



FPT UNIVERSITY

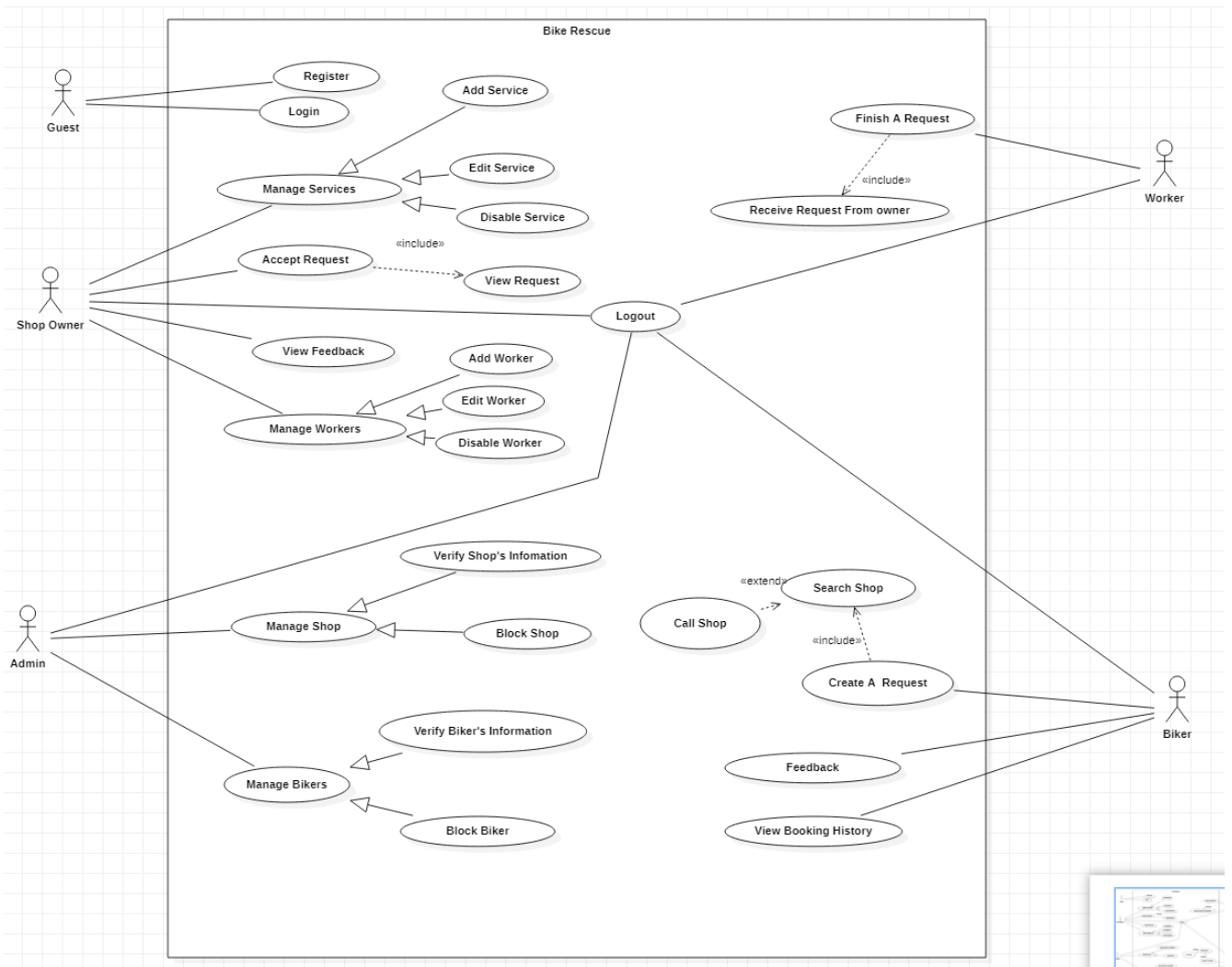
Assignment 1

Bike Recuse Application

Group 1	
Group members	Phan Si Nguyen – SE130582 (Leader) Ngo Vu Kha Minh – SE130516 Dong Huu Long – SE130623 Do Duc Nam – SE130186
Supervisor	<u>Mr. Lai Duc Hung</u>

-Ho Chi Minh City, 15/07/2020-

I. USE CASE DIAGRAM



II. USE CASE DETAIL

<Shop Owner> Add Service

Use case diagram

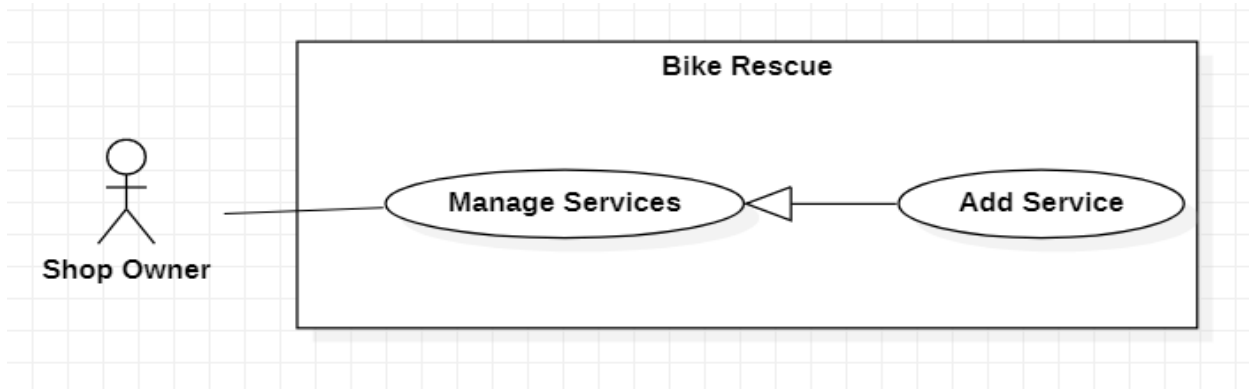


Figure 1 <Shop owner>Add Service

Use Case Specification

USE CASE – BRU003			
Use Case No.	BRU001	Use Case Version	1.0
Use Case Name	Add Service		
Author	Dong Huu Long		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none">- Shop owner			
Summary: <ul style="list-style-type: none">- This use case allows shop owner to add new service of shop.			
Goal: <ul style="list-style-type: none">- Add service of shop successfully.			
Triggers: <ul style="list-style-type: none">- In manage service page, shop owner clicks “Add Service” button.			
Preconditions: <ul style="list-style-type: none">- User is logged as role shop owner.			
Post condition: <ul style="list-style-type: none">- New service information is stored in the database.- System shows a successful message with add new service.			

Main Success Scenario:

Step	Actor Action	System Response
1	Shop owner click "Add New Service" button.	System displays a form for the shop owner to fill in the following information: - Name Service: free text input, required, length 2 – 50. - Price Service: number text input, value minimum 1000 VND. - Describe Service : free text input, required, length 2 – 50.
2	Shop owner click "Save Service" button.	Information of new service save in database. System show message: "Add Service Successful". System navigates to manage page of shop owner. [Exception 1] [Exception 2]

Alternative Scenario: N/A**Exception:**

Step	Actor Action	System Response
1	Shop owner enter wrong identity information.	System shows message on the corresponding field "This field is required"
2	The service is existed.	Wrong the service is existed in shop service. System shows message "This service is existed".

Relationships: N/A**Business Rules:**

- The price of services must be check by admin:
 - + For small services: the price can't bigger than 100.000 VND (tire patch...) And if the distance less than 5km the biker must pay 20.000 VND for service money.
 - + If the distance more than 5km the biker must pay 10.000 VND * distance.
 - + For bigger services: free money if the distance less than 5km.

<Shop Owner> Disable service Use case diagram

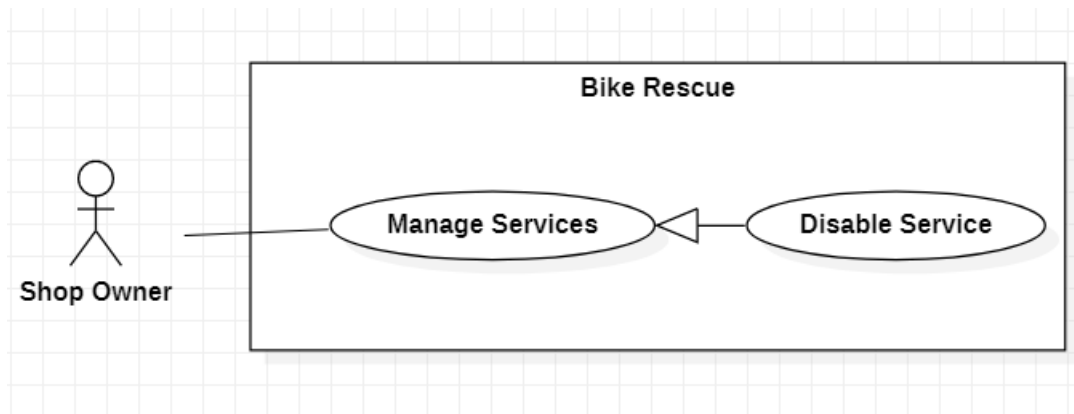


Figure2<Shop Owner> Disable Service

Use Case Specification

USE CASE - BRU002			
Use Case No.	BRU002	Use Case Version	1.0
Use Case Name	Disable service		
Author	Do Duc Nam		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none"> - Shop owner Summary: <ul style="list-style-type: none"> - This use case allows shop owner to disable service. Goal: <ul style="list-style-type: none"> - Disable service of shop successfully. Triggers: <ul style="list-style-type: none"> - Shop owner click "Disable Service" switch button. Preconditions: <ul style="list-style-type: none"> - User is logged in as role shop owner. Post condition: <ul style="list-style-type: none"> - Disable status of service is update in the database. - System shows a successful message with disable service. 			

Main Success Scenario:

Step	Actor Action	System Response
1	Shop owner click "Disable Service" switch button.	System update status of service in database. System show message: "Disable Service Successful". [Exception1]

Alternative: N/A**Exception:**

Step	Actor Action	System Response
1		System show message the "System is busy" when the internet is lost

Relationships: N/A**Business Rules: N/A**

< Shop Owner > Edit Service

Use case diagram

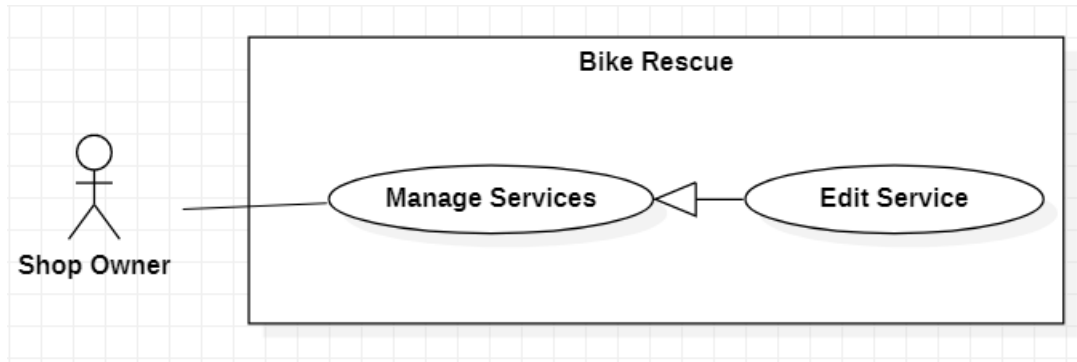


Figure 3<Show Owner> Edit Service

Use Case Specification

USE CASE – BRU003			
Use Case No.	BRU003	Use Case Version	1.0
Use Case Name	Edit Service		
Author	Dong Huu Long		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none">- Shop owner.			
Summary: <ul style="list-style-type: none">- This use case allows shop owner to update name, price and describe of service.			
Goal: <ul style="list-style-type: none">- Edit information of service successfully.			
Triggers: <ul style="list-style-type: none">- Shop owner click “Edit Service” button.- Shop owner click on name of service.			
Preconditions: <ul style="list-style-type: none">- User is logged in as role shop owner.			
Post condition: <ul style="list-style-type: none">- Name, price and describe of service are update in database.- System shows a successful message with update service.			

Main Success Scenario:

Step	Actor Action	System Response
1	In manage service page, shop owner click "Edit Service" button.	System displays a form for the shop owner to fill in the following information: - Name Service: free text input, required, length 2 – 50. - Price Service: number text input, value minimum 1000 VND. - Describe Service : free text input, required, length 2 – 50.
2	In edit service page, shop owner click "Update Service" button.	New information of services is save in database. System show message: "Edit Service Successful". System navigates to manage page of shop owner. [Exception 1]

Alternative Scenario: N/A

Exception:

Step	Actor Action	System Response
1	Shop owner enter wrong identity information.	System shows message on the corresponding field "This field is required"

Relationships: N/A

Business Rules:

- The price of services must be check by admin:
 - + For small services: the price can't bigger than 100.000 VND (tire patch...) And if the distance less than 5km the biker must pay 20.000 VND for service money.
 - + If the distance more than 5km the biker must pay 10.000 VND * distance.
 - + For bigger services: free money if the distance less than 5km.

<Biker> Create a request
Use case diagram

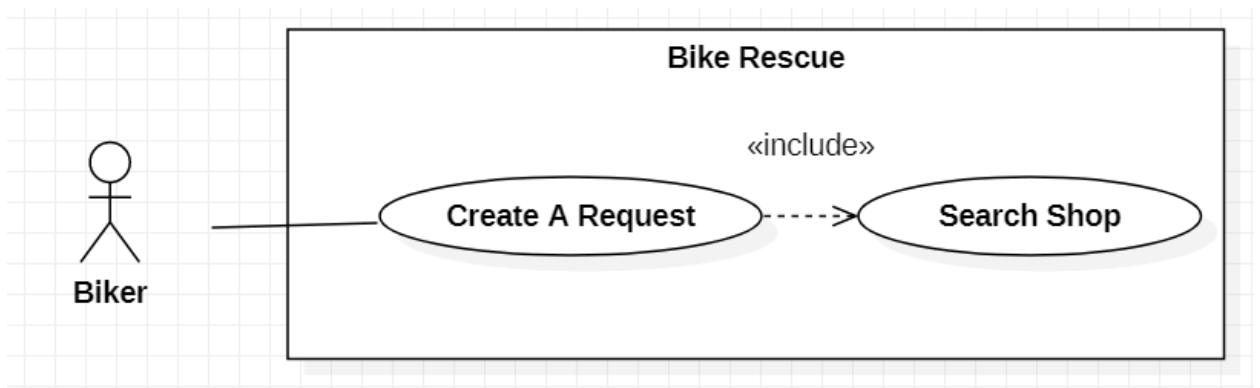


Figure 4<Biker> Create A Request

Use Case Specification

USE CASE - BRU002			
Use Case No.	BRU004	Use Case Version	1.0
Use Case Name	Create A Request		
Author	Phan Si Nguyen		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none"> - Biker Summary: <ul style="list-style-type: none"> - This use case allow biker to create a request. Goal: <ul style="list-style-type: none"> - Create a request successfully. Triggers: <ul style="list-style-type: none"> - In home page, biker click “Booking Service” Preconditions: <ul style="list-style-type: none"> - User is logged in as role biker. Post condition: <ul style="list-style-type: none"> - Dispatcher to search shop page. 			

Main Success Scenario:

Step	Actor Action	System Response
1	In home page, biker click “ Booking Service” button.	System navigates to search service page.

Exception: N/A

Relationships: - Include “Search Shop”.

Alternative Scenario: N/A

Business Rules:

- Non-member rescue fee:
 - + Tire patch: in the morning: 20.000 VND, after that 30.000 VND
 - + Broken machine: in the morning: 100.000 VND, after that 150.000 VND
 - + Transportation fee: less than 5km: 20.000 VND.
more than 5km: 20.000 VND + 10.000 VND each km.
- Member rescue fee:
 - + Tire patch: in the morning: 15.000 VND, after that 25.000 VND
 - + Broken machine: in the morning: 70.000 VND, after that 100.000 VND
 - + Transportation fee: less than 5km: 10.000 VND.
more than 5km: 10.000 VND + 5.000 VND each km.

<Biker> Search Shop

Use case diagram

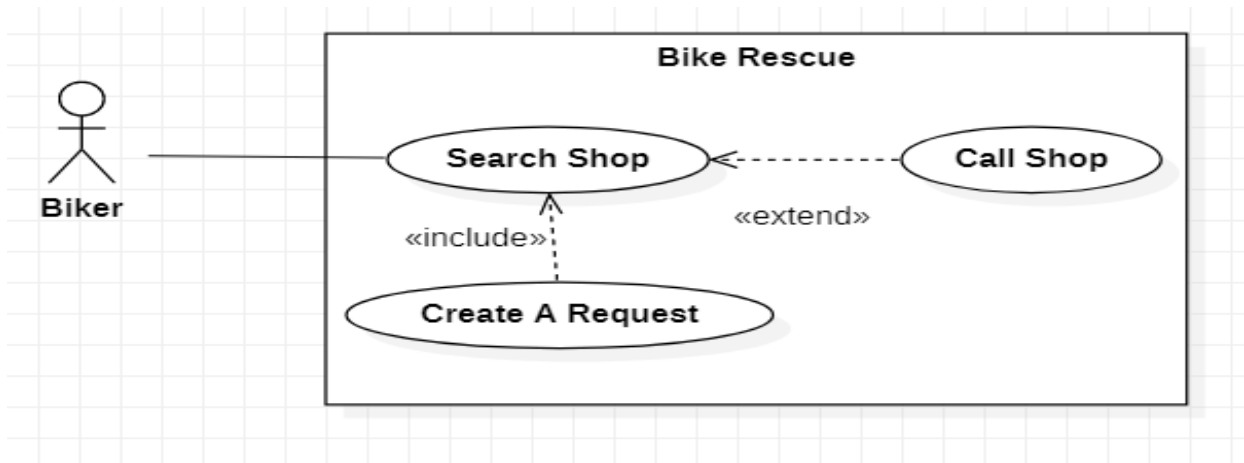


Figure5<Biker> Search Shop

Use Case Specification

USE CASE – BRU002			
Use Case No.	BRU005	Use Case Version	1.0
Use Case Name	Search service		
Author	Phan Si Nguyen		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none"> - Biker Summary: <ul style="list-style-type: none"> - This use case allows the biker to search shops by nearest location. Goal: <ul style="list-style-type: none"> - List of shops are shown successfully. Triggers: <ul style="list-style-type: none"> - Biker click “Search Shop” button. Preconditions: <ul style="list-style-type: none"> - User is logged in as Biker. Post condition: <ul style="list-style-type: none"> - Lists of shops are shown successfully. 			

Main Success Scenario:

Step	Actor Action	System Response
1	In search shop page, biker click on drop box button to choose bike want to booking service.	System check information of bike.
2	Biker enter bike problem of bike in text box.	Problems Information: - Problem descriptions: free text input, required, length 2 – 50. [Exception 1]
3	Biker click “Search Shop” button.	System show list of shops that are near the biker. Shop information: - Shop name: String - Shop address: String - Shop phone: Integer [Exception 2]

Exception:

No	Actor Action	System Response
1	Description of bike required form fields is not filled in.	System show message: Please enter your bike problem ”.
2	No shop is found	System show message: Can’t found any shops ”.

Alternative Scenario: N/A**Relationships:**

- Create a request Include “Search Shop”.
- Call shop extend “Search Shop”.

Business Rules: N/A

<Biker> View booking history

Use case diagram

Bike Recuse

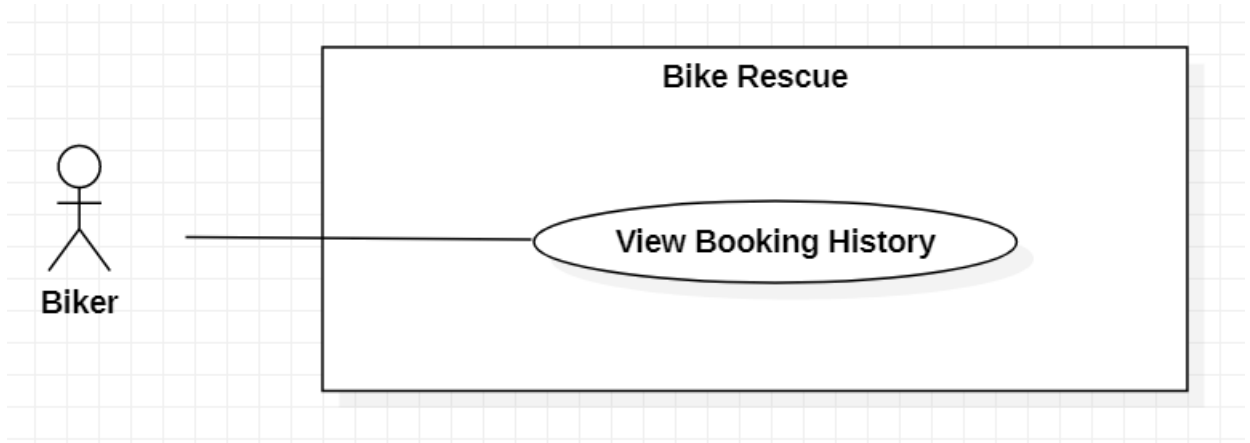


Figure 6<Biker> View booking history

Use Case Specification

USE CASE – BRU001			
Use Case No.	BRU006	Use Case Version	1.0
Use Case Name	View booking history		
Author	Ngo Vu Kha Minh		
Date	06/06/2020	Priority	Normal
Actor: <ul style="list-style-type: none">- Biker			
Summary: <ul style="list-style-type: none">- This use case allows biker to view booking history.			
Goal: <ul style="list-style-type: none">- Booking history of biker is shown successfully.			
Triggers: <ul style="list-style-type: none">- Biker click “View Booking History” button.			
Preconditions: <ul style="list-style-type: none">- User is logged in as biker.			
Post condition: <ul style="list-style-type: none">- Information of bookings history are view successfully.			

Main Success Scenario:

Step	Actor Action	System Response
1	In home page, biker click "Booking History" button.	System navigate to booking history page. System shows booking history, each booking history includes: <ul style="list-style-type: none">- Biker name: String- Shop address: String- Worker name: String- Phone worker: String- Shop shopId: bigint- Date booking: datetime- Total Price: float [Alternative1]

Alternative:

No	Actor Action	System Response
1	Biker do not have booking history	System show message: Can't found history booking ".

Exception: N/A**Relationships:** N/A**Business Rules:** N/A

<Biker> Feedback
Use case diagram

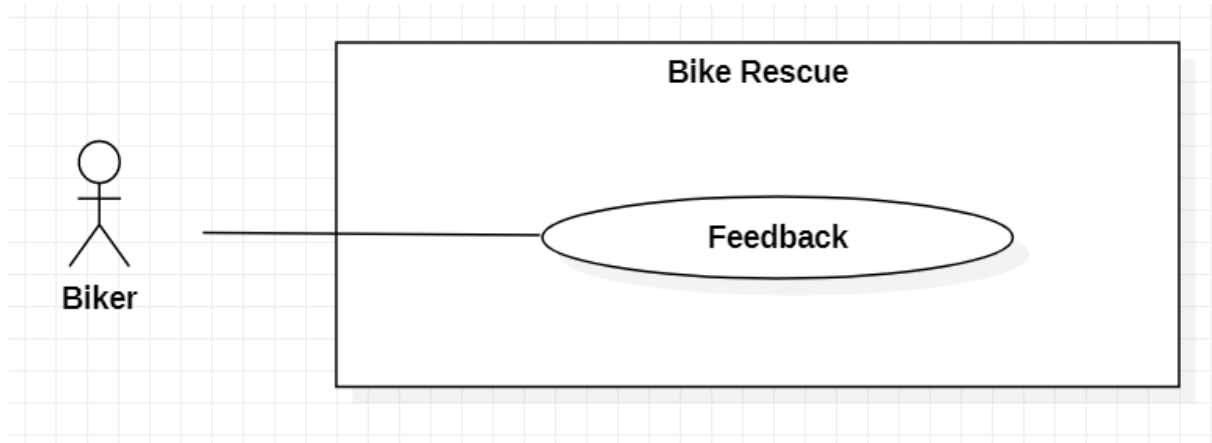


Figure 7 <Biker> Feedback

USE CASE - BRU008			
Use Case No.	BRU007	Use Case Version	1.0
Use Case Name	Feedback		
Author	Ngo Vu Kha Minh		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none">- Biker			
Summary: <ul style="list-style-type: none">- This use case allows biker to feedback.			
Goal: <ul style="list-style-type: none">- Feedback save to database successfully.			
Triggers: <ul style="list-style-type: none">- Biker click "Feedback" button.			
Preconditions: <ul style="list-style-type: none">- User is logged in as role biker.- Biker finished booking successfully.			
Post condition: <ul style="list-style-type: none">- Feedback save to database successfully.- System show message "Feedback Successfully".			

Main Success Scenario:

Step	Actor Action	System Response
1	After finished booking, biker click "Feedback" button.	System navigate to feedback page.
2	In feedback page, biker enter feedback to text box and rate the rank.	Feedback description: String, length 2 to 50 Default rank is 5. [Exception1]
3	Biker click "Send Feedback" button.	System show message: "Send feedback successfully". The application go back home page.

Exception:

No	Actor Action	System Response
1	Description of bike required form fields is not filled in.	System show message: Please enter your feedback".

Alternative: N/A**Relationships: N/A****Business Rules: N/A**

<Biker> Call Shop Use case diagram

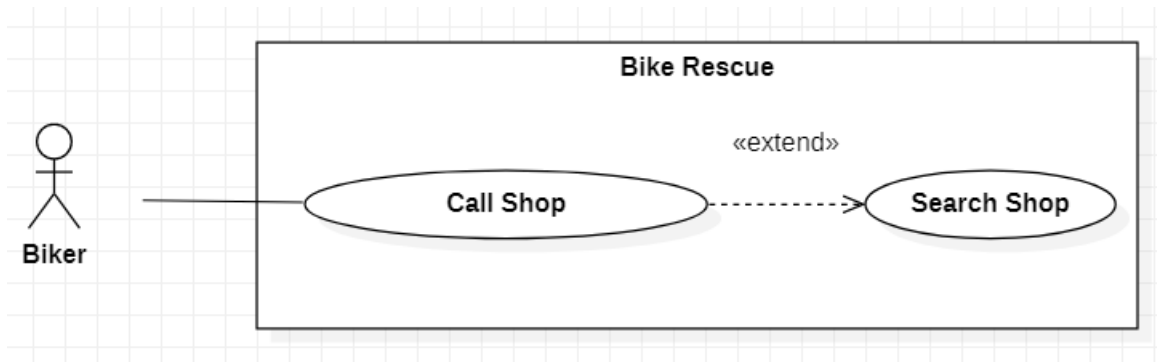


Figure 8 <Biker> Call Shop

USE CASE – BRU008			
Use Case No.	BRU008	Use Case Version	1.0
Use Case Name	Call Shop		
Author	Do Duc Nam		
Date	06/06/2020	Priority	High
Actor: <ul style="list-style-type: none"> - Biker Summary: <ul style="list-style-type: none"> - This use case allows biker to call shop. Goal: <ul style="list-style-type: none"> - Send request to shop owner successfully. Triggers: <ul style="list-style-type: none"> - Biker click “Call Shop” button. Preconditions: <ul style="list-style-type: none"> - User is logged in as role biker. - Biker search list of shops successfully. Post condition: <ul style="list-style-type: none"> - Send request to shop owner successfully. - System show message “Call shop Successfully”. 			

Main Success Scenario:

Step	Actor Action	System Response
1	After search shop, biker click "Call Shop" button.	System send a request to shop owner and wait for shop owner accept. System go to booking page and view message.

Exception: N/A

Alternative: N/A

Relationships: N/A

Business Rules: N/A