

## **Project Name:**

Vehicle Management System

## **Team-mates:**

1. Nabajit Dey (ID: 19-40618-1)
2. Pranto Saha (ID: 18-38805-3)
3. SHAON, INDROJIT DHE (ID: 18-38674-3)
4. Sakib-Ul-Ahsan (ID: 20-42978-1)

# CRC

1.

<b>Class:</b> Customer	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Create user account	Car Owner
2. Account Confirmation	Car Driver
3. Create user profile	
4. Check services	
5. Book a service	
6. Pay for service	
7. Give review	
8. Use emergency service	

2.

<b>Class:</b> Mechanics	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Create garage account	Garage Owner
2. Account Confirmation	Garage Manager
3. Check new works	Garage IT Admin
4. Check pending works	
5. Complete a work	

3.

<b>Class:</b> Operation Team	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Handle emergency service	OT Manager
2. Assign tasks to the mechanics	OT Officer

4.

<b>Class:</b> HR Team	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Send data to Operation Team	HR Manager
2. Monitor booked services	HR Officers

5.

<b>Class:</b> Account Employee	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Create customer bills	Account Manager
2. Ask for payment	Account Senior Officer
3. Gives discount	

6.

<b>Class:</b> Developer	
<b>Subclass:</b>	
<b>Superclass:</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
1. Add new features	Senior Developer
2. Monitor our system	Junior Developer

# CLASS COMPARTMENTS

1.

<div>&lt;&lt;User&gt;&gt; Customer</div> <div>{Last updated 24-10-21}</div>
<div>- customer name: String</div> <div>- address: String</div> <div>- mobile number: integer</div> <div>- car number: integer</div> <div>- car details: String</div> <div>- balance: float</div>
<div>+ createAccount ()</div> <div>+ accountConfirmation ()</div> <div>+ createProfile ()</div> <div>+ checkServices ()</div> <div>+ bookServices ()</div> <div>+ payForSevices ()</div> <div>+ giveReview ()</div> <div>+ useEmergency ()</div>



2.

<div><div>&lt;&lt;User&gt;&gt;</div><div>Mechanics</div><div>{Last updated 24-10-21}</div></div>
<div><div><div>- garage name: String</div><div>- address: String</div><div>- mobile number: integer</div><div>- garage details: String</div><div>- service details: String</div><div>- price list: float</div></div></div>
<div><div><div>+ createAccount ()</div><div>+ accountConfirmation ()</div><div>+ checkNewWorks ()</div><div>+ checkPedingWorks ()</div><div>+ completeWork ()</div></div></div>

3.

<div>&lt;&lt;User&gt;&gt; Operation Team</div> <div>{Last updated 24-10-21}</div>
<div><ul style="list-style-type: none"><li>- customer's info: String</li><li>- customer's number: integer</li><li>- mechanic's info: String</li><li>- mechanic's number: integer</li><li>- Emergency call info: String</li></ul></div>
<div><div>+ handleEmergency ()</div><div>+ assignWork ()</div></div>

4.

<div>&lt;&lt;User&gt;&gt; HR Team</div> <div>{Last updated 24-10-21}</div>
<div>- customer data: String - transaction id: integer - Booked list: String</div>
<div>+ sendData () + monitorBookedList ()</div>

5.

<div><div>&lt;&lt;User&gt;&gt;</div><div>Account Employee</div><div>{Last updated 24-10-21}</div></div>	
<div><div>- bill id: integer</div><div>- bill data: String</div><div>- bill amount: float</div><div>- transaction id: integer</div><div>- transaction data: String</div></div>	
<div><div>+ createBills ()</div><div>+ askForPayment ()</div><div>+ giveDiscount ()</div></div>	

6.

<div>&lt;&lt;User&gt;&gt; Developer</div>	<div>{Last updated 24-10-21}</div>
<div>- feature list: String</div>	
<div>+ createNewFeatures ()</div>	

# **Project: Vehicle Management System**

## **Group – 04**

### **Project Statement**

- Our company is maintaining many mechanics with garages by online. They provide vehicle service, emergency road service, purchase vehicle service, car wash service to customers. The customer must book in advance to get any services without emergency. Then the garage authorities have to confirm it. Actually, after a successful login, a customer can choose any options, like - Home & On-road Emergency repair Support, Vehicle Health Consultancy, Vehicle Parts e-commerce platform and they can check the nearest garage from their location. On the other hand, the garage owner or manager who will use the app to communicate with the customers can quickly locate where the customer is. Our software will connect the company's chat bot so that anyone can check their car or bike problems using the

bot. In addition to these, there are several other benefits.

- Our HR Team check booked lists and send to Operation Team. Operation Team assign work to mechanics and handle emergency services. Our developer add new features. Our account employee create bills and gives discount. Also ask for payment. We need a system for communicate and control our employee and garage mechanics.

## **Class Diagram**

