Data Dictionary

A data dictionary is a collection of descriptions of the data objects or items in a data model for the benefit of programmers and others who need to refer to them. A data dictionary is a catalog – a repository – of the elements in the system. The data dictionary consists of different major elements like Data Elements, Data Store [Tables Used], Data Flow, Processes and other External entities used in the system.

A data dictionary is a file or a set of files that contains a database's metadata. The data dictionary contains records about other objects in the database, such as data ownership, data relationships to other objects, and other data.

The data dictionary is a crucial component of any relational database. Ironically, because of its importance, it is invisible to most database users. Typically, only database administrators interact with the data dictionary.

For most relational database management systems (RDBMS), the database management system software needs the data dictionary to access the data within a database. For example, the Oracle DB software has to read and write to an Oracle DB. However, it can only do this via the data dictionary created for that particular database.

+ The data dictionary stores details and description of these elements.

➢ Analysts use data dictionary for the following important reasons:

- To manage the details in large system.
- To communicate a common meaning for all system elements.
- To document the features of the system.
- To facilitate analysis of the details in order to evaluate the characteristics and determine where system changes should be made.
- To locate errors and omissions in the system.

1. Table: Appointment

APPOINTMENT				
Field Name	Data Type	Size	Constraint	**Description**
Id	Number	11	Primary key	**Auto increment**
Name	Varchar2	15		**Store customer name**
Phone	number	10		**Store the customer phone number**
Message	Varchar2	200		**Store the customer message**
Email	Varchar2	50		**Store customer email**
Area	Varchar2	50		**Store the customer area**
Year	Number	4		**Customer vehicle year**
Service	Varchar2	50		**Store the vehicle services**
Vehicle type	Varchar2	20		**Customer Vehicle type**
App_date	Date			**Appointment date**
App_time	**time**			**Appointment time**

↓ Description:

When user fills the all the data at that time it will store in this table and it will be display in the garage owner panel.

2. Table: Emergency_service

Emergency service				
Field Name	Data Type	Size	Constraint	**Description**
Id	Number	11	Primary key	**Auto increment**
Name	Varchar2	15		**Store customer name**
Phone	number	10		**Store the customer phone number**
Message	Varchar2	200		**Store the customer message**
Email	Varchar2	50		**Store customer email**
Area	Varchar2	40		**Store vehicle area**
Address	Varchar2	200		**Customer address**
Vehicle_number	Varchar2	10		**Customer vehicle number**
Vehicle_type	**Varchar2**	**20**		**Customer vehicle type**

↓ Description:

When user fills the data it will store the data in this table and send notification to all registered garage person and contact to customer.

3. Table: Garage_registration

Garage registrations				
Field Name	Data Type	Size	Constraint	**Description**
Id	Number	11	Primary key	**Auto increment**
Garage_name	Varchar2	20		**Store garage name**
Phone	number	10		**Store the garage phone number**
Email	Varchar2	50		**Store garage email**
Area	Varchar2	50		**Store the area**
Address	Varchar2	200		**Store the address**
Username	Varchar2	20		**Store username for login from**
Password	Varchar2	15		**Password for login from**
Confirm_password	Varchar2	15		**Conform password**
Owner_name	Varchar2	20		**Garage owner name**
Status	**Number**	**3**		**Replay status is 1. default value is 0.**

Description:

When garage owner wants to register in this website than they have to fill the detail. It will store the detail in this table. If status is 1 than only registration process is successfully. Default value is 0.

4. Table: Admin Login

Admin login from				
Field Name	Data Type	Size	Constraint	**Description**
Id	Number	11	Primary key	**Auto increment**
username	Varchar2	15		**Store admin username**
password	**number**	**10**		**Store the password**

🞣 Description:

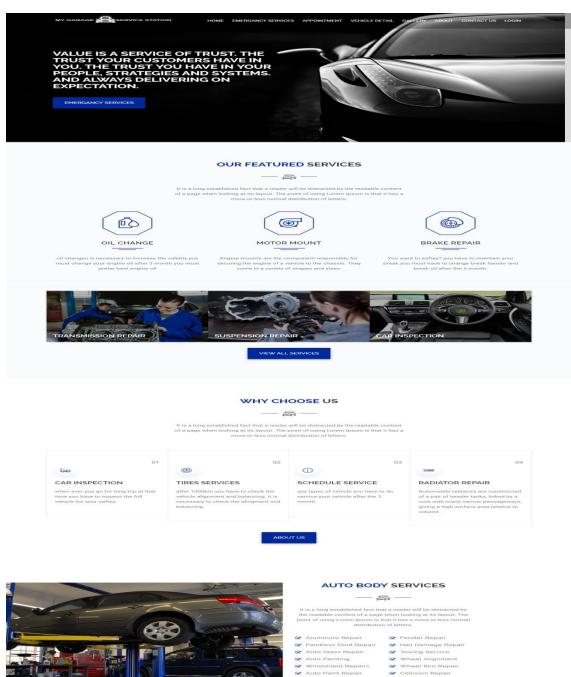Store the Username and password with account type which is used to login at that time open a particular form.

5. Table Name: Secondhand_vehicles

| Second end vehicle detail				
Field Name	Data Type	Size	Constraint	**Description**
Id	Number	11	Primary key	**Auto increment**
Vehicle_name	Varchar2	20		**Store garage name**
Year	Varchar2	50		**Store vehicle year**
Photo	Varchar2	20		**To Store vehicle photograph**
Detail	Varchar2	15		**Details of vehicle**
Vehicle_type	Varchar2	10		**Customer vehicle type**
Garage_name	Varchar2	15		**Store garage name**
Garage_Phone	number	10		**Store the garage phone number**
Garage_add	**Varchar2**	**200**		**Store garage address**

Description:
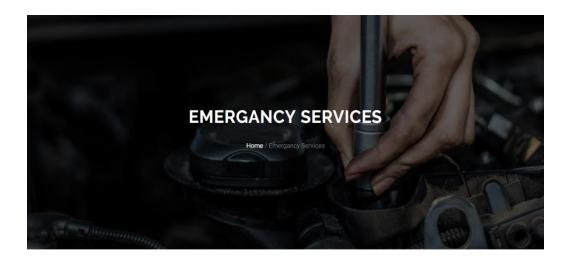
Garage owner fill the detail and store the data in the secondhand_vehicles. It will display whole the information to the all user.
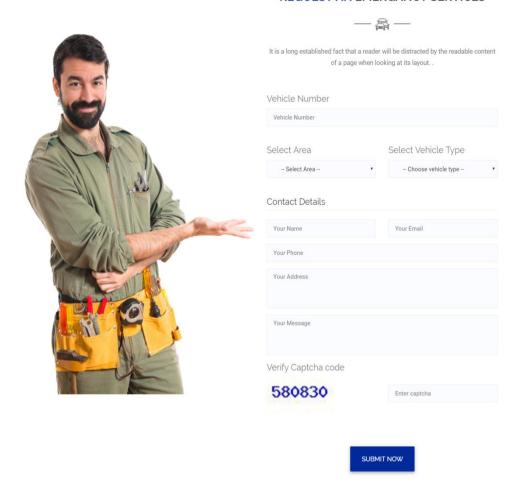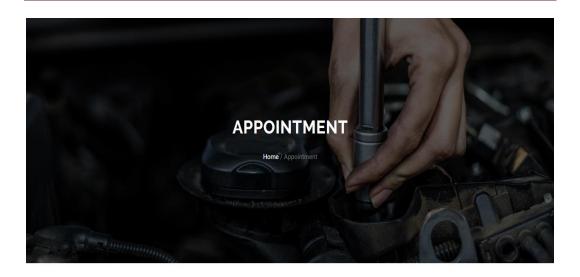
Input/output Design

Description:

- When you are open this website home page will be display.
- In this page contain the information about the service station as well as some photos about the servicing of vehicle.
- In the footer there is also information about the contact detail.
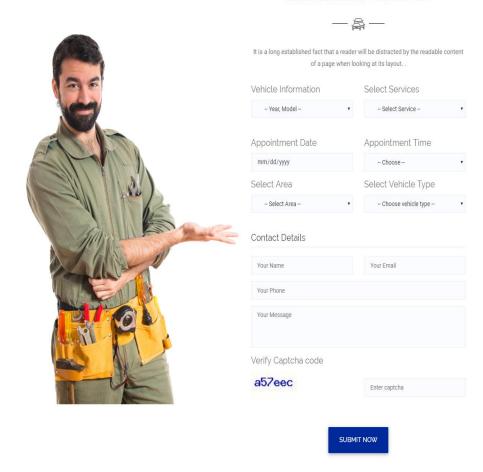- There is also available emergency service button.

REQUEST AN EMERGANCY SERVICES

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. .

Vehicle Number

Vehicle Number

Select Area | Select Vehicle Type

-- Select Area -- ▾ | -- Choose vehicle type -- ▾

Contact Details

Your Name | Your Email

Your Phone

Your Address

Your Message

Verify Captcha code
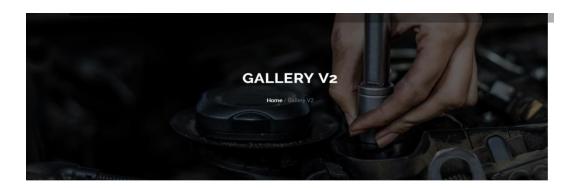
580830 | Enter captcha

SUBMIT NOW

➕ **Description:**

- ➢ When your vehicle trouble on the road at that you can select emergency service.
- ➢ You have enter basic information and click on the submit button.

APPOINTMENT

Home / Appointment

REQUEST AN APPOINTMENT

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. .

Vehicle Information
-- Year, Model --

Select Services
-- Select Service --

Appointment Date
mm/dd/yyyy

Appointment Time
-- Choose --

Select Area
-- Select Area --

Select Vehicle Type
-- Choose vehicle type --

Contact Details

Your Name

Your Email

Your Phone

Your Message

Verify Captcha code

a57eec

Enter captcha

SUBMIT NOW

♣ Description:

- ➢ Whenever you want service your vehicle at that time appointment service is used.
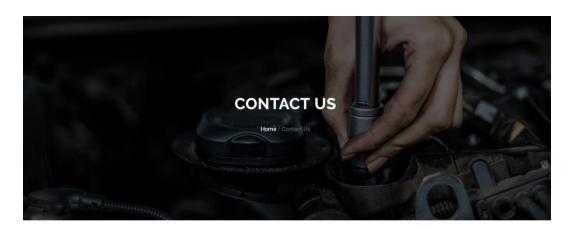- ➢ Fill the basic information as well as you have to select the date and time whenever you are free.
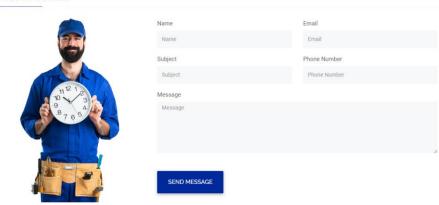
Description:

- ➢ If you want to check how to services vehicle at that time you can open the gallery.
- ➢ There are many real photos available.

Contact Info
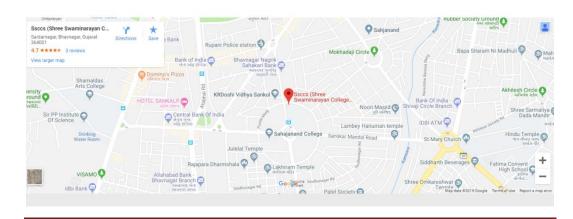
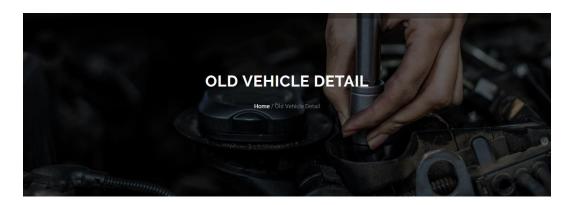|		
⊙ SHREE SWAMINARAYAN COLLEGE OF COMPUTER SCIENCE	☎ (+91)8200768038 (+91)8200076282	✉ TUSHARJOSHI8200@GMAIL.COM TARANG.MAHETA4545@GMAIL.COM

Get In Touch

Name

Name

Email

Email

Subject

Subject

Phone Number

Phone Number

Message

Message

SEND MESSAGE

♣ Description:

- ➢ In this page information about the admin.
- ➢ Any person can directly contact with admin through email or telephonic call.
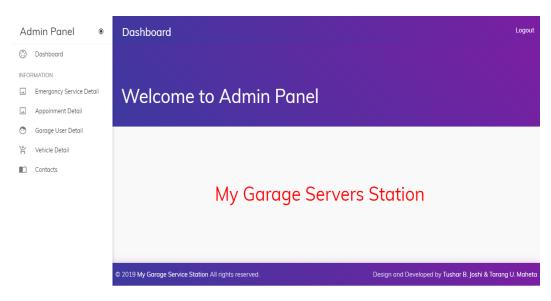
OLD VEHICLE WE PROVIDE

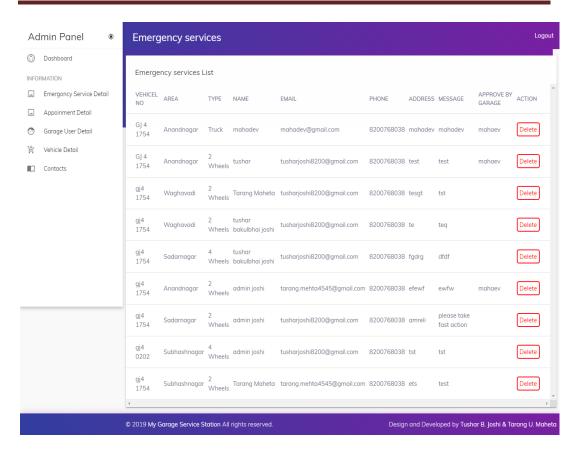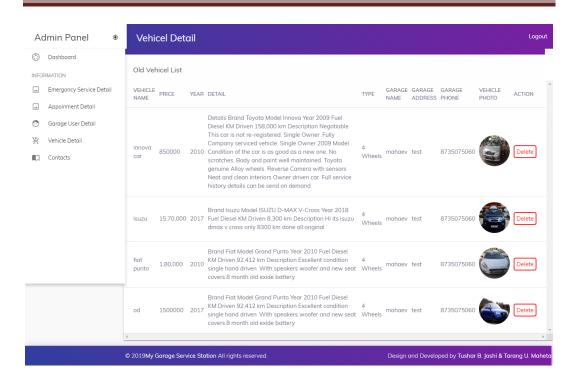| INNOVA CAR	ISUZU	FIAT PUNTO	OD
Rs. 850000	Rs. 15,70,000	Rs. 1,80,000	Rs. 1500000
VIEW DETAILS	VIEW DETAILS	VIEW DETAILS	VIEW DETAILS

Description:

➢ If you want to buy old vehicle, there is also available detail about the old vehicle.

➢ There is all information about the vehicle as well as information about the garage station where it is located.

Admin Panel ◉
- ⊙ Dashboard

INFORMATION
- ▭ Emergoncy Service Detail
- ▭ Appoinment Detail
- ☺ Garage User Detail
- 🛒 Vehicle Detail
- 📖 Contacts

Dashboard   Logout

Welcome to Admin Panel

My Garage Servers Station

© 2019 **My Garage Service Station** All rights reserved.   Design and Developed by **Tushar B. Joshi & Tarang U. Maheta**
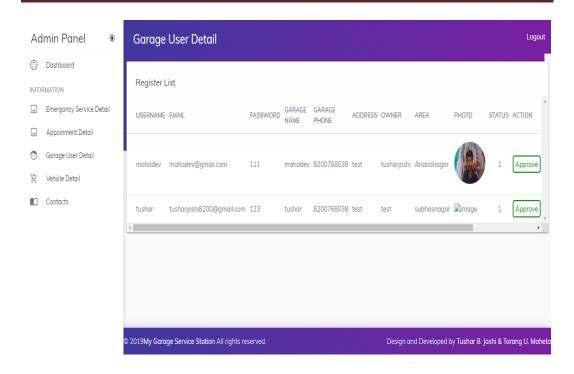
🔸 Description:

- ➢ It is admin panel. Here only admin can login.
- ➢ If you are login successfully than it will display the welcome page and also display the dashboard.
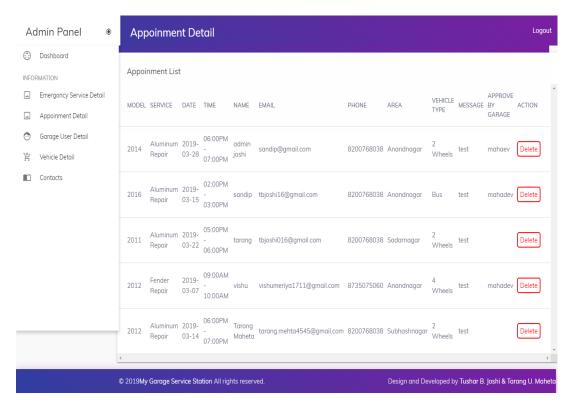
. **Description:**

  ➢ Admin can see all the detail about the emergency services.
  ➢ They can delete request.

✚ Description:
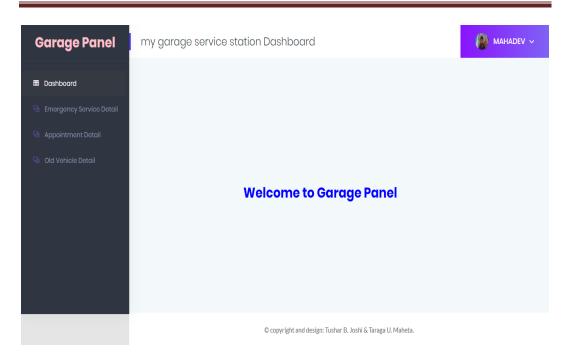
➢ Admin can see all the detail about the old vehicle.

➢ In the action they can only delete the information about the old vehicle.
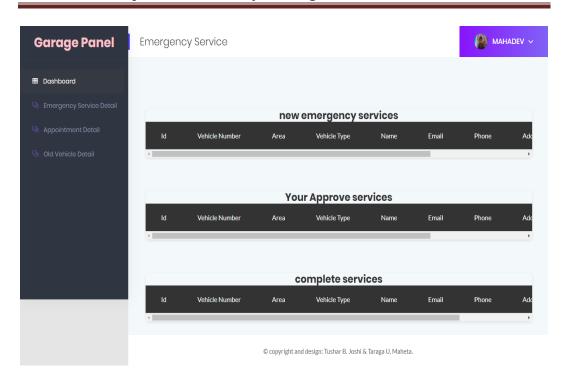
Description:

- ➢ When any garage owners can registration at that time all detail about the garage owner are displays in the contact detail of admin panel.
- ➢ If admin can approve the request than only garage owner can login successfully.
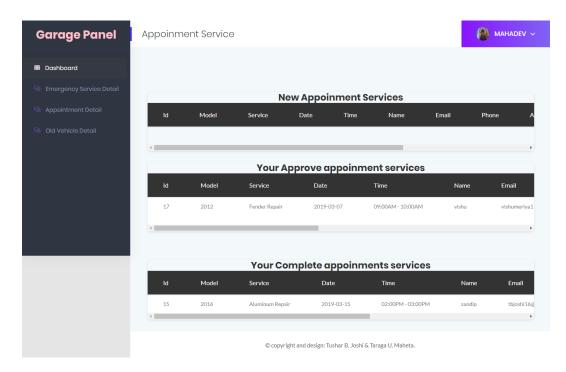- ➢ Admin can also not approve the request.

➕ **Description:**

➢ Garage owner can see all the detail about the appointment services.

➢ They can approve request or delete request.

Garage Panel

my garage service station Dashboard

MAHADEV ˅

- Dashboard
- Emergency Service Detail
- Appointment Detail
- Old Vehicle Detail

Welcome to Garage Panel

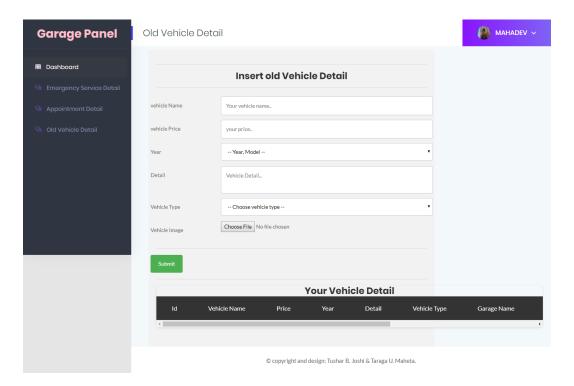© copyright and design: Tushar B. Joshi & Taraga U. Maheta.

🎗 **Description:**

➢ It is Garage panel. Here only registered garage owner can only login.

➢ If you are login successfully than it will display the welcome page and also display the dashboard.

🎗 **Description:**

➢ Garage owner can see all the emergency service.

➢ In the action they can approve the request.

➢ In this section there are three slots are available. it contain the different detail like new emergency services, your approve services and complete services.

✦ **Description:**

➢ Garage owner can see all the appointment detail.

➢ In the action they can approve the request.

➢ In this section there are three slots are available. It contain the different detail like new emergency services, your approve services and complete services.

Description:

➢ Garage owner can add detail about the old vehicle for the sailing.

➢ Garage owner can perform insert, update or delete the information about the old vehicle.

➢ In the bottom you can also see the vehicle detail.

Testing & Implementation

Testing Plan:

➢ The main Objective of doing testing is to identify all defects existing in system. Basically, the testing of system consists of providing the program with a set of test inputs (test case) and observing that whether the system behaves as expected.

➢ Testing is the process of executing a program with the explicit intention of finding errors, which makes the program fail. The tester is actually trying to make the program fail. A successful test is the one that finds errors.

➢ Regardless of which strategies the analysts follow, there are preferred practices to ensure that the testing is useful. The levels of tests and practices to ensure that testing is useful. The levels of tests and types of test data, combined with testing libraries are important aspects of test process. Among the various testing practices or strategies that are followed by analysts, the two important ones are unit testing and system testing.

➢ System testing is crucial step in determining whether a system application is viable, ready for market and free of bugs. No system will be completely free of glitches but through system testing can and will make sure that it is as error free as humanly possible.

Testing Approaches Used:

➤ **Unit testing – Module Testing:**

In this testing individual components and modules are tested to ensure that they operate correctly. We had tested each and every module such as valid login, credit card Transition, price calculation, banner management, Newsletter management, Gift management, coupon management, product management etc.

➤ **Integration Testing:**

This testing is a systematic technique for constructing the program structure while at same time conducting tests to uncover errors associated with interfacing. All the modules testing in the unit testing are integrated and are tested for their inter-dependency. This system mainly works on the integration of all the departments.

➤ **Human Factor Testing:**

In this type of testing the user can't use this management system without its accessibility.

➤ **Acceptance Testing:**

This type of testing is done when the system is being deployed. The testing data are supplied by the system procurer.

The acceptance testing was carried out in the company in the We Are Developer itself. If they think it capable and only after a series of thorough testing the system will be ready to use by the company.

> ## Control Testing:

Control is a management tool to that processing is performed in accordance to what management desire or intents of management. The objective of doing so are accurate and complete data, Authorized transactions of doing so are accurate and complete data, Authorized transactions, maintenance of audit trail of information, efficient, effective and economical processes, and process, and process meeting needs of the user.

> ## System Testing:

Involves executing an implementation of the system with test data and examining the outputs of the software and its operational behavior to check that it is performing as required.

> ## Statistical Testing:

Used to test the program's performance and reliability and to check how to works under operational conditions. Tests are designed to reflect the actual user inputs and their frequency.

> ## Defect Testing:

Intended to find inconsistencies between a program and its specification. These inconsistencies are usually due to program faults or defects

➢ **Black Box Testing:**
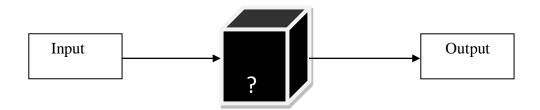
Figure: Black Box Testing

We have tested our functions of component to check the specification of our components. We selected input set to test the components like in query process we gave the different kinds of inputs to examine their output. We test system with sequences that have only a single value.

➢ **Structural Testing**

We have done path testing to exercise every independent execution path through a component or program. If every independent path is executed then all statements in the components must have been executed at least once.

We checked graphics module and database access module, which have independent execution path. They are not related to each other. The structure of our program is also checked.

➢ **Performance Testing**

Performance testing is designed to test the runtime performance of the system within the context of the system. These tests were performed as module level as well as system level. Individual modules were tested for required performance.

In Performance testing we counted the processing time and response from the server with respect to request.

We also checked out the total-execution time. On the click of the mouse we get the result.

➢ **Condition Testing:**

Coding testing is a test case design method that exercises the logical conditions in a program module. If the condition is incorrect then at least one component of the condition is incorrect.

➢ **Stress Testing:**

Stress testing is to test the system for emergent properties such as performance and reliability. Performance tests have to design to ensure that the system can process its intended load. Here we checked out multi user capability of our system. Here we check all four ACID property of the database.

➢ **Object Testing**

Object testing is to test objects as individual components, which are often larger than functions. Here following activities taken place.

✚ Various Testing Methods:

➢ Various testing strategies that used for testing the module are as follows:

1. Unit Testing:

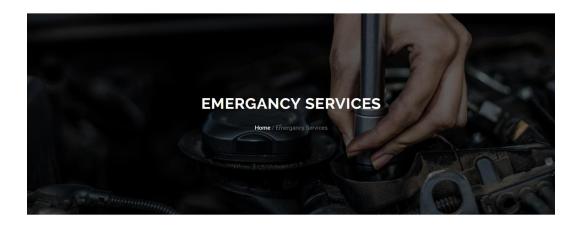➢ The testing that is performed on smallest piece of system.

2. Unit Test Plan:

➢ A unit test plan is used as a guide for testing. It contains detailed test cases to get expected result. The test eases should be design to ensure the completeness of test and provide highest likelihood for uncovering error. Unit test plan was drafted based on program specification.

➢ The programmer did testing based on UTP first. All defects are marked in UTP. The program is modified to remove errors. This is performed iterative until the program is defect-free. Independent round of unit testing was then being done by QC team member.

➢ Defects should be logged in UTP and handed over the programmer. 100%-unit testing was programmed again if control structure has changed new logical conditions are added; variable shared across programs are change/added. Decision between 100% and incremental testing was to be made by QC team member and programmer.

➢ Unit test Plan is sub-divided into following parts:

- **Functional Tests:**
  ➢ This test will cover functional tests from user's perspective like input is properly accepted and output properly produced.

- **Code Test:**
  ➢ This test will check the code is written in proper and consistent manner.

EMERGANCY SERVICES

Home / Emergancy Services

REQUEST AN EMERGANCY SERVICES

It is a long established fact that a reader will be distracted by the readable content
of a page when looking at its layout. .

Vehicle Number

| Vehicle Number |

Select Area   Select Vehicle Type

| -- Select Area -- ▼ | | -- Choose vehicle type -- ▼ |

Contact Details

| Your Name | | Your Email |

| Your Phone |

| Your Address |

| Your Message |

Verify Captcha code

d75b1b | Enter captcha |

SUBMIT NOW

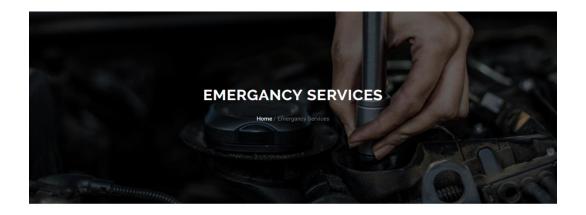**Please select Area...**

✦ **Description:**

➢ If you are not enter all the information than it will not
submit the data and also display the error message.

➢ Here area is not select than it will give error.

REQUEST AN EMERGANCY SERVICES

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. .

Vehicle Number

Vehicle Number

Select Area   Select Vehicle Type

-- Select Area --   -- Choose vehicle type --

Contact Details

Your Name   Your Email

Your Phone

Your Address

Your Message

Verify Captcha code

4734e1   Enter captcha

SUBMIT NOW

We Will Contact Soon...

♣ **Description:**

> ➢ If you are enter all the information than it will submit the data and also display the message **"We Will Contact Soon"**.

REQUEST AN APPOINTMENT

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. .

Vehicle Information
-- Year, Model -- ▼

Select Services
-- Select Service -- ▼

Appointment Date
mm/dd/yyyy

Appointment Time
-- Choose -- ▼

Select Area
-- Select Area -- ▼

Select Vehicle Type
-- Choose vehicle type -- ▼

Contact Details

Your Name

Your Email

Your Phone

Your Message

Verify Captcha code

c46e40

Enter captcha

SUBMIT NOW

Please select Vehicle Type...

➕ **Description:**

➢ If you are not enter all the information than it will not submit the data and also display the error message.
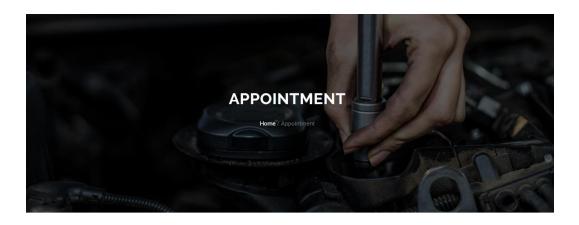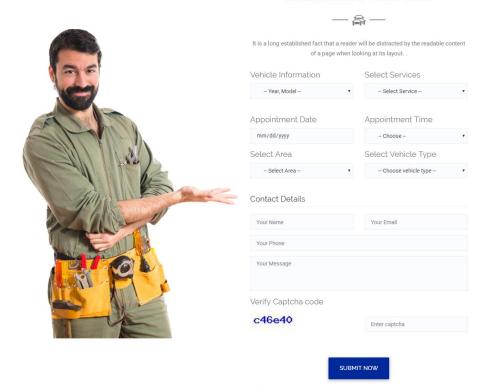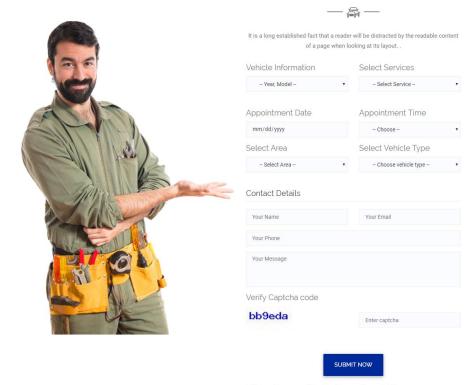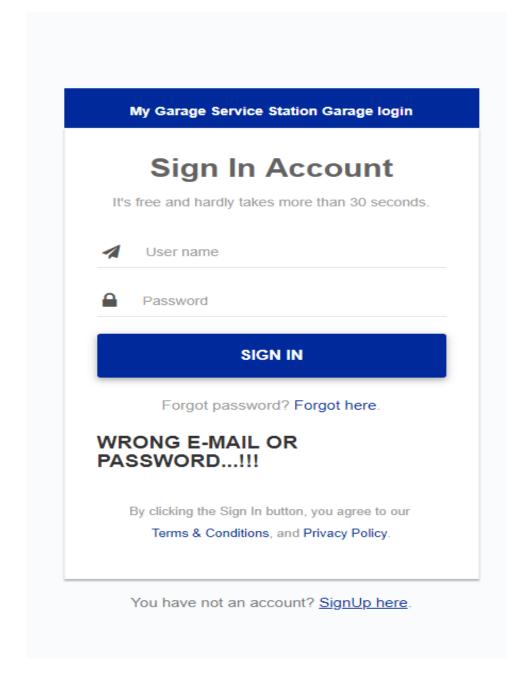
➢ Here vehicle type is not select than it will give error.

REQUEST AN APPOINTMENT

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. .

Vehicle Information   Select Services
-- Year, Model --   -- Select Service --

Appointment Date   Appointment Time
mm/dd/yyyy   -- Choose --

Select Area   Select Vehicle Type
-- Select Area --   -- Choose vehicle type --

Contact Details

Your Name   Your Email

Your Phone

Your Message

Verify Captcha code

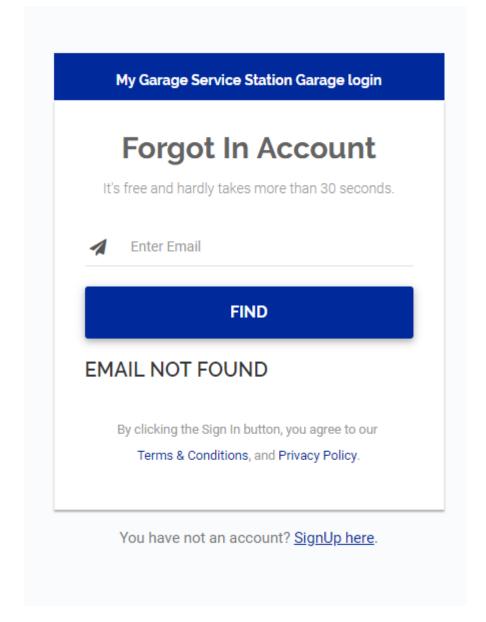bb9eda   Enter captcha

SUBMIT NOW

Thank you for Informing US.

Description:
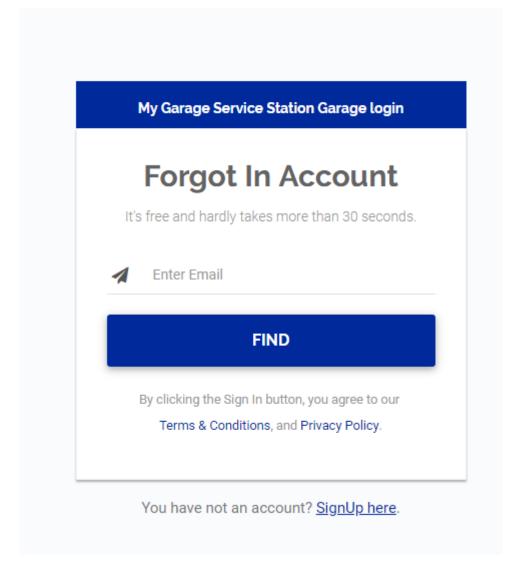
➢ If you are enter all the information than it will submit the data and also display the message **"Thank You for Informing US"**.

My Garage Service Station Garage login

Sign In Account

It's free and hardly takes more than 30 seconds.

User name

Password

SIGN IN

Forgot password? Forgot here.

WRONG E-MAIL OR PASSWORD...!!!

By clicking the Sign In button, you agree to our

Terms & Conditions, and Privacy Policy.
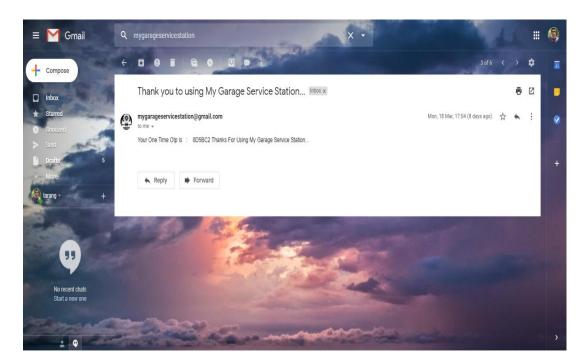
You have not an account? SignUp here.

➕ **Description:**

➢ When garage owner login they must be enter proper email address or password.

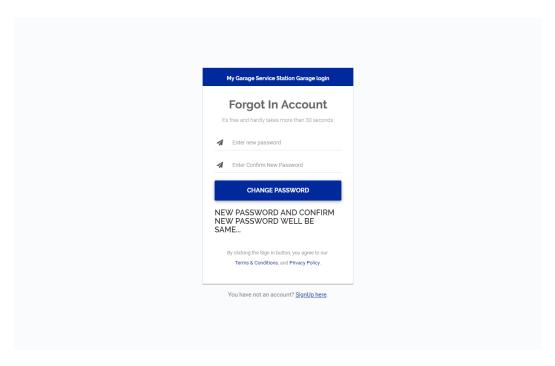➢ If they are not entering login id or password than it will display error message.

My Garage Service Station Garage login

Forgot In Account

It's free and hardly takes more than 30 seconds.

Enter Email

FIND

EMAIL NOT FOUND

By clicking the Sign In button, you agree to our

Terms & Conditions, and Privacy Policy.

You have not an account? SignUp here.

🞢 **Description:**

➢ When garage owner forgot password than they can change password using forgot password link.

➢ At that time garage owner must be enter proper email address.

➢ If email address is not match than it will display the error.

My Garage Service Station Garage login

Forgot In Account

It's free and hardly takes more than 30 seconds.

Enter Email

FIND

By clicking the Sign In button, you agree to our

Terms & Conditions, and Privacy Policy.

You have not an account? SignUp here.

Description:
- ➢ When you are enter proper email address and click on the next button than it will send OTP on your email address.
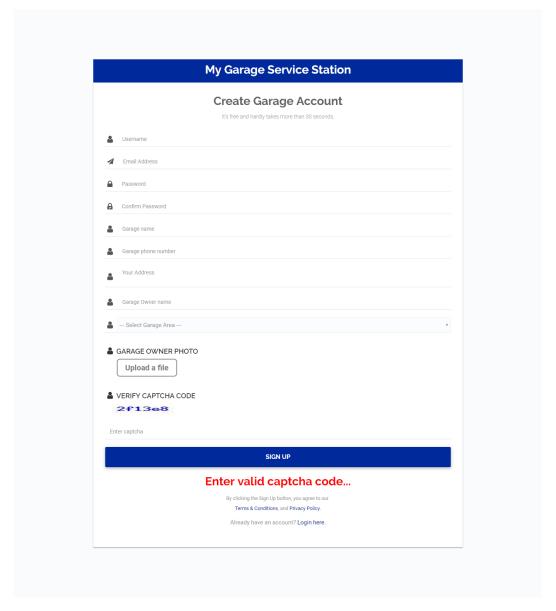
Description:

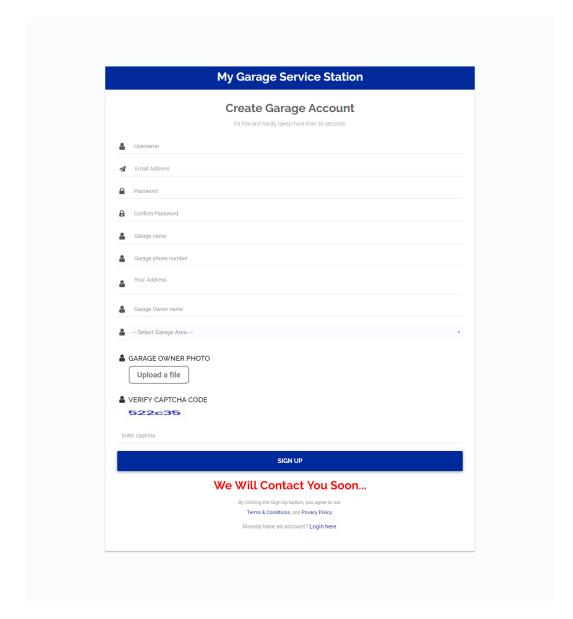➢ When mail address is match successful at that time it will send OTP on the email address.

Description:

  - ➢ After verify the OTP it will redirect on the set new password.
  - ➢ Here you have to enter new password as well as confirm password.
  - ➢ New password and confirm password entered must be same.

My Garage Service Station

Create Garage Account

It's free and hardly takes more than 30 seconds.

👤 Username

✈ Email Address

🔒 Password

🔒 Confirm Password

👤 Garage name

👤 Garage phone number

👤 Your Address

👤 Garage Owner name

👤 — Select Garage Area —

👤 GARAGE OWNER PHOTO

Upload a file

👤 VERIFY CAPTCHA CODE

2f13e8

Enter captcha

SIGN UP

Enter valid captcha code...

By clicking the Sign Up button, you agree to our
Terms & Conditions, and Privacy Policy.
Already have an account? Login here.

➕ Description:

- ➢ When user register on this website at that time it must be fill the all detail.
- ➢ If your not fill all the data and still click on the sign up button than it will not submit the data as well as display the error.
- ➢ Here captcha code is not enter valid than it will display the error when click on the sign up button.

Description:

- When Garage owner fill all the detail properly and click on the sign up button at that time it will display the message **"We Will Contact You Soon".**
- After the registration garage owner cannot login directly, they must be waiting for the response from the admin.

⬇ Description:
- ➢ When admin want to login in the my garage service station at that time admin must be enter proper email address and password.
- ➢ If admin enter either wrong email address or password than it will display the error.

Conclusion

The project was first experience for us in the website industries; hence it possesses very much importance in our career. We learnt basics of 'Website Development Life Cycle during our stay at "We are Developer Pvt. Ltd.". We came across important documents of projects and get idea about importance of documentation in website industries.

As the company follows the proper way to the project, it was an experience of systematically going through the project phases, planning the project and implementing the same. Since the requirements of the project were clearly fabricated, the first step was modularization of application.

We were assigned various role during the training period, due to that We get clear idea about the responsibilities that one need to take being a part of the team and how to make others responsibilities for the same.

We also gained the experience of solving the errors, "intelligence is not to make any mistakes, but quickly to see how to solve them quickly". The system will replace the manual system, so it will be more efficient, reliable and quick. We developed the system to satisfy as much requirements that are specified by the user and make system user friendly.

Limitation of System

- ➢ There is appointment service as well as emergency service facility for the Bhavnagar city.

- ➢ It may be happen some garage owner adds old vehicle detail but they are entering extra value for vehicle.

- ➢ It must be required either laptop or android phone for appointment booking, emergency appointment or admin login.

- ➢ It require remembering login id or password, it is tough because garage owner is not educated.

- ➢ There also required one operator to manage appointment as well as telephonic call.

- ➢ There is less use this website compares to android application.

Future Scope

➢ We will provide create user account.

➢ There also provide scope for online payment with cash back offer.

➢ We will develop android application with many languages.

➢ We will also provide this facility to multiple cities.

Bibliography

🞣 Reference Books…

- PHP: The Complete Reference (PHP 5.2)

🞣 Reference Sites…

- W3shcools (**www.w3school.com**)
- Tutorials point (**www.tutorialspoint.com**)
- Stack overflow (**www.stackoverflow.com**)
- Quora (**www.quora.com**)
- YouTube (**www.youtube.com**)