FPT UNIVERSITY

Assignment

Bike Rescue Application

Group 1	
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Supervisor	**Mr. Lai Duc Hung**

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I. USE CASE DIAGRAM
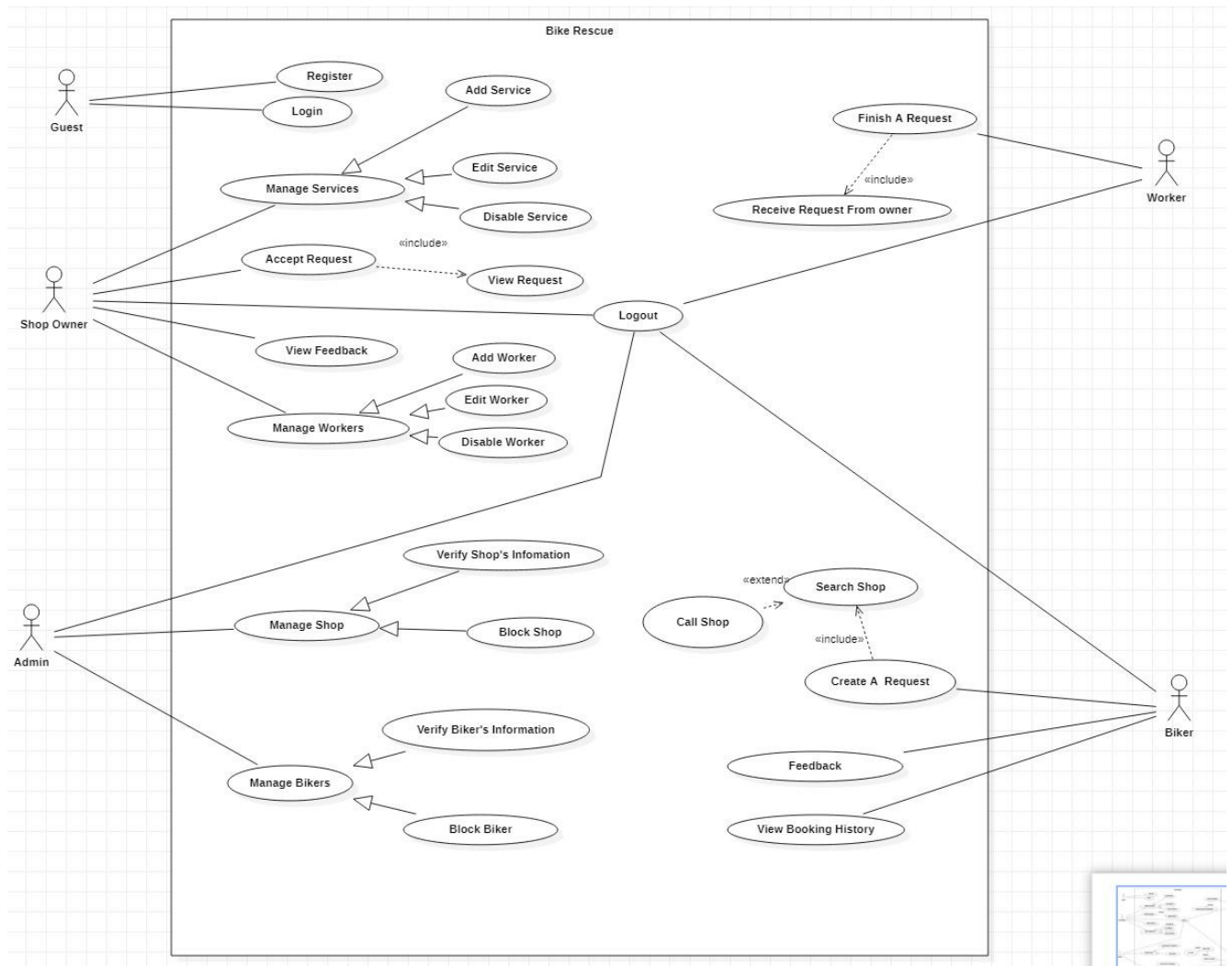
II. USE CASE DETAIL

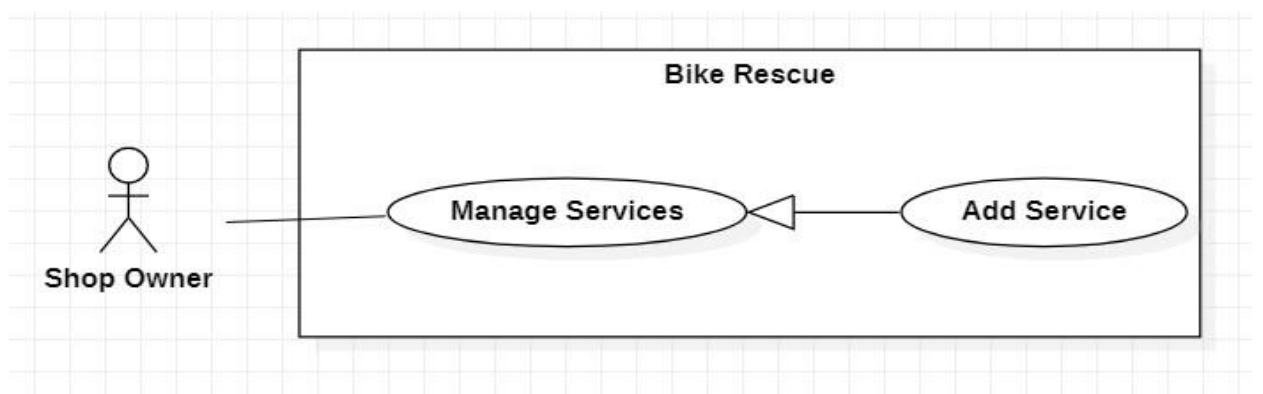### <Shop Owner> Add Service

Use case diagram

Figure 1 <Shop owner>Add Service   Use Case Specification

USE CASE – BRU001			
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:
- Shop owner **Summary:**
- This use case allows shop owner to add new service of shop.

Goal:
- Add service of shop successfully.

Triggers:
- In manage service page, shop owner clicks "Add Service" button.

Preconditions:
- User is logged as role shop owner.

Post condition:
- 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. [Exception 1] [Exception 2]
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.

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: Specializes for "Manage Services".

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.
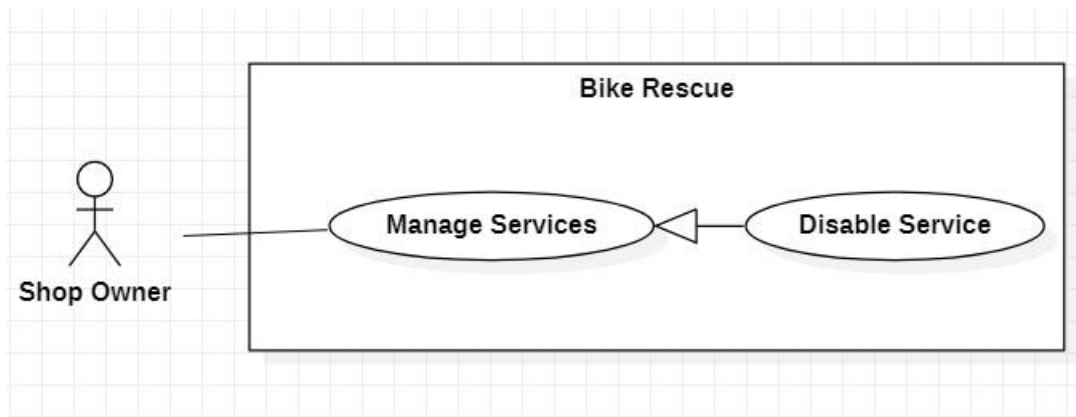
<Shop Owner> Disable Service
Use case diagram

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:
- Shop owner **Summary:**
- This use case allows shop owner to disable service.

Goal:
- Disable service of shop successfully.

Triggers:
- Shop owner click "Disable Service" switch button.

Preconditions:
- User is logged in as role shop owner.

Post condition:
- 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 Successfully".

Alternative: N/A

Exception: N/A

Relationships: Specializes for "Manage Services"

Business Rules: N/A

< Shop Owner > Edit Service   Use case diagram
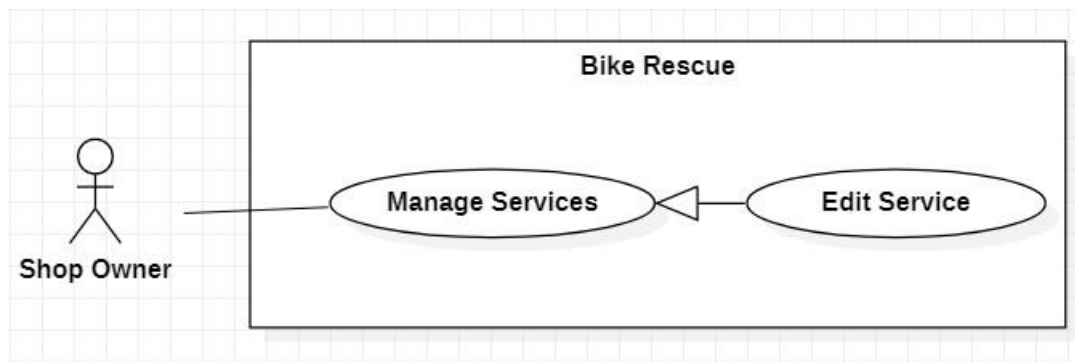
Figure 3<Show Owner> Edit Service

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:
- Shop owner.

Summary:
- This use case allows shop owner to update name, price and describe of service.

Goal:
- Edit information of service successfully.

Triggers:
- Shop owner click "Edit Service" button.

Preconditions:
- User is logged in as role shop owner.

Post condition:
- 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. [Exception 1]
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.

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: Specializes for "Manage Services".

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
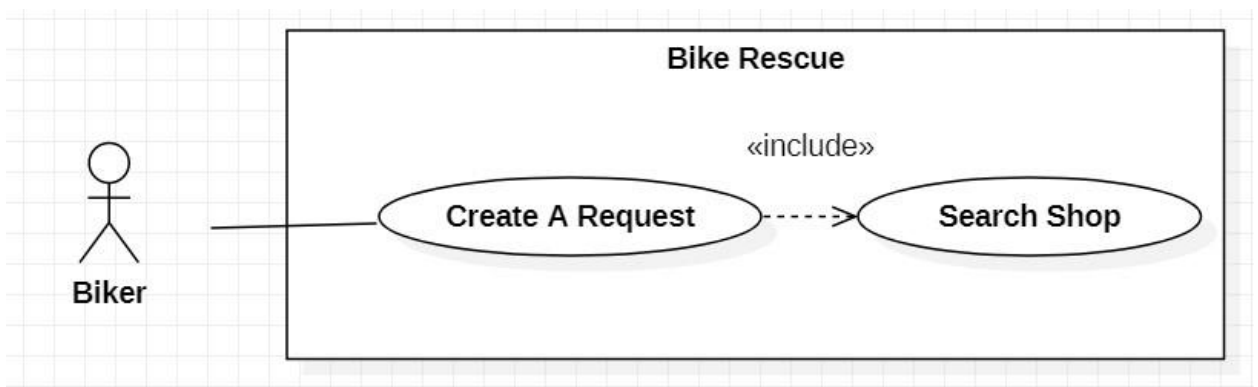
Figure 4<Biker> Create A Request

Use Case Specification

USE CASE – BRU004			
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:
- Biker **Summary:**

- This use case allow biker to create a request. **Goal:**
- Create a request successfully.

Triggers:
- In home page, biker click "Booking Service"

Preconditions:
- User is logged in as role biker. **Post condition:**

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

Alternative Scenario: N/A

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 ".

Relationships: - Include "Search Shop".

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.
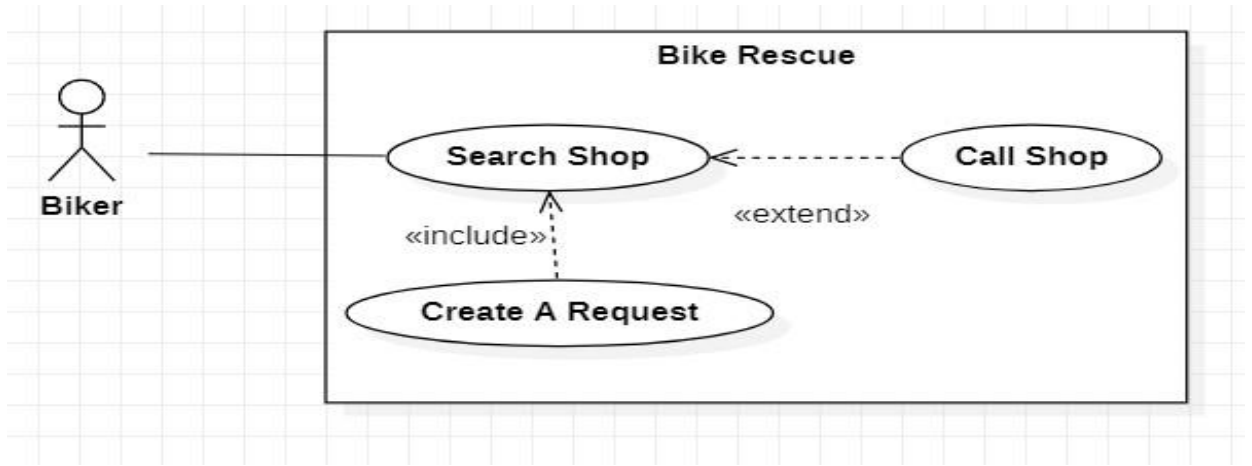
<Biker> Search Shop
Use case diagram

Figure5<Biker> Search Shop

Use Case Specification

USE CASE – BRU005			
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:
- Biker **Summary:**
- This use case allows the biker to search shops by nearest location.

Goal:
- List of shops are shown successfully.

Triggers:
- Biker click "Search Shop" button.

Preconditions:
- User is logged in as Biker.

Post condition:
- 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.
3	Biker click "Search Shop" button.	[Exception 1] [Exception 2] System show list of shops that are near the biker. Shop information: - Shop name: String - Shop address: String - Shop phone: Integer

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:
 - Included by "Create a Request".
 - Extends to "Call shop".

Business Rules: N/A

<Biker> View booking history
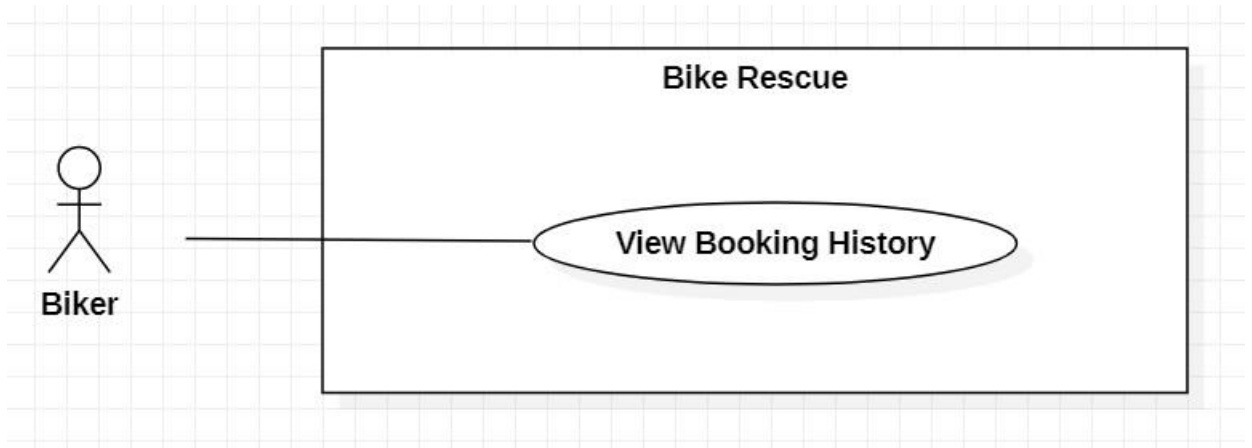### Use case diagram

Bike Recuse

Figure 6<Biker> View booking history

Use Case Specification

USE CASE – BRU006			
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:
- Biker **Summary:**
- This use case allows biker to view booking history.

Goal:
- Booking history of biker is shown successfully.

Triggers:
- Biker click "View Booking History" button.

Preconditions:
- User is logged in as biker.

Post condition:
- 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: - Biker name: String - Shop address: String - Worker name: String - Phone worker: String - Shop shopId: bigint - Date booking: datetime - Total Price: float [Alternative1]

Alternative: N/A

Exception:

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

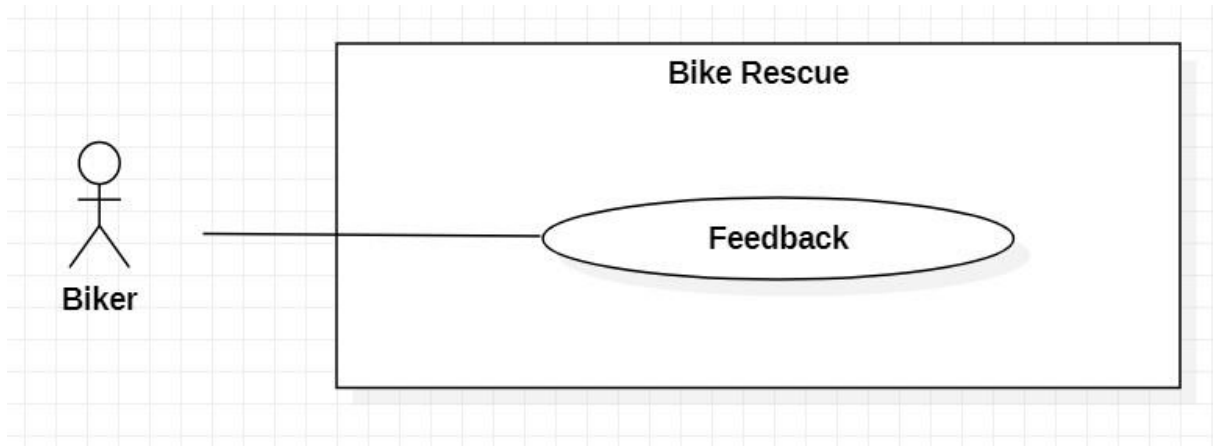**Relationships:** N/A
Business Rules: N/A

<Biker> Feedback
Use case diagram

Figure 7 <Biker> Feedback

USE CASE – BRU007			
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:
-      Biker **Summary:**
-      This use case allows biker to feedback.

Goal:
-      Feedback save to database successfully.

Triggers:
-      Biker click "Feedback" button.

Preconditions:
-      User is logged in as role biker.

Post condition:
-      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.
3	Biker click "Send Feedback" button.	System show message: "Send feedback successfully". The application go back home page. [Exception1]

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

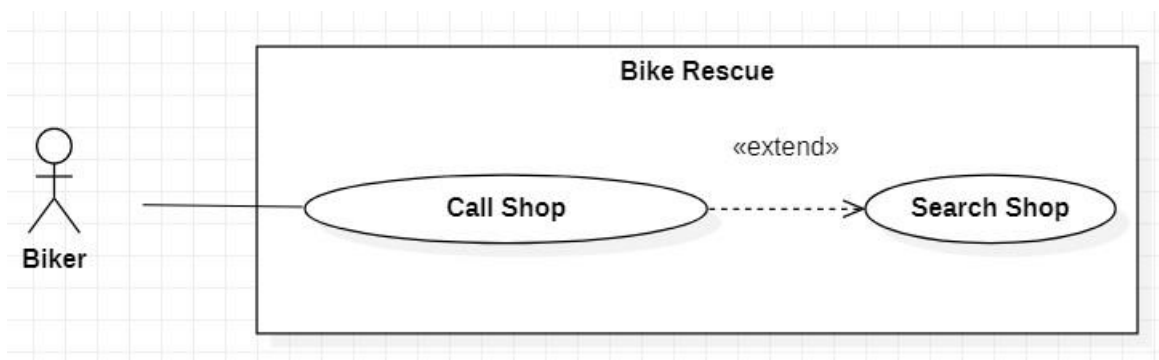**Relationships: N/A**

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:
- Biker **Summary:**
- This use case allows biker to call shop.

Goal:
- Send request to shop owner successfully.

Triggers:
- Biker click "Call Shop" button.

Preconditions:
- User is logged in as role biker.

Post condition:
- 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: "Call Shop" extend to "Search Shop".

Business Rules: N/A