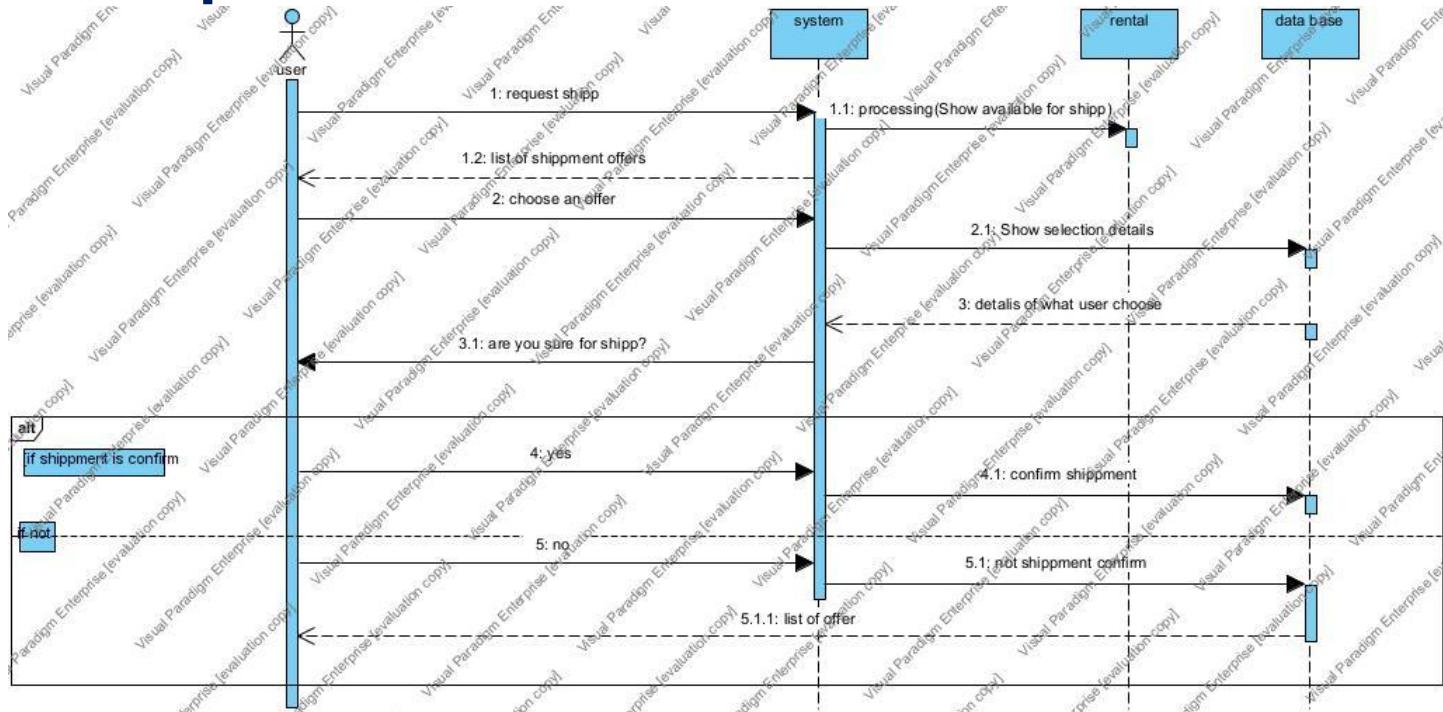
14. Browse and make order



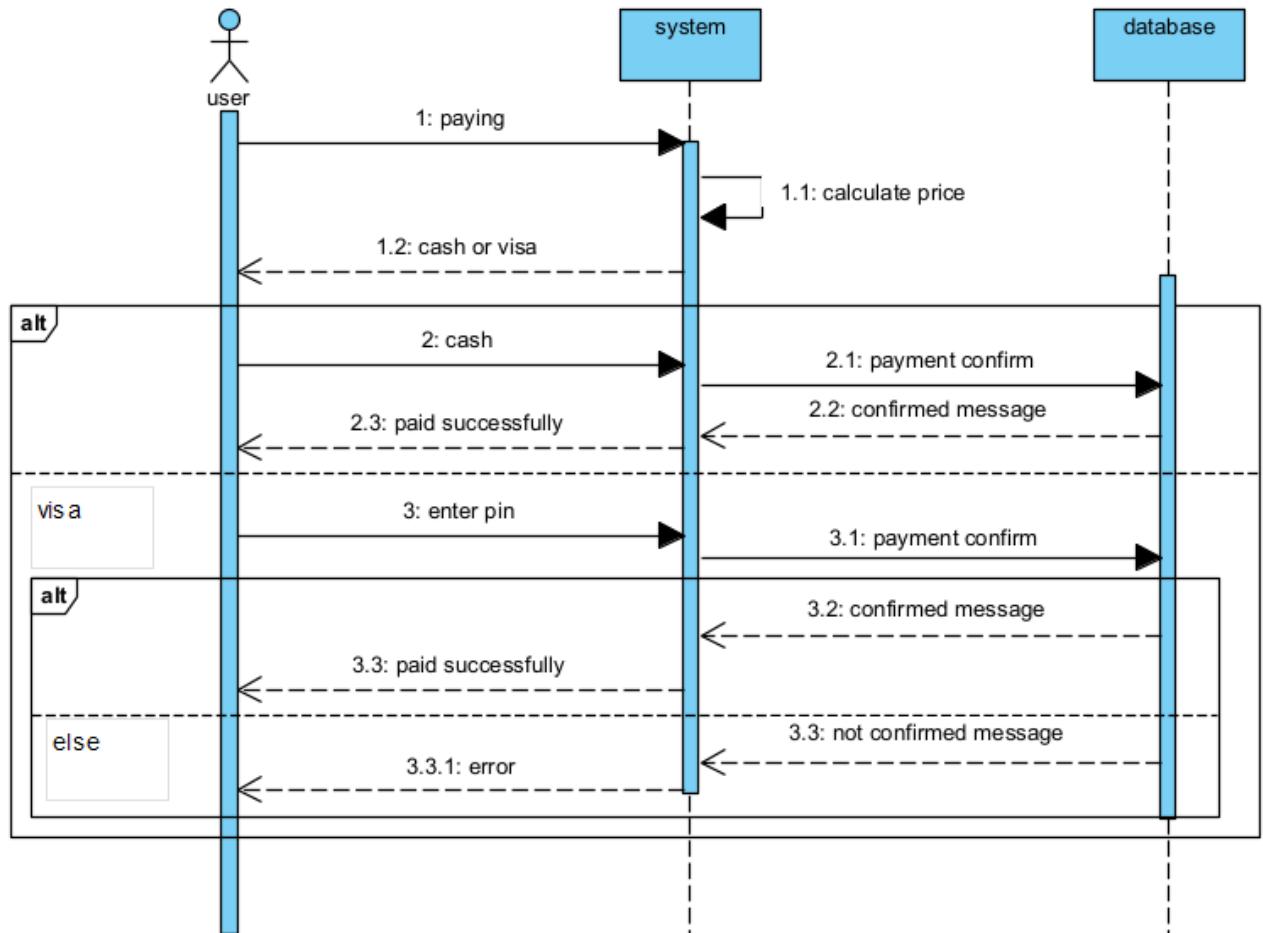
15. Calculate price



16. Shipment

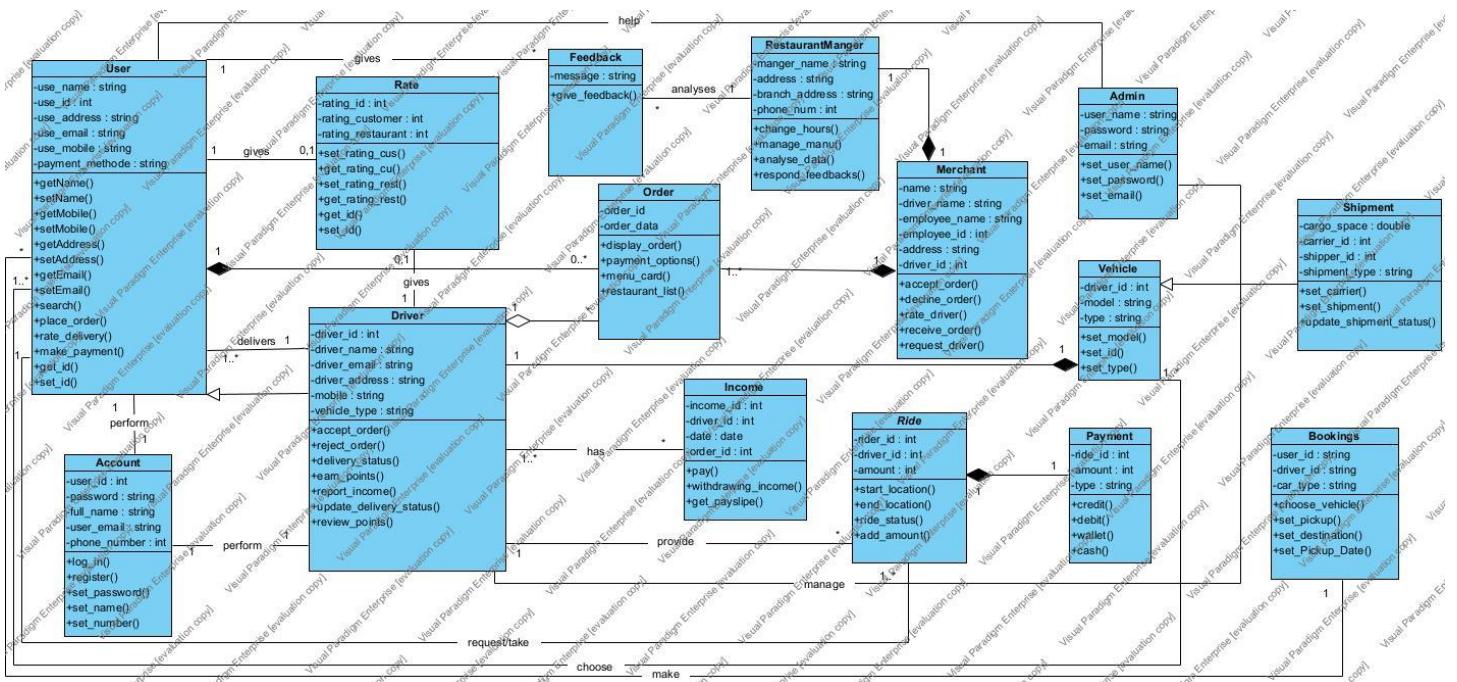


17. Select payment method and pay

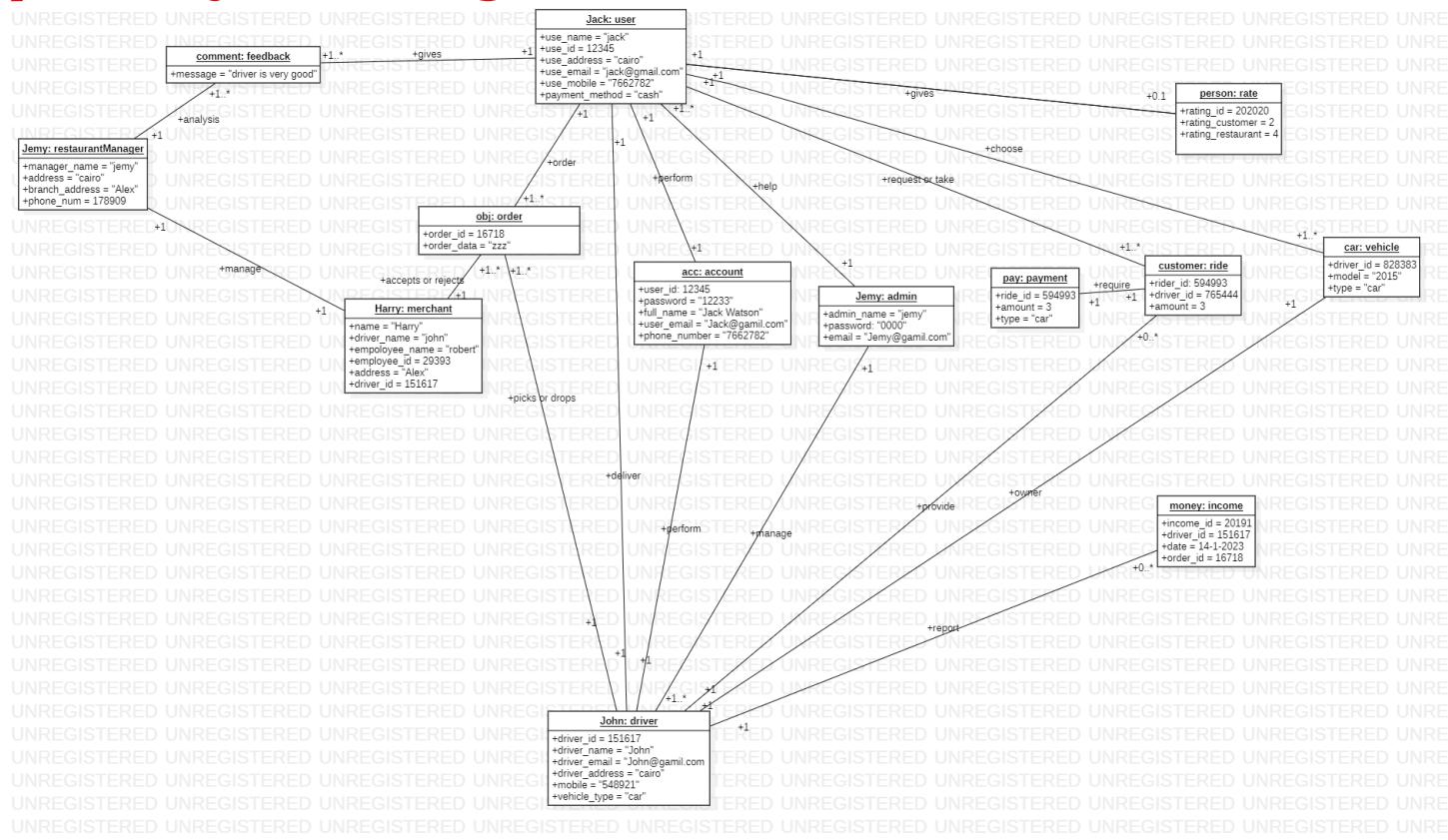


IV. Structure Diagrams

a) Class diagram



b) Object diagram



pre/post-condition for object diagram

I. User

pre-condition:

- The user has a valid Uber account.
- The user has a reliable internet connection and a compatible device.
- The user has a payment method linked to their Uber account.

- The user has provided a pickup location and destination.
- The user has agreed to the fare estimate provided by Uber.

post-condition:

- The user is able to view the estimated time of arrival for the driver.
- The user is able to track the driver's location in real-time.
- The user is able to communicate with the driver via the Uber app.
- The user is able to rate the driver and provide feedback on the trip.
 - The user's payment method is charged for the fare and any applicable fee

II. Admin

pre condition:

- The admin must have appropriate permissions to access and manage the system.
- The admin must be logged in to the admin portal of the Uber-like ride-sharing service.
- The system must be functioning properly and be accessible to the admin

post-condition:

- After adding a new driver or passenger to the system, the admin must verify that the driver or passenger has provided all required information.
- After receiving a report of an issue from a driver or passenger, the admin must investigate and take appropriate action to resolve the issue.
- After updating the fare pricing model, the admin must ensure that the changes are applied correctly and that the updated fares are displayed to users.

III. Driver

pre-condition:

- The driver must have a valid driver's license and registration for the vehicle they will be using to provide rides.
- The driver must be logged in to the Uber app and have signaled their availability to accept ride requests.
- The driver's current location must be within the service area of the ride-sharing

post-condition:

- After accepting a ride request, the driver's location must be updated to reflect the destination of the ride.
- After completing a ride, the driver's availability status must be updated to reflect their availability for additional rides.
- After a ride is completed, the fare for the ride must be calculated and displayed to the driver

IV. Account

pre-condition:

- The user must have a valid email address and phone number to create an account.
- The user must provide their personal information, such as name, address, and payment information.
- The user must agree to the terms and conditions of the ride-sharing service.

post-condition:

- After creating an account, the user's personal information and payment information must be securely stored in the system.

- After completing a ride, the fare for the ride must be charged to the user's payment method.
- After updating their personal information or payment information, the changes must be reflected in the system and be accessible to the user.

V. Order

pre-condition:

- The user must have a valid payment method on file.
- The user must have a valid and up-to-date profile, including their name, phone number, and email address.
- The user must have a reliable internet connection to be able to request a ride.
- The user must be within the service area of the ride-hailing company to be able to request a ride.
- The user must have sufficient funds in their account or payment method to cover the cost of the ride.

post-condition:

- The user should receive a confirmation of the ride request, including the estimated time of arrival of the driver.
- The user should be able to track the driver's location in real-time and receive updates on the driver's ETA.
- The user should be able to communicate with the driver via the app, such as to provide additional instructions or to change the pickup location.
- The driver should be able to see the pickup location, destination, and any special instructions or notes provided by the user.
- The driver should be able to mark the ride as complete once the user has been dropped off at the destination.

- The user should be able to rate the driver and provide feedback on the ride experience.

VI. Feedback

pre-condition:

- The user should have completed at least one ride before being able to leave feedback.
- The user should be logged in and authenticated to leave feedback.
- The user should have the ability to rate the driver and provide feedback on the ride experience, such as cleanliness of the vehicle, professionalism of the driver, and overall satisfaction with the ride.
- The driver should have the ability to rate the rider and provide feedback on their behavior during the ride, such as respectfulness, punctuality, and overall satisfaction with the ride.
- The feedback system should have a way to prevent abuse or fake ratings, such as by limiting the number of ratings that can be left in a given time period or by requiring users to provide a reason for their rating.

Post-condition:

- The feedback system should store the ratings and comments left by users in a secure database.
- The feedback system should use the ratings and comments to calculate an overall rating for each user, which can be used to help other users make informed decisions when selecting a driver or rider.

- The feedback system should provide users with a way to view their own ratings and comments, as well as a way to dispute any inaccurate or unfair feedback.
- The feedback system should provide administrators with

VII. Merchant

pre-condition:

-merchant may include having a valid account with Uber, a reliable internet connection, and a valid payment method.

post-condition:

-merchant may include successfully listing products on the platform, receiving payment for sold products, fulfilling

VIII. restaurant manager

pre-condition:

restaurant manager may include having a valid account with Uber, access to a device capable of accessing the Uber platform, and permission to manage a restaurant's menu and orders on the platform.

post-condition:

restaurant manager may include successfully managing the restaurant's menu and orders on the platform receiving payment for fulfilled orders, and receiving positive feedback and ratings from customers for the quality of food and service provided by the restaurant.

IX. Vehicle

pre-condition:

vehicle in the Uber project include: registration with Uber, meeting safety and cleanliness standards, being in good

working condition, having a valid driver's license and insurance, and the driver passing a background check.

post-condition:

vehicle in the Uber project include: completing the assigned ride safely, receiving payment and a rating from the passenger, being available for the next ride, and undergoing any necessary maintenance or cleaning between rides.

X. Ride

pre-condition:

a passenger requesting a ride through the app, a driver accepting the ride request, and the passenger being picked up by the driver.

post-condition:

the ride being completed and the passenger being dropped off at their destination, the passenger being charged for the ride and payment being processed, the driver receiving payment for the ride, and the passenger being able to rate the driver and provide feedback about the ride.

XI. Payment

pre-condition:

a completed ride, the passenger entering payment information, and the driver accepting the payment through the app.

post-condition:

the passenger's payment being processed and recorded, the driver receiving payment for the ride, the transaction being recorded in the app, and the passenger being able to view and download a receipt for the ride.

XII. Rate

pre-condition:

a completed ride, the passenger entering a rating, and the driver receiving a rating from the passenger.

post-condition:

the driver's overall rating being updated based on the passenger's rating, the passenger's rating being recorded for future reference, and the rating contributing to the quality control of the service.

XIII. Income

pre-condition:

a driver accepting and completing rides, and the driver's earnings being calculated based on the fares and fees associated with those rides.

post-condition:

the driver's earnings being recorded and displayed in the app, the earnings being paid out to the driver according to their payment preferences and the payment schedule, and the earnings contributing to the driver's overall income and financial well-being

XIV. Shipment

pre-condition:

- The user must have an active Uber account.
- The user must have initiated a shipment request through the Uber app.
- The shipment details such as pickup and drop-off location, package size and weight, and any special instructions must be specified by the user.

- The user must have agreed to the shipment pricing and payment method.

- The user must have confirmed the shipment request.

post-condition:

- The shipment must be picked up by the driver within the agreed-upon timeframe.

- The shipment must be delivered to the designated drop-off location within the estimated delivery time.

- The user should receive a notification once the shipment has been delivered.

- The payment for the shipment should be processed automatically based on the agreed-upon pricing and payment method.

- The user should be able to provide feedback and rate the shipment experience

XV. Booking

pre-condition:

- The user must have an active Uber account.

- The user must have entered their pickup location and destination in the Uber app.

- The user must have chosen the type of Uber service they want to book (e.g., UberX, UberXL, Uber Black, etc.).

- The user must have agreed to the fare estimate or pricing for the trip.

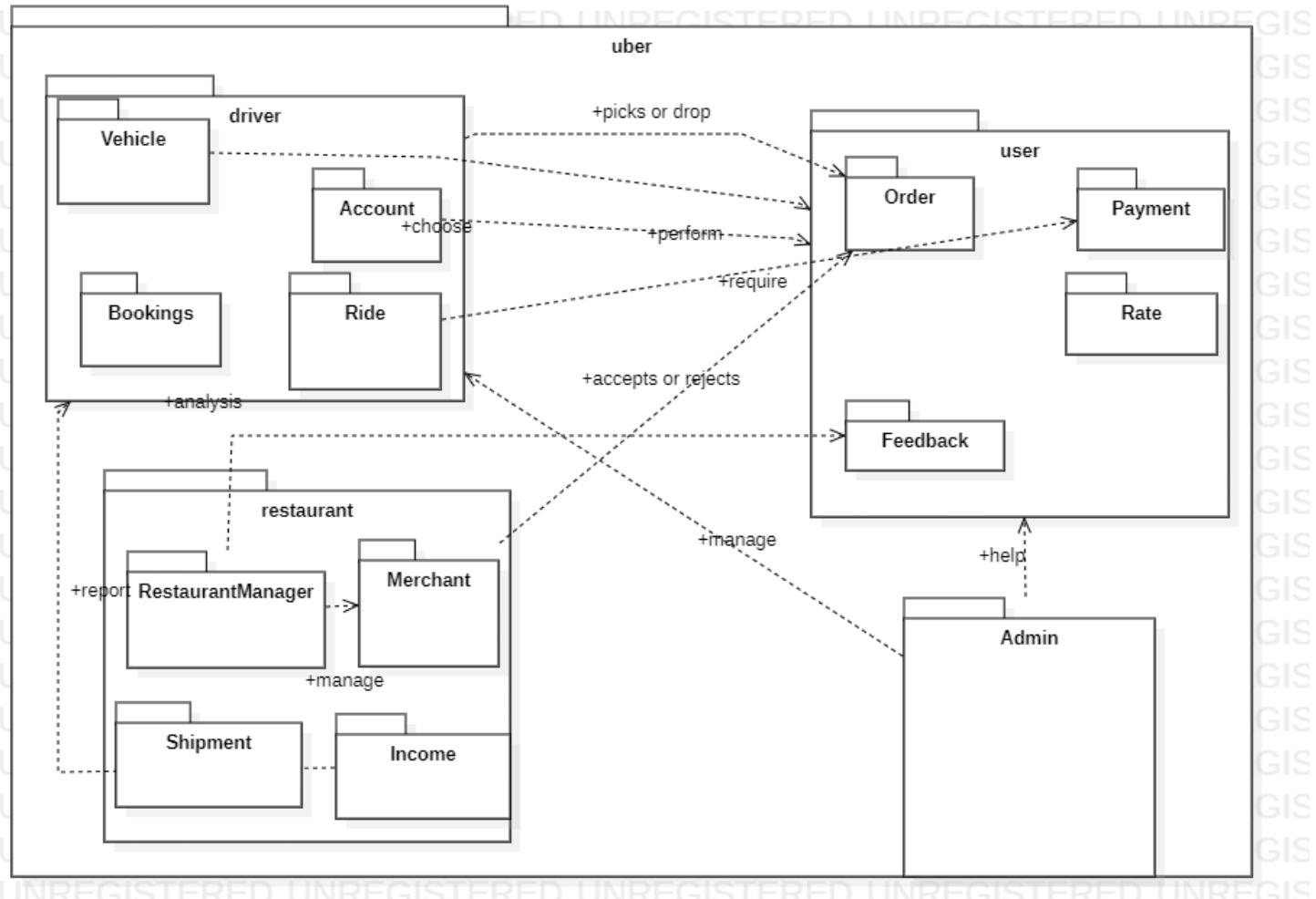
- The user must have confirmed the booking request.

post-condition:

- A nearby driver should be assigned to the booking request within a reasonable amount of time.

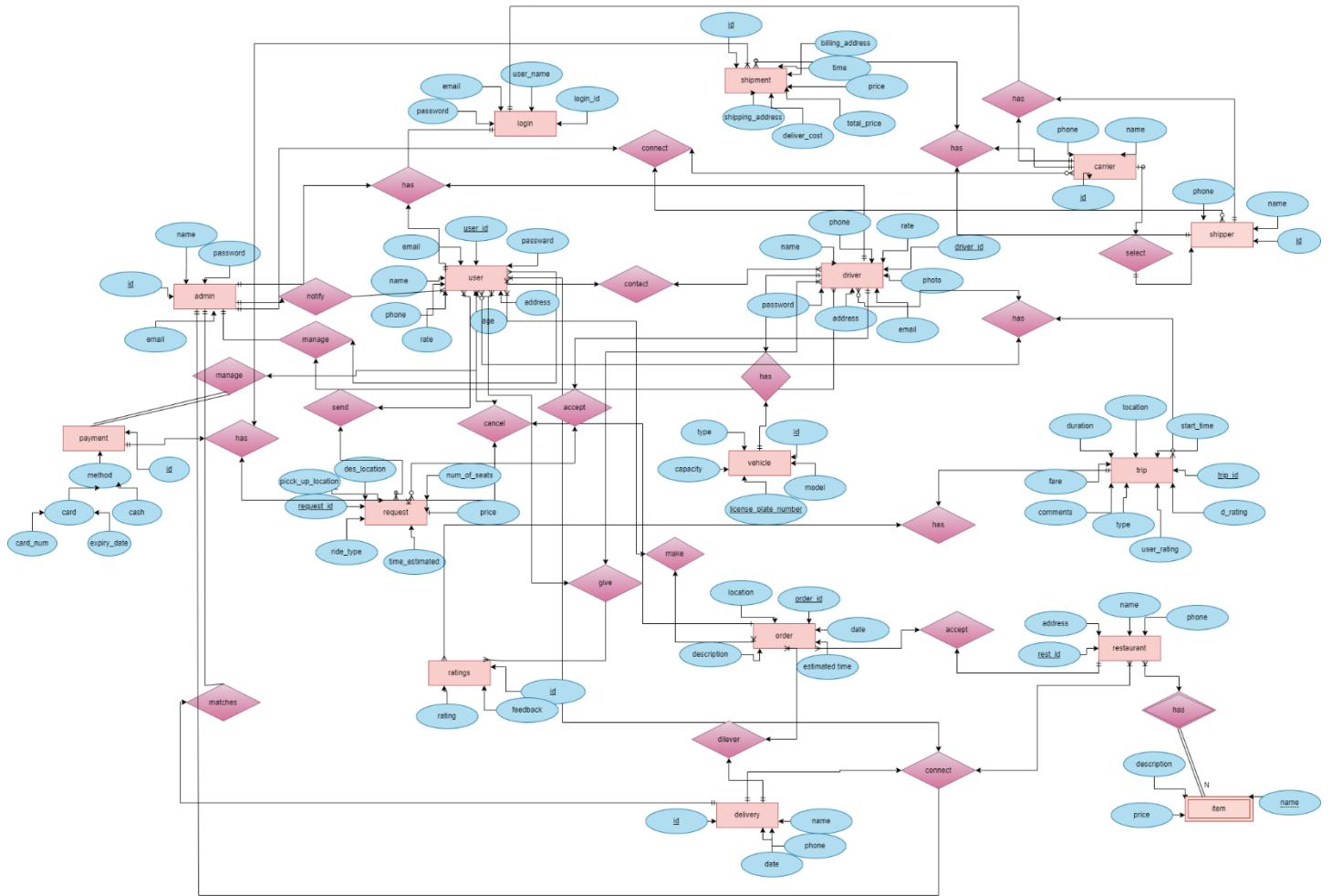
- The user should receive a notification when the driver has been assigned and when the driver is arriving at the pickup location.
- The user should be able to track the driver's location and estimated time of arrival through the Uber app.
- The driver should arrive at the pickup location within a reasonable amount of time.

c) Backage diagram

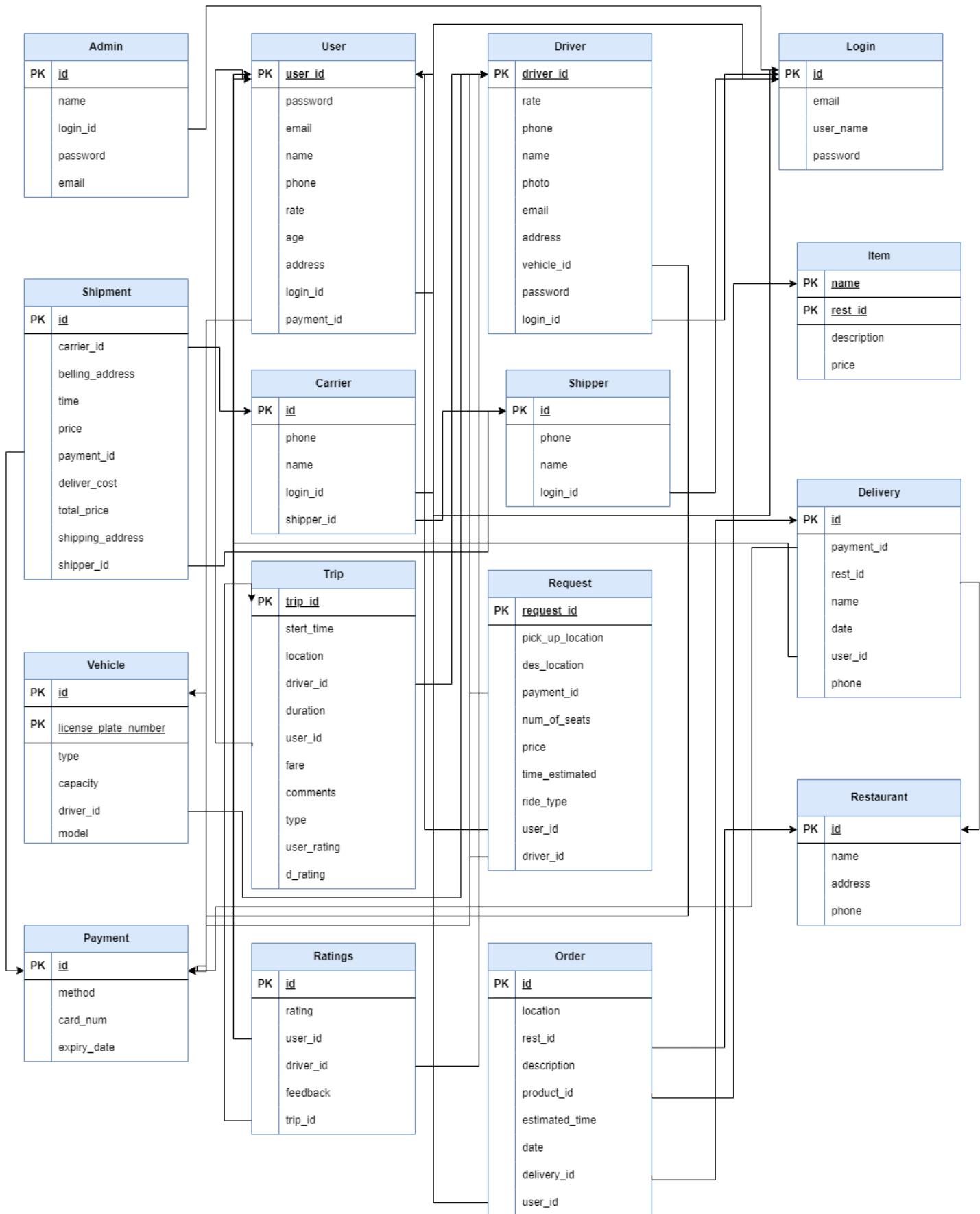


V. Database Diagrams

a) ERD



b) Table



VI. System architecture

MCV

