

Project Report on

AUTO FINANCE

at

Green Circle Technology



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Engineering

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U.V. PATEL COLLEGE OF ENGINEERING



21/05/2022

C E R T I F I C A T E

T O W H O M S O E V E R I T M A Y C O N C E R N

This is to certify that Mr. Yagnesh Pansuriya student of **B.Tech. Semester VIII (Computer Engineering)** has completed his full semester on site project work titled "**Auto Finance**" satisfactorily in partial fulfillment of the requirement of Bachelor of Technology degree of Computer Engineering of Ganpat University, Kherva, Mehsana in the year 2021-2022.

College Project Guide

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21/05/2022

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This is to certify that Mr. Dhruvesh Panchal student of **B.Tech. Semester VIII (Computer Engineering)** has completed his full semester on site project work titled "**Auto Finance**" satisfactorily in partial fulfillment of the requirement of Bachelor of Technology degree of Computer Engineering of Ganpat University, Kherva, Mehsana in the year 2021-2022.

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C E R T I F I C A T E

T O W H O M S O E V E R I T M A Y C O N C E R N

This is to certify that Mr. Anuj Patel student of **B.Tech. Semester VIII (Computer Engineering)** has completed his full semester on site project work titled "**Auto Finance**" satisfactorily in partial fulfillment of the requirement of Bachelor of Technology degree of Computer Engineering of Ganpat University, Kherva, Mehsana in the year 2021-2022.

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Certificate

This is to certify that **Pansuriya Yagnesh Arvindbhai**(Enroll No. **18012011054**), Student of Computer Engineering of ,U.V Patel College Of Engineering, Ganpat University have undergone through project in our company as a part of course curriculum.

He had completed his project between 10th Jan 2022 To 4th May 2022 on "Auto Finance " under guidance of Mr Kirit Chaudhari.

He took keen interest and hard work in all aspects of training we wish his all the success in his future endeavors.





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This is to certify that **Panchal Dhruveshbhai Amitbhai (Enroll No. 18012011050)**, student of Computer Engineering of ,U.V Patel College Of Engineering, Ganpat University have undergone through project in our company as a part of course curriculum.

He had completed his project between 10th Jan 2022 To 4th May 2022 on "Auto Finance" under guidance of Mr Kirit Chaudhari.

He took keen interest and hard work in all aspects of training we wish his all the success in his future endeavors.



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He had completed his project between 10th Jan 2022 To 4th May 2022 on "Auto Finance" under guidance of Mr Kirit Chaudhari.

He took keen interest and hard work in all aspects of training we wish his all the success in his future endeavors.



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Regards,

Dhruvesh Panchal
Anuj Patel

ABSTRACT

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. If your customers wish to see your business online and have instant access to your products or services.

This project aims at creating an Auto Finance System which can be used by financiers, dealers and their clients. It is a web-based application. This application is developed using HTML, CSS, AJAX, JavaScript and PHP. It uses a MySQL database. Firstly, the financer has to register clients' details in this application. Clients have to provide their personal details such as full name, documents, vehicle details, phone number, address and one guarantor details. After the successful registration, clients will be able to pay their EMIs into this application by providing login credentials. Financer is able to view and update personal details of every client.

Clients can check what amount is due of their vehicle and what portion of amount in the loan is paid. Clients can also download their payment reports. Apart from this, dealers are also able to manage if a client is delaying the EMIs and can fine penalty to them. On the other hand, they can contact the admin immediately if they face any difficulties by using this web application. This project provides high security to financers, dealers and clients. Our personal purpose is to make the procedure of auto finance easier and faster for users.

INDEX

ABSTRACT

ACKNOWLEDGEMENT

1. INTRODUCTION	9
1.1 Problem Definition	9
1.2 Background	9
1.3 Benefits of YJ Auto Parts	9
1.4 Aims and Objectives	9
1.5 Purpose	10
1.6 Functionality/Features	10
2. PROJECT SCOPE	12
2.1 Scope of Project	12
2.2 Functional Requirement	12
2.2.1 Admin Login	12
2.2.2 Customer Login	13
2.2.3 Add Customer	13
2.2.4 Add Showroom	13
2.2.5 Customer Payment	13
2.2.6 Showroom Payment	13
2.2.7 Fine Payment	14
2.2.8 Reports	14
2.2.9 SMS	14
2.2.10 Change Password	14
2.2.11 Profile	14
2.3 Non-Functional Requirement	15
2.3.1 Efficiency	15
2.3.2 Reliability	15
2.3.3 Usability	15
2.3.4 Implementation	15
2.3.5 Performance	15
2.3.6 Scalability	15
3. FEASIBILITY ANALYSIS	16
3.1 Technical feasibility	16
3.2 Economic feasibility	16
3.3 Operational feasibility	16
3.4 Implementation feasibility	17
3.5 Time Schedule feasibility	17

4. SOFTWARE AND HARDWARE REQUIREMENT	18
4.1 Hardware Requirements	18
4.2 Software Requirements	18
5. PROCESS MODEL	19
5.1 List of Major Activities	19
5.2 Process Diagram	20
6. PROJECT PLAN	23
6.1 Project Module	23
6.1.1 Admin Module	23
6.1.2 Customer Module	23
6.1.3 SMS Module	23
6.1.4 Payment Module	23
6.1.5 Showroom Module	23
6.1.6 Setting Module	23
7. SYSTEM DESIGN	24
7.1 Use Case Diagram	24
7.2 Class Diagram	26
7.3 Activity Diagram	27
7.4 Sequence Diagram	29
7.5 DFD Diagram	31
7.6 ER Diagram	34
7.7 Data Dictionary	35
8. TESTING	43
9. IMPLEMENTATION SCREENSHOTS	53
10. INSTALLATION STEPS	77
11. CONCLUSION AND FUTURE WORK	78
11.1 Conclusion	78
11.2 Future Work	78
12. ANNEXURE	79
12.1 References	79
12.2 Tools and Technology	79
12.3 About the company	80
12.4 About the college	81

LIST OF FIGURES

Figure No.	Figure Name	Page No.
Fig 5.2.1	Process Diagram	20
Fig 7.1.1	Use Case Diagram for Admin	24
Fig 7.1.2	Use Case Diagram for User	25
Fig 7.2	Class Diagram	26
Fig 7.3.1	Activity Diagram for user	27
Fig 7.3.2	Activity Diagram for admin	28
Fig 7.4.1	Sequence Diagram for Admin	29
Fig 7.4.2	Sequence Diagram for Customer	30
Fig 7.5.1	DFD level-0 Diagram	31
Fig 7.5.2	User DFD level-1 Diagram	32
Fig 7.5.3	Admin DFD level-1 Diagram	33
Fig 7.6	ER Diagram	34
Fig 9.1	Home page	53
Fig 9.2	Features Section	55
Fig 9.3	Contact Us Section	56
Fig 9.4	Admin Login Page	57
Fig 9.5	Dashboard Page	58
Fig 9.6	Customer Page	59
Fig 9.7	Add New Customer Page	60
Fig 9.8	NOC Generate	60
Fig 9.9	HP Generate	61
Fig 9.10	Showroom Page	61
Fig 9.11	Add New Showroom	62
Fig 9.12	Withhold Page	62
Fig 9.13	Customer payment	64
Fig 9.14	Payment Report Page	64
Fig 9.15	Showroom Payment	65
Fig 9.16	Reprint Receipt	66
Fig 9.17	Fine Payment	67
Fig 9.18	Monthly Installment	67
Fig 9.19	Loan Completed	68
Fig 9.20	Fine Payment Report	68
Fig 9.21	SMS	69
Fig 9.22	Pending SMS	70
Fig 9.23	History SMS	70
Fig 9.24	Change Password	71
Fig 9.25	Edit Profile	72
Fig 9.26	Customer Home	73
Fig 9.27	Customer Details Page	74
Fig 9.28	Installment Payment	74
Fig 9.29	Payment Details	75
Fig 9.30	Payment Credentials	75
Fig 9.31	Payment Status	76
Fig 9.32	Success	76

LIST OF TABLES

Table No.	Table Name	Page No.
Table 1.6.1	Functionality/ Features	11
Table 7.7.1	Admin Data Dictionary	35
Table 7.7.2	Customer Installment Data Dictionary	36
Table 7.7.3	Documents Data Dictionary	36
Table 7.7.4	Payment Data Dictionary	37
Table 7.7.5	Fine Payment Data Dictionary	38
Table 7.7.6	SMS Data Dictionary	38
Table 7.7.7	Prefix SMS Data Dictionary	39
Table 7.7.8	Customer Data Dictionary	41
Table 7.7.9	Showroom Data Dictionary	41
Table 7.7.10	Temporary Data Dictionary	42
Table 8.1	User Login test case	44
Table 8.2	Admin Login test case	44
Table 8.3	Add Customer test case	45
Table 8.4	Add Showroom test case	46
Table 8.5	Withhold test case	46
Table 8.6	Customer Payment (offline) test case	47
Table 8.7	Payment Report test case	47
Table 8.8	Showroom Payment test case	48
Table 8.9	Reprint Receipt test case	48
Table 8.10	Fine Payment test case	48
Table 8.11	Installment Remaining test case	49
Table 8.12	Loan Completed test case	50
Table 8.13	Fine Payment Report test case	50
Table 8.14	Change Password test case	50
Table 8.15	Edit Profile test case	51
Table 8.16	Customer Payment (Online)	52

CHAPTER 1: INTRODUCTION

1.1. Problem Definition: Auto Finance

Technology: PHP, AJAX, JavaScript, Bootstrap, CSS, HTML

Database: MySQL

1.2. Background:

As technology starts growing, we need to update ourselves to current trends and our upcoming generations looking forward to necessary services in one touch. Nowadays, the users of the internet are growing at the speed of a rocket all over the globe. In addition, the internet has made everyone's life more convenient and faster. So, every field in the world is growing faster in online as compared to offline. So, this web-based Auto Finance system will help financiers and dealers to handle their clients online. Interactive GUI and the ability to manage various activities will make this system very flexible and convenient. Any financer or a vehicle dealer is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage their clients' activities from a single online system. This system provides various facilities such as graphical status, payment management, view reports, SMS setting, edit profile and many more. Admin has the power to manage every professional thing of their clients using this single system.

1.3. Benefits of Auto Finance Application:

- This application is fully functional and flexible.
- You can instantly call or contact the admin for regarding to any issues related to payment, EMIs, Reports etc.
- It is available for 24 hours.
- You can rapidly generate payment receipts and various reports within a few seconds.
- Less Time Consuming
- It saves a lot of time, money and labor.
- Quickly send and receive WhatsApp messages right from your computer
- Online Payment option offers simply follow a few steps and there you are stress-free of your monthly EMI payments.

1.4. Aims and Objectives:

Aims:

The aim of our application is to make faster & simplify the process of financing services. By doing this, Admins or financers can save their lot of time and use that time in other activities as well as manage efficiently everything from this single system. Furthermore, admins and customers can directly interact with each other and check their daily updates with the help of this application. It will also provide various options for payment such as online, cash and cheque to reduce the burden of customers. Lastly, it is an online platform so, financers and customers can check or pay their EMIs from any place.

Objectives:

1. Auto Finance Application is a fully dynamic and effective website. It'll provide the knowledge to the customers about when your bills are due and when you can receive a fine for late payment. They can easily see their loan statistics in graphs as well as personal details in addition with vehicle details, which are given to admin, and documents submitted.
2. On the other side, the financer has the facility to manage every single customer's operation from online payment to offline payment.
3. The online market works for 24x7x365 days a year. This means you don't have to worry about the time and can pay or check every necessary detail anytime from anywhere. All you need is a working internet connection.
4. Easy to use and navigate.

1.5. Purpose:

The main purpose of the project is to integrate distinct sections of the finance into a consistent manner so that complex functions can be handled smoothly. The project aims at the following matters

1. The System Which will allow the user to quickly and easily pay installments of vehicles along with getting receipts of payments whether it is online or offline.
2. The admin can save a lot of time because this system provides automatic calculation of loan and automatic fine generation according to EMI date, there is no need to calculate manually.
3. The System is designed and developed in such a way that it tries to overcome all the prescribed problems.
4. The system being an online system will give accurate information regarding the EMIs which helps to view all the stuff information directly from anywhere.
5. Consistently get updates of all the installments via WhatsApp or SMS.

1.6. Functionality/Features:

- 3.1 Quickly send and receive WhatsApp messages right from your computer.
- 3.2 Showroom loans enable entrepreneurs to expand their business with good infrastructure.
- 3.3 Simply follow a few steps and there you are stress-free of your monthly EMI payments.
- 3.4 There are Graphical Status (Income & Expense) and Today's Collection and Reminder and Due Customer List 1 Days and Upcoming's Collection for sending updates on WhatsApp.
- 3.5 Date wise Show Pay Installment Details and Print for every Month Wise Pay Installment for Customer Loan and Personal Loan
- 3.6 Payment Gateway.
- 3.7 Manage your account.
- 3.8 Automatic fine generates according to EMI date.
- 3.9 Contact Us page is available to contact Admin for queries.

Table-1.6.1-Functionality/Features

For Customers	For Admin
<p>Feature 1: Login</p> <p>Feature 2: See necessary details such as load details, personal documents, guarantor details and personal details.</p> <p>Feature 3: Generate receipts for each installment.</p> <p>Feature 4: Can see loan statistics (Pending loan and paid loan) on graph</p> <p>Feature 5: Online payment method for reliable transaction.</p>	<p>Feature 1: Can see total numbers of users.</p> <p>Feature 2: Manage all customer details such as vehicle details, payment etc.</p> <p>Feature 3: Can see total number of showrooms.</p> <p>Feature 4: The admin can interact with all users through WhatsApp and text SMS.</p> <p>Feature 5: Can see graphical status (Income and Expense), Today's showroom payment collection, Today's Customer payment collection, Customer graphical view, Today's Collection reminder, Due Customer List 1 Days etc.</p> <p>Feature 6: check fund status, upcoming collections for next 1 month.</p>

CHAPTER 2: PROJECT SCOPE

2.1.Scope of Project:

The project scope defines the description of the work that is required in delivering the Auto Finance system. The following are the scopes of work during the course of the project.

Nowadays when everything is online, how is it possible that finance management of vehicles is left behind. In nowadays making a decision for a loan while buying a vehicle can be incredibly frustrating, because of the many possibilities. The market is often flooded with an incredible number of options and it can be hard to determine which finance agent is the right one for the job. There are a lot of small financing companies who face difficulties in managing the EMIs, and calculating everything manually for customers from late payment fine to month wise installments so the idea behind developing this application is that the financer can manage every operation of customer from a single window as per their required need. This application is not widely popular but, in the future, they have a large scope of growth.

The application is an online through which individual financers can maintain their consumers. This application keeps and manages users as well as showrooms registration and also accesses its information to perform all the adding, updating and deleting. The financer can update the information of the loan rate according to market competition which makes the consumer easy to select for the efficient factors they always dreamt for their vehicles buying effortlessly at any time at lowest loan rate, anywhere as it will be online.

The scope of this application is to make the whole process of financing management easy using the technology of current generation, as we know the technology is on its peak and the applications of it are growing immensely, so using any technology which can make human efforts minimal is what we always want. This application reduces the time and the complexity as if the financer loses a lot of time in searching the manual written documents and the calculations of the installments and the bills also takes time.

2.2.Functional Requirements

This system supports the following users: Admin and Customer. Customers can use only a few features of the application; they do not have rights to use all the functionalities. Customer needs to submit all required documents to the admin first to use the system. The admin has the all rights to manage everything. Further, they can use the system to filter and evaluate the users. The system has the following functional requirements.

2.2.1. Admin Login

Input: The user has to enter his/her username and password for logging into the system.

Output: If the username and password are valid, then the user will be redirected to dashboard page.

Process: Validation will be there for both username and password. Username and password will also validate with the data stored in the database as well as Password should be hidden from others while typing it in the field. Otherwise, the user will be prompted to re-enter the details.

2.2.2. Customer Login

Input: The customer has to enter given his/her account number and phone no. for logging into the system.

Output: If the account no. and phone no. are valid, then the user will be redirected to home page.

Process: Account no. and phone no. will also validate with the data stored in the database. If entered details are wrong, then the user will be prompted to re-enter the details

2.2.3. Add Customer

Input: The admin needs all required information to add customers.

Output: If all information is valid, then the customer will be added to application.

Process: All information is verified first and everything works well then, the record is inserted into the database.

2.2.4. Add Showroom

Input: The admin has to enter all necessary information to add a showroom.

Output: If all information is valid, then the new showroom will be added to application.

Process: All information is verified first and everything works well then, the record is inserted into the database.

2.2.5. Customer Payment

Input: This module describes the payment done by the customer. The payment information can include information like payment amount, date of payment, mode of payment etc.

Output: Displays the payment done by the customer.

Process: Checks whether all the fields are entered correctly or not.

2.2.6. Showroom Payment

Input: This module describes the payment done by the admin to the showroom. The admin required to enter the showroom name, total loan amount, customer name etc.

Output: Displays the payment done with all the details.

Process: Checks whether the customer is from the same showroom or not. Moreover, checks vehicle amount, down payment etc.

2.2.7. Fine Payment

Input: The admin has to enter date, fine amount, loan clear and payment type.

Output: Insert fine payment details into database.

Process: The customer needs to pay a fine for late payment of installments. Fine is automatically generated by the system according to due days. User just needs to check the total fine and to pay he/she required to contact the admin. After successful payment, the system simply subtracts amount from total fine amount.

2.2.8. Reports

Input: Required different inputs such as month name for monthly installment reports, dates to generate fine report between two dates etc. for various reports.

Output: Generate various reports as per need.

Process: Check input values with database and generate reports.

2.2.9. SMS

Input: Required server credentials, user phone number and SMS content to send.

Output: Send SMS on user's phone.

Process: Check number is valid or not as well as user information.

2.2.10. Change Password

Input: It is necessary to need an old password and one new password (which you want to change).

Output: After successfully changing the password one success message will be displayed.

Process: Replace old password with new password into database.

2.2.11. Profile

Input: By going to the Profile section in setting.

Output: User information will be displayed with the edit profile option.

Process: The user data will be displayed here from the database and if he/she wants to edit anything can be editable and new data will be saved in the database.

2.3. Non-Functional Requirements

2.3.1. Efficiency:

When an Auto Finance web application is implemented, customers and financers can manage everything from installments to fine with ease.

2.3.2. Reliability:

The system should provide a reliable environment to both customers and financers. All payments should be reached at the admin without any errors.

2.3.3. Usability:

This application is designed for a user-friendly environment and ease of use. Users without any technical background should be able to operate it easily. The user interface should be simple and user friendly.

2.3.4. Implementation:

Implementation of the system using HTML, JavaScript and Bootstrap in front end with PHP core as back end and it will be used for database connectivity. And the database part is developed by MySQL. Responsive web designing is used for making the website compatible for any type of screen.

2.3.5. Performance:

Average response time should be around 4 seconds. It should not exceed 8 seconds in case of high traffic on the website.

2.3.6. Scalability:

The system must be able to handle thousands of users at a time. The system should be capable of handling much higher traffic around the period when multiple users are searching for products.

CHAPTER 3: FEASIBILITY STUDY

3.1.Techical Feasibility:

The technical Feasibility Study aims to determine whether or not the product is technically feasible. This study determines how the technical requirements of the project can be fulfilled, which location would be the most appropriate and what should be the size of the plant? This study and demand and market feasibility study are the important prerequisites for evaluating project prospects for commercial profitability and national economic profitability upon which the final decision should depend. The technical study also provides the basis for cost estimating. According to the definition of technical feasibility the compatibility between front-end and back-end is very important. In our project the compatibility of both is very good. We have used here the HTML, JavaScript and AJAX with MySQL Database and language as PHP. The speed of output is very good, when we enter the data and click the button then the response time is very fast and gives results very quickly. We use Adobe Dreamweaver and Brackets. The designing of front-end of any project is very important so we select Adobe Dreamweaver as front-end due to following reason:

- A. Easy implementation of code.
- B. Allows developers to invoke commands within the IDE.
- C. Many extensions.
- D. Easy debugging.

We have selected MySQL because of the following number of reasons.

- a. MySQL is easy to scale.
- b. Uses internal memory for storing the (windowed) working set, enabling faster access of data.
Replication and high availability

3.2.Economic Feasibility:

Economic analysis is the most frequently used technique for evaluating the effectiveness of a proposed system. More commonly known as cost/benefit analysis: the procedure is to determine the benefits and savings that are expected from a proposed system and compare them with cost. If benefits outweigh cost, a decision is taken to design and implement the system. Otherwise, further justification or alternatives in the proposed system will have to be made if it is to have a chance of being approved. This is an ongoing effort that improves in accuracy at each phase of the system life cycle. Hence the user will not find any difficulty at the accessing time and after accessing the user also newer find difficulty i.e. hang, slow speed or slow response time. If we are developing a live project then it gives a lot of confidence. It is better for us because we are developing a system without any money. So, everything is in favor now, we can say the cost of this software is We think negligible. Hence the economic feasibility is very good.

3.3.Operational Feasibility:

At present communication is based on telephone or manual meeting. After computerization the manual meet must be removed or avoided. Telephonic communication is also avoided because with the help of Intranet we can communicate with each terminal and query any subject very quickly with the help of

another person, which is on-line. At any time, we can consult or chat with more than one person at the same time. Management can also talk to all users at the same time. When the telephone is only medium to communicate then the problem is only one person can talk to each other not more than one due to reservation of bandwidth. All the computational work will be done automatically in our system. Response time is very quick. The System will be built on the technology of GUI so that interaction to the system will not be boring as like writing/preparing/maintaining data into the form of manual paper. Users that work into the GUI environment work more interestingly than the paper based. This result works more efficiently. We have used high Scalability or Efficient Time That our Users will Have Better Use Of our Application.

3.4.Implementation Feasibility:

Implementation feasibility is the framework of facilitating and accelerating the successful implementation of a regional energy plan by evaluating whether the plan at hand is fiscally, technologically, legally, politically, administratively, culturally, and ethically feasible. In Our case we are using PHP, JavaScript, Bootstrap and AJAX hence our implementation feasibility is good.

3.5.Time Schedule Feasibility:

Schedule feasibility is the degree to which a deadline for a strategy, plan, project or process is realistic and achievable. As per our project definition it is about Auto Finance system so it is possible that in some cases payment tasks will take some time. Time is very precious so that we have to keep in mind for that.

CHAPTER 4: **HARDWARE AND SOFTWARE REQUIREMENTS**

4.1 Hardware requirements:

- 1) Operating System: Windows 7 or any high
- 2) An Intel Pentium 4 processor or later that's SSE3 capable
- 3) Minimum 4 GB RAM
- 4) Minimum 50 GB ROM

Recommended:

- 1) 6 GB RAM or any Up.
- 2) Windows 8 or any high
- 3) 80 GB ROM oy any high

4.2 Software requirements

- 1) Xampp or Wamp Server
- 2) MySQL Database
- 3) Adobe Dreamweaver or Brackets
- 4) Browser – Chrome, Mozilla or any

Recommended:

- 1) Chrome Browser
- 2) Brackets

CHAPTER 5: PROCESS MODEL

Any application which has to be created requires a definite kind of process model. These process models determine the productivity of the application. Selection of proper process model is responsible for faster software development.[1]

Most modern development processes can be vaguely described as agile. Other methodologies include waterfall, prototyping, iterative and incremental development, spiral development, rapid application development, and extreme programming.

Here we have used an Agile process model. Agile software development is a group of software development methodologies based on iterative and incremental development, where requirements and solutions evolve through collaboration between self-organizing, cross-functional teams.

5.1 List of major Activities:

Software Project Management consists of many activities, that includes planning of the project, deciding the scope of product, estimation of cost in different terms, scheduling of tasks, etc.

The list of activities are as follows:

1. Project planning and Tracking
2. Project Resource Management
3. Scope Management
4. Estimation Management
5. Project Risk Management
6. Scheduling Management
7. Project Communication Management
8. Configuration Management

- 1. Project Planning:** It is a set of multiple processes, or we can say that it a task that performed before the construction of the product starts.
- 2. Scope Management:** It describes the scope of the project. Scope management is important because it clearly defines what would do and what would not. Scope Management create the project to contain restricted and quantitative tasks, which may merely be documented and successively avoids price and time overrun.
- 3. Estimation management:** This is not only about cost estimation because whenever we start to develop software, but we also figure out their size (line of code), efforts, time as well as cost.
- 4. Scheduling Management:** Scheduling Management in software refers to all the activities to complete in the specified order and within time slotted to each activity. Project managers define multiple tasks and arrange them keeping various factors in mind.

5. **Project Resource Management:** In software Development, all the elements are referred to as resources for the project. It can be a human resource, productive tools, and libraries.
6. **Project Risk Management:** Risk management consists of all the activities like identification, analyzing and preparing the plan for predictable and unpredictable risk in the project.
7. **Project Communication Management:** Communication is an essential factor in the success of the project. It is a bridge between client, organization, team members and as well as other stakeholders of the project such as hardware suppliers.
8. **Project Configuration Management:** Configuration management is about to control the changes in software like requirements, design, and development of the product.

5.2 Process Diagram: -

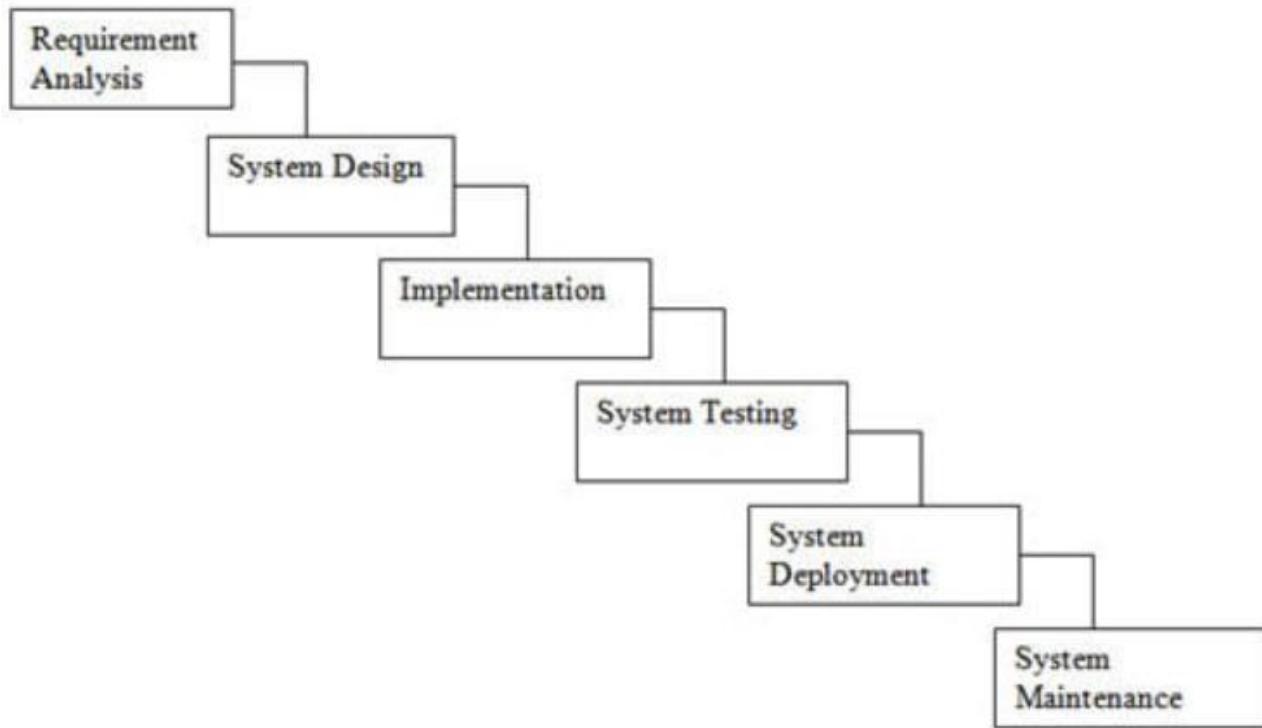


Fig-5.2.1-Process Diagram

Requirement and analysis at this stage, I will gather information about what the customer needs and define the problems the system is expected to solve. I will also include customers' business context, product functions and its compatibility. I will gather requirements such as software like the programming language to use, database model and hardware needed such as laptop, printers etc.

Design At this stage, I will make an overall design of the system architecture and physical design which includes User Interface and Database design. It is at this stage that I will identify any faults before moving onto the next stage. The output of this stage is the design specification which is used in the next stage of implementation.

Coding/Implementation At this stage, I will begin coding as per the design specification(s). The output of this step is one or more product components built according to a pre-defined coding standard and debugged, tested and integrated to satisfy the system architecture requirement.

Testing At this stage, I will ensure both individual and integrated whole are methodically verified to ensure they are error free and satisfy customer requirements. I will involve both unit testing of individual code modules, system testing of the integrated product and acceptance testing conducted by or on behalf of the customer. I will ensure bugs found are corrected.

Deployment At this stage, I will Make sure that the environment is up and there are no sev 1 defects open and also the test exit criteria are met. I will ensure deploy the application in the respective environment.

Maintenance This stage occurs after installation. It involves modifications on the system to improve performance. Such changes are user initiated or as a result of bug being discovered which were initially not known. These modifications are recorded for documentation and system update.

Advantages of Waterfall Model:

- The advantage of waterfall development is that it allows for departmentalization and control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one
- The waterfall model progresses through easily understandable and explainable phases and thus it is easy to use.
- It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.
- In this model, phases are processed and completed one at a time and they do not overlap. Waterfall model works well for smaller projects where requirements are very well understood.

Disadvantages of Waterfall Model

- It is difficult to estimate time and cost for each phase of the development process.
- Once an application is in the testing stage, it is very difficult to go back and change something that was not well-thought out in the concept stage.
- Not a good model for complex and object-oriented projects.
- Not suitable for the projects where requirements are at a moderate to high risk of changing

CHAPTER 6: PROJECT PLAN

6.1 Project Module

Project Have Following Modules:

6.1.1 Admin Module

The Project Admin module allows administrators to add, update, delete clients. Admin can manage showroom payments and can manage profile. Moreover, view information about the remaining EMIs and how many months the loan will continue. In addition, admin can also view date wise information of payment, EMIs and also download different reports.

6.1.2 Customer Module

Clients can check what amount is due of their vehicle and what portion of amount in the loan is paid. Clients can also download their payment reports. Clients can check fine payments if they miss any EMI. In addition, they can contact the admin immediately if they face any difficulties by using this web application.

6.1.3 SMS Module

This module helps admin to send text messages to clients when the EMI date is near and also notify them if there's a delay in paying the EMI as well as it can send messages related to festivals for greeting the clients.

6.1.4 Payment Module

This module is for Payment gateway integration, Users can pay their installments/ EMI through online portal such as Paytm, UPI as well as can deposit cheque to financer. In addition, they can view their amount due to pay to the dealer as well as months remaining to be completed before their EMI ends.

6.1.5 Showroom Module

It determines the Data of the showrooms such as their contact information, address and pin code. Admin can view, update, delete showroom details and use all the data as per the needs.

6.1.6 Setting Module

In this module admin can edit profile information such as logo, business name, business address, contact, and payment gateway details. In addition, the admin can change the password of the admin section by providing an old password.

CHAPTER 7: SYSTEM DESIGN

7.1 Use Case Diagram:

A UML use case diagram is the primary form of system/software requirements for a new software program underdeveloped. Here the actors are admin, owner and customer. The use case shown below.

Use Case Diagram for Admin side:

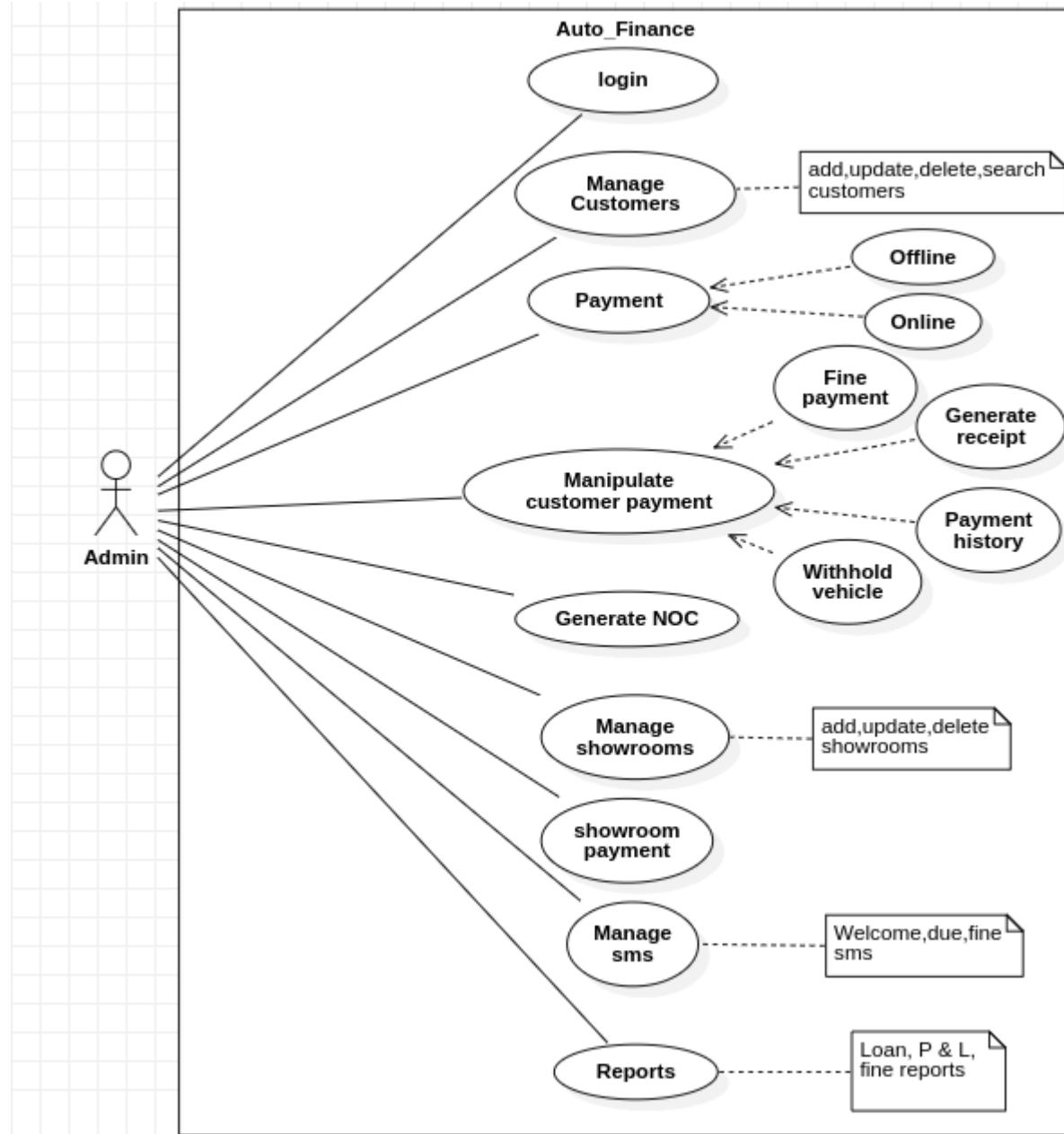


Fig 7.1.1- Use Case Diagram for Admin

Use Case Diagram for User side:

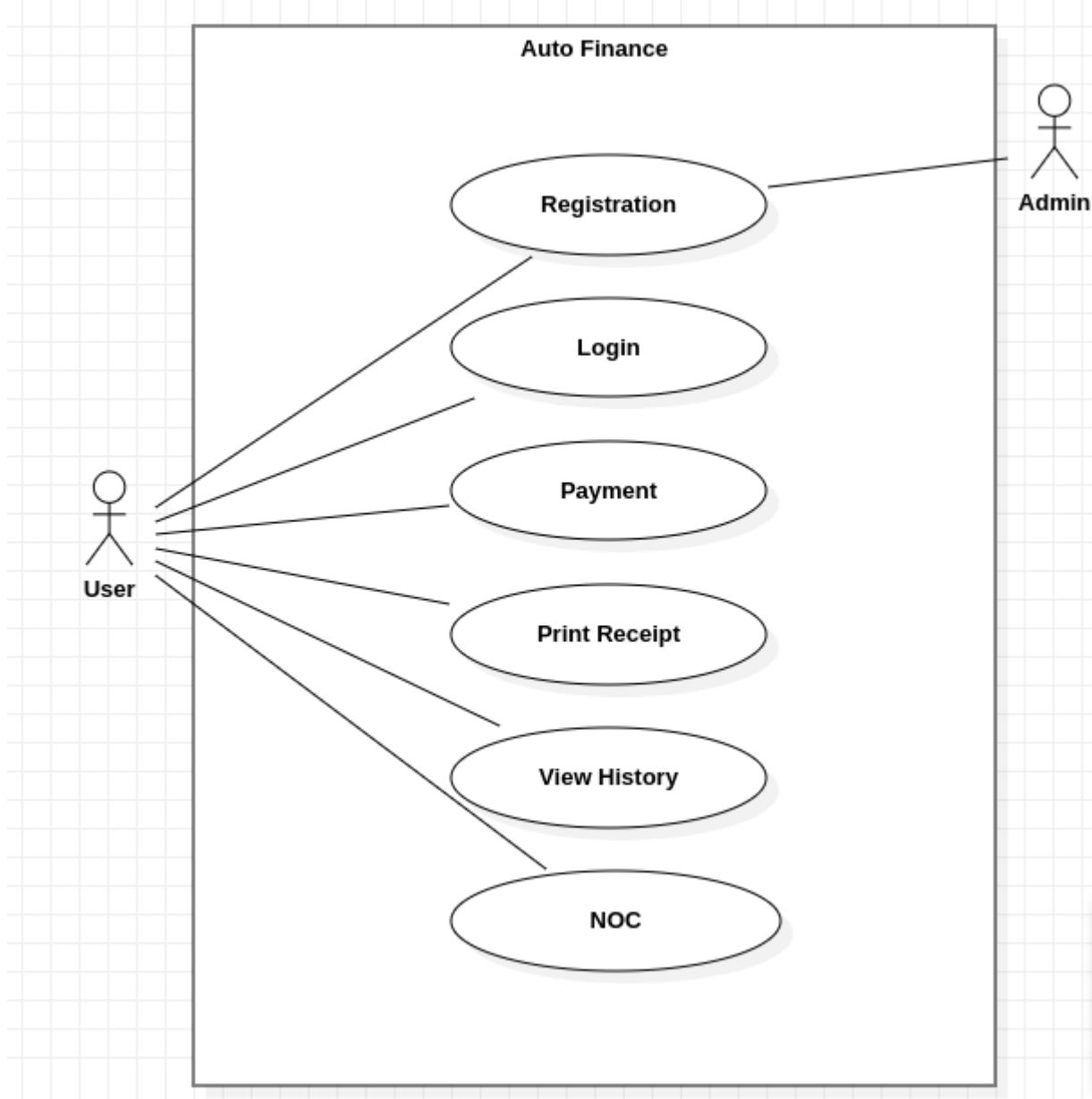


Fig 7.1.2- Use Case Diagram for User

7.2 Class Diagram

Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application.

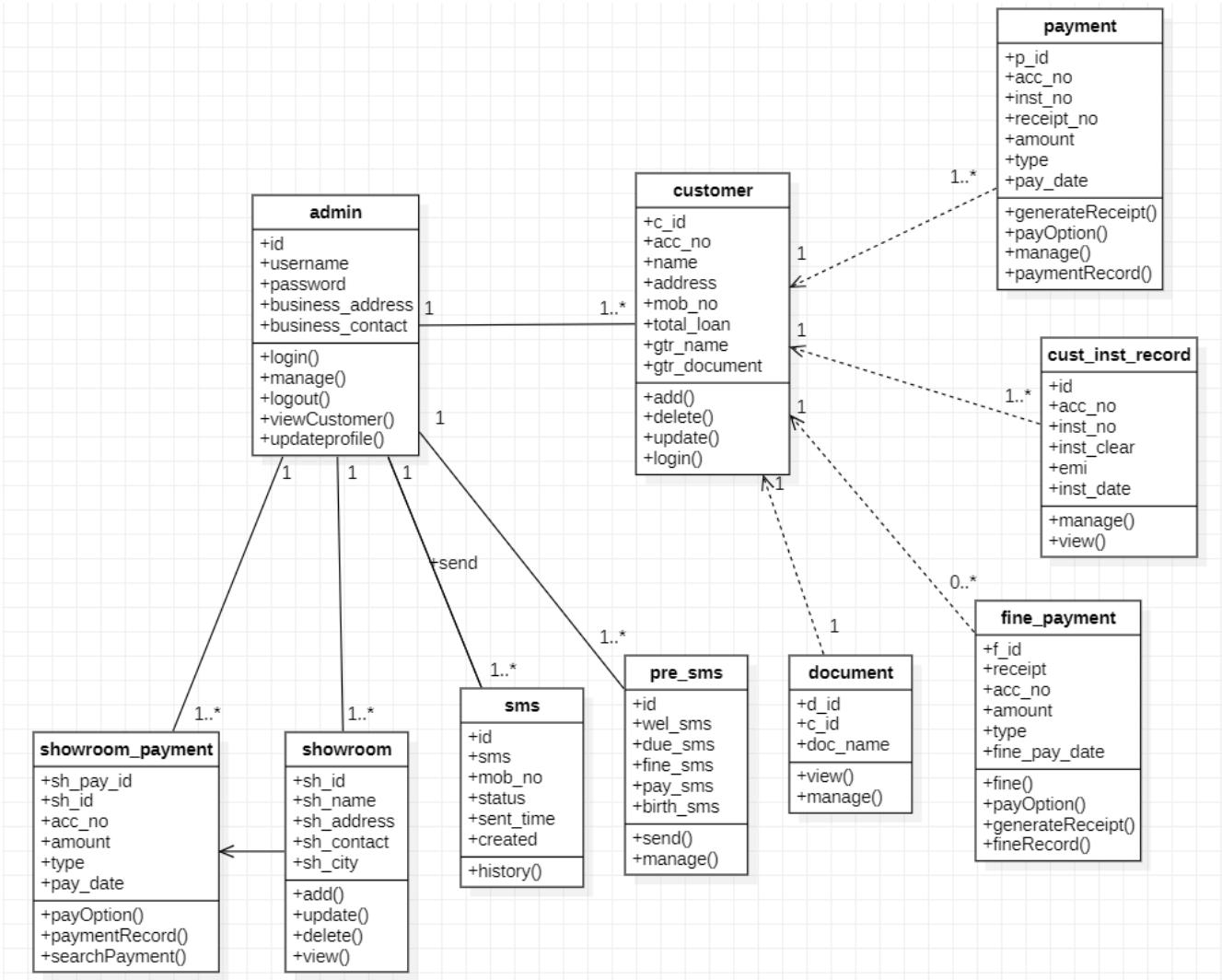


Fig 7.2- Class Diagram

7.3 Activity Diagram

Activity diagram is defined as a UML diagram that focuses on the execution and flow of the behavior of a system instead of implementation. It is also called object-oriented flowchart. Activity diagrams consist of activities that are made up of actions which apply to behavioral modeling technology.

Activity Diagram for User Side:

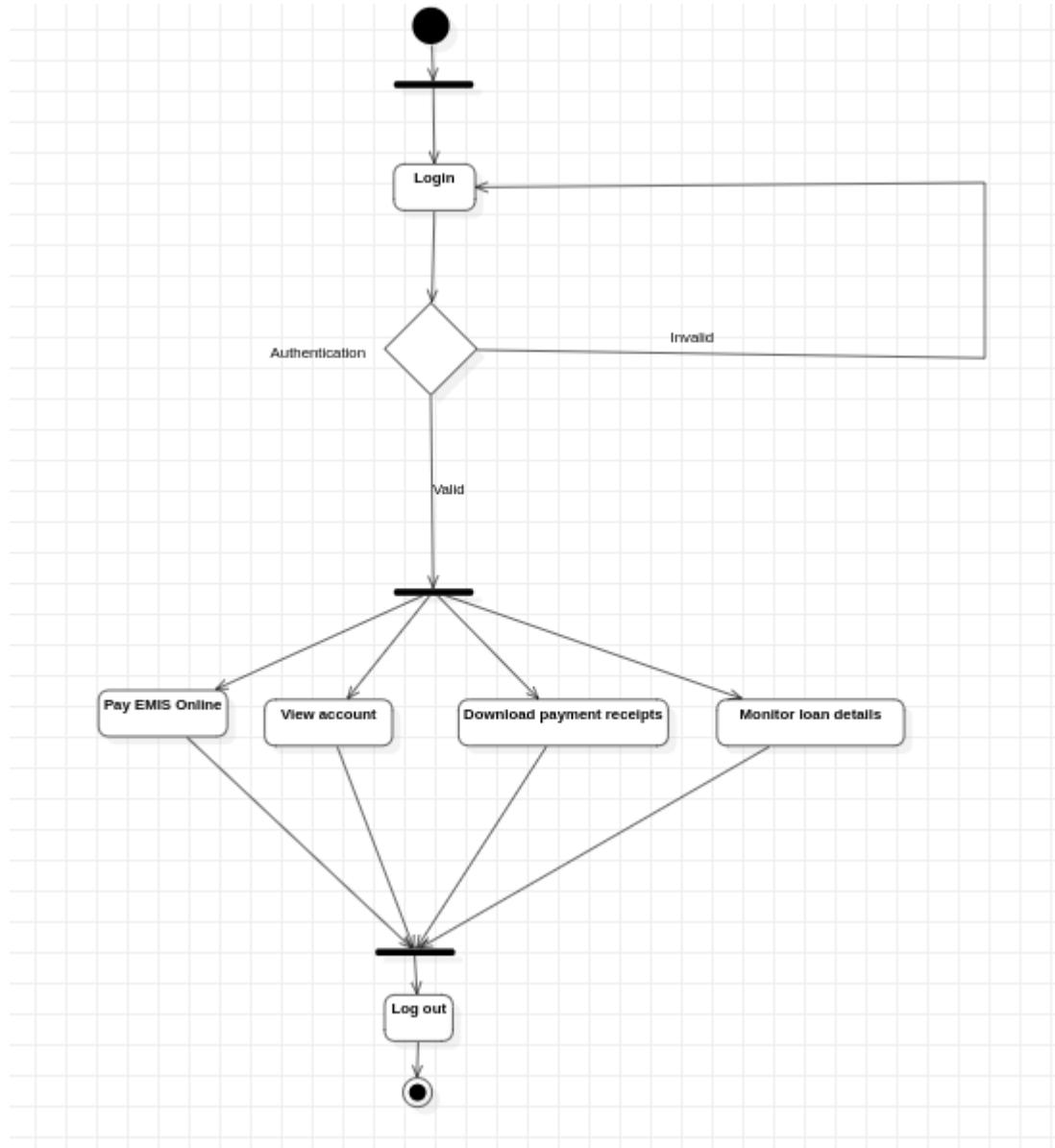


Fig 7.3.1- Activity Diagram for User

Activity Diagram for Admin Side:

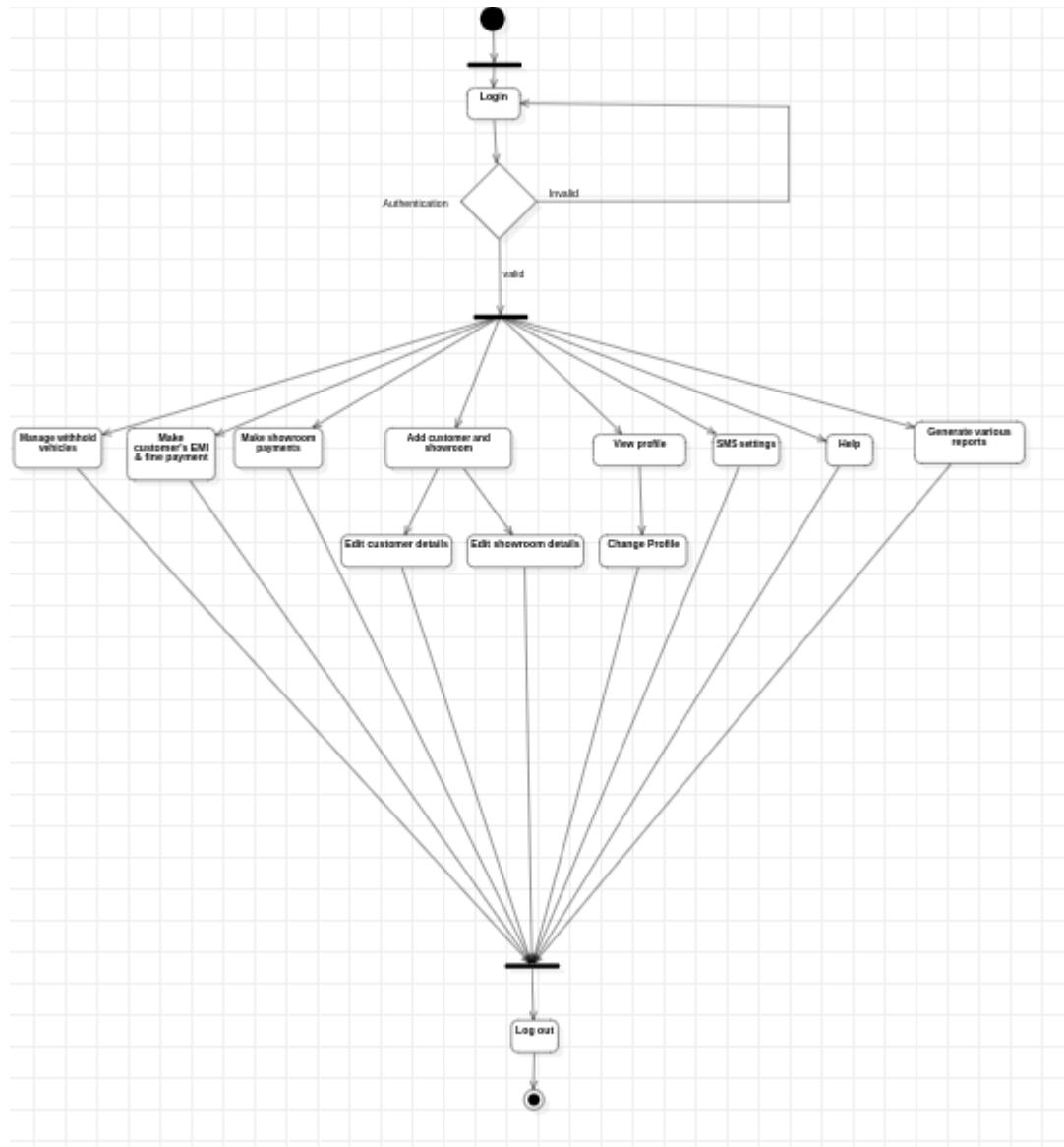


Fig 7.3.2- Activity Diagram for Admin

7.4 Sequence Diagram

A sequence diagram simply depicts interaction between objects in a sequential order i.e. the order in which these interactions take place. We can also use the terms event diagrams or event scenarios to refer to a sequence diagram. Sequence diagrams describe how and in what order the objects in a system function.

Admin Sequence Diagram: -

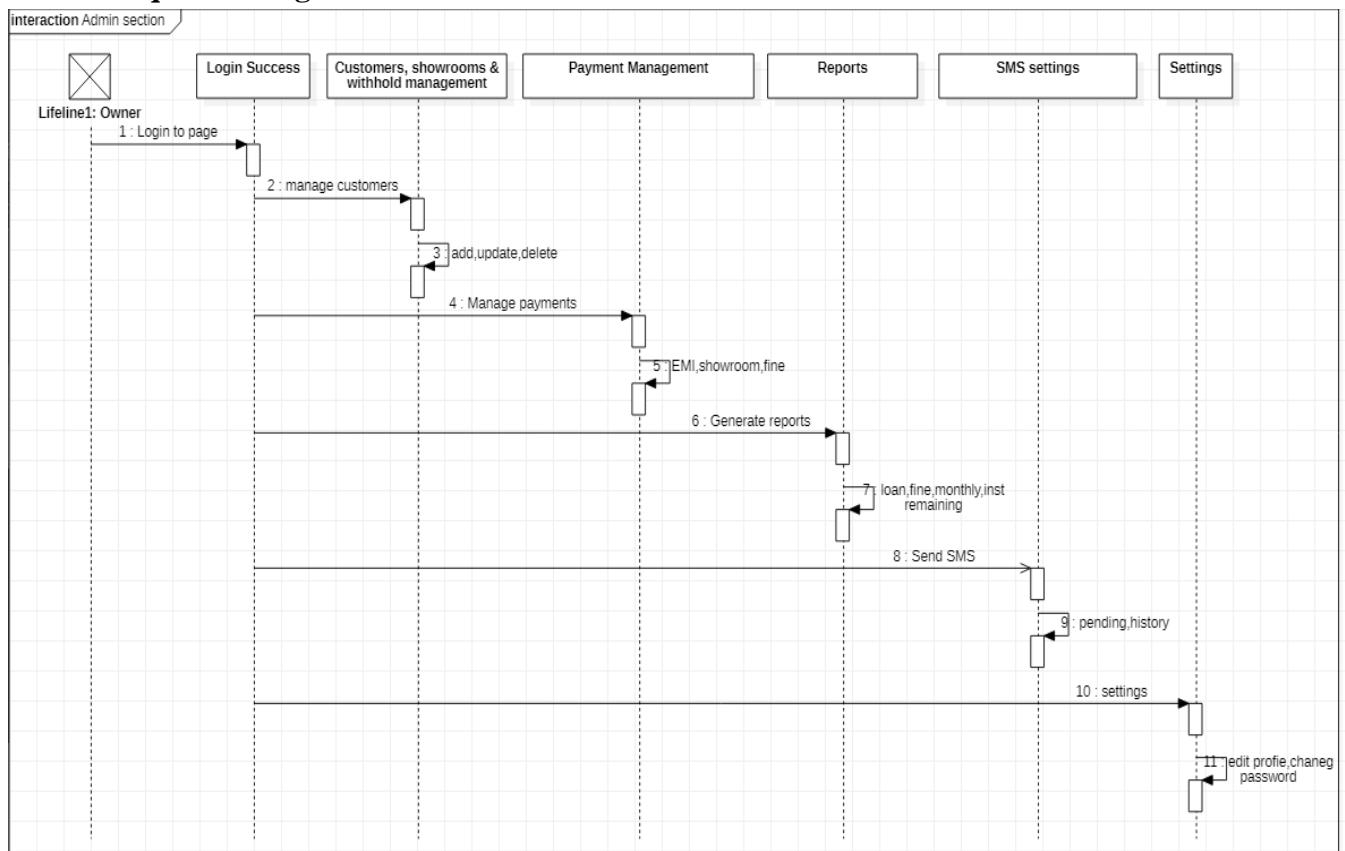


Fig 7.4.1- Sequence Diagram for Admin

Customer Sequence Diagram: -

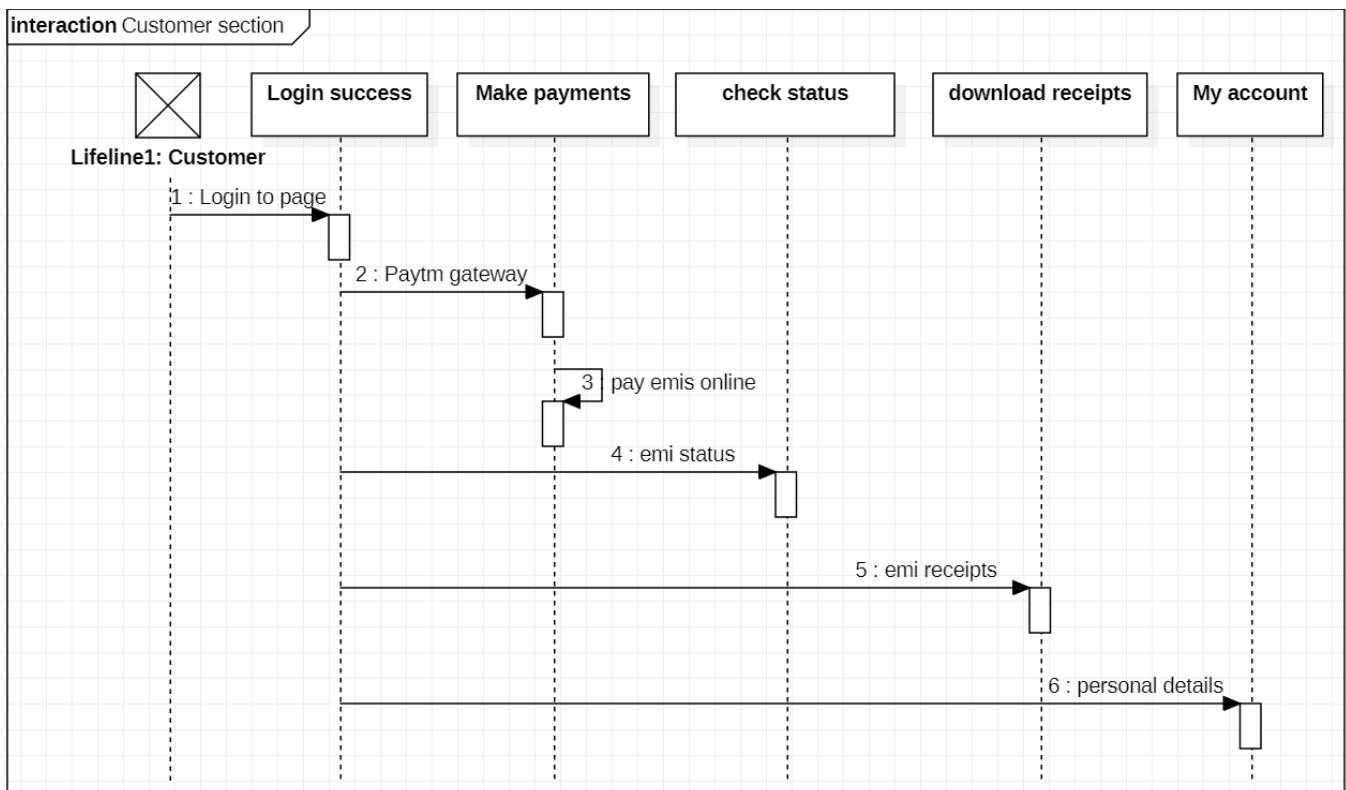


Fig 7.4.2- Sequence Diagram for Customer

7.5 DFD Diagram

A Data Flow Diagram (DFD) is a graphical representation that depicts the information flow and the transforms that are applied as data moves from input to output.

DFD Level-0 Diagram:

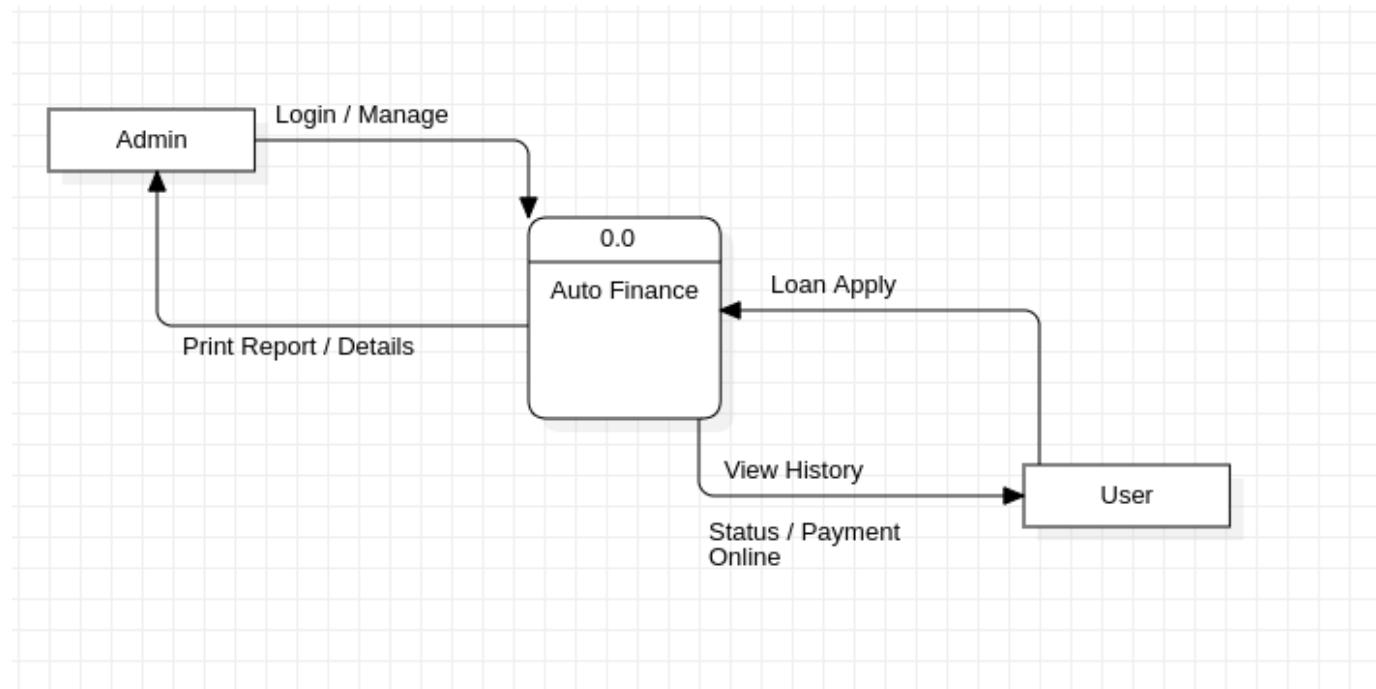


Fig 7.5.1- DFD level-0 diagram

DFD Level-1 User side:

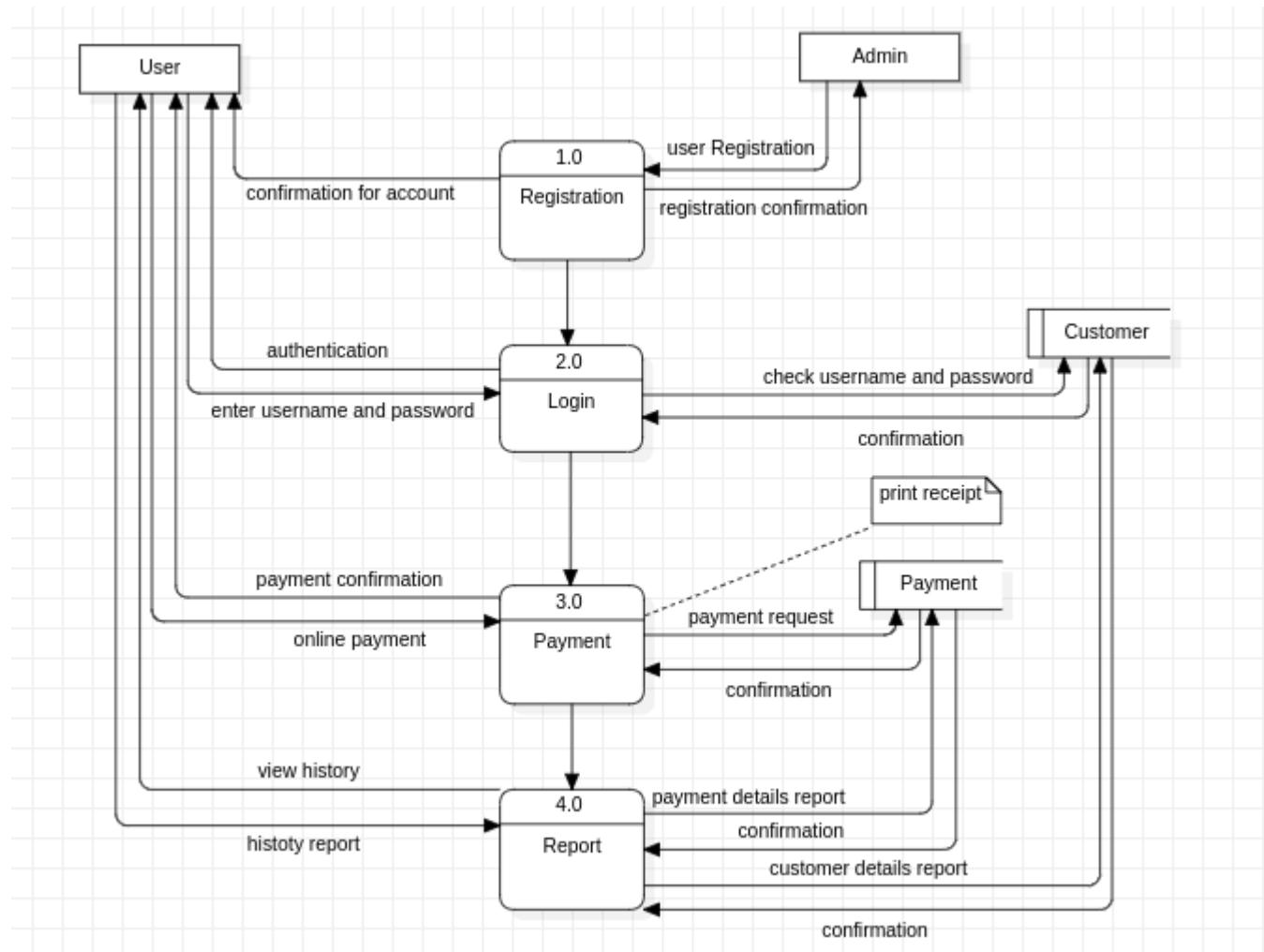


Fig 7.5.2- User DFD level-1 diagram

DFD Level-1 Admin side:

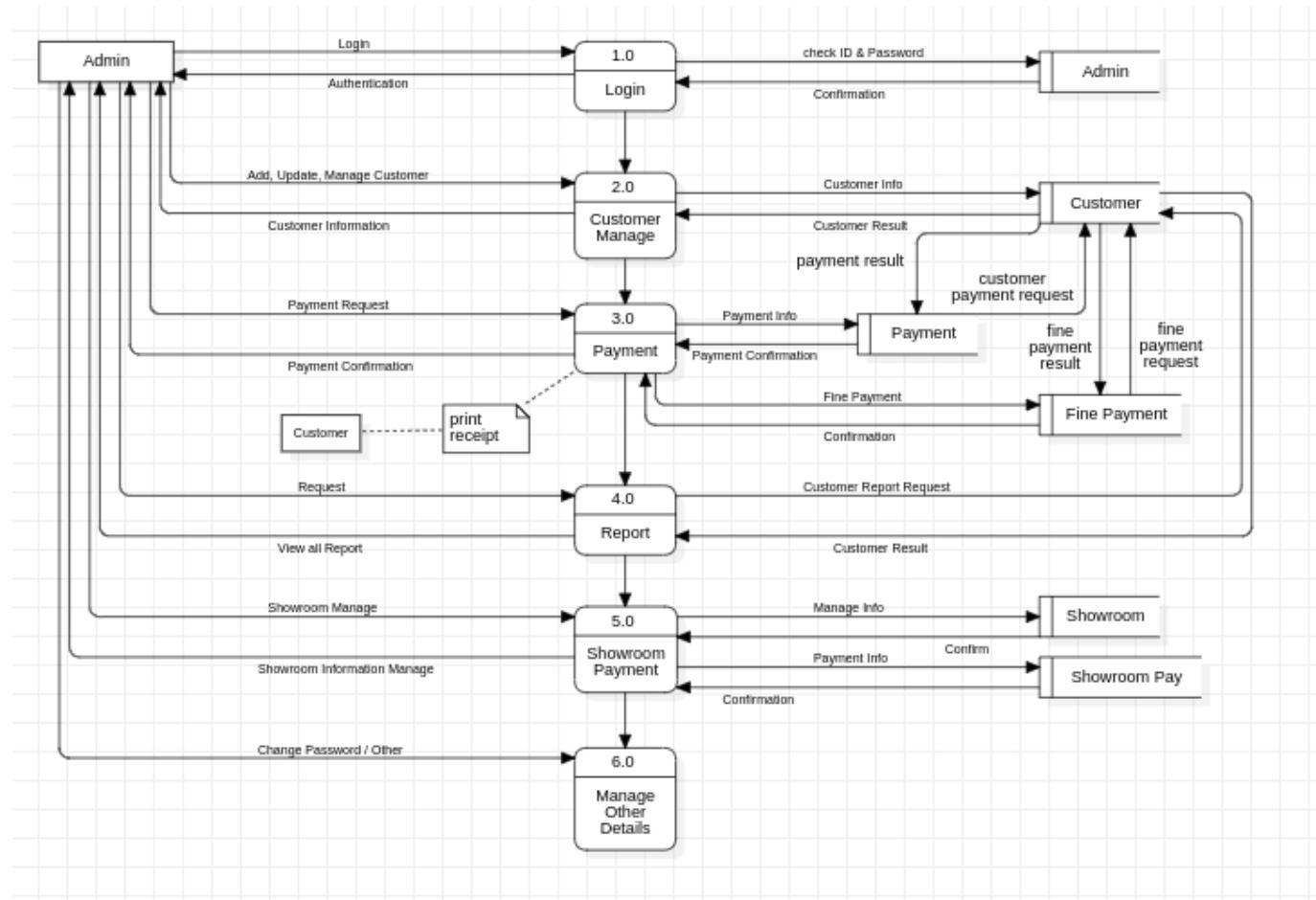


Fig 7.5.3- Admin DFD level-1 diagram

7.6 ER Diagram

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system.

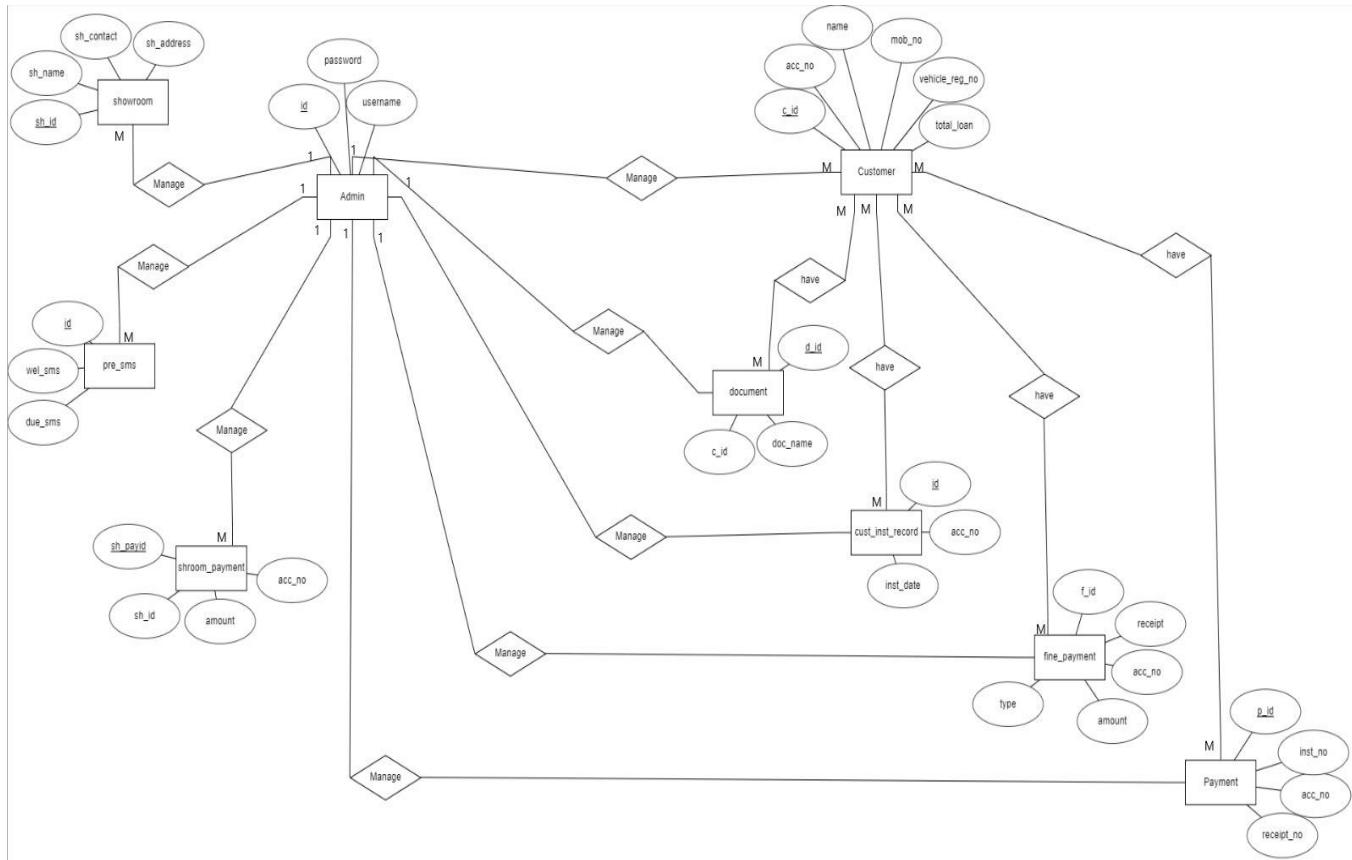


Fig 7.6- ER diagram

7.7 Data Dictionary:

Table Name: Admin

Primary Key: id

Description: To store admin login information

Table - 7.7.1-Admin data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	id	Int	2	Primary Key	To store unique id of admin
2	username	Varchar	255	Not Null	To store username of each admin
3	password	Varchar	255	Not Null	To store password of admin
4	business_name	Varchar	255	Not Null	To store business name of admin
5	business_address	Varchar	255	Not Null	To store business address of admin
6	business_contact	Varchar	255	Not Null	To store business contacts of admin
7	pincode	Varchar	6	Not Null	To store business pincode
8	logo	Varchar	255	Null	To store business logo
9	benef_name	Varchar	255	Null	To store beneficiary name
10	benef_acc	Varchar	255	Null	To store beneficiary account number
11	benef_ifsc	Varchar	255	Null	To store beneficiary IFSC number
12	sign	Varchar	255	Not Null	To store digital signature
13	branch	Varchar	255	Not Null	To store branch name of business
14	m_id	Varchar	255	Not Null	To store merchant id of paytm
15	m_key	Varchar	255	Not Null	To store merchant key of paytm

Table Name: Customer Installment record

Primary Key: id

Description: To keep customer installment records

Table - 7.7.2-Customer installment data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	id	Int	5	Primary Key	To store unique id of record
2	acc_no	Int	5	Foreign Key	To store account number of customer
3	inst_no	Int	2	Not Null	To store installment number
4	inst_clear	ENUM	'No','Yes'	Not Null	To store status of installment whether installment is clear or not
5	emi	Float	10,2	Not Null	To store emi number
6	inst_date	Date	10	Not Null	To store installment date

Table Name: Documents

Primary Key: d_id

Description: To store all documents of customer

Table - 7.7.3-Documents data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	d_id	Int	5	Primary Key	To store unique document id for each document
2	c_id	Int	5	Foreign Key	To store customer id
3	doc_name	Varchar	255	Not Null	To store documents name

Table Name: Payment

Primary Key: p_id

Description: To store payments of customer

Table - 7.7.4-Payment data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	p_id	Int	5	Primary Key	To store unique payment id for each payment
2	receipt_no	Int	5	Not Null	To store receipt number of payment
3	acc_no	Int	5	Foreign Key	To store account number of customer
4	inst_no	Int	2	Not Null	To store installment number of customer
5	amount	Float	10,2	Not Null	To store total amount of payment
6	type	ENUM	'Cash','Cheque','Online'	Not Null	To store payment type
7	cheque_no	Int	10	Null	To store cheque number
8	cheque_date	Date	10	Null	To store cheque date
9	emi_date	Date	10	Not Null	To store EMI date
10	pay_date	Date	10	Not Null	To store successful payment date
11	fine	Int	5	Null	To store fine charge of delayed installment
12	inst_clr	ENUM	'No','Yes'	Not Null	To store status of installment
13	emi_capital	Float	10,2	Not Null	To store EMI capital
14	emi_interest	Float	10,2	Not Null	To store EMI interest

Table Name: Fine Payment

Primary Key: f_id

Description: To store all fine payments of customer

Table - 7.7.5-Fine payment data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	f_id	Int	5	Primary Key	To store unique id for fine
2	receipt	Int	5	Not Null	To store receipt number of fine payment
3	acc_no	Int	5	Foreign Key	To store account number of customer
4	amount	Float	10,2	Not Null	To store total fine amount of payment
5	type	ENUM	'cash','cheque','online'	Not Null	To store payment type
6	cheque_no	Int	10	Null	To store cheque number if payment is done by cheque
7	cheque_date	Date	10	Null	To store cheque date if payment is done by cheque
8	fine_pay_date	Date	10	Not Null	To store fine payment date

Table Name: SMS

Primary Key: id

Description: To store all SMS details

Table - 7.7.6-SMS data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	id	Int	5	Primary Key	To store unique id for each SMS
2	sms	Text	-	Not Null	To store custom message

3	mob_no	Varchar	10	Not Null	To store mobile number
4	status	ENUM	'No','Yes'	Not Null	To store status of messages
5	sent_time	Datetime	19	Null	To store sent time of messages
6	created	Datetime	19	Not Null	To store message creation time

Table Name: Prefix SMS

Primary Key: id

Description: To store all prefix SMS details

Table - 7.7.7-Prefix SMS data dictionary

Sr.no	Field	Data type	Length	Constraint	Description
1	id	Int	3	Primary Key	To store unique id for each SMS
2	wel_sms	Varchar	255	Not Null	To store Welcome SMS
3	due_sms	Varchar	255	Not Null	To store due payment SMS
4	fine_sms	Varchar	255	Not Null	To store fine related SMS
5	pay_sms	Varchar	255	Not Null	To store payment SMS
6	birth_sms	Varchar	255	Not Null	To store birthdate wishes SMS
7	wel_sent	ENUM	'No','Yes'	Not Null	To store selection of message
8	due_sent	ENUM	'No','Yes'	Not Null	To store selection of message
9	fine_sent	ENUM	'No','Yes'	Not Null	To store selection of message
10	pay_sent	ENUM	'No','Yes'	Not Null	To store selection of message
11	birth_sent	ENUM	'No','Yes'	Not Null	To store selection of message

Table Name: Customer

Primary key: c_id

Description: to store details of customer

Table - 7.7.8-Customer data dictionary

Sr_no	Field	Data type	Length	Constraint	Description
1	c_id	Int	5	Primary key	To store unique id of customer
2	acc_no	Int	5	Not Null	To store account number of customer
3	name	Varchar	255	Not Null	To store name of customer
4	address	Varchar	255	Not Null	To store address of customer
5	mob_no	Varchar	10	Not Null	To store mobile number of customers
6	loan_amount	Int	5	Not Null	To store loan amount of customer
7	loan_month	Int	2	Not Null	To store starting month of loan
8	loan_rate	Float	2,2	Not Null	To store interest rate of loan
9	emi	Float	10,2	Not Null	To store emi amount per month
10	file_charge	Float	5,2	Not Null	To store rate of file charge
11	fine	Int	5	Null	To store fine amount
12	total_loan	Float	10,2	Not Null	To store loan amount with interest
13	loan_date	Date	-	Not Null	To store loan date of loan
14	first_emi_date	Date	-	Not Null	To store first emi date of loan
15	vehicle_reg_no	Varchar	255	Not Null	To store vehicle's register number
16	chassis_no	Varchar	255	Not Null	To store vehicle's chassis number
17	engine_no	Varchar	255	Not Null	To store vehicle's engine number
18	model	Varchar	255	Not Null	To store vehicle's model number
19	other	Text	-	Null	To store any remarks or notes
20	gtr_name	varchar	255	Not Null	To store name of guarantor
21	gtr_address	Varchar	255	Not Null	To store address of guarantor

22	gtr_contact	Varchar	10	Not Null	To store contact details of guarantor
23	gtr_document	Varchar	255	Not Null	To store documents of guarantor
24	loan_clear	ENUM	'No','Yes'	Not Null	To store status of loan
25	city	Varchar	255	Not Null	To store city name
26	district	varchar	255	Not Null	To store district name
27	wh_back	ENUM	'No','Yes'	Not Null	To store status of withhold vehicle
28	birthday	Date	10	Null	To store birth date of customer
29	pincode	Int	6	Not Null	To store pin code of customer's city
30	vehicle_amount	Int	10	Not Null	To store amount of vehicle
31	downpayment	Int	10	Not Null	To store amount of down payment
32	Advance_emi	Int	10	Not Null	To store amount of advance emi
33	down_payment	ENUM	'No','Yes'	Not Null	To store status of down payment
34	active	ENUM	'No','Yes'	Not Null	To store status of customer

Table Name: Showroom

Primary key: sh_id

Description: To store details of different showrooms.

Table - 7.7.9-Showroom data dictionary

Sr_no	Field	Type	Length	Constraint	Description
1	sh_id	Int	3	Primary Key	To store unique id of showroom
2	sh_name	Varchar	255	Not Null	To store name of showroom
3	sh_address	Varchar	255	Not Null	To store address of showroom
4	sh_city	Varchar	11	Not Null	To store city name of showroom
5	sh_contact	Varchar	10	Not Null	To store contact details of showroom
6	sh_pincode	Int	6	Not Null	To store city's pin code.

Table Name: Showroom Payment

Primary key: sh_payid

Description: To store details of showroom payments.

Table - 7.7.10-Showroom data dictionary

Sr_no	Field	Type	Length	Constraint	Description
1	sh_payid	Int	5	Primary key	To store unique payment id of showroom
2	sh_id	Int	3	Foreign key	To store unique id of showroom
3	acc_no	Int	5	Foreign key	To store account number of customer
4	amount	Float	10,2	Not Null	To store paid amount
5	type	ENUM	'cash', 'cheque', 'online'	Not Null	To store type of payment
6	cheque_no	Int	10	Null	To store cheque number
7	cheque_date	Date	10	Null	To store date of cheque
8	pay_date	Date	10	Not Null	To store payment date
9	other	Text	-	Null	To store remarks or notes

Table Name: Temporary

Primary key: orderid

Description: To store details of showroom payments.

Table - 7.7.11-Temporary data dictionary

Sr_no	Field	Type	Length	Constraint	Description
1	orderid	Int	11	Primary Key	To store unique id of order
2	acc_no	Int	5	Not Null	To store account number of payment user
3	inst_no	Int	5	Not Null	To store installment number of user
4	status	ENUM	'Pending', 'Success'	Not Null	To store status of payment

CHAPTER 8: TESTING

Testing process starts with the Test Plan, which describes the complete framework for carrying out the testing of the entire application. It is practically not possible to assess the quality of an application without having a good test plan. Testing strategies for this project [2]:

Unit Testing

- Unit Testing involves testing individual components of the system to see if they are functioning properly.
- When a program tested all error conditions were checked to see if they are handled properly. Breaking the program down to self-contained portion each of which can be checked at certain key points, faculties the process.
- In this testing individual components and modules are tested to ensure that they operate correctly. We had tested each and every module such as Setting, Login, Payment etc. For this we have checked the database for particular entry for validation.
- The key fields for each entry are checked to avoided duplication and relevant data are modified when required.

Integration Testing

- Program are invariable related to one and interact in total system. Each program is tested to see whether is confirms to the related program in the system. Each portion is tested against the entire module with both test and live data before entire system is ready to be implemented.
- The global variable was tested such that the hold data related to current module.

Validation Testing

- Validation testing can define in many ways, but a simple definition is that validation succeeds when software functions in a manner that can be reasonably expected by the customer. After each validation test case has been conducted, one of two possible conditions exists:
 - The function or performance conform to a specification and are accepted.
 - A deviation from specification is uncovered and a deficiency list is created.

System Testing

- System testing is a critical process that can take as much as 50% of the system development time. The common view of testing held by users is that it is performed to prove that there are no errors in a program. However, as indicated earlier, this is virtually impossible, since the analyst cannot prove that system is free and clear of errors.
- Therefore, the most useful and practical approach is with the understanding that testing is the process of executing a program with the explicit intention of finding errors that is, making the program fail. The tester, who may be an analyst, a programmer, or a specialist trained in software testing, is actually trying to make a program fail. A successful test, then, is one that finds an error.
- System testing is designed to uncover weakness that were found in the earlier test. This includes forced system failure and its user in original environment will implant validation of total system as such.

- The total is also tested for recovery and fallback after various major failures to ensure that no data is lost during the emergency. On the basis of methodology described above I have created a table of test cases, for all the functionality of the system.

User Login:

Table - 8.1- User Login test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	This page contains 2 fields: user account number and phone number and a login button to submit the information. User is entering correct information.	Account No., Phone No.	User home page should open after successful login.	Respective user's home page is opened after successful login by the user.	Passed
2	If either the user account number or phone number is filled incorrectly or left blank.	Account No., Phone No.	An error message should be displayed and the user should be asked to fill the info. again.	When wrong information is entered by the user then an error message is displayed.	Passed

Admin Login:

Table - 8.2- Admin Login test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	This page contains 2 fields: username and password and a login button to submit the information. Admin is entering correct information.	Username , Password	Dashboard page should open after successful login.	Dashboard page is opened after successful login by admin.	Passed
2	If either username or password is filled incorrectly or left blank.	Username , Password	An error message should be displayed and the user should be asked to fill again.	When wrong information is entered by the user then an error message is displayed.	Passed

Add Customer:

Table - 8.3- Add Customer test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	Leaving the any field empty except guarantor section (Optional Section) and an hit enter directly.	all fields	It will show an error message in all required fields.	An error message is displayed 'Please fill this field'.	Passed
2	If Data entered are correct.	all fields	Display a message for successful operation.	An 'Data inserted successfully' message is displayed in green color.	Passed
3	If entered, the mobile number is less than or greater than 10 digits.	Phone No	Ask the user to enter the correct phone number.	An error message is displayed, if digits are less than or greater than 10 digits.	Passed
4	Admin is allowed to enter an account number of own choice to any user but if it already exists in the database.	Account No.	Ask the admin to enter another account number.	By default, account number is displayed which is not in the database but when admin entered the same account number then acc. no. field got cleared and displayed error message in red color.	Passed
5	Entering more than 6 digits for pin code.	Pincode	An error message should be displayed	An error message is displayed 'Enter valid pin code'.	Passed

Add Showroom:*Table - 8.4- Add Showroom test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	Leaving the any field empty.	All	Error message should be displayed.	One error message is opened 'Please fill required field'.	Passed
2	If entered, the mobile number is less than or greater than 10 digits.	Phone No	Ask the user to enter the correct phone number.	An error message is displayed, if digits are less than or greater than 10 digits.	Passed

Withhold Section:*Table - 8.5- withhold test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	Account No	Error message should be displayed.	One error message is opened.	Passed
2	If entered, the account no. already has taken withhold vehicle.	Account No	Tell admin that vehicle is already withhold.	An error message is displayed in red color 'vehicle already withhold'.	Passed
3	If entered, the account no. has taken not withhold vehicle.	Account No	Add vehicle on withhold status.	A message is displayed in green color 'vehicle is withhold'.	Passed

Customer Payment (Offline):

*Table - 8.6- Customer Payment(*offline*) test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	Account No	Error message should be displayed.	One error message is opened.	Passed
2	Try to change EMI amount	EMI amount	User is not allowed to change value of EMI amount.	EMI is calculated based on capital and interest and it is read-only value.	Passed
3	If payment type is in cash.	Payment Type	Do not pass cheque details in database.	NULL valued is displayed in cheque details	Passed
4	If payment type is in cheque.	Payment Type	Pass cheque details into database.	Cheque number and cheque date is inserted in database.	Passed
5	If Loan clear status is ‘Yes’.	Loan clear	One message should display to inform user.	‘Loan is clear’ message is displayed in green color.	Passed
6	If vehicle is withhold.	Withhold	One message should display to inform user.	‘Withhold vehicle’ message is displayed in green color.	Passed

Payment Report:

Table – 8.7- Payment report test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	From, To	Error message should be displayed.	One error message is opened.	Passed
2	If entered, two dates are correct	From, To	Reports should generate.	Reports are generated.	Passed

Showroom Payment:*Table – 8.8- Showroom Payment test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	From, To	Error message should be displayed.	One error message is opened.	Passed
2	Select customer according to showroom	Showroom, Customer	Only Customers should display for this particular showroom.	Only able to select those customers for selected showroom.	Passed
3	If payment type is in cash.	Payment Type	Do not pass cheque details in database.	NULL valued is displayed in cheque details	Passed
4	If payment type is in cheque.	Payment Type	Pass cheque details into database.	Cheque number and cheque date is inserted in database.	Passed

Reprint Receipt:*Table – 8.9- Reprint Receipt test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	From, To	Error message should be displayed.	One error message is opened.	Passed
2	If entered, information is correct	From, To, Account No	Receipts should generate for given two dates and account no.	Receipts are generated to print.	Passed

Fine Payment:*Table – 8.10- Fine Payment test case*

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is left somewhere blank.	Account No	Error message should be displayed.	One error message is showed.	Passed
2	If entered, information is correct	From, To, Account No	Receipts should generate for given two dates and account no.	Receipts are generated to print.	Passed
3	If payment type is in cash.	Payment Type	Do not pass cheque details in database.	NULL valued is displayed in cheque details	Passed
4	If payment type is in cheque.	Payment Type	Pass cheque details into database.	Cheque number and cheque date is inserted in database.	Passed
5	If Loan clear status is 'Yes'.	Loan clear	One message should display to inform user.	'Loan is clear' message is displayed in green color.	Passed
6	If vehicle is withhold.	Withhold	One message should display to inform user.	'Withhold vehicle' message is displayed in green color.	Passed

Installment Remaining:

Table – 8.11- Installment Remaining test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	Installment No	Error message should be displayed.	One error message is showed.	Passed
2	If correct installments are entered.	Installment No	Display details of installment remaining users	Showed user details, who have remaining installments for entered no.	Passed

Loan Complete:

Table – 8.12- Loan Complete test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	Account No	Error message should be displayed.	One error message is opened.	Passed
2	If entered, the account no. already has completed loan.	Account No	Tell admin that loan of vehicle is completed.	Displayed loan completed users.	Passed

Fine Payment Report:

Table – 8.13- Fine Payment report test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	From, To	Error message should be displayed.	One error message is opened.	Passed
2	If entered, two dates are correct	From, To	Reports should generate between two dates.	Reports are generated for two dates to print.	Passed

Change Password:

Table – 8.14- Change Password test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is left somewhere blank.	Old Password, New Password, Confirm Password	Error message should be displayed.	One error message is displayed ‘Please enter required field’.	Passed
2	If entered, Old Password is wrong.	Old Password	Error message should be displayed.	Error message is displayed in red color ‘Old Password is wrong’.	Passed

3	If entered, Old Password is right.	Old Password	Show Old password is right.	Message is showed in green color ‘Old Password is Correct’.	Passed
4	If new Password and confirm password are not similar.	New Password, Confirm Password	An error message should display.	Message is displayed ‘Old and new password are not same’ and borders of both fields converted into red color.	Passed
5	If new Password and confirm password are same.	New Password, Confirm Password	Password should get successfully change.	Borders of both fields converted into green color and password is changed.	Passed

Edit Profile:

Table - 8.15- Edit Profile test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	This page contains 11 and an update button to submit the information. User is entering correct information.	All	User update profile page should display successfully message.	Successfully message is displayed.	Passed
2	If any field left blank and click on update button.	All	An error message should be displayed and user should be asked fill the information again.	When information is not entered by user then an error message is displayed.	Passed

Customer Payment (Online):

Table - 8.16- Customer Payment (Online) test case

Sr.no No.	Test case description	Test Data	Expected Output	Actual Output	Status
1	If the information entered by user is incorrect or left somewhere blank.	Name, Phone No., Amount, Email id	Error message should be displayed.	One error message is displayed.	Passed
2	Try to change EMI amount	EMI amount	User should not allow to change value of EMI amount.	EMI is calculated based on capital and interest and it is read-only value.	Passed
3	If Loan clear status is 'Yes'.	Loan clear	One message should display to inform user.	'Loan is clear' message is displayed in green color.	Passed
4	If vehicle is withhold.	Withhold	One message should display to inform user.	'Withhold vehicle' message is displayed in green color.	Passed

CHAPTER 9: IMPLEMENTATION SCREENSHOTS

Home Page:

First Page of application. User have to select option according to role.

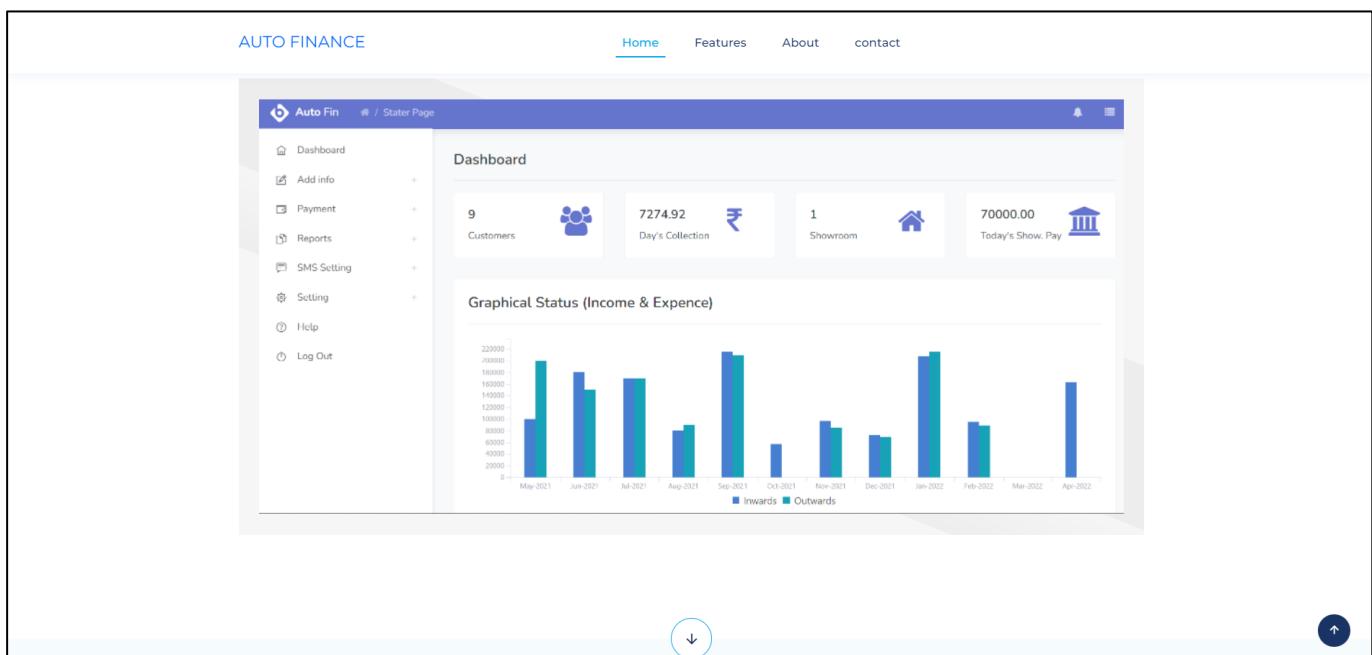
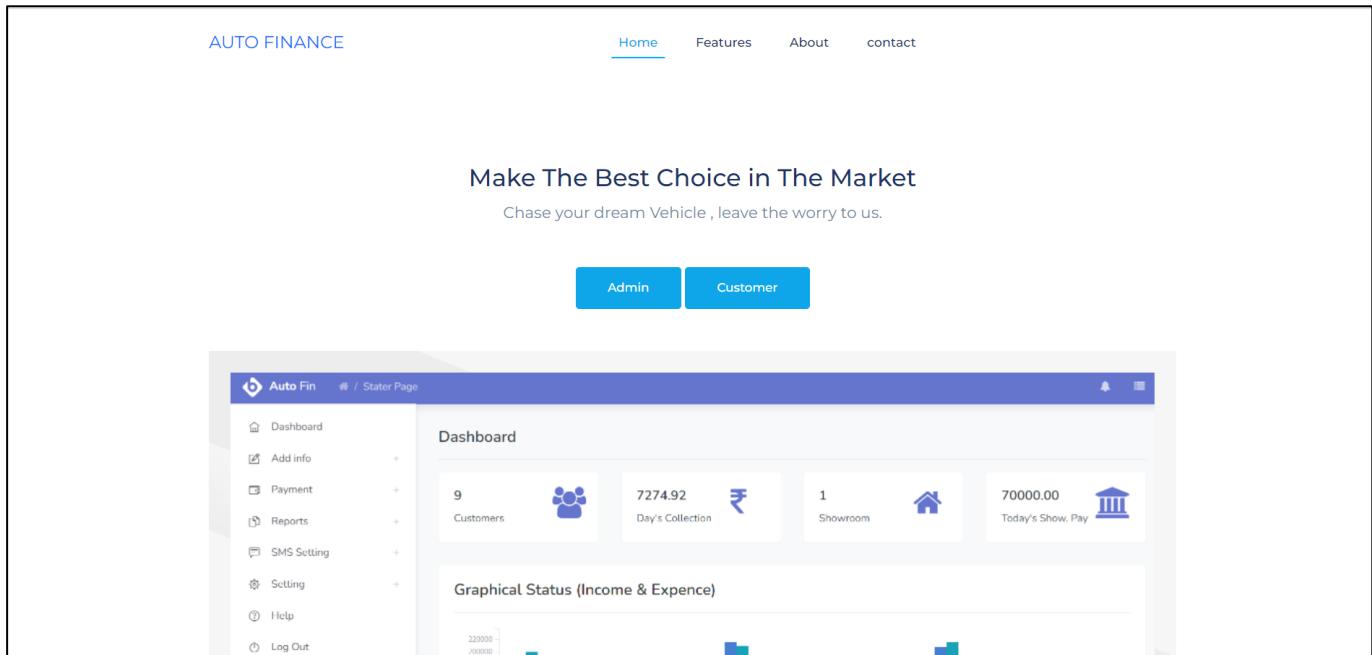


Fig 9.1- Home page

Features Section on first page:

AUTO FINANCE

Home Features About contact

Features

A feature is a distinctive trait or a special attraction in our project. We have implemented many features to make our project enhanced and had a wonderful experience to use.

 **Responsive Layout**
No matter how large or small, mobile or desktop. Responsive web design makes our web page look good on all devices.

 **Great Experience**
With us you can get best deals. You can check the details anytime from anywhere and it's easy for you access to the site too.

 **Customer Loan**
A consumer loan is a loan given to consumers to finance specific types of expenditures. This may be any type of loan made to a consumer by a creditor.

 **Unique Design**
The site is dynamic and designed as the client and admin wants and works very friendly to both of the users.

 **Online Pay Installment**
Simply follow few steps and there you are stress-free of your monthly EMI payments.

 **Installment Report**
Date wise Show Pay Installment Details and Print for every Month Wise Pay Installment for Customer Loan and Personal Loan.

↑

AUTO FINANCE

Home Features About contact

Modern & Powerful Interface

In an ideal world this website wouldn't exist, a client would acknowledge the importance design starts.



DYNAMIC GROWTH.
It's Everything You'll Ever Need.
We provide one of the best and fastest as well as fully developed software to make the processing time as short as possible and to save time of our clients.

[Know More](#)

↑

AUTO FINANCE

Home Features About contact

ABOUT U.S.

We're knowledgeable about making benefits higher.

We have started this to solve the problem of managing finances which was a bit difficult to do on a pen paper , so we have created this project to solve this problem and we have developed auto finance for multiple vehicles emi as well as loan management.

[Know More](#)



AUTO FINANCE

Home Features About contact



100% TRUSTED PLATFORM.

Easy Way to Manage your Finance

We here work 24/7 you have full support of our helpdesk and are available to hear you and transfer the problems and bugs which are headache for our clients to the developers team as well as the admin.

[Know More](#)



Fig 9.2- Features Section

Contact Us Section on home page:

If any user has issue, then he/she can simply ask help by using this ‘Contact Us’ section.

The screenshot shows the 'Contact Us' section of a website. At the top, there is a navigation bar with links for Home, Features, About, and contact (which is underlined). Below the navigation bar, the title 'Contact Us' is displayed in a blue rounded rectangle. A sub-instruction 'You can Contact Us through any digital platform.' follows. There are four input fields: 'Enter your name*' with a person icon, 'Enter your email*' with an envelope icon, 'Subject' with a document icon, and 'Enter your message*' with a speech bubble icon. To the right of these fields are several contact details: an email address (yagneshpansuriya78@website.com), a website URL (www.greencircletechnology.com), a phone number (+917203055891), operating hours (9:00 AM - 6:00 PM), and a physical address (12, near D-mart, Mehsana). A blue 'Send Message' button is located at the bottom left of the form area.

This screenshot shows a simplified version of the 'Contact Us' section. It features a single input field for 'Enter your message*' with a speech bubble icon. To the right of this field are the same contact details as the previous screenshot: operating hours (9:00 AM - 6:00 PM), physical address (12, near D-mart, Mehsana), and a blue 'Send Message' button. Below this section, the website's footer is visible, containing links for Auto Finance, About, Getting Started, Resources, and Social Media. It also includes a newsletter sign-up form with a placeholder 'Your Email Address' and a blue submit button, along with social media icons for Facebook, LinkedIn, Pinterest, and Twitter.

Fig 9.3- Contact Us Section

Login Page for Admin:

For Login, admin needs to enter username and password.

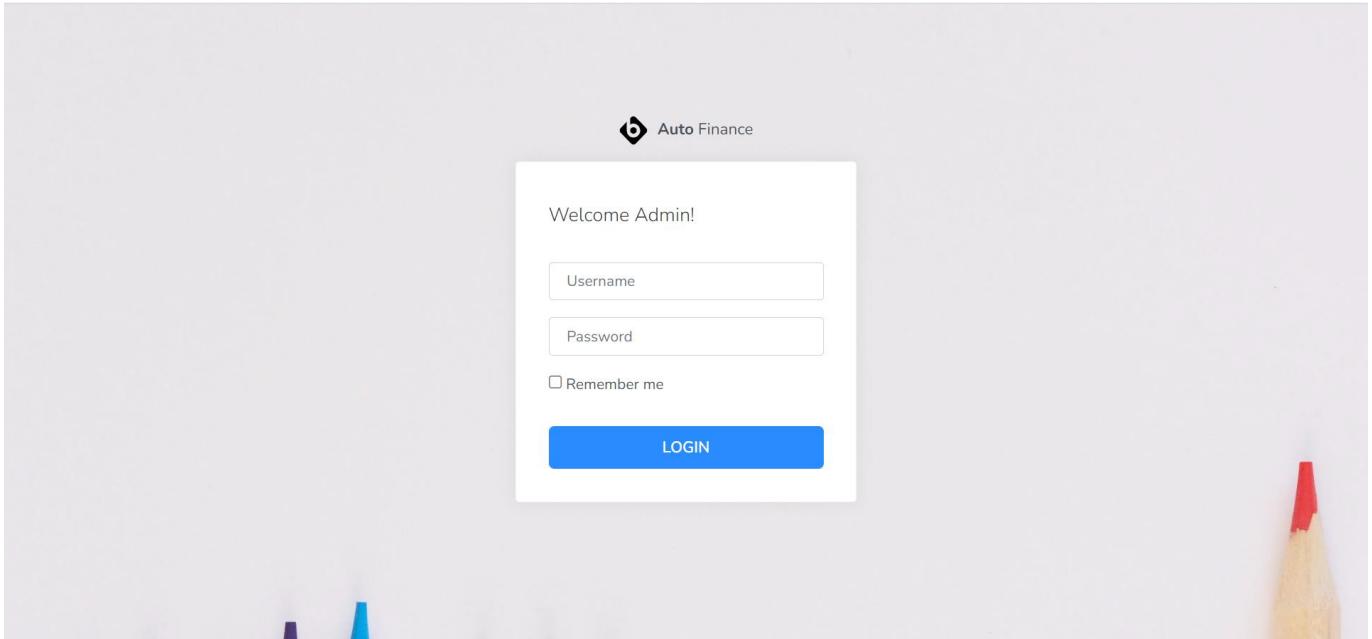
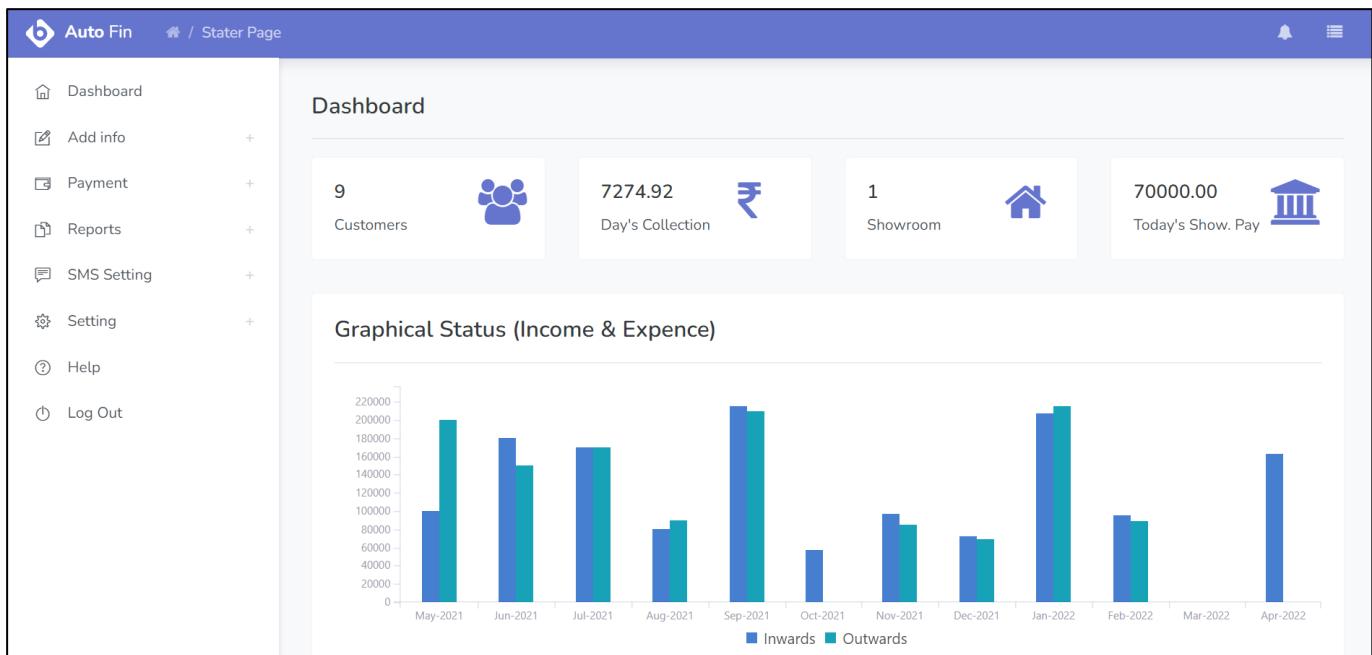


Fig 9.4- Admin Login Page

Dashboard:

After Successfully login, admin is redirected to dashboard page, where he/she can find all necessary details as well as get overview of customers.



Auto Fin / Stater Page

- Dashboard
- Add info
- Payment
- Reports
- SMS Setting
- Setting
- Help
- Log Out

Today's Customer Payment

Show 10 entries Search: 7274.92

No	Customer Name	Receipt No	Amount
1	Anjali	34	6449.00
2	Yash	1652004720	825.92

Showing 1 to 2 of 2 entries Previous 1 Next

Customer Graphical View

Completed Loan	88.9%
Pending Loan	11.1%

Today's Collection Reminder

5060.00

No	Customer Name	Account No	Amount
1	Yash	2	5060.00

Today's Showroom Payment Details

70000.00

No	Showroom	Amount
1	yagnesh showroom	70000.00

Auto Fin / Stater Page

- Dashboard
- Add info
- Payment
- Reports
- SMS Setting
- Setting
- Help
- Log Out

Due Customer List : 1 Day

#	Customer Name	Account No	Amount
1	Anjali	7	6449.33

Total Loan Given

No	Name	Amount
1	Total Loan Amount	1278100

Upcoming Collections

A/c No	SMS	Whatsapp
1	Dear, yagnesh pansuriya Your EMI No 1 with rupees 9.17 has been due on 13-06-2022. Please pay as soon as possible. Thanks	
1	Dear, yagnesh pansuriya Your EMI No 3 with rupees 9.17 has been due on 05-06-2022. Please pay as soon as possible. Thanks	
2	Dear, Yash Your EMI No 2 with rupees 5060.00 has been due on 06-06-2022. Please pay as soon as possible. Thanks	

Fig 9.5- Dashboard Page

Customer Page:

Here you can see total customers in application as well as you can add new customer. Financer can generate HP and NOC form to print.

The screenshot shows the 'Customers' section of the application. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Customers' with buttons for '+ Add Customer', 'Print', and 'Excel'. It includes a search bar and a table with columns: Acc no., Name, Date, Contact, Loan amount, and Action. The table contains 6 rows of data, each with a set of icons for delete, edit, lock, rupee, NOC, and HP.

Acc no.	Name	Date	Contact	Loan amount	Action
1	yagnesh pansuriya	03-05-2021	8989898989	200000	
2	Yash	02-06-2021	6354186523	150000	
3	Yash	06-07-2021	8989898989	170000	
4	Yash	07-08-2021	8989898989	90000	
5	Yash	06-09-2021	8989898989	210000	
6	Yash	06-11-2021	8989898989	85000	

Fig 9.6- Customer Page

Add New customer:

You can add new customer by simply filling all the details. You can also update customer details after adding.

The screenshot shows the 'Add Customer' page. It has a sidebar with the same navigation links as the previous page. The main area has a title 'Add Customer' and sections for 'Customer Details' and 'Loan Details'. In the 'Customer Details' section, there are fields for Account no (10), Name (Enter Customer name), Address, Phone no (eg. 9876543210), Birth Date (dd-mm-yyyy), City (City dropdown), District (District dropdown), Pincode (eg. 385456), and a large address input field. In the 'Loan Details' section, there are fields for Vehicle Amount (eg. 50000), Down Payment (eg. 2000), Loan File Charge (eg. 100), Loan Amount (eg. 50000), Loan Month (1), Loan interest[%] (Interest val), Total Loan (Total loan), Late Fine Charge (NaN), Enter Fine Charge (Enter Fine), Showroom (Showroom), and Select Showroom (Select Showroom dropdown).

Fig 9.7- Add new customer Page

NOC generate:

You can generate NOC form by clicking on 'NOC' button.

Fig 9.8- NOC generate

HP generate:

You can generate HP form by clicking on 'HP' button. You can also generate Customer details print by clicking on printer symbol.

The screenshot shows a document editor interface for generating a HP (Honourable Plea) form. The left side contains a letter template addressed to 'The Registered Officer, R.T.O., Gujarat'. It includes fields for 'Vehicle Owner', 'Vehicle Number', and 'Chassis Number'. The right side features a 'Print' panel with settings for 'Destination' (Save as PDF), 'Pages' (All), 'Layout' (Portrait), and a 'More settings' dropdown. At the bottom are 'Save' and 'Cancel' buttons.

To,
The Registered Officer,
R.T.O.,
Gujarat.

Due respect, we wa

Vehicle Owner: ya

Vehicle Number: G

Chassis Number: h

Auto Finance
Shri Arcade, Deesa Highway, Palanpur
Date: 03-05-2021

To,
The Registered Officer,
R.T.O.,
Gujarat.

Subject: To add HP in vehicle

Due respect, we want to inform you that we own one company named Auto Finance. So, we request you to add our HP in vehicle.

Vehicle Owner: yagnesh pansuriya
Vehicle Number: GJ02BD7777
Chassis Number: hjjjjdhfy7ff

Model: 2022
For:
Auto Finance

Print
1 page

Destination: Save as PDF
Pages: All
Layout: Portrait
More settings

Save Cancel

Fig 9.9- HP generate

Showroom Page:

Here you can see total showrooms in application as well as you can add new showroom. You can take a print of showrooms as well as download excel file by using print and excel button.

The screenshot shows a list of showrooms in the application. The table includes columns for Showroom name, Address, City, Contact, Pincode, and Action. A single entry is visible: 'yagnesh showroom' located in 'mehsana' with contact '8989898989' and pincode '384002'. There are buttons for 'Add Showroom', 'Print', and 'Excel'. The sidebar on the left provides navigation links for Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out.

Showroom name	Address	City	Contact	Pincode	Action
yagnesh showroom	mehsana	Mehsana	8989898989	384002	

Dashboard
Add info
Payment
Reports
SMS Setting
Setting
Help
Log Out

Starter Page

Showroom Details

+ Add Showroom Print Excel

Show 10 entries Search:

Showing 1 to 1 of 1 entries

Previous 1 Next

Fig 9.10- Showroom Page

Add New Showroom:

Here you can add new showroom by filling all necessary details. You can also update edit showroom details after adding.

The screenshot shows the 'Add Showroom' form. On the left is a sidebar with navigation links: Dashboard, Add info (selected), Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has fields for Showroom Name (with placeholder 'Enter Showroom Name'), Showroom Address (placeholder 'Enter Showroom address'), Showroom City (dropdown menu with placeholder '--Select City--'), Showroom Contact (placeholder 'Enter Showroom contact'), and Showroom Pincode (placeholder 'eg. 384002'). At the bottom are 'Submit' and 'Back' buttons.

Fig 9.11- Add showroom

Withhold Page:

Here you can take back vehicle of any customers, who are very irregular in paying EMIs.

The screenshot shows the 'With hold vehicle' page. A green success message at the top says 'Vehicle record added successfully...'. Below it is a table with columns: Acc no., Name, Date, Contact, Loan amount, and Action. One row is shown with values: 3, Yash, 2021-07-06, 8989898989, 170000, and a red circular icon with a white 'X'. Navigation buttons at the bottom include 'Previous', '1', and 'Next'.

Acc no.	Name	Date	Contact	Loan amount	Action
3	Yash	2021-07-06	8989898989	170000	

Fig 9.12- Withhold page

Customer Payment Page:

If customer paid installment via offline method (Cash or Cheque), then financer need to pay customer EMI from here by easily filling required details.

The screenshot shows the 'Customer Payment' page. On the left is a sidebar with links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Customer Payment' with 'Print' and 'Excel' buttons. A search bar shows '8 Savan Patel' and a 'Search' button. Below it, account details are listed: Account No.: 8, Customer Name: Savan Patel, Address: kailashnagar, Contact: 7394659076. A table titled 'Customer List' shows four installments with columns: No, EMI Date, EMI, Date, Pay Amount, and Pay. The fourth row has a 'Pay' button. The table data is as follows:

No	EMI Date	EMI	Date	Pay Amount	Pay
1	23-04-2022	5762.25	23-04-2022	5762.00	
2	23-05-2022	5762.25			<button>Pay</button>
3	23-06-2022	5762.25			
4	23-07-2022	5762.25			

The screenshot shows the 'Customer Payment' page. On the left is a sidebar with links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a table showing a list of installments with columns: No, EMI Date, EMI, Date, Pay Amount, and Pay. The table data is as follows:

No	EMI Date	EMI	Date	Pay Amount	Pay
4	23-07-2022	5762.25			
5	23-08-2022	5762.25			
6	23-09-2022	5762.25			
7	23-10-2022	5762.25			
8	23-11-2022	5762.25			
9	23-12-2022	5762.25			
10	23-01-2023	5762.25			
11	23-02-2023	5762.25			
12	23-03-2023	5762.25			

Total: 69147 Remaining: 63385

Customer Payment

Account No :- 8 Name :- Savan Patel

Date	Capital	Interest	emi
08-05-2022	4925.00	837.00	5762

Due Days: 0

Fine Rs.

Fine Amount	Payment Type	Loan Clear
	<input type="radio"/> Cash <input checked="" type="radio"/> Cheque	<input checked="" type="radio"/> No <input type="radio"/> Yes

Cheque Number

Enter Cheque number	Cheque date
	08-05-2022

Save **Back**

Fig 9.13- Customer payment

Payment report Page:

From here, you can see all payment list between two dates to generate receipt.

Payment List

Print **Excel**

From 01-01-2020 To 08-05-2022 **Search**

Show 10 entries Search:

Sr No	Acc No	Inst Date	Name	Amount	Payment Type	Date	EMI Date	Action
1	1	1	yagnesh pansuriya	100000.00	Cash	2021-05-03	2022-04-05	
2	1	2	yagnesh pansuriya	180000.00	Cash	2021-06-08	2021-06-05	
3	1	3	yagnesh pansuriya	170000.00	Cash	2021-07-05	2022-04-05	
4	1	4	yagnesh pansuriya	80000.00	Cash	2021-08-05	2022-07-05	
5	1	5	yagnesh pansuriya	215000.00	Cash	2021-09-06	2021-08-05	

Fig 9.14- Payment report page

Showroom Payment:

All paid amount to showroom is displayed here. You can insert record by clicking on 'Pay showroom' button.

The screenshot shows the 'Showroom Payment' section of the Auto Fin application. On the left, there is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Showroom Payment' with three buttons: '+ Pay Showroom' (blue), 'Print' (orange), and 'Excel' (green). Below these are two date input fields ('From' and 'To') and a 'Search' button. A table displays payment records with columns: No., Date, Showroom, Acc no., Name, Amount, and Action. Each row has a red delete icon and a blue edit icon. At the bottom, it says 'Showing 1 to 3 of 3 entries' and includes 'Previous', '1', and 'Next' buttons.

No.	Date	Showroom	Acc no.	Name	Amount	Action
1	2022-04-08	yagnesh showroom	1	yagnesh pansuriya	1000.00	
2	2022-04-23	yagnesh showroom	9	Meet Patel	80000.00	
3	2022-05-08	yagnesh showroom	7	Anjali	70000.00	

The screenshot shows the 'Pay Showroom' page. The sidebar is identical to the previous one. The main area has a title 'Pay Showroom' with several input fields: 'Date' (set to 08-05-2022), 'Showroom' (set to yagnesh showroom), and 'Customer' (dropdown menu showing [8] Savan Patel). Below these are sections for 'Account no:-8', 'Vehicle Amount' (set to 60000), 'Down Payment:-1000', and 'Remarks' (text input field with placeholder 'Enter remarks'). There are also buttons for 'Payment Type' (radio buttons for Cash and Cheque), 'Save' (blue button), and 'Back' (grey button).

Fig 9.15- Showroom Payment

Reprint receipt:

If receipt of payment got lost, then you can generate receipt again from here.

The screenshot shows the 'Receipt Print' page. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Receipt Print' with 'Print' and 'Excel' buttons. It includes date range inputs ('From 08-01-2020' and 'To 08-05-2022'), an account number input ('Account No. 1'), a search button, and dropdowns for 'Show 10 entries' and 'Search'. Below is a table with columns: Sr No, Acc No, Date, Name, Amount, and Print. The table contains four rows of data for account 1, all showing the name 'yagnesh pansuriya' and amounts ranging from 80000.00 to 100000.00.

Sr No	Acc No	Date	Name	Amount	Print
1	1	2021-05-03	yagnesh pansuriya	100000.00	
2	1	2021-06-08	yagnesh pansuriya	180000.00	
3	1	2021-07-05	yagnesh pansuriya	170000.00	
4	1	2021-08-05	yagnesh pansuriya	80000.00	

Fig 9.16- Reprint receipt

Fine Payment:

All fine are displayed here and also you can pay fine from here.

The screenshot shows the 'Fine Payment' page. The sidebar includes: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Fine Payment' and a 'Search' button. It displays account information: Account No.: 7 Anjali, Customer Name: Anjali, Address: 5.nilkanth society radhanpurroad mehsana, and Contact: 8989898989. Below is a table titled 'Anjali EMI List' with columns: No, Emi Date, Emi, Date, Pay Amount, and Due Day. The table contains five rows of EMI data for account 7.

No	Emi Date	Emi	Date	Pay Amount	Due Day
1	21-04-2022	6449.33	27-04-2022	6449.00	6
2	21-05-2022	6449.33	21-04-2022	6449.00	0
3	21-06-2022	6449.33	27-04-2022	6449.00	0
4	21-07-2022	6449.33	28-04-2022	6449.33	0
5	21-08-2022	6449.33	03-05-2022	6449.00	0

ID	Date	Amount	Status
8	21-11-2022	6449.33	0
9	21-12-2022	6449.33	0
10	21-01-2023	6449.33	0
11	21-02-2023	6449.33	0
12	21-03-2023	6449.33	0
Total		77392	6

Fine Payment Details

Date: 08-05-2022 | Remaining Fine Amount: 120 | Loan Clear: No Yes | Payment Type: Cash Cheque

Cheque Number: Enter Cheque number | Cheque date: 08-05-2022

Fig 9.17- Fine Payment

Monthly Installment:

Here, admin can see installments according to month.

Acc No	Name	Contact	Inst No.	EMI Date	Status	EMI amount
1	yagnesh pansuriya	8989898989	1	13-05-2022	Yes	9.17
1	yagnesh pansuriya	8989898989	2	05-05-2022	Yes	900.00
2	Yash	6354186523	7	08-05-2022	No	5060.00
7	Anjali	8989898989	2	21-05-2022	Yes	6449.33
7	Anjali	8989898989	5	07-05-2022	Yes	6449.33
8	Savan Patel	7394659076	2	23-05-2022	No	5762.25

Fig 9.18- Monthly Installment

Loan Completed:

Here, all loan completed customers are displayed.

The screenshot shows the 'Loan Complete' report page. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Loan Complete' with 'Print' and 'Excel' buttons. It includes a search bar and a table with columns: Acc no., Name, Address, Contact, Loan Amount, Loan Rate, Total Loan, and Monthly EMI. One entry is shown: Acc no. 1, Name yagnesh pansuriya, Address 5.nilkanth society radhanpurroad mehsana, Contact 8989898989, Loan Amount 200000, Loan Rate 10.00, Total Loan 110.00, and Monthly EMI 9.17. Navigation buttons for Previous, Next, and a page number '1' are at the bottom.

Fig 9.19- Loan Completed

Fine Payment report:

Here, financer can see all the fine reports.

The screenshot shows the 'Fine Payment Report' page. The sidebar is identical to the previous one. The main area has a title 'Fine Payment Report' with 'Print' and 'Excel' buttons. It includes date range filters ('From' 27-02-2020 to 'To' 08-05-2022) and a 'Search' button. A table displays fine details with columns: Sr No, Acc No, Name, Amount, Payment Type, Date, and Action. One entry is shown: Sr No 1, Acc No 6, Name Yash, Amount 300.00, Payment Type Cash, Date 2022-04-08, and an Action button. Navigation buttons for Previous, Next, and a page number '1' are at the bottom.

Fig 9.20- Fine Payment Report

SMS:

All messages are displayed here.

The screenshot shows the 'Auto Fin' application interface. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a header 'Auto Fin / Stater Page'. Below the header is a blue box containing placeholder text for a message template: '[NAME] Customer Name, [FILE] Account Number, [AMT] Installment Amount, [INST] Installment Number, [DATE] Installment Date'. Underneath this is a section titled 'Messages' which lists three types of SMS: 'Welcome SMS', 'Due SMS', and 'Reminder SMS'. Each message type has a text box containing a sample message and two radio buttons on the right labeled 'No' and 'Yes'.

Message Type	Message Content	Action
Welcome SMS	Welcome To AUTO FINANCE [NAME]. Your Loan is approved, Account no is ([FILE]) Loan amount ([AMT]), EMI Amount ([INST]).	<input type="radio"/> No <input checked="" type="radio"/> Yes
Due SMS	Dear, [NAME] Account no ([FILE]), [DATE] EMI ([AMT]) has been due. please pay as soon as. Thanks AUTO FINANCE	<input checked="" type="radio"/> No <input type="radio"/> Yes
Reminder SMS	Reminder Dear, [NAME] Account No ([FILE]), on date [DATE] EMI Amount [AMT] is due. Thanks AUTO FINANCE	<input checked="" type="radio"/> No <input type="radio"/> Yes

This screenshot shows the same 'Auto Fin' application interface as the previous one, but with more message types listed under 'Messages': 'Welcome SMS', 'Due SMS', 'Reminder SMS', 'Payment SMS', 'Fine SMS', and 'Birthday SMS'. Each message type has a text box containing a sample message and two radio buttons on the right labeled 'No' and 'Yes'. At the bottom of the 'Messages' section are two buttons: 'Save' (blue) and 'Reset' (red).

Message Type	Message Content	Action
Welcome SMS	Welcome To AUTO FINANCE [NAME]. Your Loan is approved, Account no is ([FILE]) Loan amount ([AMT]), EMI Amount ([INST]).	<input type="radio"/> No <input checked="" type="radio"/> Yes
Due SMS	Dear, [NAME] Account no ([FILE]), [DATE] EMI ([AMT]) has been due. please pay as soon as. Thanks AUTO FINANCE	<input checked="" type="radio"/> No <input type="radio"/> Yes
Reminder SMS	Reminder Dear, [NAME] Account No ([FILE]), on date [DATE] EMI Amount [AMT] is due. Thanks AUTO FINANCE	<input checked="" type="radio"/> No <input type="radio"/> Yes
Payment SMS	Dear, [NAME] Account No ([FILE]) EMI No- [INST] EMI Amount- [AMT] is received on [DATE].Thanks Auto FINANCE	<input checked="" type="radio"/> No <input type="radio"/> Yes
Fine SMS	Dear Customer, [name] Fine Amount- [AMT] is received. Thanks AUTO FINANCE	<input type="radio"/> No <input checked="" type="radio"/> Yes
Birthday SMS	Happy Birthday [name]. Many many returns of the day. May almighty bless you with long & healthy life.	<input type="radio"/> No <input checked="" type="radio"/> Yes

Fig 9.21- SMS

Pending SMS:

Admin can see all pending SMS.

The screenshot shows the 'Pending Messages' section of the Auto Fin application. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area has a title 'Pending Messages' and a search bar with 'Show 10 entries' and a 'Search:' field. Below is a table with columns: Sr no., Message, Contact, and Created. One entry is listed: 'Welcome To AUTO FINANCE Meet Patel.Your Loan is approved, Account no is (9) Loan amount (92217.00),EMI Amount (7684.75)' with contact '6457373890' and created date '2022-04-23 10:04:20'. Navigation buttons 'Previous', '1', and 'Next' are at the bottom.

Sr no.	Message	Contact	Created
1	Welcome To AUTO FINANCE Meet Patel.Your Loan is approved, Account no is (9) Loan amount (92217.00),EMI Amount (7684.75).	6457373890	2022-04-23 10:04:20

Fig 9.22- Pending SMS

History SMS:

From here, you can see all history of SMS.

The screenshot shows the 'History Messages' section of the Auto Fin application. The layout is identical to the Pending Messages page, with a sidebar and a main area titled 'History Messages'. The table shows one entry: 'Welcome To AUTO FINANCE Meet Patel.Your Loan is approved, Account no is (9) Loan amount (92217.00),EMI Amount (7684.75)' with contact '6457373890' and created date '2022-04-23 10:04:20'. Navigation buttons 'Previous', '1', and 'Next' are at the bottom.

Sr no.	Message	Contact	Created
1	Welcome To AUTO FINANCE Meet Patel.Your Loan is approved, Account no is (9) Loan amount (92217.00),EMI Amount (7684.75).	6457373890	2022-04-23 10:04:20

Fig 9.23- History SMS

Change Password:

If user wants to change password, then password will be changed by this page.

The screenshot shows the 'Change Password' page of the Auto Fin application. On the left is a sidebar with navigation links: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main content area has a title 'Change Password'. It contains three input fields: 'Old Password' (containing '*****'), 'New Password' (containing '123'), and 'Confirm Password' (containing '**'). Below the 'Confirm Password' field is a message: 'new password and confirm password are not same'. At the bottom are two buttons: a blue 'Save' button and a light blue 'Back' button.

Fig 9.24- Change Password

Edit Profile:

Here, user can change his/her personal details.

The screenshot shows the 'Edit Profile' page of the Auto Fin application. The sidebar on the left includes: Dashboard, Add info, Payment, Reports, SMS Setting, Setting, Help, and Log Out. The main area features a circular profile picture placeholder with the text 'FINISHEREVIP'. Below it are two buttons: 'Edit' and 'Delete'. To the right, there are several input fields: 'Business Name' (containing 'Yagnesh'), 'Business Address' (containing 'Mehsana'), 'Business Contact' (containing '7864499087'), 'Branch' (containing 'Mehsana'), 'Pincode' (containing '384002'), and 'City' (containing 'Vadodara').

Fig 9.25- Edit Profile

Customer Home Page:

After login, customer will find this page, where he/she gets details about installments (Pay, Paid, Fine), payment option to pay installment and graphical view for loan (pending, paid).

EMI No	EMI Date	EMI Amount	Pay
7	21-10-2022	6449.33	Pay
8	21-11-2022	6449.33	Pay
9	21-12-2022	6449.33	Pay
10	21-01-2023	6449.33	Pay
11	21-02-2023	6449.33	Pay
12	21-03-2023	6449.33	Pay
Total			38695.98

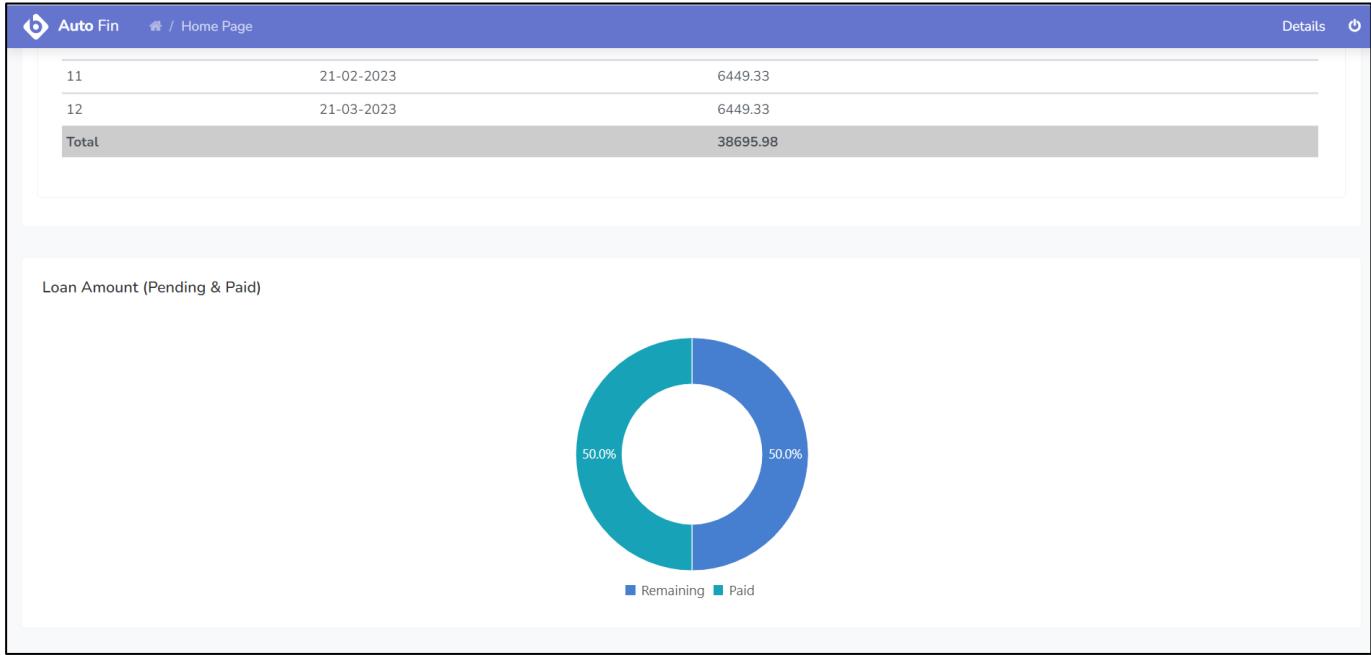


Fig 9.26- Customer Home

Customer details Page:

Here, customer finds all personal details from vehicle to loan.

The screenshot shows the 'User Details' page of the Auto Fin application. At the top, there's a navigation bar with the logo 'Auto Fin', the text '/ User Details', and a 'Details' button. The page is divided into several sections:

- Profile:** Shows a placeholder profile picture for 'Anjali' and her date of birth 'July 31, 2000'.
- Loan Details:** Displays the following information:
 - Loan Amount: 69100
 - Total Loan Months: 12
 - Loan Interest: 12.00 %
 - Loan File Charge: 100.00
 - Loan Date: December 21, 2021
- Guarantor Details:** Displays the following information:
 - Guarantor Name: yagnesh
 - Guarantor Address: 5, nilkanth society radhanpurroad mehsana
 - Guarantor Contact: 746454783
 - Guarantor Document: project.txt

The screenshot shows a user interface for a financial application named 'Auto Fin'. At the top, there's a blue header bar with the logo and the text '/ User Details'. On the right side of the header, there are 'Details' and a refresh icon. The main content area is divided into two columns.

Left Column (Loan Details):

- Loan Amount: 69100
- Total Loan Months: 12
- + Loan Interest: 12.00 %
- Loan File Charge: 100.00
- Loan Date: December 21, 2021

Right Column (Guarantor Details):

- Guarantor Name: yagnesh
- Guarantor Address: 5, nilkanth society radhanpurroad mehsana
- Guarantor Contact: 746454783
- Guarantor Document: project.txt

Vehicle Details:

- Vehicle No: GJ02BD5849
- Chassis No: 99kmim
- Engine No: 46
- Model: 2022
- Vehicle Amount: 70000
- Down Payment: 1000

Fig 9.27- Customer details page

Installment pay:

To pay installment, user needs to fill few necessary details.

The screenshot shows a payment gateway interface titled 'UPI Gateway Integration' with the sub-instruction 'Checkout Type : Merchant'.

The form fields are as follows:

- Order ID: 1652025444
- Name: Anjali
- Mobile: 8989898989
- Amount: 6449.33
- Email: yag@gmail.com

A green 'Proceed' button is located at the bottom of the form.

Fig 9.28- Installment Pay

After filling details, you will be redirected to below page to see payment details

GREEN CIRCLE TECHNOLOGY

Name : Anjali
Mobile : 8989898989
Email : yag@gmail.com
Amount : 6449.33

PAYMENT SUMMARY	
Name	: Anjali
Mobile	: 8989898989
Email	: yag@gmail.com
Amount	: 6449.33
Total Amount (INR)	: 6449.33

Fig 9.29- Payment details

After that, payment options are available such as UPI, debit card, credit card etc. to pay amount. You just need to select payment method and have to fill payment credentials.

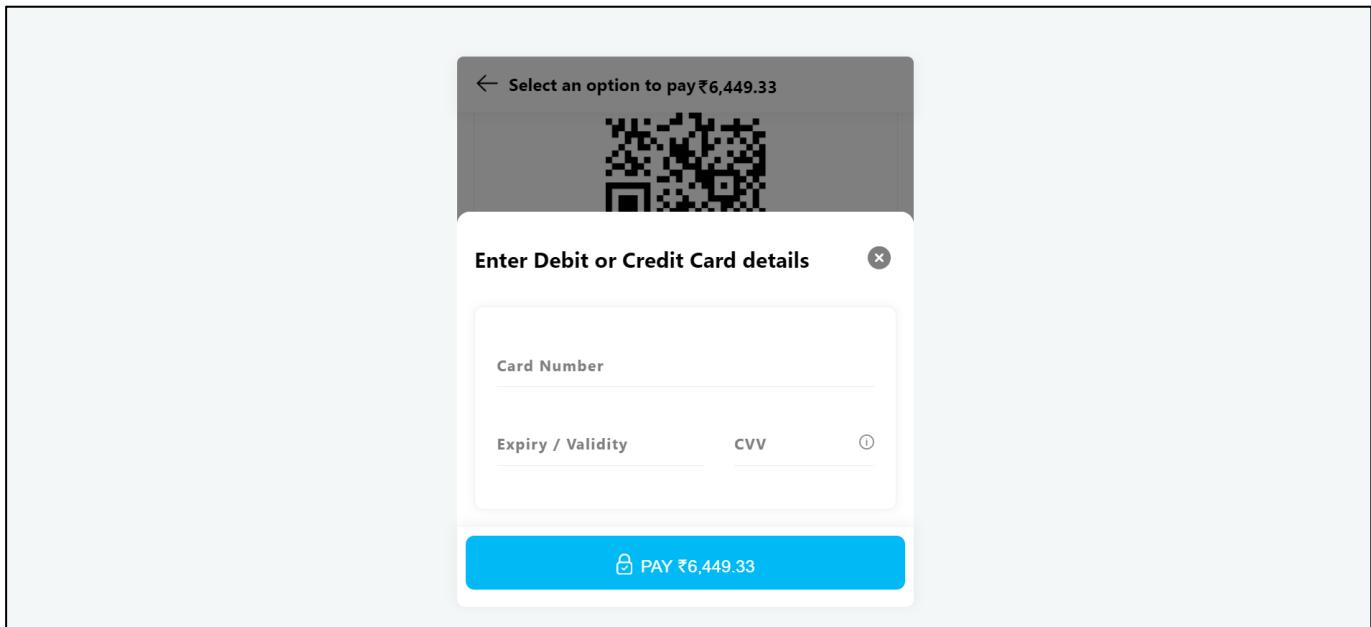


Fig 9.30- Payment credentials

After that payment success or failed page will be opened.

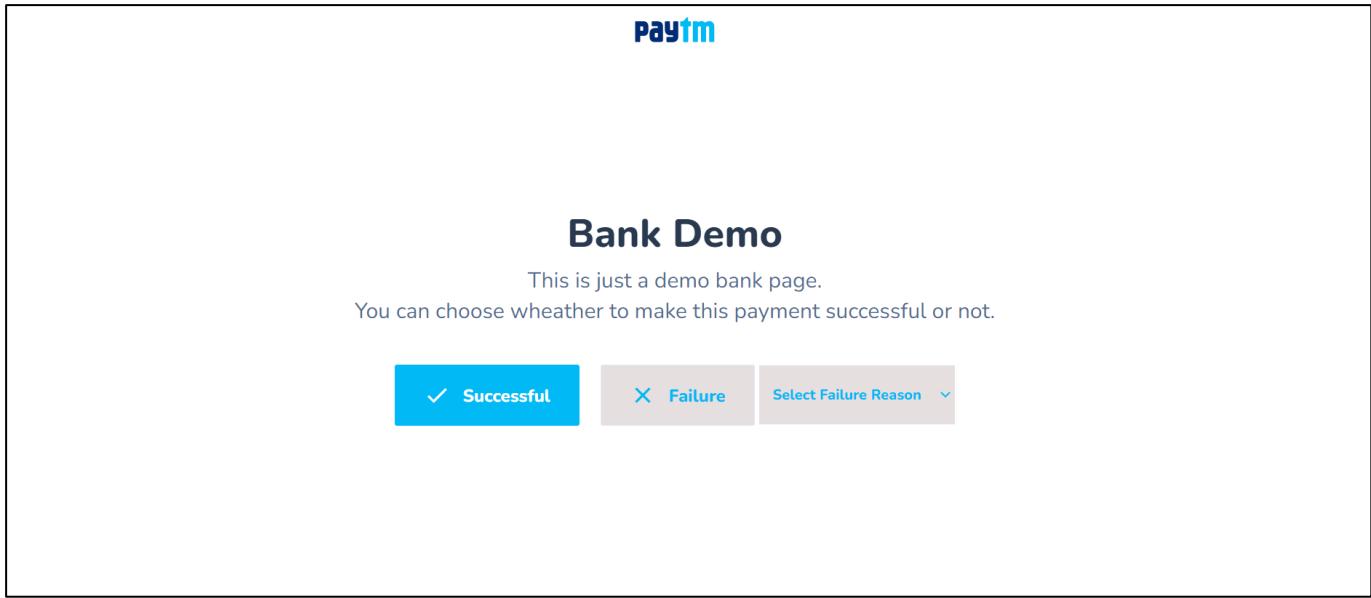


Fig 9.31- Payment status

Depending upon your payment status it will display page of success or fail.

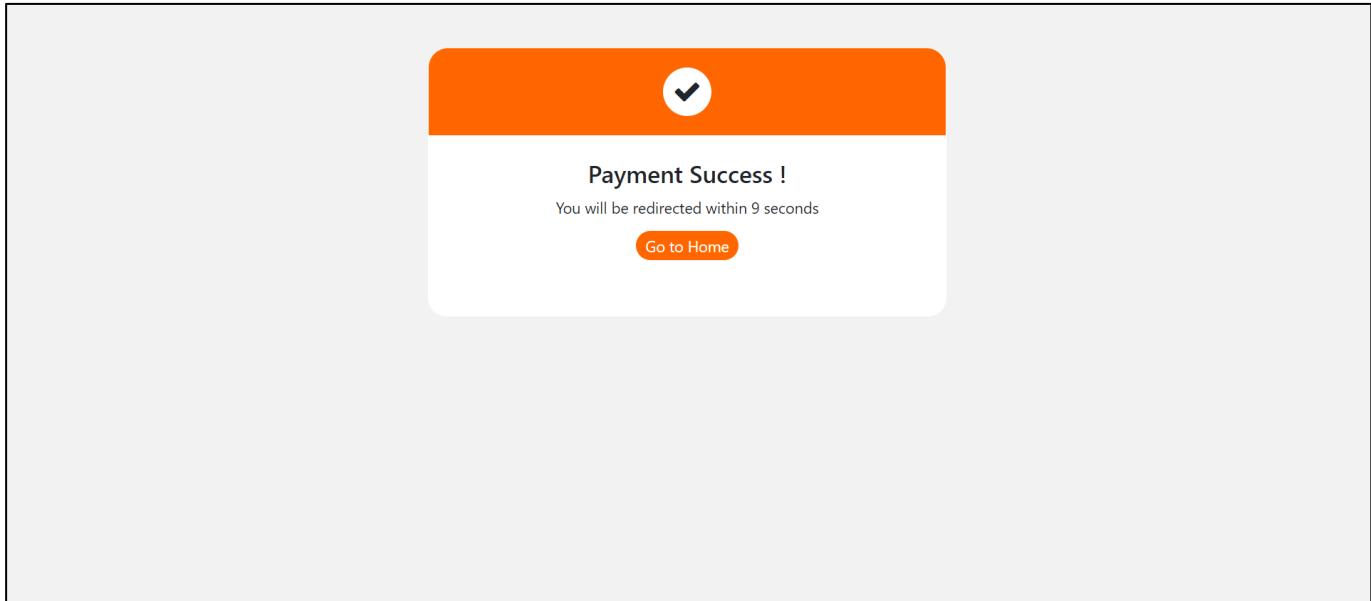


Fig 9.32- success

CHAPTER 10: INSTALLATION STEPS

10.1 Software Required:

1. Xampp
2. Brackets or Adobe Dreamweaver
3. Any Browser (e.g. Chrome, Microsoft Edge)

10.2 Steps to open Application:

1st Step: Extract file

2nd Step: Copy the main project folder (Auto_Finance)

3rd Step: Paste in xampp/htdocs/

4th Step: Open a browser and go to URL <http://localhost/phpmyadmin/>

5th Step: Then, click on the databases tab

6th Step: Create a database naming “auto_finance” and then click on the import tab

7th Step: Click on browse file and select “auto_finance.sql” file which is inside the “Auto_Finance” folder

8th Step: Click on go.

9th Step: After Creating Database, open a browser and go to URL
http://localhost/auto_finance/

CHAPTER 11: CONCLUSION AND FUTURE WORK

11.1 Conclusion:

Auto finance and buying new vehicles business has emerged with a new goody compared to the past experience. Nowadays, customers can purchase vehicles through any dealers available near to them they just have to go and contact them and they will get best deals and lowest EMI rates as possible at that time and can manage their data and the loan with us very safely and securely without any hassle.

11.2 Future Work:

In Future we can develop small mini bank in that we can do anything same as the bank's loan department works. It will be more helpful and will create a very friendly as well as sustainable environment for users to get connected to dealers and buy their dream vehicles on the go, through online as well as offline mode via this software. Moreover, we can also add personal loan section. In future, customers can view their loan details in graphical view. Also, we are planning to move our application from local database to live database so more customers can become part of our software. In addition, we can make more optimized mobile application of this web application.

CHAPTER 12: ANNEXURE

12.1 References

- 1) <https://www.geeksforgeeks.org/software-processes-in-software-engineering/>
- 2) <https://www.softwaretestinghelp.com/how-to-write-test-plan-document-software-testing-training-day3/>

12.2 Tools and Technology

- **MySQL:** MySQL is a powerful open-source database server built based on a relational database management system (RDBMS) and is capable of handling a large concurrent database connection. As MySQL server we have used XAMPP Control Panel, which provides virtual server for testing purpose on local host. MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company.
- **PHP:** PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
- **AJAX:** AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script. Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display. With AJAX, when you hit submit, JavaScript will make a request to the server, interpret the results, and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server.
- **JavaScript:** JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.
- **Bootstrap:** Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use, yet features numerous HTML and CSS templates for UI interface elements such as buttons and forms. Bootstrap also supports JavaScript extensions.
- **CSS:** Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used,

layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

- **HTML:** HTML stands for Hypertext Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.
- **XAMPP:** XAMPP is a software distribution which provides the Apache web server, MySQL database (actually MariaDB), Php and Perl (as command-line executables and Apache modules) all in one package. It is available for Windows, MAC and Linux systems. No configuration is necessary to integrate Php with MySQL.
- **Adobe Dreamweaver:** Adobe Dreamweaver is a software program for designing web pages, essentially a more fully featured HTML web and programming editor. The program provides a WYSIWYG (what you see is what you get) interface to create and edit web pages. Dreamweaver supports many markup languages, including HTML, XML, CSS, and JavaScript.
- **Brackets:** Brackets is a source code editor with a primary focus on web development. Created by Adobe Inc., it is free and open-source software licensed under the MIT License, and is currently maintained on GitHub by open-source developers. It is written in JavaScript, HTML and CSS.

12.3 About the Company

- **Introduction:** Green Circle Technology is a software development company specializing in web application development. Green Circle Technology 5+ Years Professional experience in IT Sector. They Provide Highly Qualitative service at affordable price . Green Circle technology 100+ success project and 200+ satisfied customer. we believe every project is as unique as our clients.
- They also offer programming, web design, E-Commerce Solutions, Mobile Application Development, Search Engine Optimization & Marketing Services all over the world. With right kind of experience, they are able to develop programs and software's to provide final product/solution in time. Green Circle Technology outsourcing is the best way to have greatest returns on investment. Any I.T company in the WORLD can benefit from outsourcing their projects and getting prompt, high-quality service at a reasonable cost. Green Circle Technology integrated network of developed facilities is complemented by onshore, offshore and nearshore capabilities in major international markets.
- This has helped their clients choose solutions that meet their global sourcing needs. Green Circle Technology has helped numerous clients helping them to identify, evaluate and configure their

IT architectures across multiple geographies to reduce costs, mitigate risks and maximize performance. Our major concerns are customer's ease, economic cost, accomplishment of objectives, timely execution of the project and maintain customer secrecy. With excellent technical skills and right mix of experience in delivering end-to-end IT services and solutions, Green Circle Technology has developed strong domain capabilities.

- **Services:** Responsive web design, eCommerce, Web Development, Mobile Applications.
- **Address:** T 14-21 PLATINUM PLAZA, OPPOSITE GOODLUCK PARTY PLOT, NEAR DMART-CIRCLE, MEHSANA-384002.

12.4 About College

- Ganpat University-U. V. Patel College of Engineering (GUNI-UVPCE) is situated in Ganpat Vidyanagar campus. It was established in September 1997 with the aim of providing educational opportunities to students from various strata of society. It is one of the constituent colleges of Ganpat University various strata of society. It was armed with the vision of educating and training young talented students of Gujarat in the field of Engineering and Technology so that they could meet the demands of Industries in Gujarat and across the globe.
- The College is spread over 25 acres of land and is a part of Ganpat Vidyanagar Campus. It has six ultra-modern buildings of architectural splendor, class rooms, tutorial rooms, seminar halls, offices, drawing hall, workshop, library, well equipped departmental laboratories and several computer laboratories with internet connectivity through 1 Gbps Fiber link, satellite link education center with two-way audio and one-way video link. The superior infrastructure of the Institute is conducive for learning, research, and training. The Institute offers various undergraduate programs, postgraduate programs, and Ph.D. programs.
- Placement plays a key role in shaping the future of the students, and keeping this in mind; the institute has forged healthy relations with the prominent industries. These tie-ups are mutually beneficial. The industries get a chance to employ the resources of the institute for their R & D. In turn they extend every possible help to the institute especially with regard to providing hands-on training to the students. As part of this initiative, Incubation Centre/Start-up activities have also been developed.