

**# Project Name:**

**Vehicle Management System (VMS)**

**# GROUP - 04**

**Our team members:**

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

## **# PROJECT PROPOSAL PART:**

### **1. Does the project have a clear target market or audience?**

=> Yes, our project have a clear target market and audience also. We will add some new features in our software. Our unique features are Emergency customer support in the road, being able to buy every vehicle equipment and etc. Other companies do not have these features. But with these we will target the market. Also, we will target audience. We will give them standard equipment and emergency call support. Also by using our features, they will save their valuable time.

For emergency support, first they will call us. Then we will send our service on the spot. We will provide 24 hours service.

Moreover, the scope of work of garage owners will increase through our software. The software will be easily accessible. The peoples from the age of 20 to 65 years old will use the application. By using this application, both customers and garage mechanics can save their necessary time.

**2. Does the team demonstrate a thorough understanding of the need, problem or opportunity, including evidence of research into the need, problem or opportunity?**

=> Yes, Our team demonstrate a thorough understanding of the need, problem or opportunity, including evidence of research into the need, problem or opportunity.

We will always give priority to the needs of the customer. We will give maximum solution to their problems. Our team will always research new features. Then we will add new successful features. If we have a problem, we will try to solve it quickly.

### **3. Define the project's purpose and basic functionality easily in an understandable way?**

=> Our main purpose is to provide maximum benefits to the customer through online support.

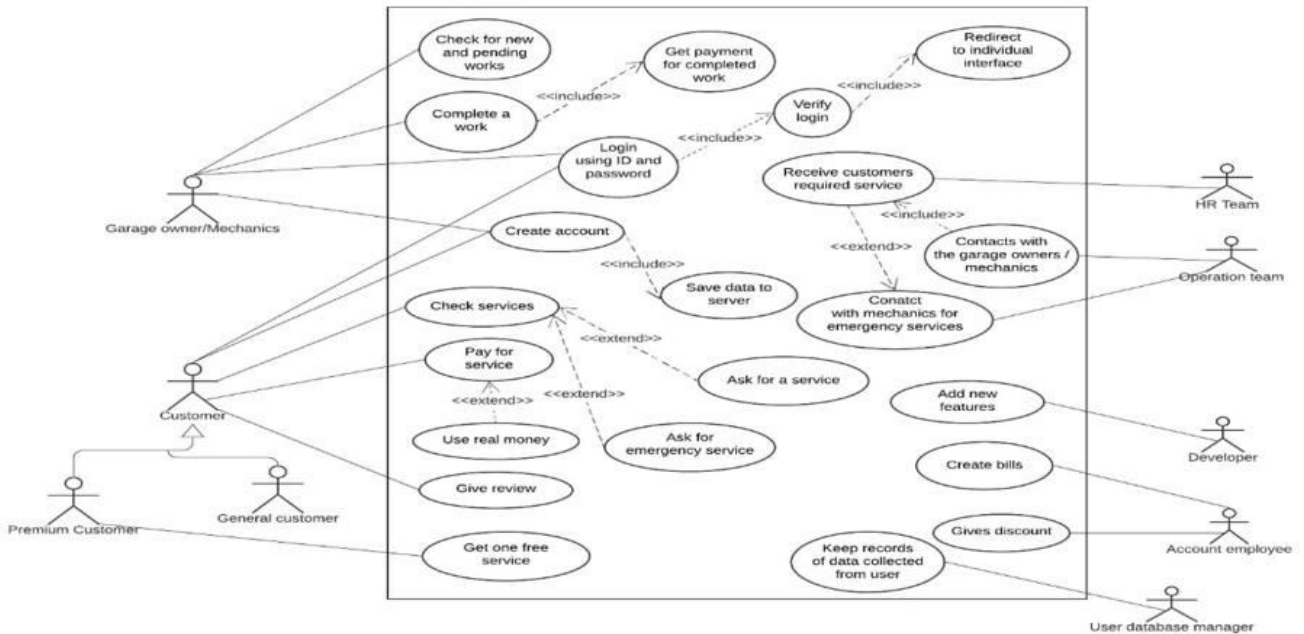
We provides 360-degree vehicle solutions & on-demand emergency repair services. In our app, there will be a login page. Customers and garage owners will create their accounts here. Each account will be an individual account, and the account database for the customers, garage owners and admin panel will be different. Everyone can use every required feature for them.

The website of the company will connect the software. 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.

Whether the customer will come to the garage or they need to send a mechanic if it is an on-road emergency repair. Mobile data or wi-fi will be needed to use the application. The 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.

# # USE CASE DIAGRAM:



1. Use Case: Working and payment process

2. Author: Group-4

3. Date: 01 October, 2021

**4. Purpose:** To provide customer service, emergency service and clear discussion about payment process.

**5. Overview:** "Vehicle Management System (VMS)" is an online platform that provides 360-degree vehicle solutions & on-demand emergency repair services. With the motto of being the roadside best friends, they want to create the biggest innovative revolution in the automobile industry within five years. They want to build an application for their customers and garage owners to manage everything efficiently. In their app, there will be a login page. If the customer or garage owner already have an account they can sign in;

Otherwise, they have to create an account.

Each account will be an individual account, and the account database for the customers, garage owners and admin panel will be different. With a single application, everyone can use every required feature for them. The website of the company will connect the software.

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. Whether the customer will come to the garage or they need to send a mechanic if it is an on-road



emergency repair or else what should a garage manager or owner know.

Admins of that company can also log in and check everything about the app. The company will update the software after some specific time for next five years depending on the customer feedback and upcoming new services. Mobile data or wi-fi will be needed to use the application. There will be some options for payment. The customers can use e-banking system for payment, or they can choose cash. They can buy automobile-related products using the app, and they can also pay using e-banking or cash on delivery. The software will connect the company's chat bot so that anyone can check their car or bike problems using the bot. They can detect a problem by themselves.

**6. Actors:** Customer (Premium, General), Garage owners/Mechanics, HR Team, Operation Team,

Developer, Account employee, User database manager.

## 7. Pre-Condition:

- Customer and Garage owner must have an account.
- The garage owners must provide updates on his services in software.
- HR team must accept the customer request.
- The account employee has to create the bill.

## 8. Post Condition:

- After successful login, the customer needs to be given specific directions for the desired service.
- The customer will choose the payment method.
- The developer will add new features for software.

## **9. Typical Course of events:**

Actor Actions	System Actions
1. Begins when a customer face vehicle related problem.	
2. Then customer open the app and logs in to the account.	3. The System verifies the customer ID and Password.
4. After a successful login, a customer go to service option and choose any service options.	
5. HR team receives customer's required service	6. The System sends information to the operation team
7. Operation team contacts with garage owners.	8. Also the system sends customer's required info to garage owners.
9. Then garage owners completes fixed work for customer.	10. The System sends work's info to account employee
11. Account employee creates the bill and sends it to the customer.	
12. Customer pays the bill	13. The System confirms customer's bill
14. User data management Saves all processing	

## **10. Alternative flow of events:**

- Step 3: Customer verification failed. Display an

error message, cancel login step.

- Step 7: Garage owner refuse the service.  
Operation team sends message HR team and HR team inform to customer.
- Step12: Customer failed to Payment. The bill has been added to the customer's loan repayment section.

## **11. Exceptional flow of events:**

- System failure in the process before step 3 or 6 or 8 or 10; cancel the next step

## # USER STORY:

### USER STORY-1

**\*G. O. = Garage Owner**

<b>Title:</b> Conduct the registration for G. O.	<b>Priority:</b> High	<b>Estimate:</b> 1 Day; 1 person
<b>As a</b> garage owner/ mechanics <b>I want to</b> create a service provider id <b>So that I can</b> add my car services		
<b>Acceptance criteria</b> <b>Given</b> Name, Email, Password <b>When</b> I provide the information <b>Then</b> I can access my account		
<b>Developer:</b> MD AJGAR UDDIN <b>Platform:</b> Android, Windows		

## USER STORY-2

<b>Title:</b> Conduct the registration for User	<b>Priority:</b> Medium	<b>Estimate:</b> 1 Day; 1 person
<b>As a</b> user <b>I want to</b> create a user id <b>So that I can</b> get services for my car		
<b>Acceptance criteria</b> <b>Given</b> Name, Email, Password <b>When</b> I provide the information <b>Then</b> I can allow to use any service with payment		
<b>Developer:</b> MD AJGAR UDDIN <b>Platform:</b> Android, Windows		

## USER STORY-3

<b>Title:</b> Use the service interface from user id	<b>Priority:</b> Medium	<b>Estimate:</b> 5 Day; 3 person
<b>As a user</b> <b>I want to</b> request for a service <b>So that I can</b> repair my car and purchase new product		
<b>Acceptance criteria</b> <b>Given</b> service names <b>When</b> I choose a service <b>Then</b> they give me those service		
<b>Developer:</b> Mrs. Hafsa Afrin <b>Platform:</b> Android, Windows		

## USER STORY-4

<b>Title:</b> Conduct the Home Page from GO id	<b>Priority:</b> High	<b>Estimate:</b> 3 Day; 2 person
<b>As a</b> garage owner/mechanics <b>I want to</b> check my pending work <b>So that I can</b> ensure about my work info		
<b>Acceptance criteria</b> <b>Given</b> account id, account password <b>When</b> I choose the option of pending work <b>Then</b> they can give me customer address & working details		
<b>Developer:</b> Mr Arefin Siddque <b>Platform:</b> Android, Windows		



## USER STORY-5

<b>Title:</b> Use Payment Method	<b>Priority:</b> High	<b>Estimate:</b> 5 Day; 3 person
<b>As a user</b> <b>I want to</b> use online payment system <b>So that I can</b> pay for my service		
<b>Acceptance criteria</b> <b>Given</b> customer's work details <b>When</b> I choose a payment option <b>Then</b> they give me a bill and I can clear my bill		
<b>Developer:</b> Mr Arefin Siddque <b>Platform:</b> Android, Windows		

## USER STORY-6

<b>Title:</b> Use the review interface	<b>Priority:</b> Medium	<b>Estimate:</b> 5 Day; 3 person
<b>As a user</b> <b>I want to</b> say about my service <b>So that I can</b> give them a sort feedback		
<b>Acceptance criteria</b> <b>Given</b> message box <b>When</b> I write my message in the box <b>Then</b> they will properly know about their customer satisfaction		
<b>Developer:</b> Mrs. Hafsa Afrin <b>Platform:</b> Android, Windows		

## USER STORY-7

<b>Title:</b> Conduct the Customer's Request	<b>Priority:</b> High	<b>Estimate:</b> 5 Day; 3 person
<b>As a</b> HR Team's member <b>I want to</b> contact with garage owners <b>So that I can</b> give the requesting service to user		
<b>Acceptance criteria</b> <b>Given</b> Customer's chosen data <b>When</b> I received a service message from user <b>Then</b> I will contact with nearby garage owner		
<b>Developer:</b> Mrs. Hafsa Afrin <b>Platform:</b> Android, Windows		

## USER STORY-8

<b>Title:</b> Conduct the system Management	<b>Priority:</b> Medium	<b>Estimate:</b> 8 Day; 6 person
<b>As a Developer</b> <b>I want to</b> update my system <b>So that I can</b> add new features		
<b>Acceptance criteria</b> <b>Given</b> System's Data <b>When</b> I develop my site <b>Then</b> user see new services		
<b>Developer:</b> Mrs Kaniz Fatema Roksana <b>Platform:</b> Android, Windows		




## USER STORY-9

<b>Title:</b> Conduct the database	<b>Priority:</b> Medium	<b>Estimate:</b> 3 Day; 2 person
<b>As a</b> user database manager <b>I want to</b> keep user records <b>So that I can</b> collect and store user data		
<b>Acceptance criteria</b> <b>Given</b> database <b>When</b> I include any data in the system <b>Then</b> Database will store those data		
<b>Developer:</b> Mrs. Kaniz Fatema Roksana <b>Platform:</b> Android, Windows		

## **# USER INTERFACE (UI):**

**\*\*\* Some of our Project's UI interface:**

**1.**

9:41   

× **Sign Up** [Login](#)

[Show](#)

☐ I would like to receive your newsletter and other promotional information.

[Sign Up](#)

[Forgot your password?](#)

Q W E R T Y U I O P  
A S D F G H J K L  
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123 space Go  
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2.

9:41

# Log In

Email

Password

Show

Log In

Forgot your password?

QWERTYUIOP

ASDFGHJKL

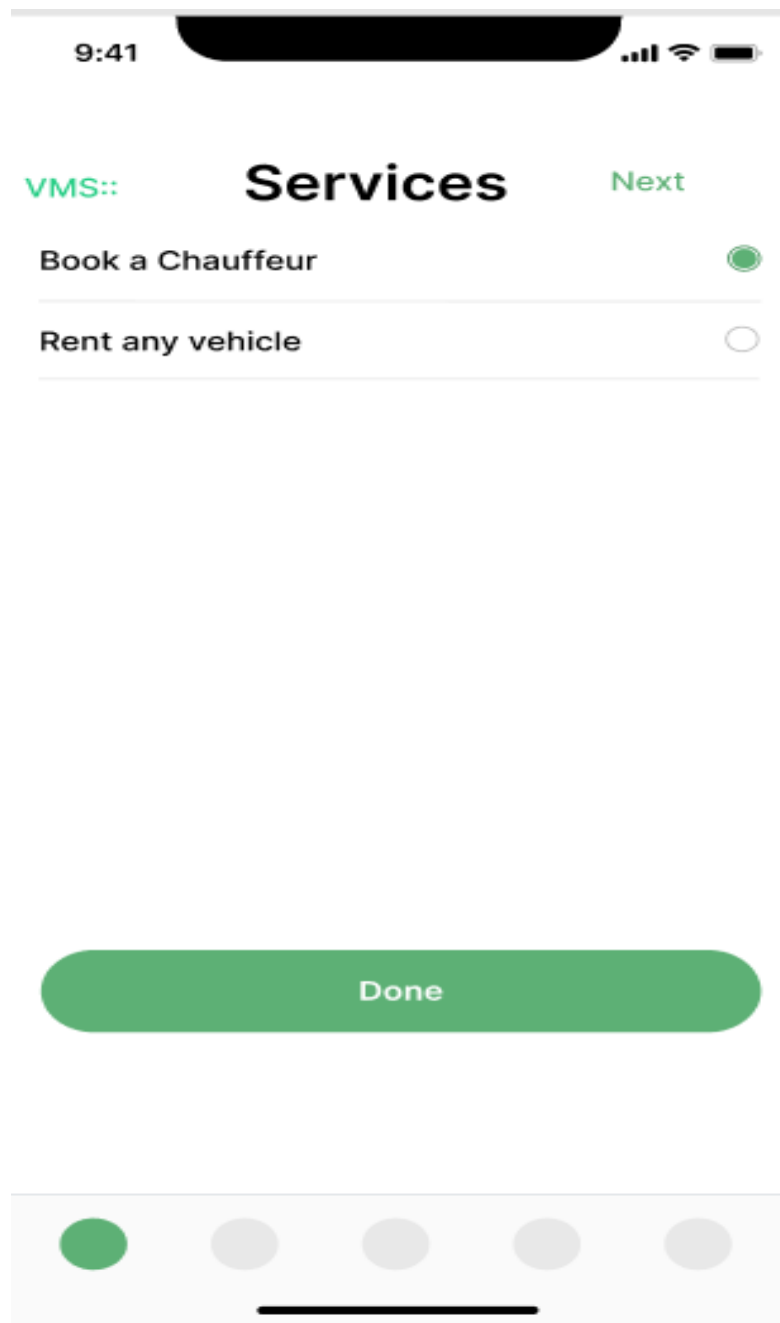
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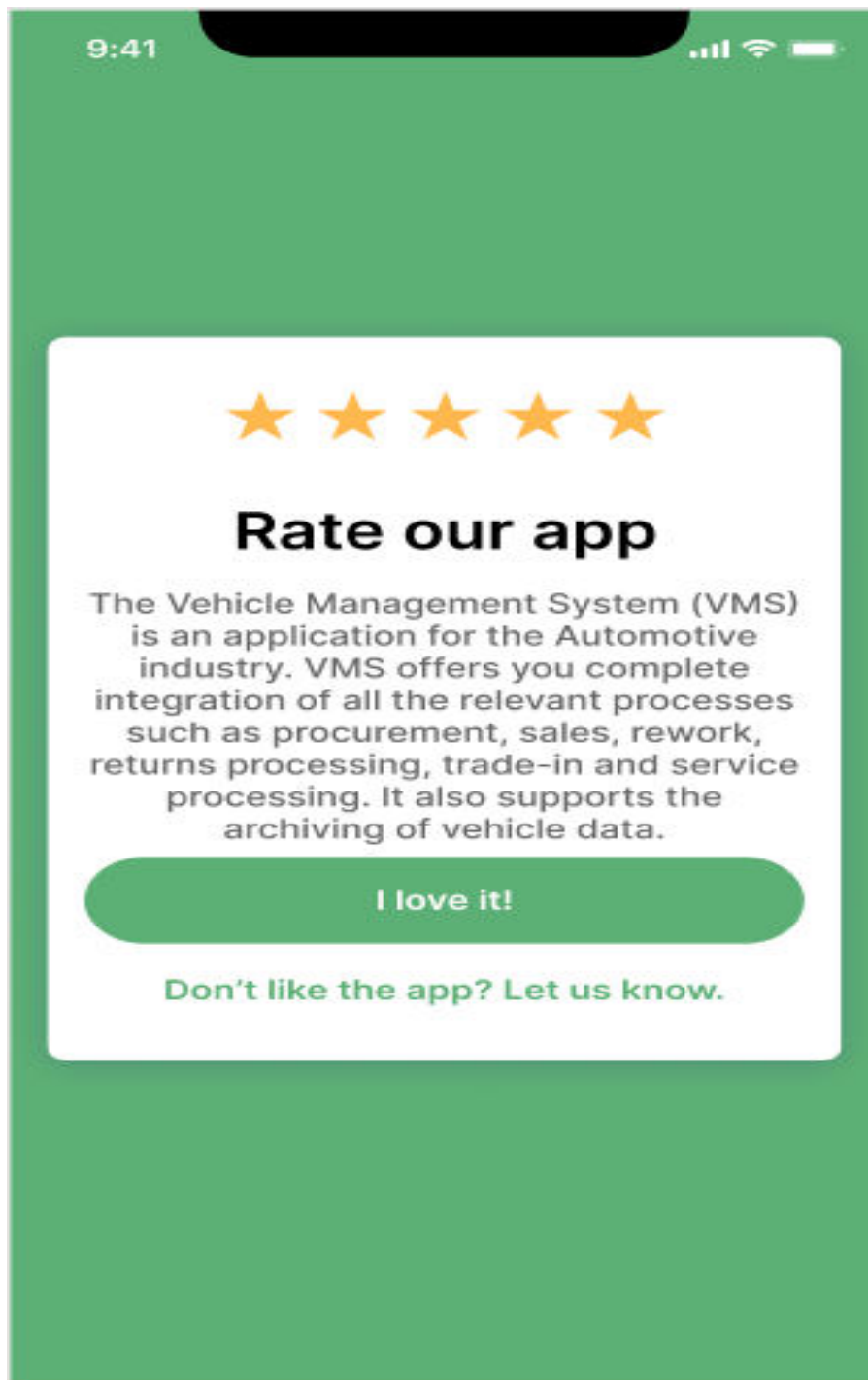
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3.

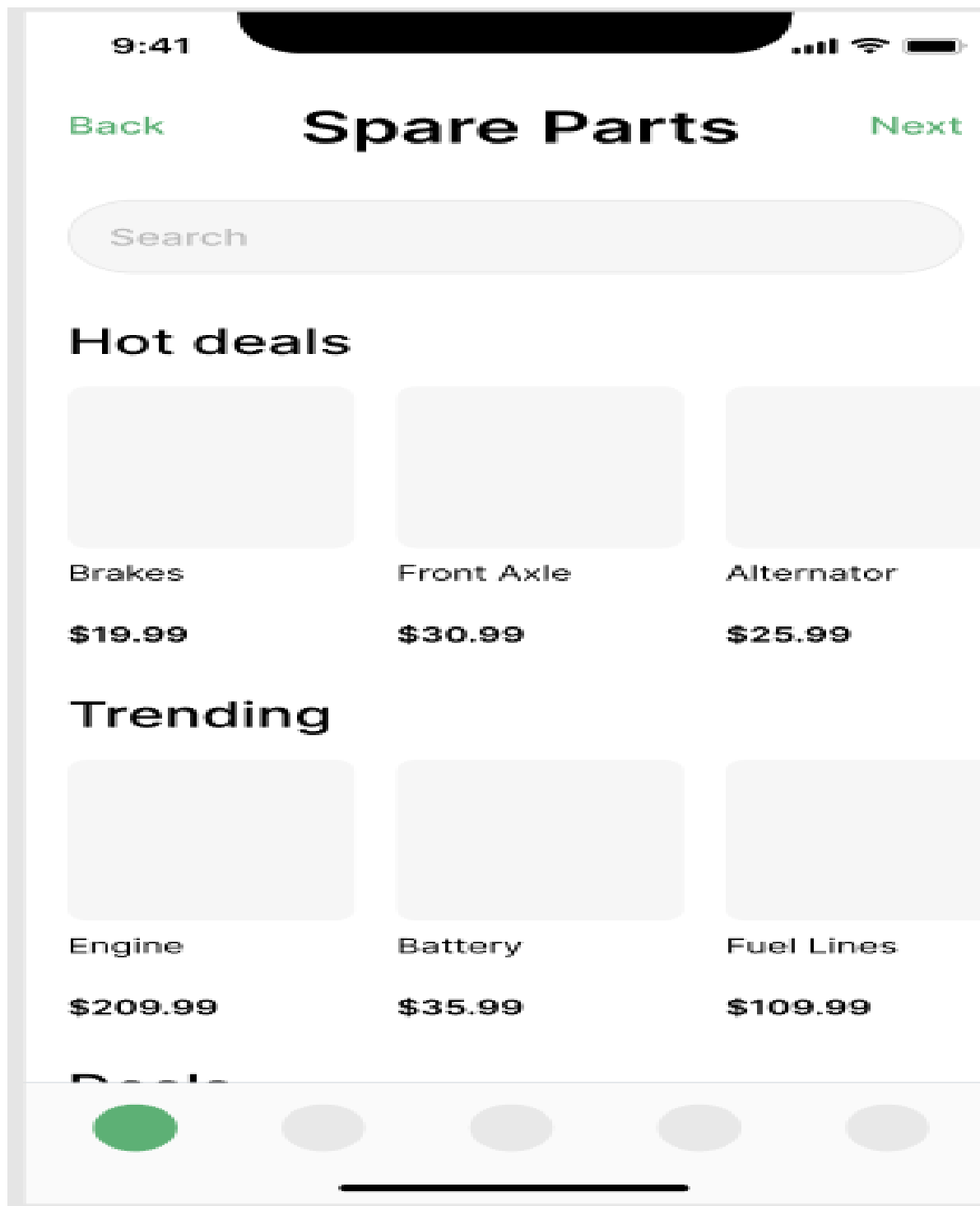




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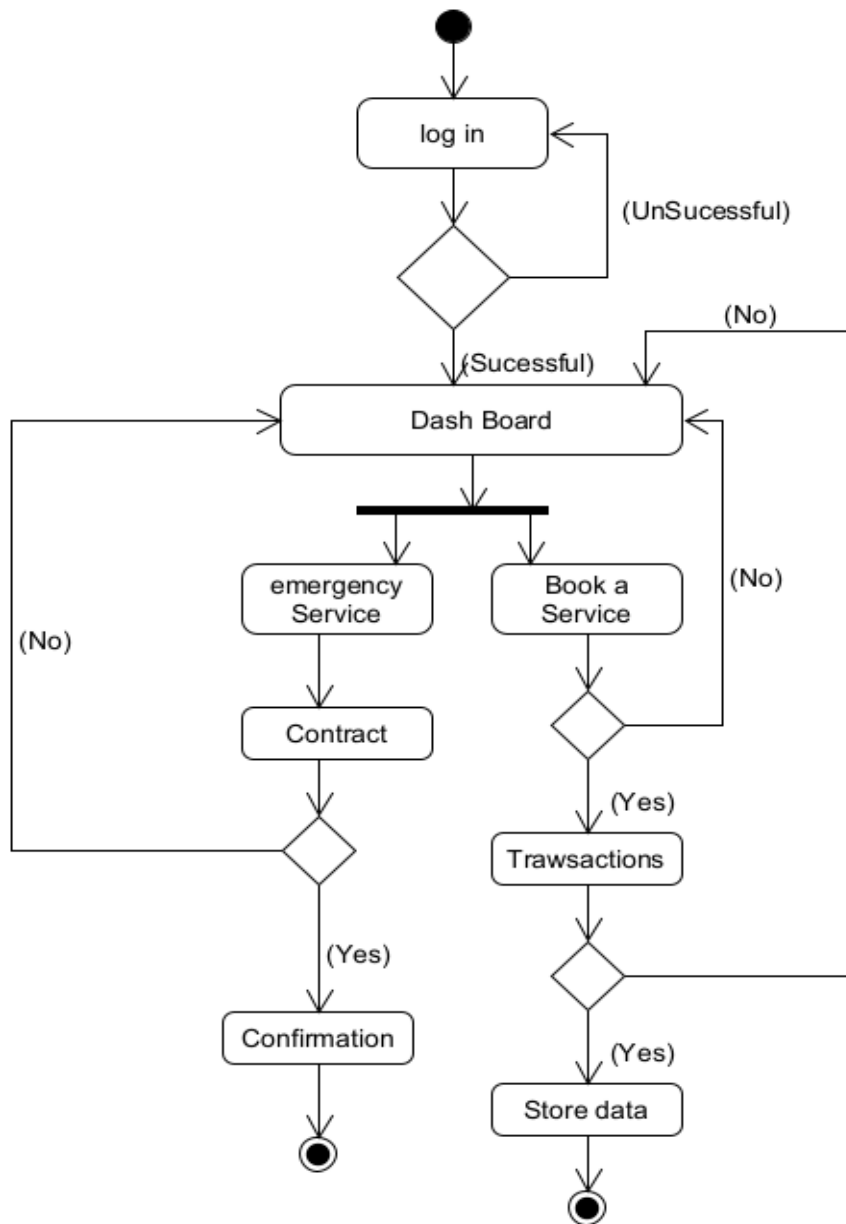


5.

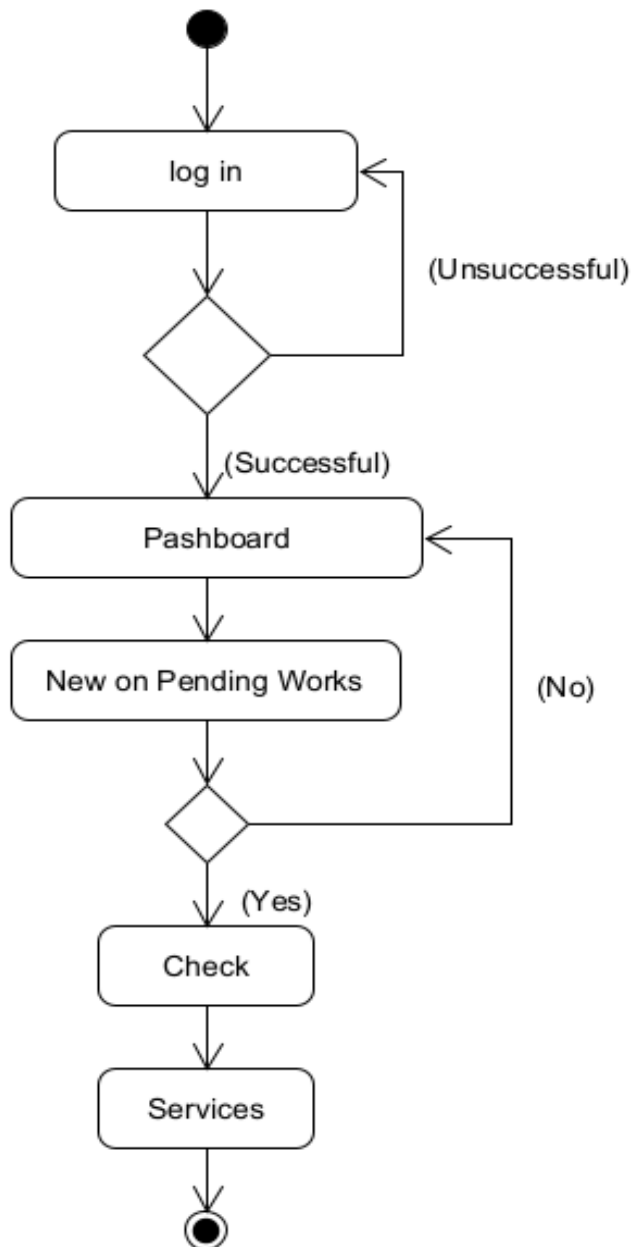


# ACTIVITY DIAGRAM: (Part-By-Part)

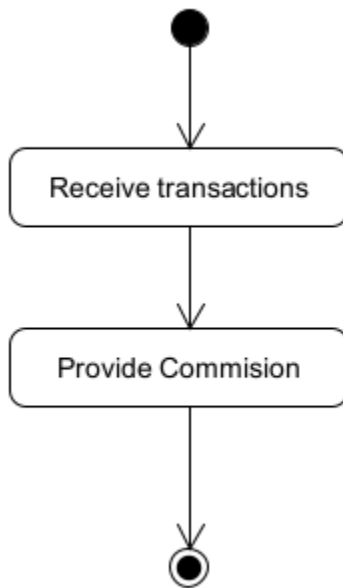
## CUSTOMER



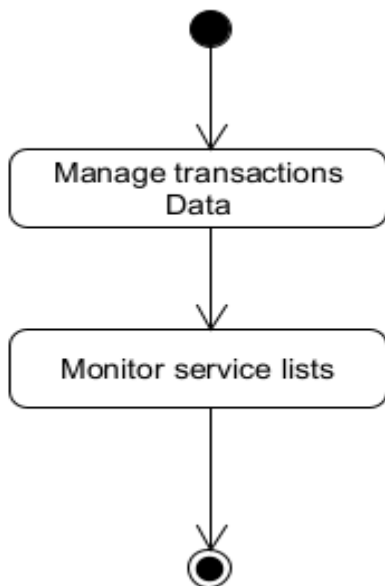
# MECHANICS



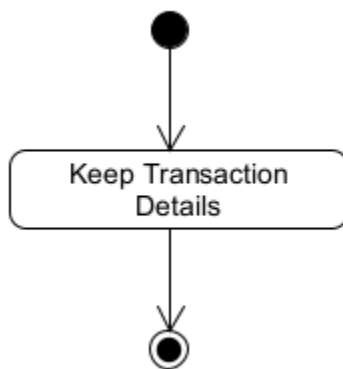
## SYSTEM ADMIN



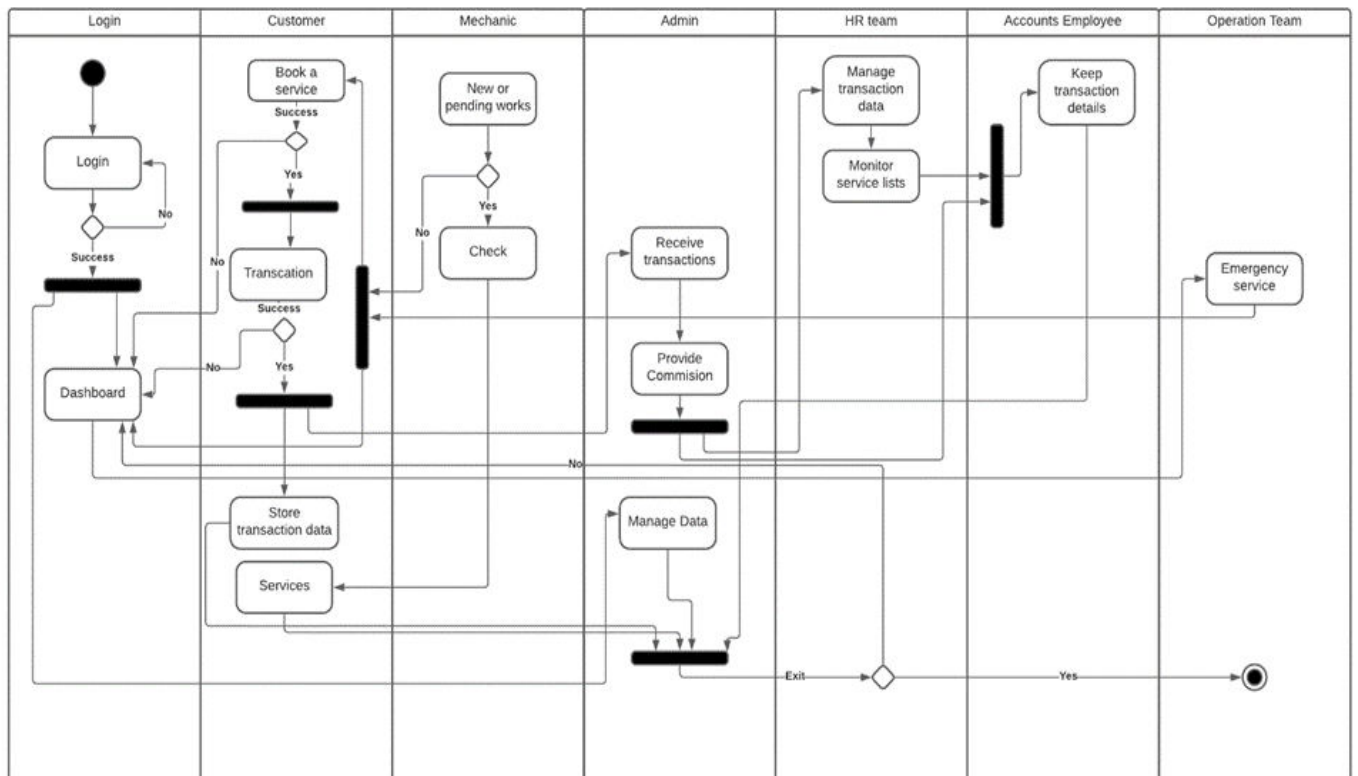
## HR TEAM



## ACCOUNT EMPLOYEE



# Full:





# # 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.

<<User>> Customer		{Last updated 24-10-21}
<ul style="list-style-type: none"><li>- customer name: String</li><li>- address: String</li><li>- mobile number: integer</li><li>- car number: integer</li><li>- car details: String</li><li>- balance: float</li></ul>		
<ul style="list-style-type: none"><li>+ createAccount ()</li><li>+ accountConfirmation ()</li><li>+ createProfile ()</li><li>+ checkServices ()</li><li>+ bookServices ()</li><li>+ payForSevices ()</li><li>+ giveReview ()</li><li>+ useEmergency ()</li></ul>		

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;</div> <div>Operation Team</div> <div>{Last updated 24-10-21}</div>
<div>- customer's info: String</div> <div>- customer's number: integer</div> <div>- mechanic's info: String</div> <div>- mechanic's number: integer</div> <div>- Emergency call info: String</div>
<div>+ handleEmergency ()</div> <div>+ assignWork ()</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>

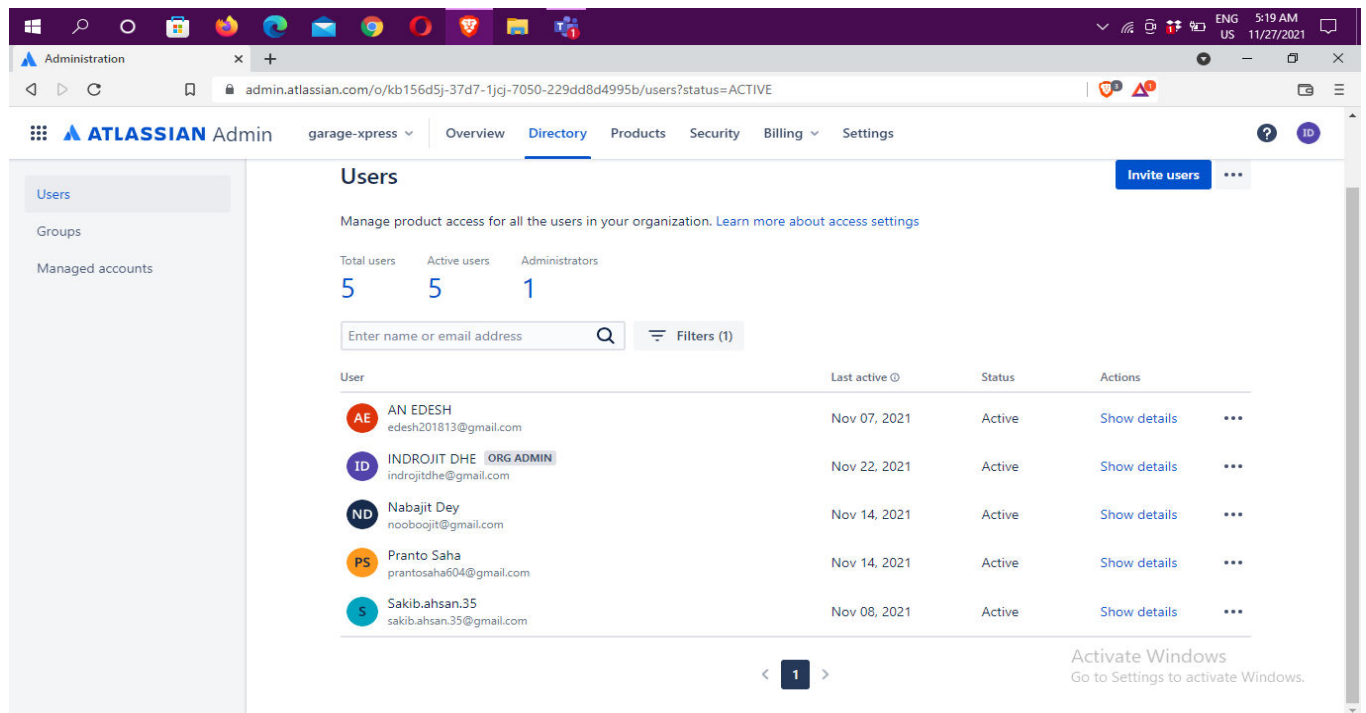
5.

<div><div>&lt;&lt;User&gt;&gt;</div><div>Account Employee</div><div>{Last updated 24-10-21}</div></div>
<div><div><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><div><div>+ createBills ()</div><div>+ askForPayment ()</div><div>+ giveDiscount ()</div></div></div>

6.

<<User>> Developer		{Last updated 24-10-21}
- feature list: String		
+ createNewFeatures ()		

# # JIRA:



The screenshot shows the Atlassian Admin interface for managing users. The left sidebar contains navigation links for Users, Groups, and Managed accounts. The main content area is titled 'Users' and includes a summary of user counts: 5 Total users, 5 Active users, and 1 Administrator. Below this is a search bar and a table listing the users. The table has columns for User, Last active, Status, and Actions. The users listed are AN EDESH, INDROJIT DHE (ORG ADMIN), Nabajit Dey, Pranto Saha, and Sakib.ahsan.35. At the bottom of the page, there is a pagination control showing 1 page and a Windows activation watermark.

Administration x +  
admin.atlassian.com/o/kb156d5j-37d7-1jq-7050-229dd8d4995b/users?status=ACTIVE






ATLASSIAN Admin garage-xpress Overview **Directory** Products Security Billing Settings

**Users** Invite users

Manage product access for all the users in your organization. [Learn more about access settings](#)

Total users: 5 Active users: 5 Administrators: 1

Enter name or email address  Filters (1)

User	Last active	Status	Actions
 AN EDESH edesh201813@gmail.com	Nov 07, 2021	Active	<a href="#">Show details</a> ...
 INDROJIT DHE <b>ORG ADMIN</b> indrojitdhe@gmail.com	Nov 22, 2021	Active	<a href="#">Show details</a> ...
 Nabajit Dey nooboogjit@gmail.com	Nov 14, 2021	Active	<a href="#">Show details</a> ...
 Pranto Saha prantosaha604@gmail.com	Nov 14, 2021	Active	<a href="#">Show details</a> ...
 Sakib.ahsan.35 sakib.ahsan.35@gmail.com	Nov 08, 2021	Active	<a href="#">Show details</a> ...

< 1 >

Activate Windows  
Go to Settings to activate Windows.

Vehicle Management System - Agile board - Jira

garage-xpress.atlassian.net/jira/software/projects/VMS/boards/2/backlog

Jira Software Your work Projects Filters Dashboards People Apps Create

Vehicle Management System Software project

Roadmap Backlog Board Code Project pages Add shortcut Project settings

Projects / Vehicle Management System

### Backlog

VEHICLE MANAGEMENT SYSTEM 12 Sep – 17 Nov (8 issues)

We provides 360-degree vehicle solutions & on-demand emergency repair services.

ID	PS	ND	Epic	Label
VMS-8	✓	ND		
VMS-2		1 IN PROGRESS	ID	
VMS-3	✓	PS		
VMS-4	✓	PS		
VMS-5	✓	PS		
VMS-6	✓	ND		
VMS-7		IN PROGRESS	PS	
VMS-11		IN PROGRESS	ID	

+ Create issue

Activate Windows  
Go to Settings to activate Windows.

Create sprint

VMS board - Agile board - Jira

garage-xpress.atlassian.net/jira/software/projects/VMS/boards/2

Jira Software Your work Projects Filters Dashboards People Apps Create

Vehicle Management System Software project

Roadmap Backlog Board Code Project pages Add shortcut Project settings

Projects / Vehicle Management System

### VEHICLE MANAGEMENT SYSTEM

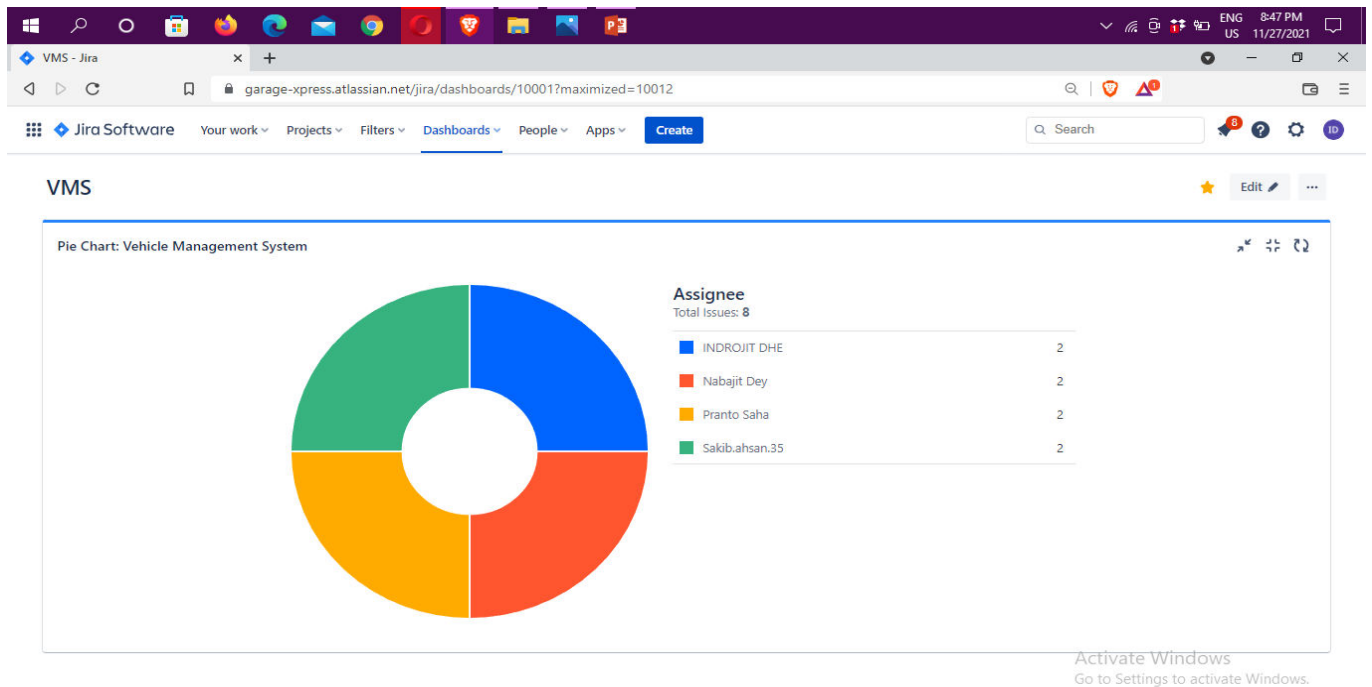
We provides 360-degree vehicle solutions & on-demand emergency repair services.

0 days remaining Complete sprint

GROUP BY None Insights

TO DO	IN PROGRESS 3 ISSUES	DONE 5 ISSUES ✓
	Create Use Case HIGH VMS-2 1 ID	Create Project Proposal HIGH VMS-8 ✓ ND
	Create Class Compartments MEDIUM VMS-7 PS	Create User Story MEDIUM VMS-3 ✓ PS
	Create Class Diagram HIGH VMS-11 ID	Create User Interface HIGH VMS-4 ✓ PS
		Create Activity Diagram HIGH

Activate Windows  
Go to Settings to activate Windows.



## # Project Statement:

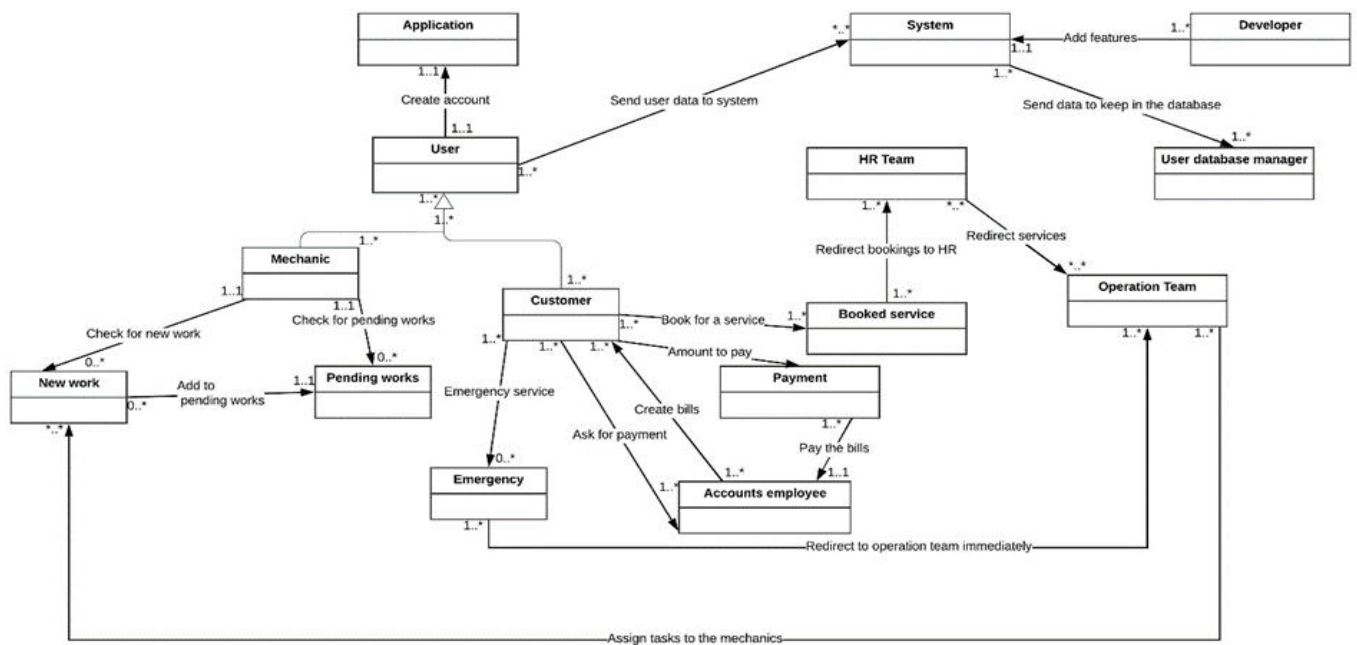
- Our company is maintaining many mechanics with garages by online. They provide vehicle service, emergency road service, purchase vehicle service, car wash service to customers. The customer must book in advance to get any services without emergency. Then the garage authorities have to confirm it.

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:



# # GITHUB:

The screenshot shows a web browser window displaying the GitHub repository page for 'indrojit17/VMS'. The browser's address bar shows 'github.com/indrojit17/VMS'. The repository page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and repository statistics (1 Unwatch, 0 Stars, 0 Forks). The repository is public and has 1 branch and 0 tags. The commit history table lists 6 commits by Nabajit07, including files like ACTIVITY-DIAGRAM.pdf, CRC-CC-CD.pdf, Class-Compartments-2.pdf, Class-Compartments.pdf, Class-Diagram.pdf, and work02.txt. The right sidebar contains sections for About, Releases, Packages, and Contributors. A Windows watermark is visible in the bottom right corner.

indrojit17/VMS (Public)

Unwatch 1 Star 0 Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

**Nabajit07** Add files via upload d6289e4 13 days ago 6 commits

ACTIVITY-DIAGRAM.pdf	Fifth Commit	13 days ago
CRC-CC-CD.pdf	Third Commit	13 days ago
Class-Compartments-2.pdf	Second commit	14 days ago
Class-Compartments.pdf	First Commit	14 days ago
Class-Diagram.pdf	Fourth commit	13 days ago
work02.txt	Add files via upload	13 days ago

Help people interested in this repository understand your project by adding a README. [Add a README](#)

**About**  
No description, website, or topics provided.

**Releases**  
No releases published  
[Create a new release](#)

**Packages**  
No packages published  
[Publish your first package](#)

**Contributors** 4  
[Activate Windows](#)  
Go to Settings to activate Windows.  
indrojit17 INDROJIT DHE SHAON

Windows taskbar: 9:01 PM, 11/27/2021, ENG US. Browser: github.com/indrojit17?tab=repositories.

GitHub navigation: Search or jump to..., Pull requests, Issues, Marketplace, Explore.

User profile: **INDROJIT DHE SHAON** (indrojit17). Bio: "I am an undergraduate student. AIUB is my running university. My department is CSE." Buttons: Edit profile.

Repository: **VMS** (Public). Updated 13 days ago. Buttons: Type, Language, Sort, New, Star.

Footer: Activate Windows. Go to Settings to activate Windows.

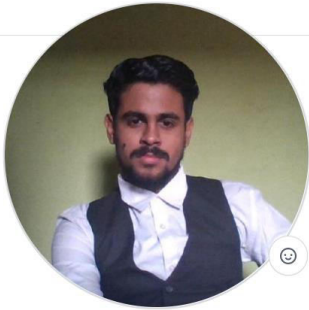
Windows taskbar: 9:01 PM, 11/27/2021, ENG US. Browser: github.com.

GitHub navigation: Search or jump to..., Pull requests, Issues, Marketplace, Explore.

Left sidebar: **Repositories** (New), Find a repository..., indrojit17/VMS. **Recent activity**: When you take actions across GitHub, we'll provide links to that activity here.

Main content: **Learn Git and GitHub without any code!** (Read the guide, Start a project). **All activity**: Nabajit07 pushed to indrojit17/VMS 13 days ago (1 commit to main: d6289a4 Add files via upload). Saki-UI-Ahsan pushed to indrojit17/VMS 13 days ago.

Footer: Activate Windows. Go to Settings to activate Windows.



**Nabajit Dey**  
Nabajit07  
Undergraduation Student , running AIUB  
CSE Department  
[Edit profile](#)  
AIUB  
Uttara , Dhaka 1230  
Joined 14 days ago  
<https://github.com/Nabajit07/opp1>

OverviewRepositories1ProjectsPackages

Popular repositories

opp1Public

7 contributions in the last year

DecJanFebMarAprMayJunJulAugSepOctNov  
Mon  
Wed  
Fri  
Learn how we count contributions  
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Contribution activity


2021

November 2021

Created 5 commits in 2 repositories  
Nabajit07/opp1 3 commits  
indrojit17/VMS 2 commits

pranto26

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pranto26  
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Joined 14 days ago

OverviewRepositoriesProjectsPackages

Popular repositories

You don't have any public repositories yet.

2 contributions in the last year

DecJanFebMarAprMayJunJulAugSepOctNov  
Mon  
Wed  
Fri  
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Contribution activity


2021

November 2021

Created 1 commit in 1 repository  
indrojit17/VMS 1 commit  
Joined GitHub

GROUP-04\_PROJECTVMS\_SEC.p... (1) Facebook Saki-UI-Ahsan (Sakib-UI-Ahsan )

github.com/Saki-UI-Ahsan



Sakib-UI-Ahsan

Saki-UI-Ahsan

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Joined 15 days ago

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2 contributions in the last year

Contribution settings

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Mon													
Wed													
Fri													

Learn how we count contributions

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Contribution activity

2021


November 2021

Created 1 commit in 1 repository

indrojit17/VMS 1 commit

261878220\_26307...jpg

Type here to search



84°F 12:33 PM 11/28/2021

Activate Windows Go to Settings to activate Windows. Show all

## # TABLE-LINE CHARTS:

Weeks													
Task: Person	1	2	3	4	5	6	7	8	9	10	11	12	13
A : Indrojit													
B : Indrojit													
C : Indrojit													
D : Nabajit													
E : Nabajit													
F : Pranto													
G : Pranto													
H : Sakib													
I : Sakib													

Figure: Our project plan as a bar chart

## Activity key:

A: Overall design

B: Specify module 1

C: Specify module 2

D: Specify module 3

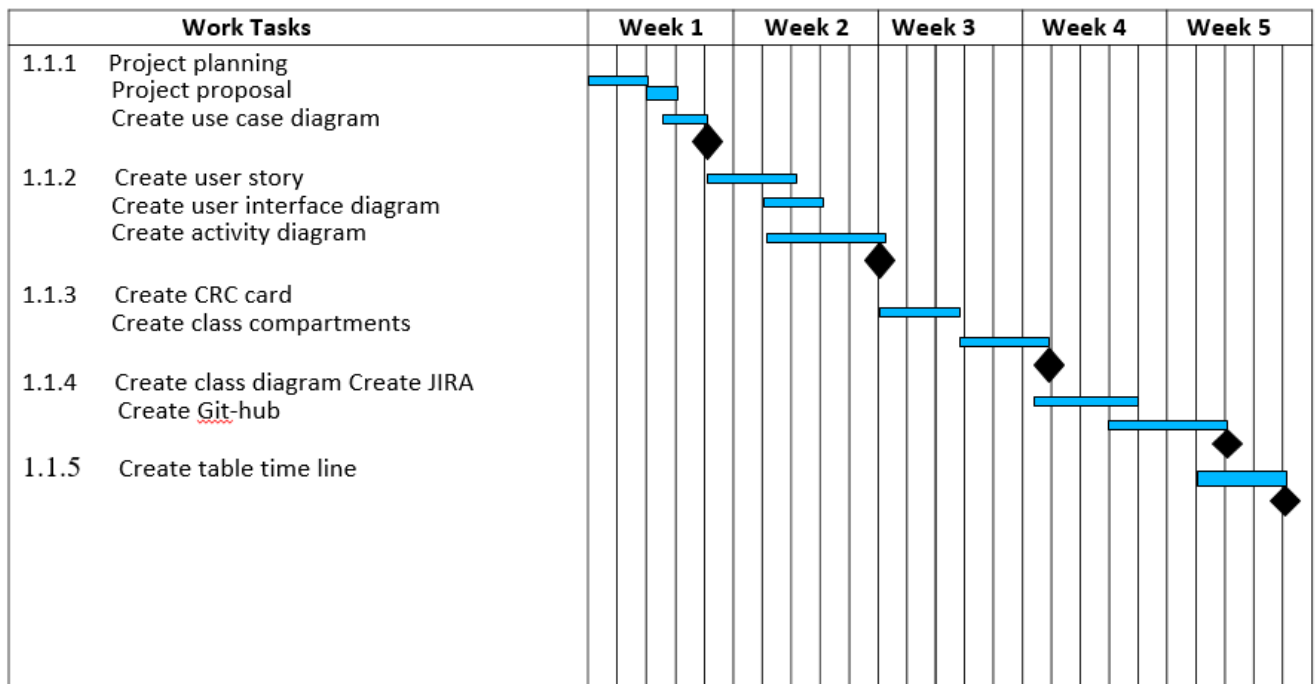
E: Code module 1

F: Code module 2

G: Code module 3

H: Integration testing

I: System testing



# # COCOMO & BUDGET:

## Constructive Cost Model:

**Project Type : Organic**

**Coefficient <Effort Factor> : 2.4 [P=1.05: T=0.38]**

**SLOC = 10,000 Lines**

**Person Months, PM =  $(2.4 * 10^{1.05}) = 26.93$**

**Dev. Time, DM =  $(2.5 * 26.93^{0.38}) = 8.7 = 9$**

**Months = 1584 Working Hours**

**Required people, ST = PM/DM = 3.09 = 4 People**



## Budgeting:

### Developer Salary in 9 Months:

Per Developer salary Per working Hour = 500 Tk

Total Developer Salary =  $500 * 1584 = 792,000$  Taka

### Requirement Analysis:

Time Needed: 1 month (22 Working Days = 176 Working Hour)

Req. Analysis Person's Hourly Wage = 400 Taka

Total Req. Analysis Expense =  $400 * 176 = 70,400$  Taka

Transport Cost Estimation: 20,000 Taka

Training and Hardware Expenses Estimation: 100,000 Taka

**Rent Expenses:**

**Room Per Month = 8,000 Taka**

**Total in 9 Months = 72,000 Taka**

**Total Utilites in 9 Months: 30,000 Taka**

**Maintenance (Till 9 Months after Delivery):**

**Expense Per Hour = 1500 Taka**

**Total Estimated Time Needed for Maintenance = 100 Hours**

**Total Estimated Maintenance Expense =  $100 \times 1500 = 150,000$  Taka**

**Total Estimated Expense:  $792,000 + 70,400 + 20,000 + 100,000 + 72,000 + 30,000 + 150,000 = 1,234,400$  Taka**

**Profit:**

**20% of Total Estimated Expense =  $1,234,400 \times 20\% = 246,880$  Taka**

**Project Budget:  $1,234,400 + 246,880 = 1,481,280$  Taka**

**THANK YOU**