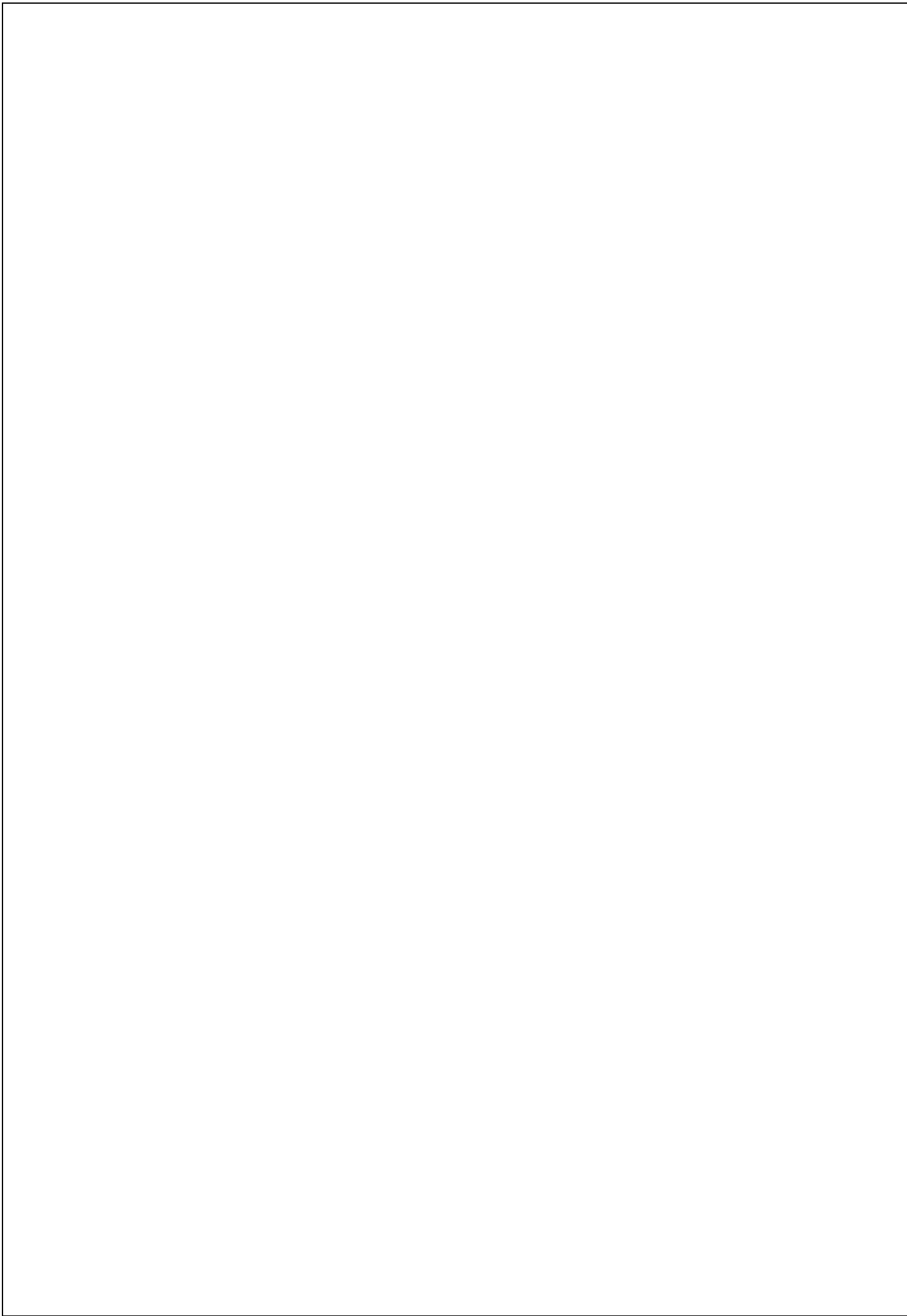


Name: Chamath M Badu

Student Reference Number: 10638127

Module Code: PUSL2003	Module Name: Integrating Project
Coursework Title: "Find Bass" Online Web Application for Integration project	
Deadline Date: 4/4/19	Member of staff responsible for coursework: Dr Prabath Weerasinghe
Programme: BSc (Hons) Computer Security	
Please note that University Academic Regulations are available under Rules and Regulations on the University website <a href="http://www.plymouth.ac.uk/studenthandbook">www.plymouth.ac.uk/studenthandbook</a> .	
<p>Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.</p> <p>Mulugunage K Samaraweera - 10638202  Wanni G Priyashan – 10638232  Mithila Eashani Sapukotana - 10638120  Sachin Vinod Jayakody - 10638261</p> <p><b><i>We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.</i></b></p> <p>Signed on behalf of the group:</p>	
<p>Individual assignment: <b><i>I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.</i></b></p> <p>Signed:</p>	
<p>Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.</p> <p>I *have used/not used translation software.</p> <p>If used, please state name of software.....</p>	
<p><b>Overall mark _____%</b>      <b>Assessors Initials _____</b>      <b>Date _____</b></p>	



## **Table of Content**

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1. Acknowledgement
2. Project Plan
3. Functional Specification
4. Technical Specification
5. Implementation
6. Special features of the system and Future updates
7. Reflect
8. Work Load Matrix
9. References and tools
10. Turnitin Report

## 1. Acknowledgement

---

In performing our assignment, we had to take the help and guideline of some respected persons who deserve our greatest gratitude. The completion of this assignment gives us much pleasure.

We would like to show our gratitude to Dr Prabath Weerasinghe for giving us every point from the beginning till end. We would also like to expand our deepest gratitude to all those who have directly and indirectly helped us in completing the assignment.

Many people specially our classmates and team members itself, have made valuable comments and suggestions on this proposal which gave us an inspiration to improve our project.

## 2. Project Plan

---

A lot of people in Sri Lanka are facing difficulties getting help when their vehicle breaks down on the road. During festive seasons, car breakdown cases increase more as the long journeys put vehicles more at risk of breaking down. When it comes to breakdown in rural areas, it could be worse as the point of breakdown is far away from Car Repair Service Providers. Many of them do not have any Vehicle Repair Service Providers' contact number and could not get help as the Vehicle Repair Service Providers might be far away from their locations.

So, you will have to get the support of another vehicle or a tow truck scam to get your vehicle drawn to the garage. After towing away, the vehicle, the scammer will demand a large amount of money from the victim to get back the vehicle. These problems are the motivations for the development of this project to help those who are in need when their vehicle breaks down along the roads. This will help people to find the nearest garage to get support for fixing the trouble.

As part of the expected results, the proposed system connects Car Repair Service Providers and the Public through this system. If the car owner's transportation breaks down on any highway or federal road in any part of Sri Lanka, the owner could log in to the system and display information with regards to the place of breakdown in the system using mobile phone. The system will automatically search for any garage nearest to the reported incident spot. The users are able to contact the mechanics in the garage to service the vehicle. This project aims to develop a Car Breakdown Service Station Locator System. The proposed system connects Car Repair Service Providers/the garage and the public through this system.

### **3.1 Functional Specification**

---

1. Client will be able to find the nearest garage.
2. Client will be able to get details about the mechanics.

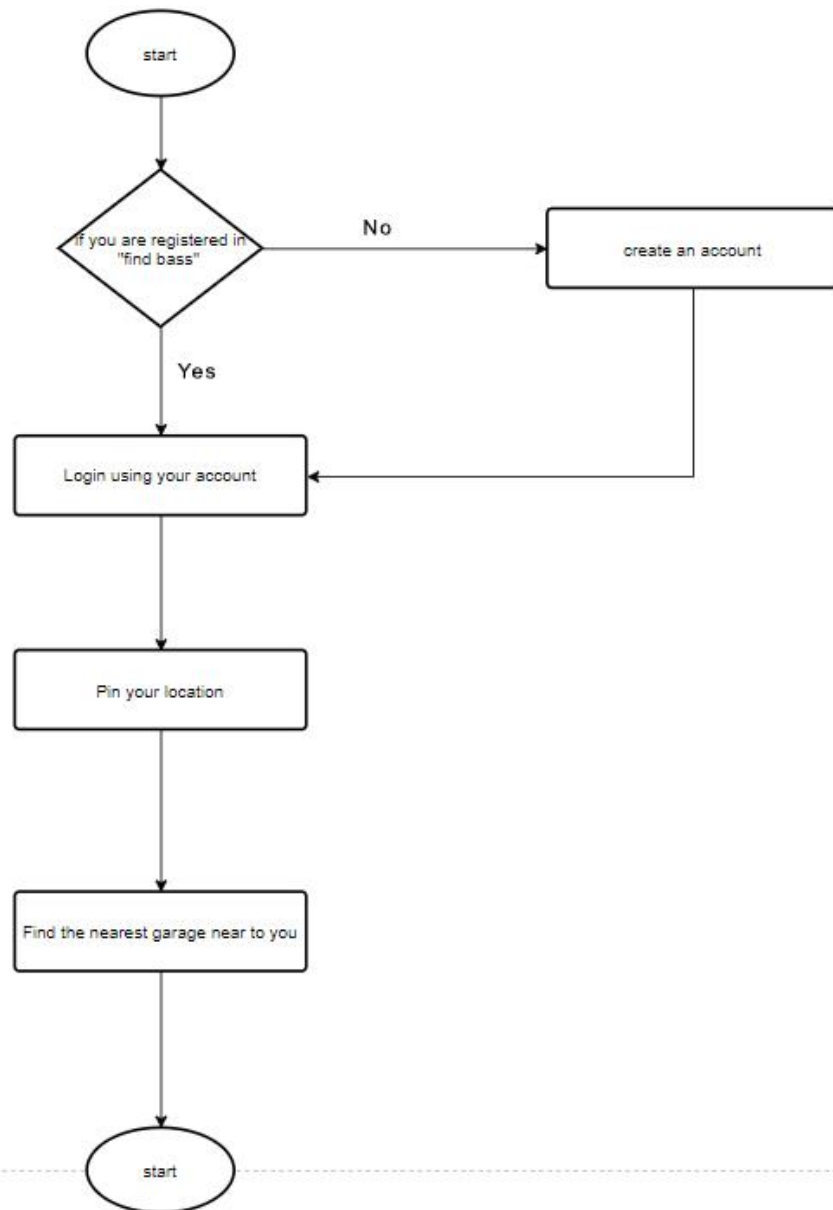
### **3.2 Non-Functional Specification**

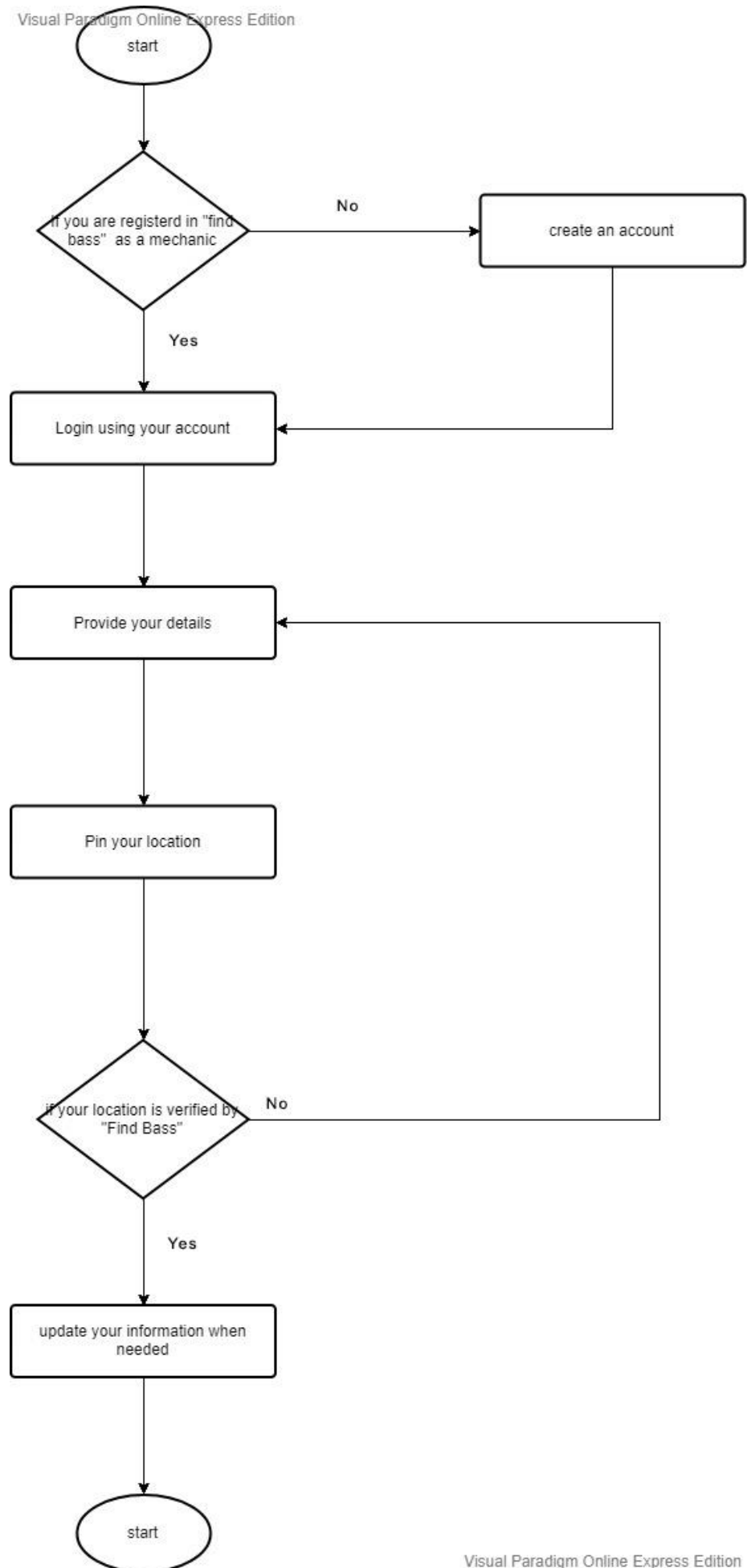
---

1. The system should be efficient.
2. The details provided should be accurate.
3. The system should be trustworthy.
4. The system has to be user-friendly.
5. Anyone with or without knowledge should be able to access the system.

## 4. Technical Specification

### Client

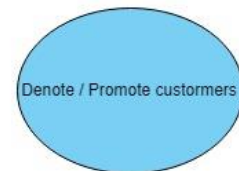
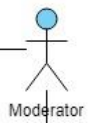


**Mechanic**



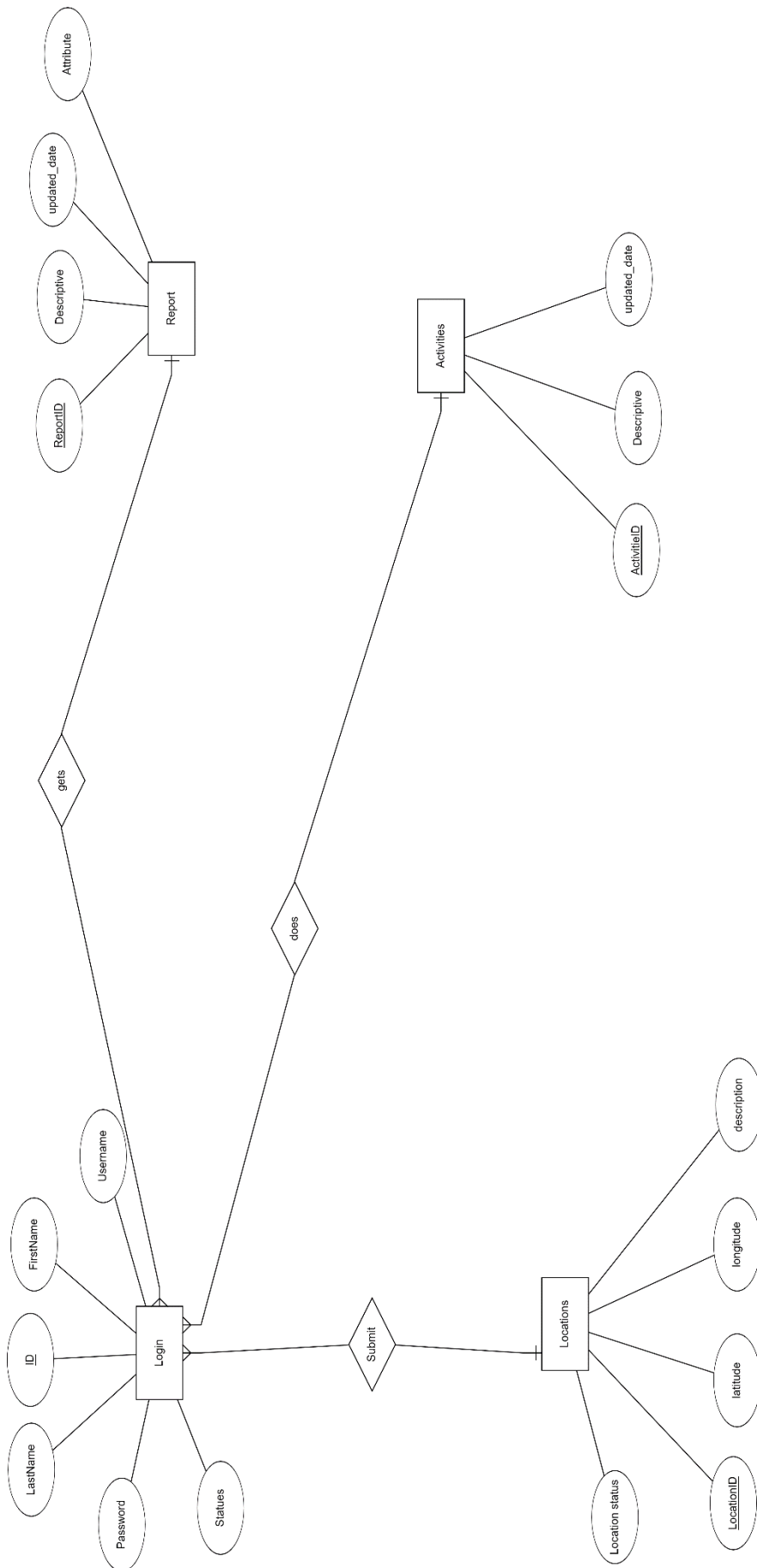
## User case diagram

Visual Paradigm Online Express Edition



Visual Paradigm Online Express Edition

## Entity Diagram Relationship



## **5. Implementation (Completed Project)**

---

### **1<sup>st</sup> step**

For testing purpose, we first host as local host. We use Apache Server for that.

### **2<sup>nd</sup> Step**

Test the system with some bunch of people and check if there are any drawbacks. As an example we have to check whether the location shown is accurate or not.

### **3<sup>rd</sup> Step**

Going commercial and buying domain for "Find Bass"

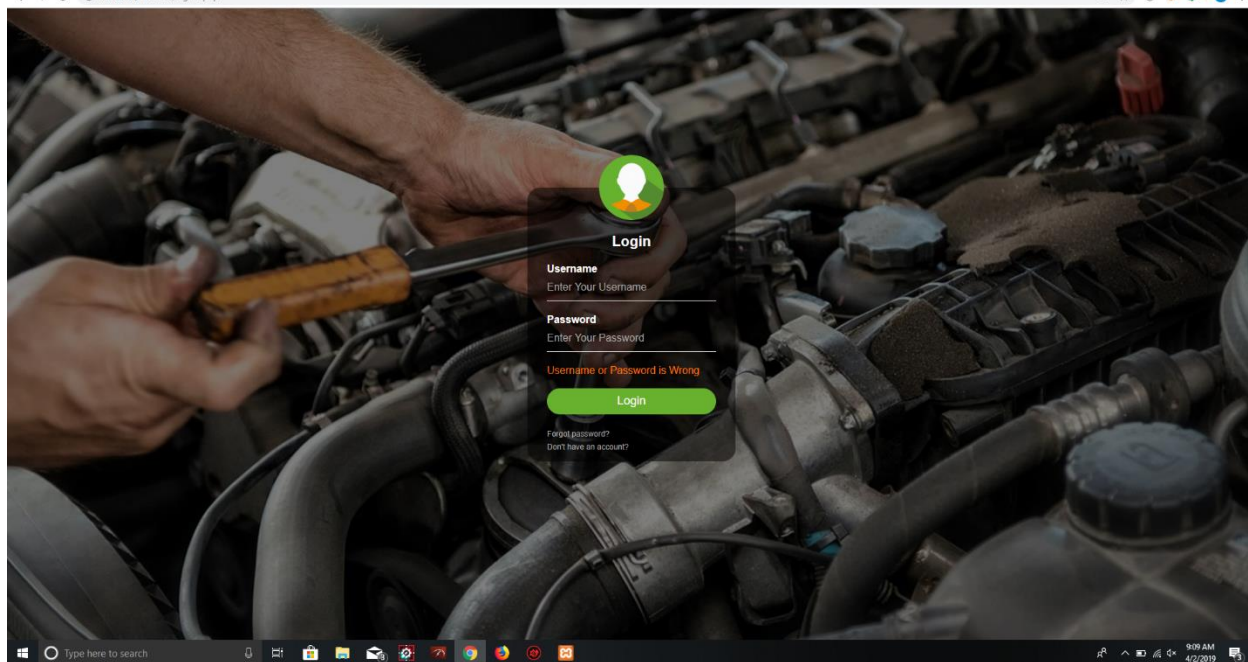
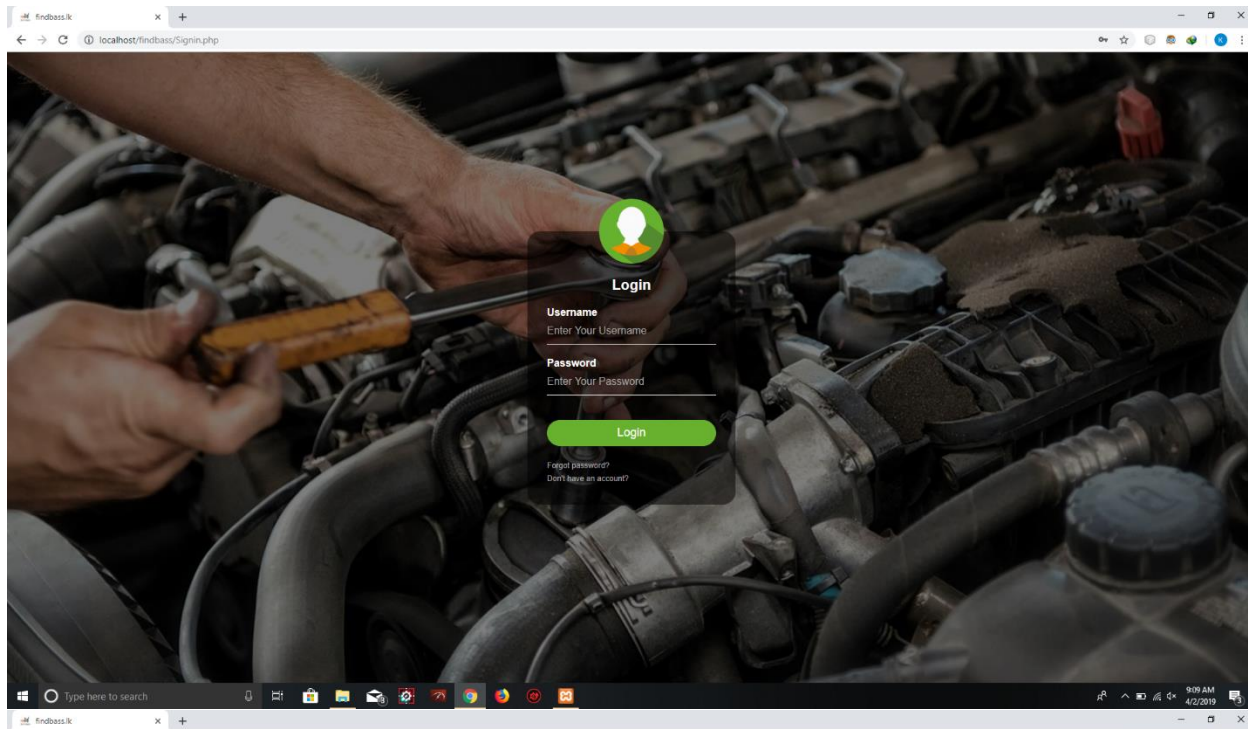
### **4<sup>th</sup> step**

When logging into the system for the first time, we charge some amount from the user to grant full access into the system. If the mechanics want their information to be displayed on the system, they can also pay some amount.

### **5<sup>th</sup> step**

Moderate, Double checking the details.

## Login (Both Mechanic and Client)



## Create New Account (Both Mechanic and Client)

findbass.ik

localhost/findbass/Newacc.php

**Create an Account**

**First Name**  
Enter Your First Name  
\*First Name is required

**Last Name**  
Enter Your Last Name  
\*Last Name is required

**Username**  
Enter Your Username  
\*Username is required

**New Password**  
Enter Your New Password  
\*Password is required

**Email**  
Enter Your Email  
\*Email is required

**Status**  
Client

**Sign Up**

Already have an account? Sign in.

findbass.ik

localhost/findbass/Newacc.php

**Create an Account**

**First Name**  
Enter Your First Name  
\*Only letters and white space allowed

**Last Name**  
Enter Your Last Name  
\*Only letters and white space allowed

**Username**  
Enter Your Username  
\*Username is required

**New Password**  
Enter Your New Password  
\*Password is required

**Email**  
Enter Your Email  
\*Invalid email format

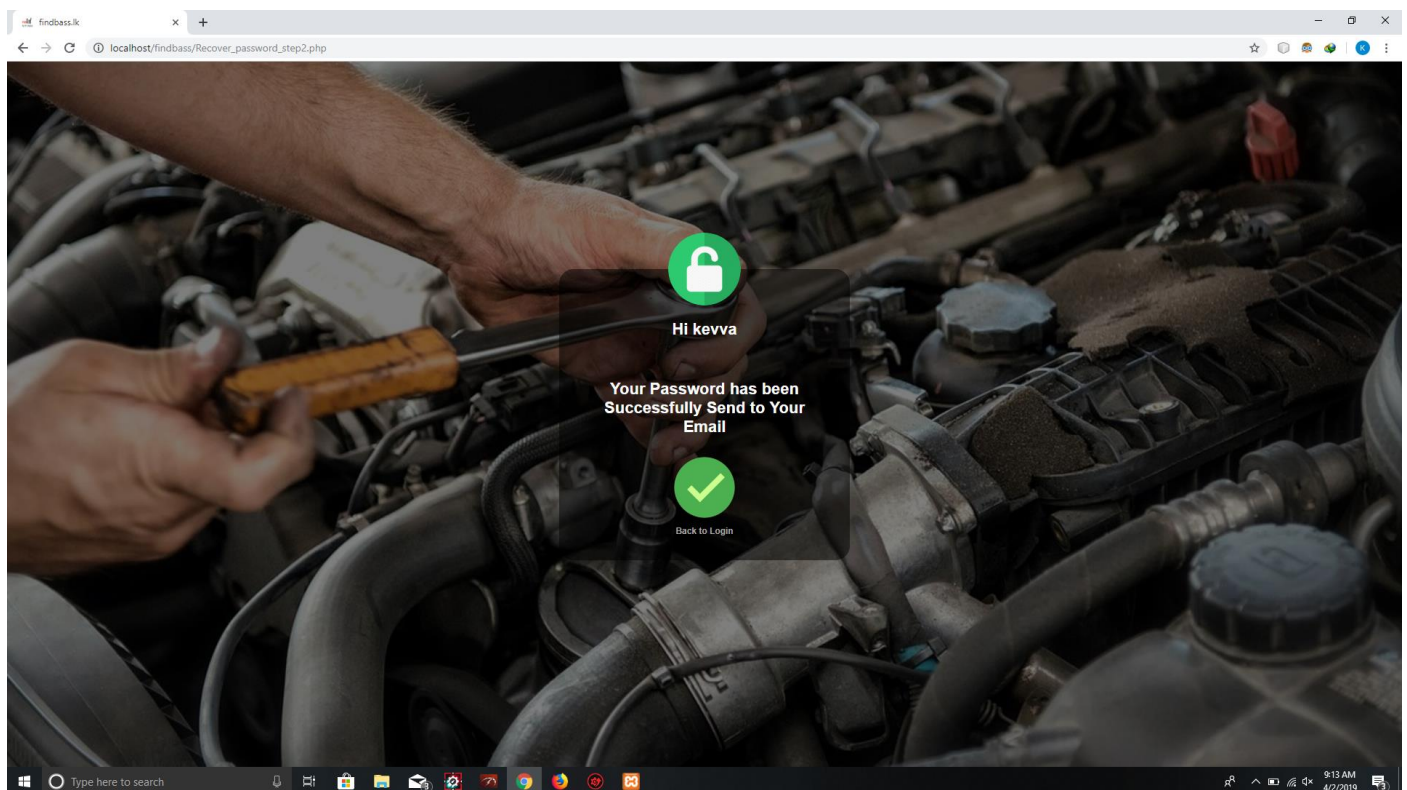
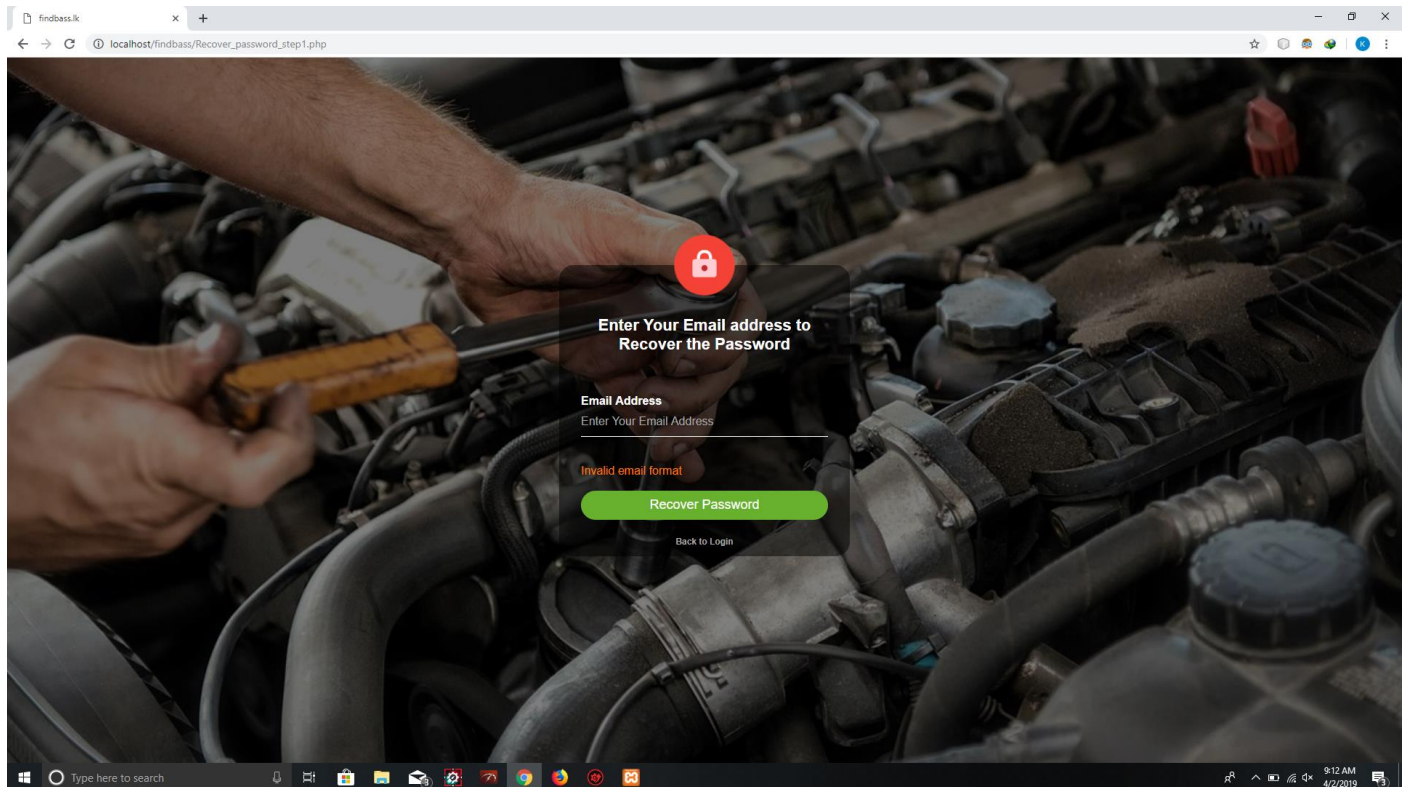
**Status**  
Client

**Sign Up**

Already have an account? Sign in.



## Password Recovery Management (Both Mechanic and Client)



## Administrator (Map details and map verified locations)

findbass.lk

localhost/findbass/admin\_home.php

# Find බාසP

SAY #NO TO BREAKDOWNS

HOME LOCATION ACTIVITIES MANAGE ABOUT CONTACT ACCOUNT LOGOUT

kevva

Locations

Description : Testing 5

Description : Testing 4

Description : Testing 3

Description : Testing 1

Google map

Unconfirmed Locations

Description : Testing 2

For development purposes only

Sri Lanka

Colombo

Negombo

Kandy

Dambulla

Polonnaruwa

Batticaloa

Kalmunai

Ampana

Aligama Bay

9:13 AM 4/2/2019

findbass.lk

localhost/findbass/admin\_locations.php

Unconfirmed Locations 1

ID	Image	Latitude & Longitude	Description
9		Latitude = 6.934891 Longitude = 79.985367	Testing 2

Confirmed Locations 4

ID	Image	Latitude & Longitude	Description	Confirmed by
8		Latitude = 6.999190 Longitude = 79.957466	Testing 1	kevva (Admin)
10		Latitude = 6.840862 Longitude = 80.007454	Testing 3	sachcha (Captain)
11		Latitude = 6.827933 Longitude = 80.026886	Testing 4	maliya (Captain)
12		Latitude = 6.824484 Longitude = 80.050941	Testing 5	chabba (Captain)

9:13 AM 4/2/2019



## Administrator (Activities log and viewing of users, mechanics and moderators)

findbass.lk

localhost/findbass/admin\_activities.php

HOMELOCATIONACTIVITIESMANAGEABOUTCONTACTACCOUNTLOGOUT

kevva

Find බාසP  
SAY #NO TO BREAKDOWNS

Activities

sachcha (Captain) confirmed the location 10

2019-04-02 09:06:38

maliya (Captain) confirmed the location 11

2019-04-02 09:06:09

chabba (Captain) confirmed the location 12

2019-04-02 09:05:48

kevva (Admin) confirmed the location 8

2019-04-02 09:00:29

Confirmed 7 Confirmed location has been deleted by kevva (Admin)  
Location added by - mechanic2

2019-04-02 08:59:41

kevva (Admin) confirmed the location 7

2019-04-02 08:59:39

chabba (former Mechanic) has been promoted by kevva

2019-04-02 08:56:56

findbass.lk










localhost/findbass/admin\_manage.php

HOMELOCATIONACTIVITIESMANAGEABOUTCONTACTACCOUNTLOGOUT

kevva

Find බාසP  
SAY #NO TO BREAKDOWNS

3  
Mods

Profile pic	Username	Firstname	Lastname	Email	Demote	Remove
	chabba	chamath	mihindu	dkchabba98@gmail.com		
	maliya	malith	wanni	malith@gmail.com		
	sachcha	sachin	jayakody	sachcha@gmail.com		

5  
Clients



## Account (Details)

findbass.lk

localhost/findbass/admin\_account.php

Find බැස්ස  
SAY #NO TO BREAKDOWNS

HOME LOCATION ACTIVITIES MANAGE ABOUT CONTACT ACCOUNT LOGOUT

kevva

kevva

Firstname	kevin
Lastname	samaraweera
Email	kevinreborn98@gmail.com

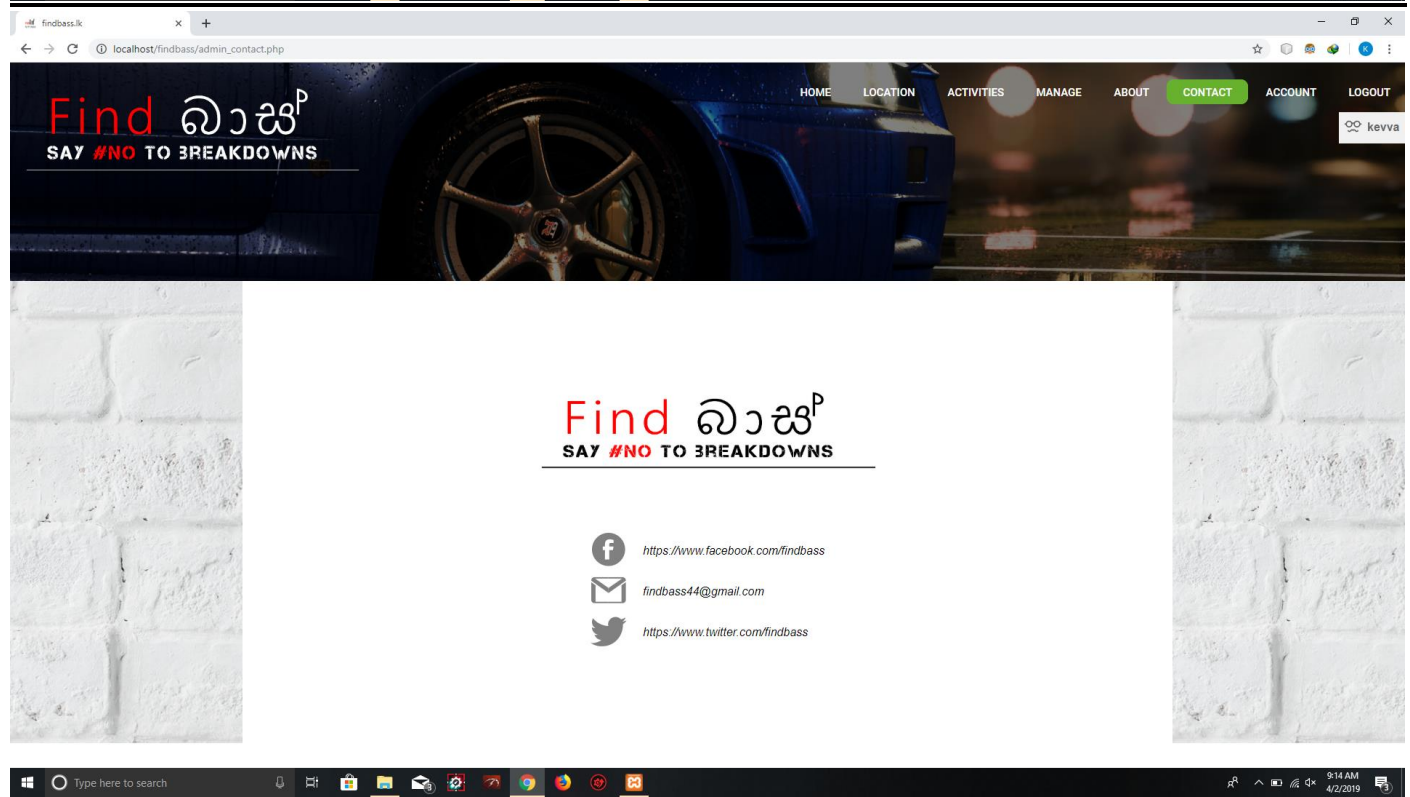
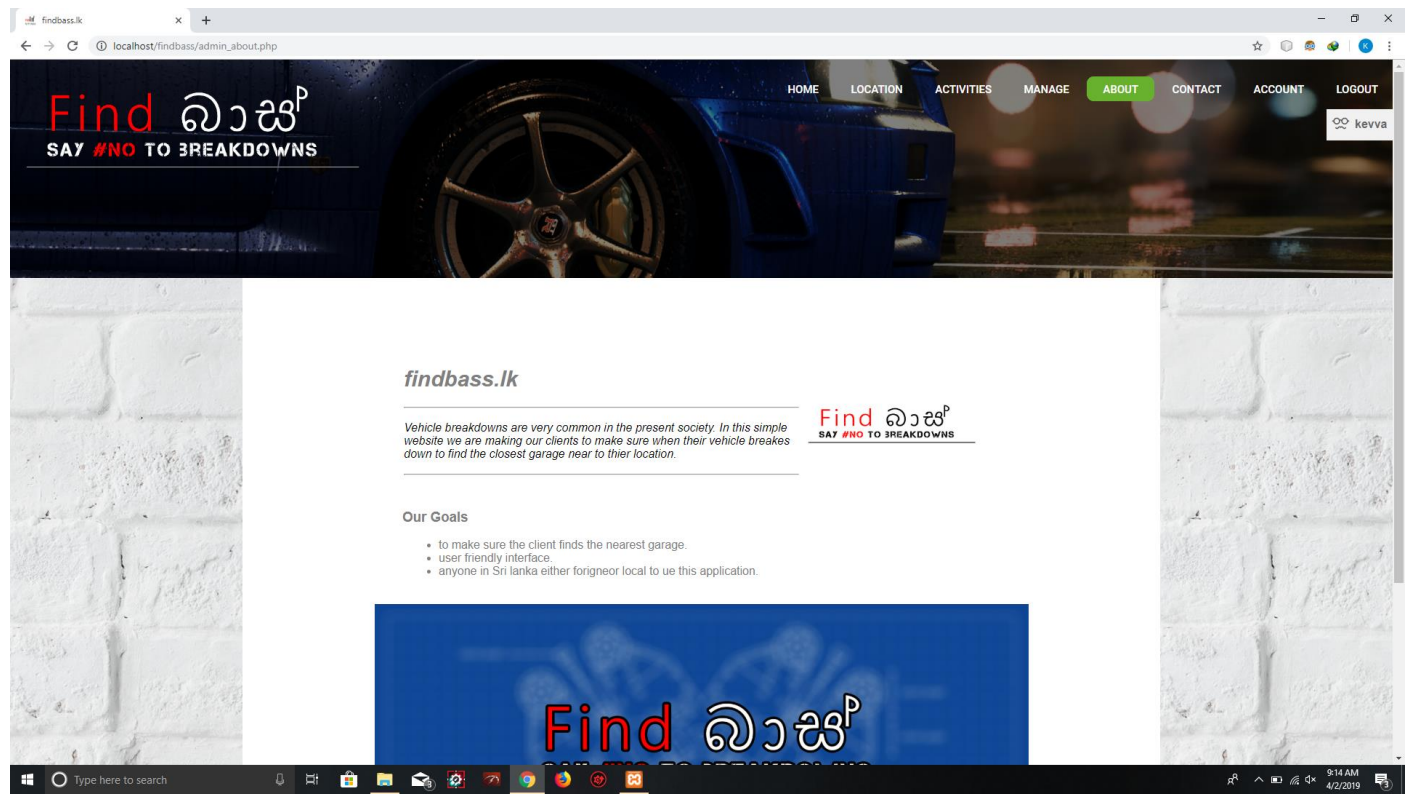
Save

Add Account

Type here to search

9:14 AM 4/2/2019

## About and Contact details(Find Bass)



## Details about all clients and mechanics registered (testing purpose)(Moderator)

findbass.lk

localhost/findbass/captain\_users.php

HOMEUSERSACTIVITIESABOUTCONTACTACCOUNTLOGOUT

chabba

Find බාස්P  
SAY #NO TO BREAKDOWNS

5  
Clients

Profile pic	Username	Firstname	Lastname	Email	Remove
	client1	client	one	client1@gmail.com	
	client2	client	two	client2@gmail.com	
	client3	client	three	client3@gmail.com	
	client4	client	four	client4@gmail.com	
	client5	client	five	client5@gmail.com	

5  
Mechanics

Profile pic	Username	Firstname	Lastname	Email	Remove
	mechanic1	mechanic	one	mechanic1@gmail.com	
	mechanic2	mechanic	two	mechanic2@gmail.com	
	mechanic3	mechanic	three	mechanic3@gmail.com	
	mechanic4	mechanic	four	mechanic4@gmail.com	
	mechanic5	mechanic	five	mechanic5@gmail.com	

findbass.lk

localhost/findbass/captain\_users.php

5:15 AM  
4/2/2019



## Confirmation about locations in the mechanics with moderators account (Moderator)

findbass.lk

localhost/findbass/captain\_activities.php

Find බාස්  
SAY #NO TO BREAKDOWNS

HOME USERS **ACTIVITIES** ABOUT CONTACT ACCOUNT LOGOUT

chabba

Activities

sachcha (Captain) confirmed the location 10	2019-04-02 09:06:38
maliya (Captain) confirmed the location 11	2019-04-02 09:06:09
chabba (Captain) confirmed the location 12	2019-04-02 09:05:48
kevva (Admin) confirmed the location 8	2019-04-02 09:00:29
Confirmed 7 Confirmed location has been deleted by kevva (Admin) Location added by - mechanic2	2019-04-02 08:59:41
kevva (Admin) confirmed the location 7	2019-04-02 08:59:39
chabba (former Mechanic) has been promoted by kevva	2019-04-02 08:56:56

findbass.lk

localhost/findbass/captain\_account.php

Find බාස්  
SAY #NO TO BREAKDOWNS

HOME USERS ACTIVITIES ABOUT CONTACT **ACCOUNT** LOGOUT

chabba

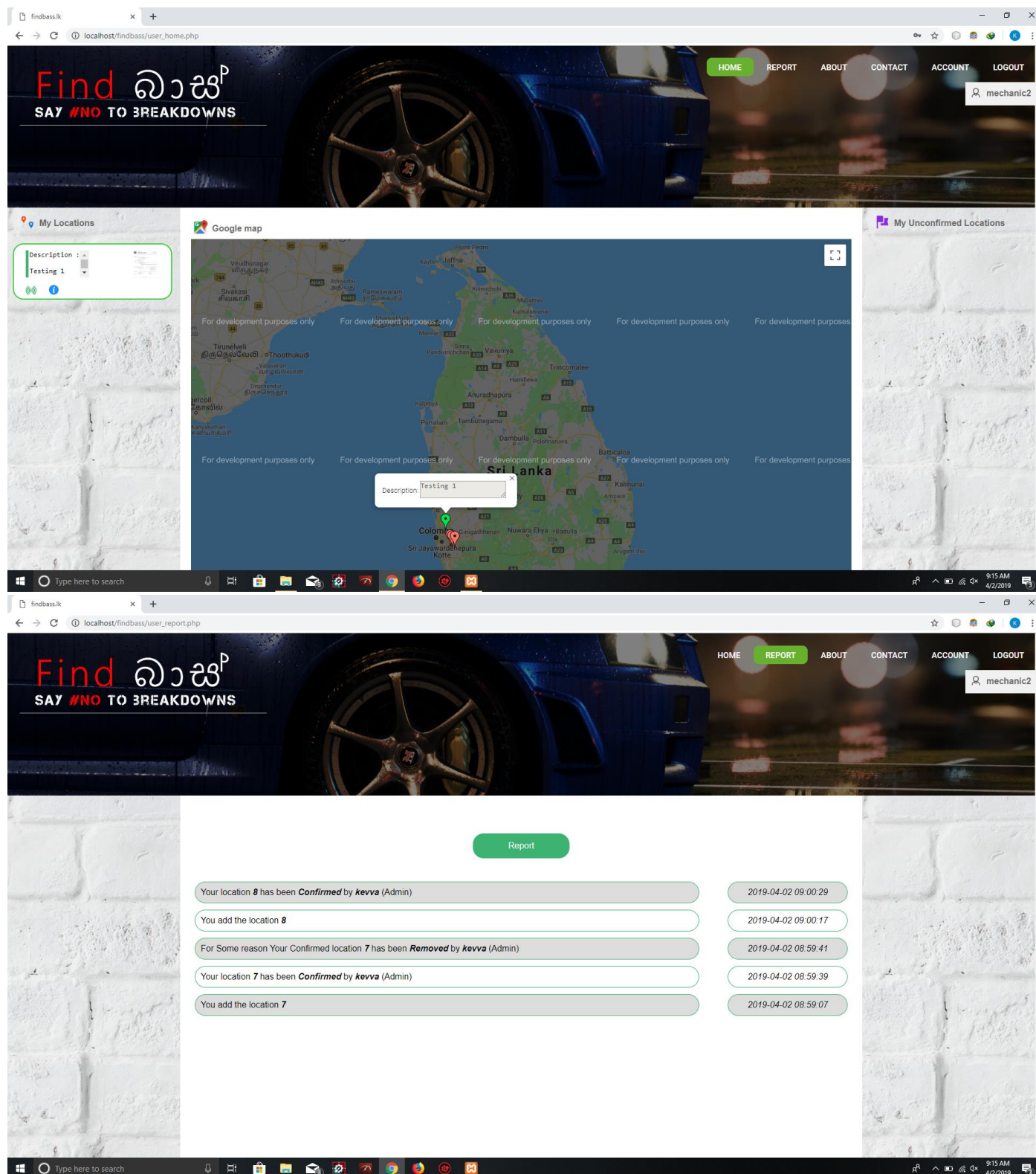
chabba

Firstname	chamath
Lastname	mihindu
Email	dkchabba98@gmail.com

Save

Add a Mechanic

## Mechanics details and report



## Mechanic's account

findbass.lk

localhost/findbass/user\_account.php

Find බැස්ස  
SAY #NO TO BREAKDOWNS

HOME REPORT ABOUT CONTACT ACCOUNT LOGOUT

mechanic2

mechanic2

Firstname	mechanic
Lastname	two
Email	mechanic2@gmail.com

Save

Type here to search

16 AM 4/2/2019



## Client's view to locate the nearest mechanic and the account details

Find බාසිP  
SAY #NO TO BREAKDOWNS

HOME ACTIVITIES ABOUT CONTACT ACCOUNT LOGOUT

client1

Locations

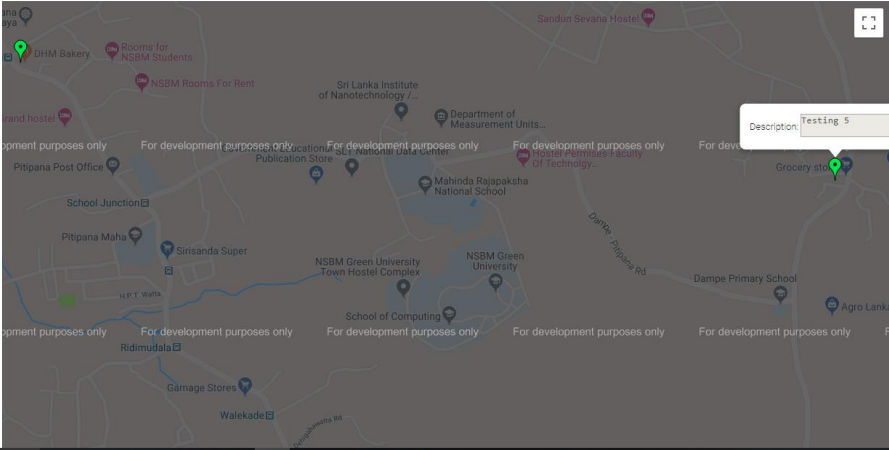
Description :  
Testing 5

Description :  
Testing 4

Description :  
Testing 3

Description :  
Testing 1

Google map



Find බාසිP  
SAY #NO TO BREAKDOWNS

HOME ACTIVITIES ABOUT CONTACT ACCOUNT LOGOUT

client1

client1

Firstname	client
Lastname	one
Email	client1@gmail.com

Save

## **6. Special features of the system and Future updates**

---

1. Each location is checked by the moderate team. They don't have administration powers.
2. Mechanics can put up advertisements in the web application
3. Can directly contact the hotline "Find baas" and get information regarding any section  
(Example: Emergency repair)



## 7. Reflect

---

When looking back we learned that communication is the key component in software development.

In our case it resulted in the application not being connected to the internet.

We focused on the requirement and we designed a webpage. We had to make it in an attractive way for the users. We used geolocation as well. We faced a lot of problems when creating the webpage;

Faced issues with dividing tasks for the four roles Admin, Moderator, client and mechanic in our system. We did not give the same power for all four roles.








The next problem we faced was with entering data into the system.

Had to make the user interface.

This experience of analyzing, designing and developing software to meet up with standards will help us in our future career as software developers.

## 8. Work Load Matrix

Put a cross (X) within the relevant cage/cages. <sup>[L]</sup><sub>[SEP]</sub> You are allowed to deviate from the sample work load matrix after having a discussion with the module leader.

Index number	Coding	Interface Design	Fact Finding Methods
Chamath 10638127			
Kevin 10638202			
Malith 10638232			
Mithila 10638120			
Sachin 10638261			

## 9. References and tools

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1. ER Tool - (<https://erdplus.com/#/standalone>)
2. User case diagram and flow char - (<https://online.visual-paradigm.com>)
3. Code - (<https://www.sublimetext.com/>)
4. Server - (<https://www.apachefriends.org>)
5. "Findbass" API key - AlzaSyBdcpfdlHh-vUhvQZaAZU\_LI7n0rDnGSNE

## 10. Turnitin Report



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PROJECT FUNDING TYPE (Type of funding) _____ PROJECT FUNDING PERIOD (Period of funding) _____ PROJECT FUNDING SOURCE (Name of funding source) _____ PROJECT FUNDING AMOUNT (Amount of funding) _____	
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