Project Report

Modernppl

Goal to make easier

Urban Services

Domain: *modernppl.com*

Submitted by:

Bhuvan Gandhi (166170307026)

Shubham Galiya (166170307024)

Falgun Bhatt (166170307022)

Shubham Panchal (166170307055)

Kathan Patel (166170307062)

Internal Guide

Mr. Vinay N. Soni

Computer Department

Government Polytechnic, Ahmedabad.

Apr, 2019

Certificate

This is to certify that the project entitled

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Submitted fully for the requirement of the degree of **Diploma Computer Engineering** is a result of the bonafide work carried out by…

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(166170307026)

During the academic session December 2018 to April 2019. They have undergone the process of literature survey, problem definition and project designing. They are supposed to carry out the residue UDP Part-II work on same problem during Semester-VI for the final fulfilment of the UDP work.

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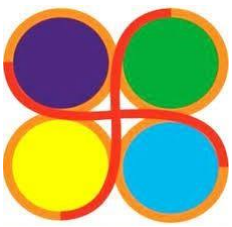
Mr. Hasmukh J. Baldaniya



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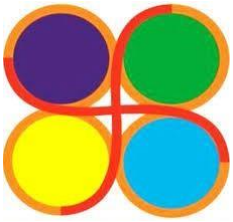

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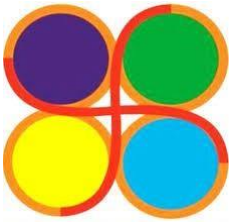

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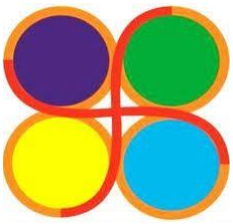

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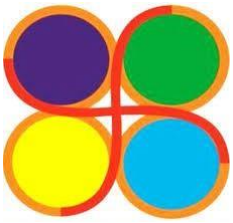

Acknowledgement

We would like to express our sincere thanks and gratitude to our internal guide **Mr. Vinay N. Soni** for his help, support and guidance throughout this project. This project work would not have been successful without his valuable inputs.

We also thank our HOD sir **Mr. Hasmukh J. Baldaniya** for his co-operation in our project work. We cannot for get to express our thanks to the entire staff of our Department and colleagues for providing us a helping arm during the project work.

We also thank **our colleagues** for them help. And we would also like to thank **the online communities** for providing diagrams, charts & reports for reference use.

Bhuvan Gandhi
Shubham Galiya
Falgun Bhatt
Shubham Panchal
Kathan Patel

Abstract

Urban service website provides facility to done printing, refuelling and repairing work from home. It provides simple graphical user interface for to user to use the facility of system. This system can be used by any person. There is no any age range or specific qualification required.

This system helps user to perform some daily routine tasks like printing documents and refuelling vehicle his/her place. System helps user to find out nearest shop or refuelling station from his/her GPS location.
It saves user's time and money.

This system is not just limited to user, it also contains facilities for shop owner. Here, the shop owner can view the received orders from user. Shop owner can manage the orders which placed by users.

This system also contains customer care (helper) part. Here, if there is any question related to system in user's or shop owner's mind, he/she can easily send question to helper. Then helper will answer the question via email in short time. If user or shop owner wants the answer quickly, then he/she can make request for call back.
Then after in few minutes, helper will call the requester.

This system also contains the administrator. Admin can manage all the users, shop & it's owner, helpers, website content which appears etc. details.

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1.0 Introduction

1.1 Project Profile:

Project title	Urban services
Domain name	modernppl.com
Web server	Apache
Front end	HTML, CSS, JS
Back end	Python
Database	MySQL
IDE	VS Code
Internal guide	Mr. Vinay N. Soni
Project duration	1 Year
Team size	5 members

Table 1.1 Project Details

1.2 What is modernppl?

Modernppl is a domain name of Urban services project. This platform provides facility to users for performing daily tasks like printing the documents and refuelling the vehicle. This system allows user to done task from his/her place or without going to shop or fuel station. Basically, this system is the most suitable for urban cities where civilization improved. There is no any specific qualifications for user. This system saves user's time, money & effort.

1.3 Hardware requirements:

RAM: Minimum 4 GB of RAM is required.
Space: Minimum 10 GB of space is required.
CPU: Minimum Intel i3 7th Gen or AMD A10 is required.
Internet connection is required.

1.4 Software requirements:

Operating system: Any. (Linux, MacOS, Windows etc.)
Application software: Any browser, Python with different modules, Apache, MySQL required.

1.5 Technology:

HTML: HyperText Markup Language (HTML) is a markup language for creating a webpage. HTML was made by the World Wide Web Consortium (W3C). Webpages are usually viewed in a web browser. They can include writing, links, pictures, and even sound and video. HTML is used to mark and describe each of these kinds of

content so the web browser can display them correctly. HTML can also be used to add meta information to a webpage. Meta information is usually not shown by web browsers and is data about the web page, e.g., the name of the person who created the page.

CSS: Cascading Style Sheets, or CSS, are a way to change the look of HTML and XHTML web pages. CSS was designed by the W3C, and is supported well by most modern web browsers. The current version of CSS is CSS3. CSS4 is available, but is split into parts.One advantage to using CSS is a web page can still be displayed, even if the CSS is not working or removed. CSS code is saved in files with the .css file extension.

JS: JavaScript is a programming language commonly used in web development. It was originally developed by Netscape as a means to add dynamic and interactive elements to websites. While JavaScript is influenced by Java, the syntax is more similar to C and is based on ECMAScript, a scripting language developed by Sun Microsystems. JavaScript is a client-side scripting language, which means the source code is processed by the client's web browser rather than on the web server. This means JavaScript functions can run after a webpage has loaded without communicating with the server.

AJAX: AJAX stands for Asynchronous JavaScript and XML. It is a technique used to make webpages faster to use. If they are programmed with AJAX, they seem to react faster. They only send small bits of information to the web server. That way the whole web page does not need to reload, only small parts of it.

JSON: JavaScript Object Notation is a way of expressing information. JSON is usually easy to understand. It can express information like XML. It is based on JavaScript's notation for object literals. JSON and XML are both often used in AJAX. Even though JSON is named after JavaScript, it can be used in other programming languages, such as Python, PHP etc.

Python: Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Django: Django is a python based free open source web framework, which follows the model-view-template architectural pattern. It is maintained by the Django Software Foundation (DSF). Django's primary goal is to ease the creation of complex, database-driven websites. The framework emphasizes reusability and "pluggability" of components, less code, low coupling, rapid development, and the principle of don't repeat yourself. Python is used throughout, even for settings files and data models. Django also provides an optional administrative create, read, update and delete interface that is generated dynamically through introspection and configured via admin models.

2.0 Project Management

2.1 Project Planning:

Project planning is done for identifying and measuring the activities, milestones & deliverables done by the project. Project planning is undertaken and completed sometime even before any development is started. Project planning is mainly has following main activities:

- Scheduling manpower & other resources needed to develop system.
- Staff organization and staff planning.
- Risk identification, analysis and accurate planning.
- Estimating basic attributes of project like cost, duration & efforts. The effectiveness of subsequent planning activities is based on accuracy of these estimations.

Project planning involves planning, monitoring and control of people and events that occur as software gets develop from a concept to operational implementation. Cost estimation is mainly done on the basis on resources required for developing the project. Project planning is done so that a schedule is prepared for completing the task so that the project can be completed in the given time.

2.2 Project Scheduling:

The scheduling is the main part in the planning of activity, its also a primary component of software project. When combined with estimation methods and risk analysis, scheduling establishes a roadmap for project management. The main objective is that to divide the project and completing the task in given time.

2.3 Milestones and deliverables:

Management needs information. As software is intangible, this information can only be provided as documents that describe the state of the software being developed. Without this information, it is impossible to judge progress and cost estimates and schedules cannot be updated. When planning a project series of milestones are established.

Sr. No	Activities	Date
1	Study of available system	26 Jun, 2018
2	Prior tools study	10 Jul, 2018
3	Project Synopsis	23 Jul, 2018
4	Requirement Gathering	19 Aug, 2018
5	Analysis	3 Sep, 2018
6	Divide Project in module	20 Sep, 2018
7	UML Diagrams	1 Oct, 2018
8	Data Dictionary	4 Oct, 2018
9	Designing	16 Oct, 2018
10	Coding	21 Dec, 2018

Table 2.1 : Milestones and deliverables of Mordenppl

2.4 Group Dependencies:

As we have described there are five members in my team including me, so there has is group dependency. Team structure is as follows

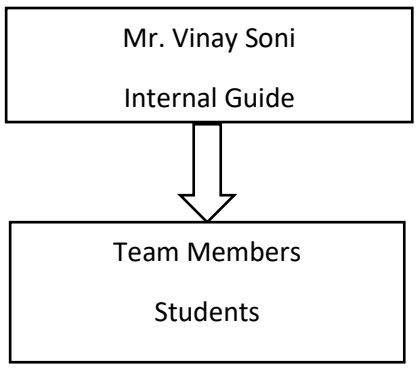


Fig. 2.1 Group Dependencies

3.0 Proposed System

3.1 Introduction:

This system provides facility to users for performing daily tasks with minimal time and effort. It allows user to print documents, refuel vehicle or without going to shop or fuel station. This system increases the online money transactions.
This system can be used in metro cities like Ahmedabad, Mumbai, Chennai, Kolkata, Bengaluru, Pune, Delhi etc.

3.2 Purpose & Goal:

User has to consume too much time and effort for small works. So, our aim is to enable user to perform task without going to shop. It saves time and effort.
User waits in queue at fuel station and shops for small work. It is such a headache. So, we are trying to solve this problem from creating our system.

3.3 Functionalities:

There are too many functionalities given in system for every type of user.
The authentication system technique is same for every user. And user has to login with his/her credentials. New user can easily signup to join our system.
There is an API included in system for tracing user's current location to provide better service.

User can share his/her document file with his/her nearest printing shop to print it and make payment at that time. Then after he/she get the notification that his/her prints are ready for pickup. So, he/she will go at printing shop and collect it.

User can order fuel for his/her vehicle. At ordering time, user has to submit details of his/her vehicle. User has to make payment at that time. Then delivery person come with fuel and verifies the vehicle and user. Then that person refuels the vehicle.

In all these services, user can trace the his/her order status. The order status is updated by the shop side.
There is also shop part in system. The person who is there in shop, receives the order details which placed by user. They update the status of order as per action taken on it.

There is another user, called as Helper. Helper receives request from user and shop employee or owner for help. Helper answer the questions which asked by user or shop employee or owner. Also, helper calls the user or shop employee or owner if he receives call – back request.

There is always an Admin in system. Admin manages everything in system. Admin manages users, shop & it's owner, helpers, content which displays in system etc.

3.4 Modules:

3.4.1 Login module:

Person can login in system with using email id and password in order to use the functionalities of system.

3.4.2 Registration module:

Person can sign up in system in order to join the system. Person has to provide details of him/her while registration time.

3.4.3 Printing module:

Printing is a service which used by user to print his/her documents without going to shop.

3.4.4 Refuelling module:

Refuelling is a service which used by user to refuel his/her vehicle without going to refuelling station.

3.4.5 Subscribe module:

Subscription is a service where user get emails and notifications on periodic basis or when any new announcement going to done related to system.

3.5 Advantages:

- User has not to wait in queue for services. So, it saves time.
- User can do online transaction. So, it prevents money exchange headache.
- User has neither to wait in queue nor wait for person at shop, so it saves effort.
- User has not to worry about data security, all sensitive details are stored in database in encrypted form.

3.6 Process Model:

We are going to use Iterative Waterfall Model for developing this system.

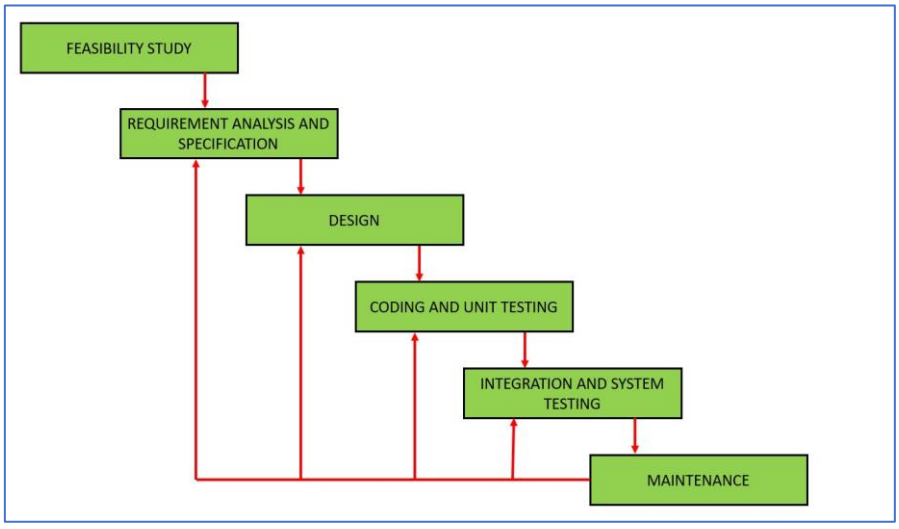


Fig 3.1 Waterfall Model

Why iterative waterfall model?

It's very simple.

It is possible to debug and re – analyse system if there is any bug in system.

It enables debugging from the requirement phase.

3.7 Risk Identification:

It's a first systematic attempt to specify project plan, scheduling process, project development. There maybe two types of risks.

Technological Risk: It involves risks regarding implementation, design, interfacing, testing, maintenance problem, database corruption and garbage collection.
People Risk: It involves risks of leaking the data, lack of knowledge, poor communication between members, technical staff conflict.

Risk Management:
Risk management is necessary as its used for identifying risk assessment process require management & selects & implements plans or actions to ensure that the risks are controlled.

4.0 System Analysis

4.1 System flowchart:

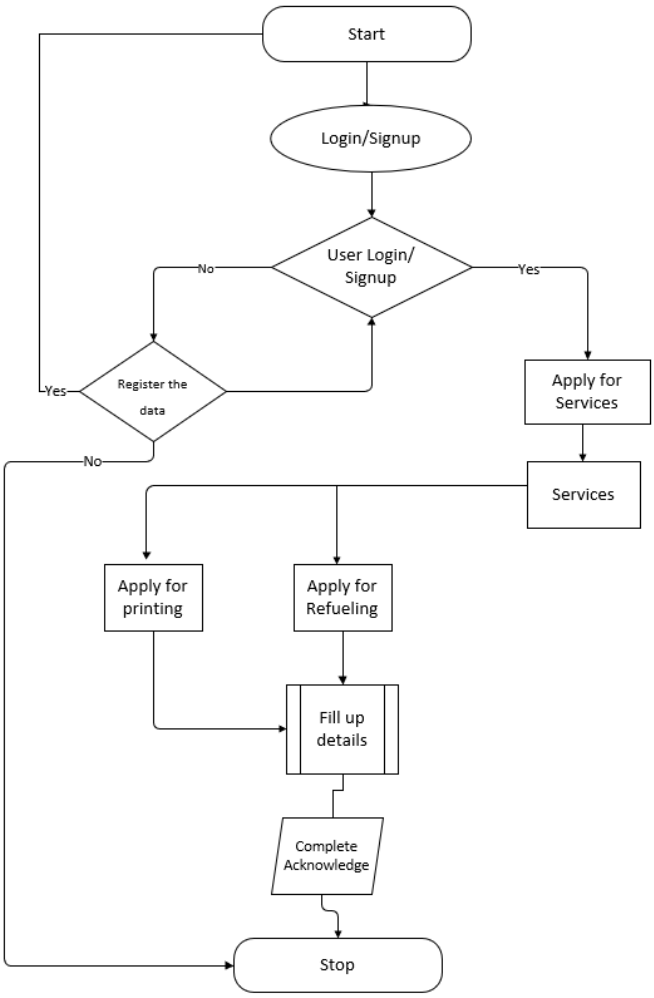


Fig 4.1 System flowchart

4.2 Data flow diagram:

Level 0:

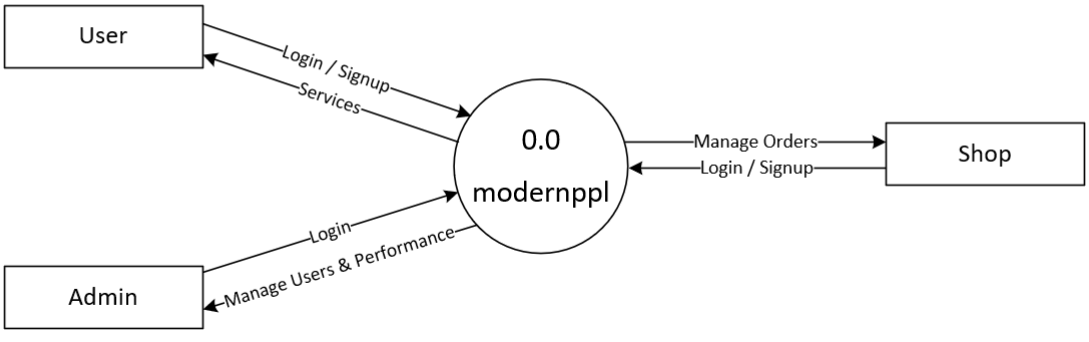
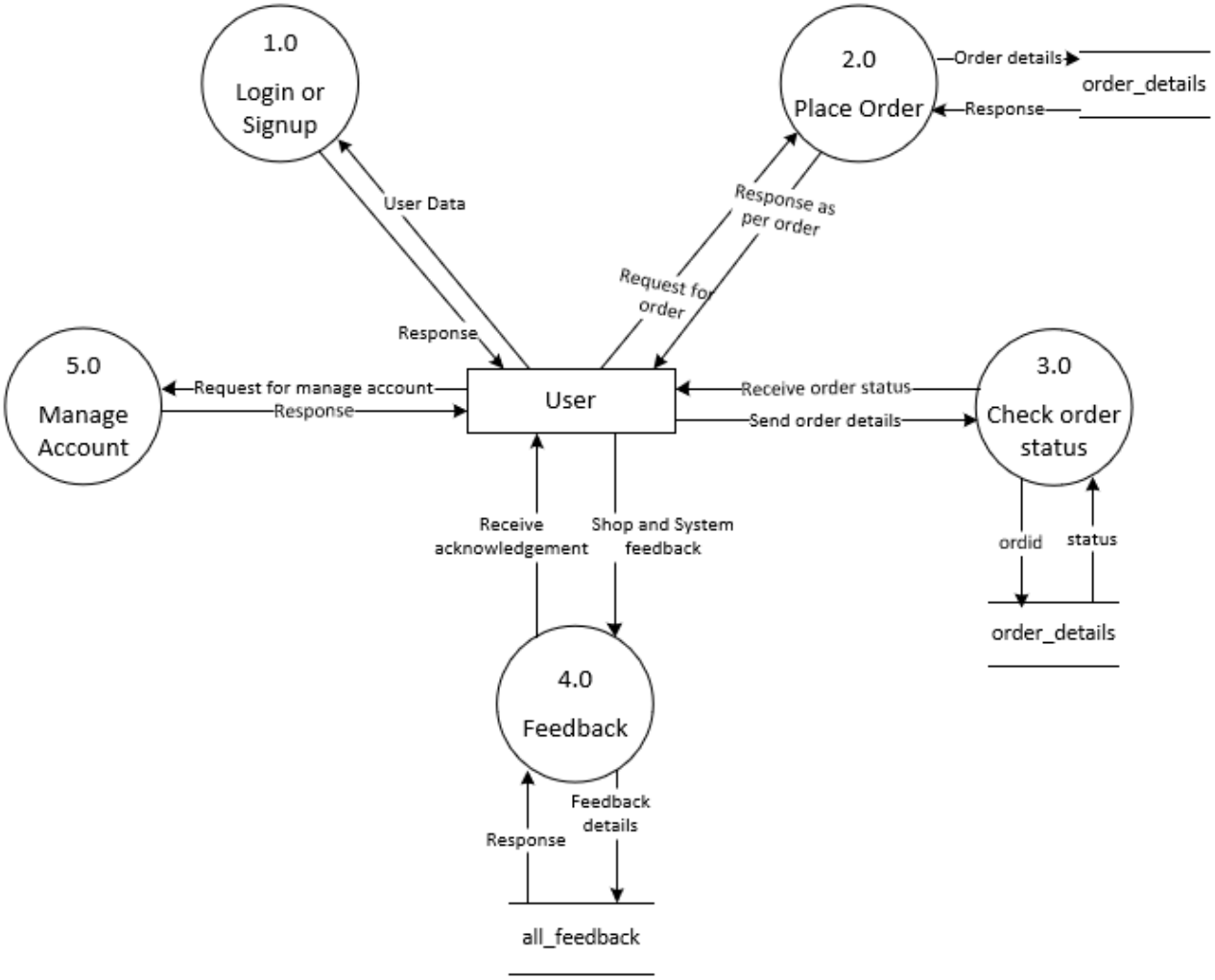


Fig 4.2 User side DFD level 0

User Side DFD Level 1:



User Side DFD Level 2:

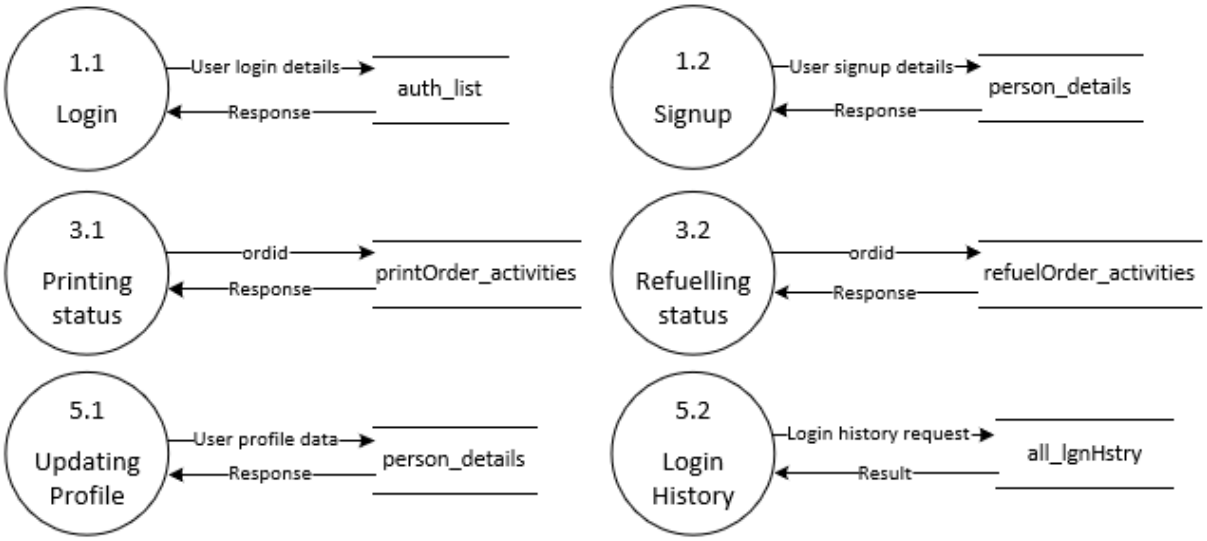
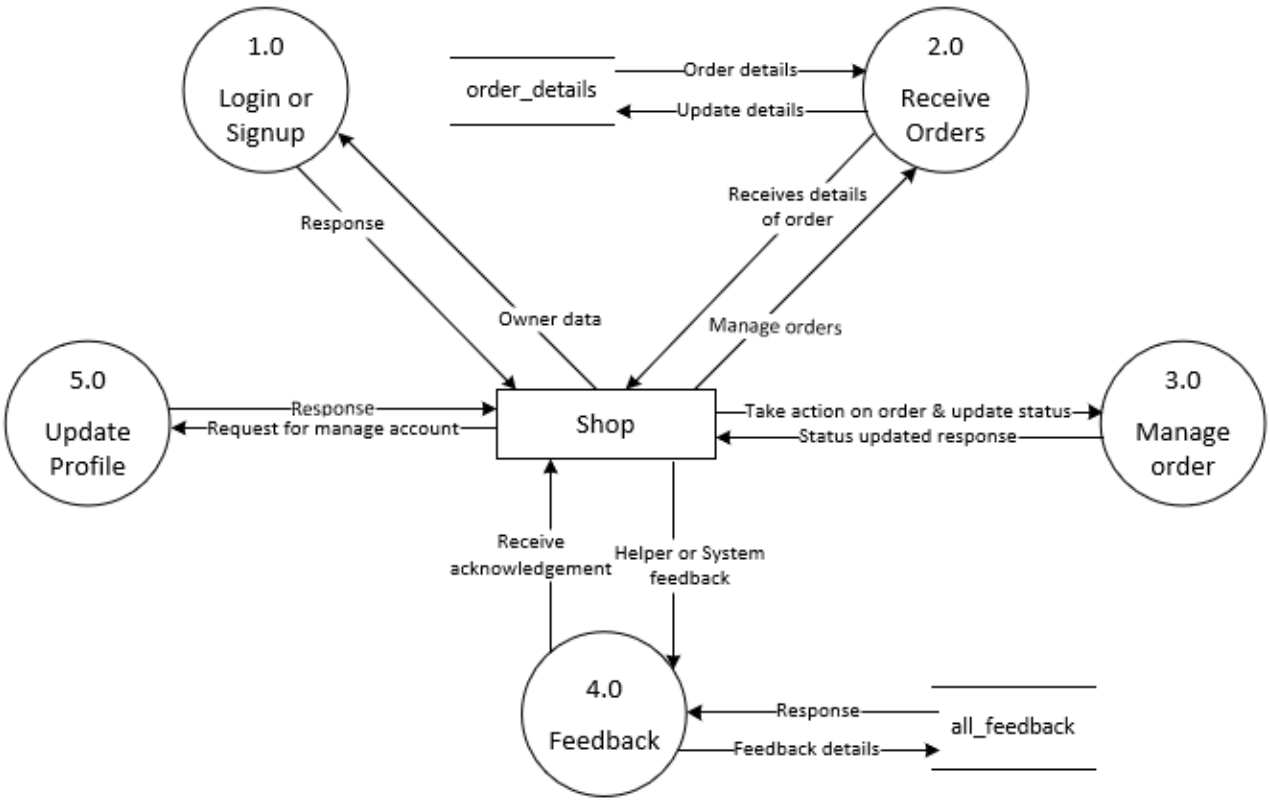


Fig 4.3 User side DFD level 1 & 2

Shop Side DFD Level 1:



Shop Side DFD Level 2:

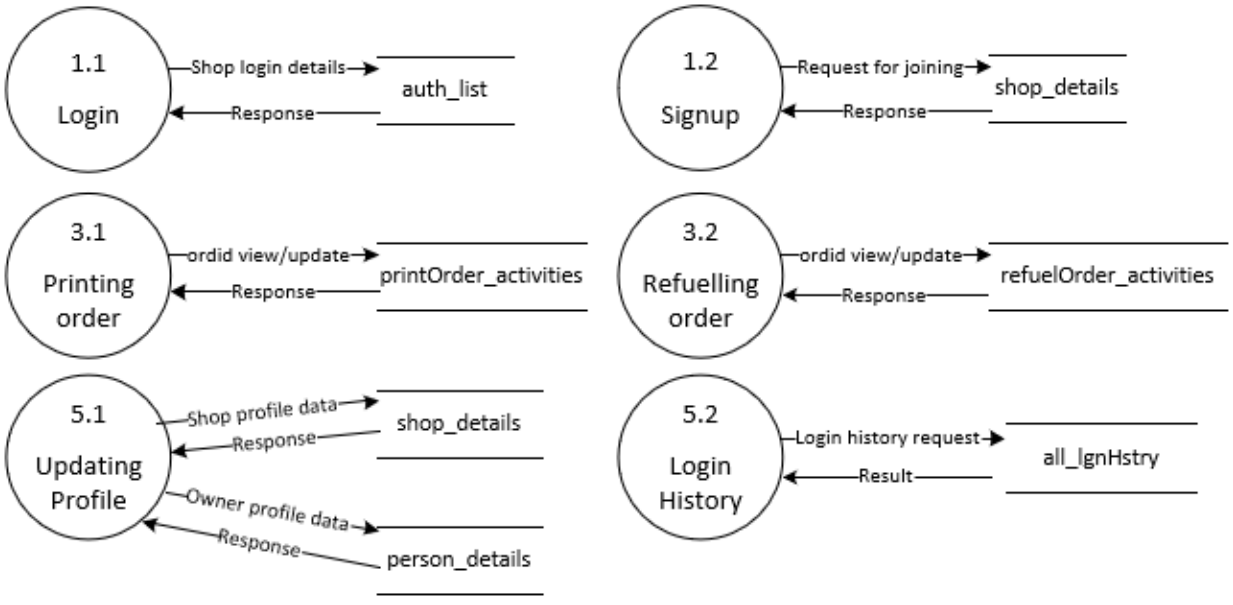
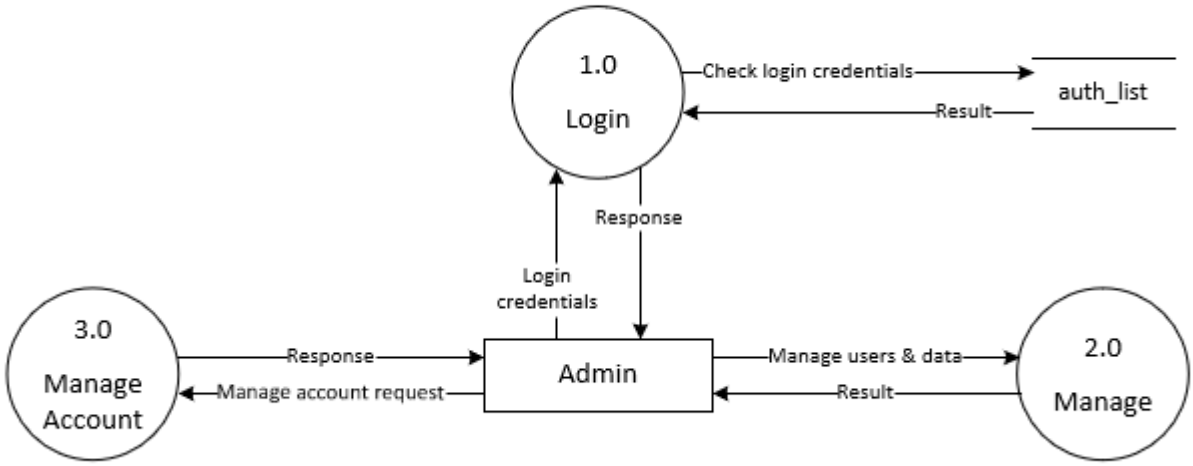
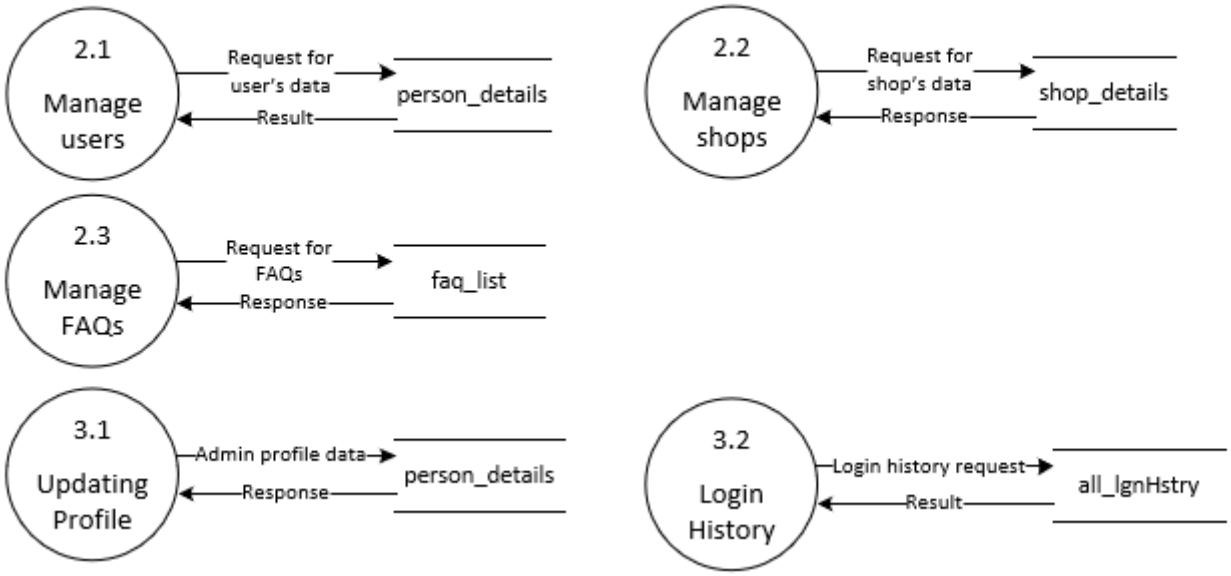


Fig 4.4 Shop side DFD level 1 & 2

Admin Side DFD Level 1:



Admin Side DFD Level 2:



Admin Side DFD Level 3:

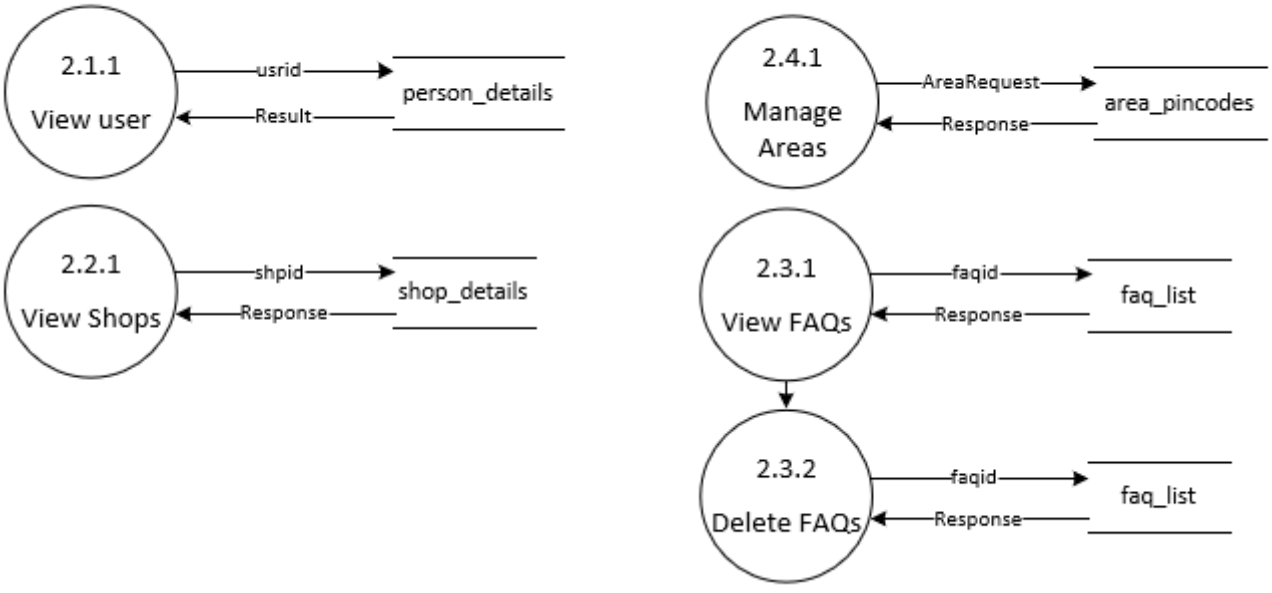


Fig 4.5 Admin side DFD level 1, 2 & 3

4.3 Entity Relational Diagram:

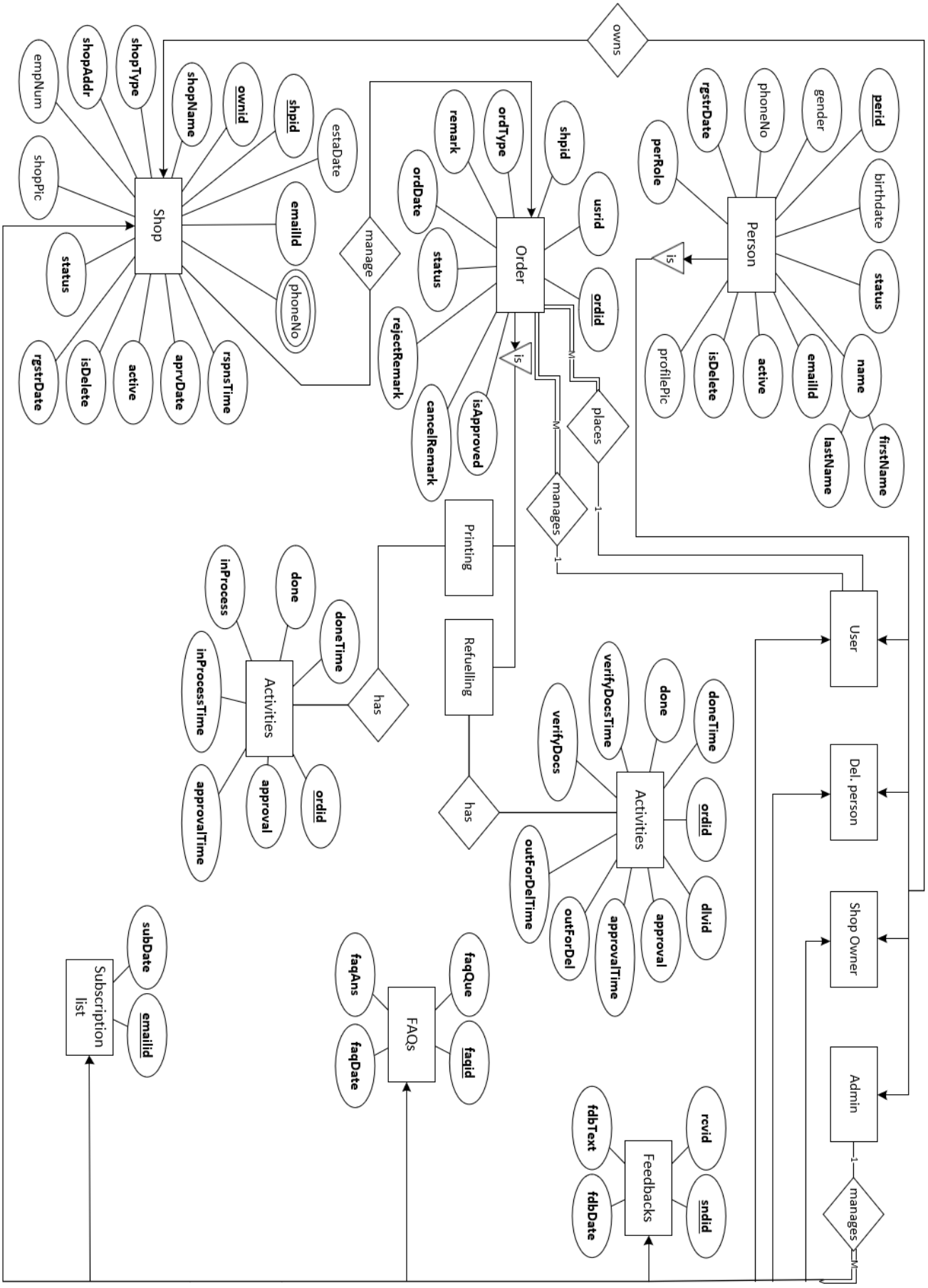


Fig 4.6 ER Diagram

4.4 User case diagram:

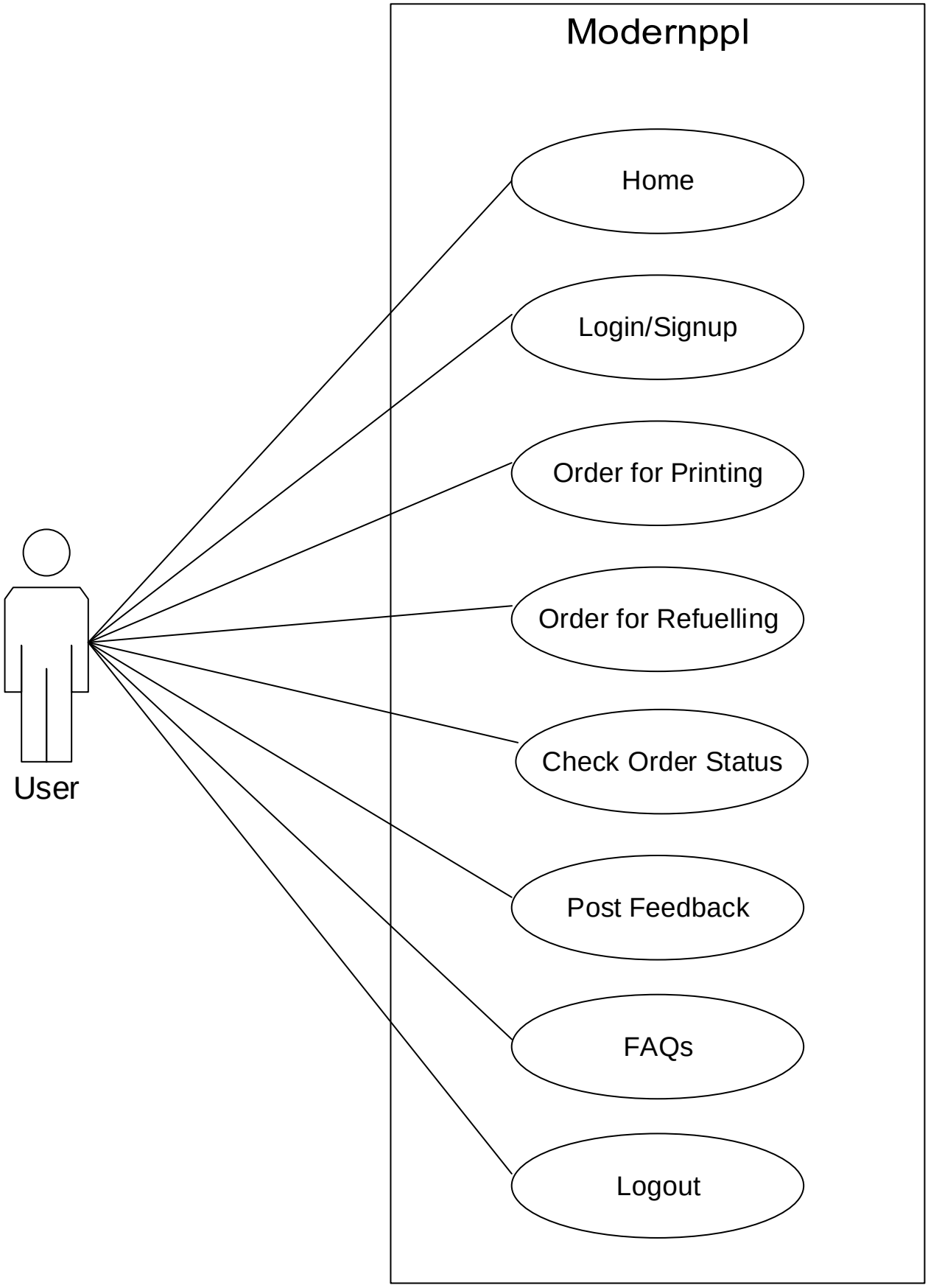


Fig 4.7 User use case Diagram

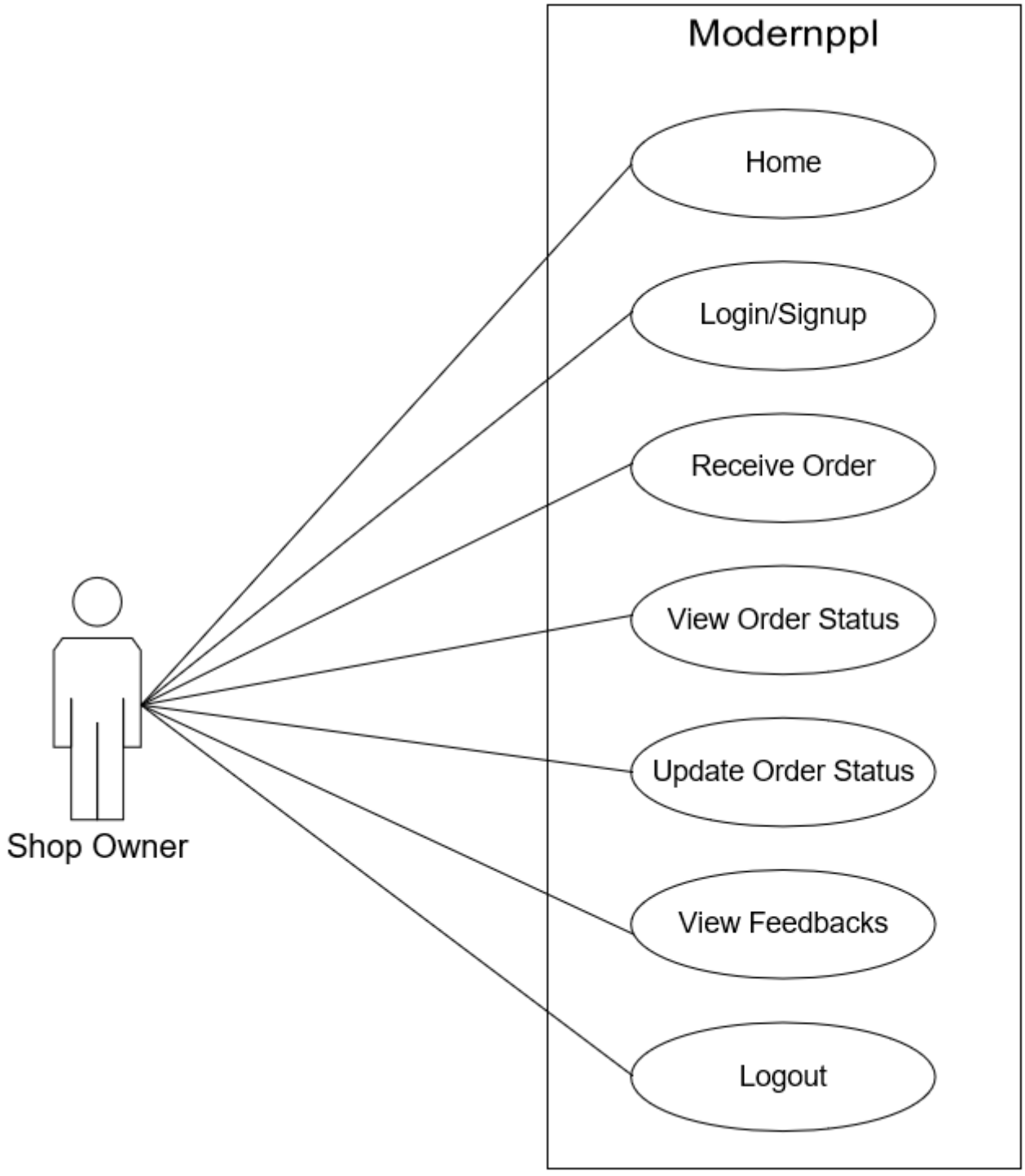


Fig 4.8 Shop Owner use case Diagram

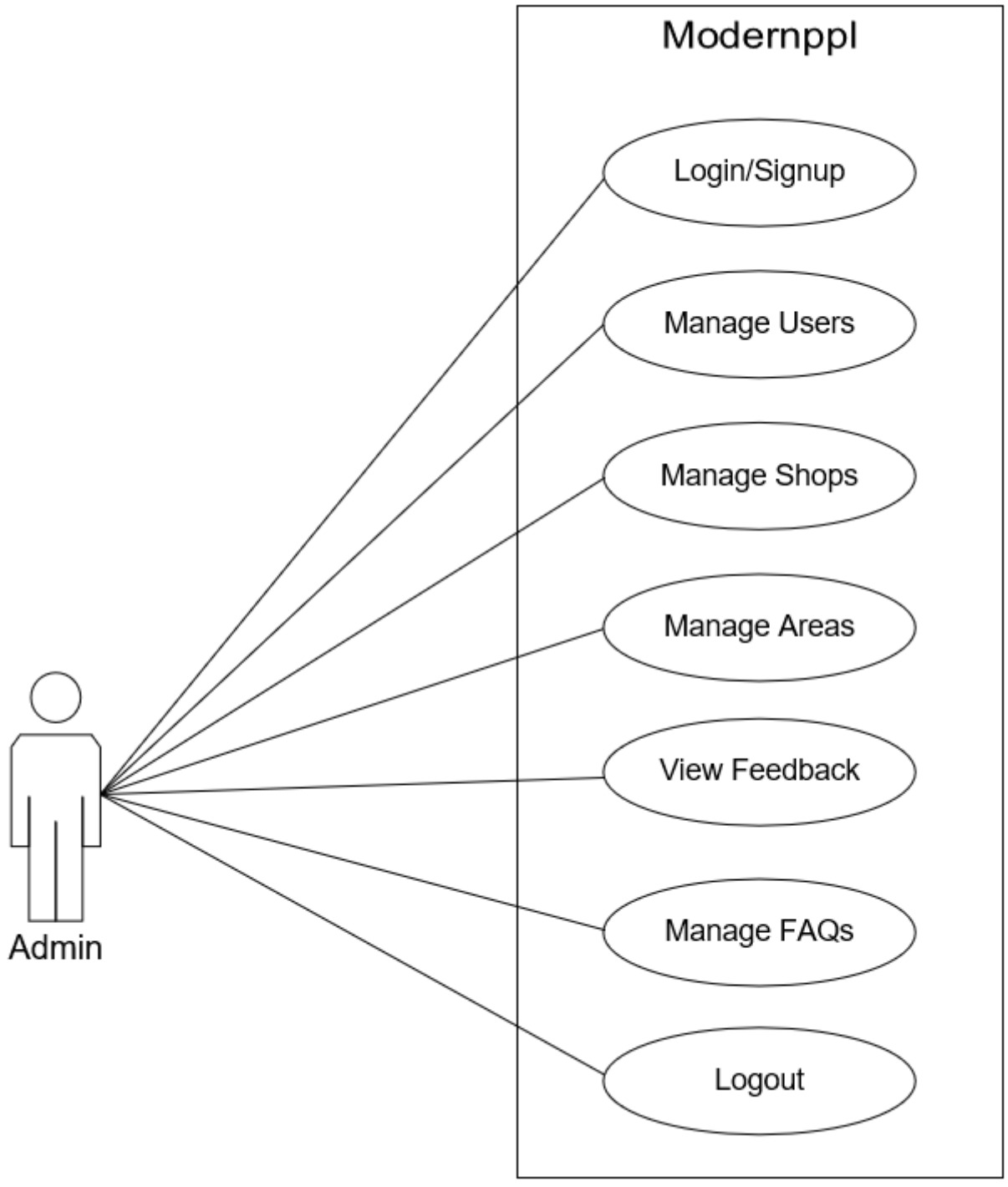


Fig 4.9 Admin use case Diagram

4.5 Data Dictionary:

Database name: **modernppl**

Tables:

Table : 4.1 activity_logs:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	Create a user id
perid	varchar(50)	--	Create a personal id
logText	Text		Login detail
alertUser	varchar(50)		Alert user to login
logDate	timestamp		Login date and time

Table : 4.2 all_feedback:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User Id
sdrid	varchar(50)		
rcvid	varchar(50)		
fdbText	Text		Feedback text
fdbDate	timestamp		Feedback date

Table : 4.3 all_frgthstry:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
perid	varchar(50)		Personal id
isReset	boolean		Reset flag
lgnDate	timestamp		Login date

Table : 4.4 all_lgnhstry:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
perid	varchar(50)		Personal id
platform	Text		Platform details
browser	Text		Browser details
address	Text		Address of login
ipAddr	text		IP Address
lgnDate	timestamp		Login date

Table : 4.5 area_pincodes:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
pinCode	varchar(50)	Unique key	Pincode of area or city
areaName	varchar(50)		Area Name
cityName	varchar(50)		City Name
stateName	varchar(50)		State Name
pinStatus	boolean		Pin Status
pinDate	timestamp		Pin date

Table : 4.6 auth_list:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
emailid	varchar(200)	Unique key	Email id of user
passwd	varchar(200)		Password of user

Table : 4.7 faq_list:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
faqid	varchar(50)	Unique key	FAQ id
faqQue	text		FAQ Question
faqAns	text		FAQ Answer
faqDate	timestamp		FAQ Date

Table : 4.8 order_details:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
ordid	varchar(50)		Order id
usrid	varchar(50)		User id
shpid	varchar(50)		Shop id
secPin	varchar(50)		Secret pin
remark	text	Null	Order remark
ordCost	float(6,2)		Order Cost
ordDate	timestamp		Order Date
isApproved	boolean	Null	Approval flag
rejectRemark	text	Null	Reject reason
cancelReason	text	Null	Cancel reason

Table : 4.9 payment_hstry:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
payid	varchar(50)		Payment id
usrid	varchar(50)		User id
ordid	varchar(50)		Order id

Table : 4.10 person_details:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
perid	varchar(50)	Unique key	Personal id
emailid	varchar(200)	Unique key	Email id
firstName	varchar(30)		First Name
lastName	varchar(30)		Last Name
gender	boolean		Gender
birthdate	date		Birthdate
phoneNo	text		Phone number
profilePic	varchar(50)		Profile picture
rgstrDate	timestamp		Register date
perRole	varchar(10)		Person Role

isActivated	boolean		Activated Status
isOnline	boolean		Online Status
isDelete	boolean		Delete user Status

Table : 4.11 printorder_details:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
ordid	varchar(50)	FK (order_details)	Order id
printFile	varchar(200)		PDF file path
totalPgNum	int(5)		Total pages of PDF
printPgNum	text		Pages to print
paperSize	varchar(20)		Paper size
colorMode	varchar(15)		Print colour type
sideMode	varchar(15)		Paper side
numCopies	int(3)		Number of copies

Table : 4.12 printpaper_pricelist:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
shpid	varchar(50)	FK (order_details)	Shop id
paperType	varchar(20)		Paper type
colorMode	varchar(10)		Color mode
sidemode	varchar(10)		Side mode
paperPrice	float(5,2)		Paper Prize
addDate	Timestamp		Add date

Table : 4.13 print_activities:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
ordid	varchar(50)	FK (order_details)	Order id
approval	boolean		Approval flag
approvalTime	timestamp		Approval Time
inProcess	boolean		In process flag
inProcessTime	timestamp		In process time
done	boolean		Done flag
doneTime	timestamp		Done Time

Table : 4.14 refuelorder_details:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
ordid	varchar(50)	FK (order_details)	Order id
numPlate	text		Number plate in text
vehicleModel	text		Model no of vehicle
vehicleType	varchar(15)		Type of vehicle
perFullName	varchar(80)		Person full name
deliveryAddr	text		Delivery address
aadharNum	text		Aadhar number
aadharImg	text		Aadhar card image
rcNum	varchar(10)		RC number

Table : 4.15 refuel_activities:

Column name	Data type	Constraint	Description
Id	int(6)	Primary key	User id
ordid	varchar(50)	FK (order_details)	Order id
dlvid	varchar(50)		Delivery id
approval	boolean		Approval flag
approvalTime	timestamp		Approval time
outForDel	boolean		Out for delivery flag
outForDelTime	timestamp		Out for delivery time
verifyDocs	boolean		Docs verified flag
verifyDocsTime	timestamp		Docs verified time
done	boolean		Done processs
doneTime	timestamp		Done Time

Table : 4.16 refuel_charges:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
shpid	varchar(10)		Visitors platform
wheel2	float(6,2)		Browser of visitors
wheel3	float(6,2)		Address
wheel4	float(6,2)		IP address
wheel4p	float(6,2)		Visiting Date

Table : 4.17 shop_details:

Column name	Data type	Constraint	Description
Id	int(6)	Primary key	User id
Shpid	varchar(50)	Unique key	Shop id
emailid	varchar(200)	Unique key	Email id
shopName	varchar(50)		Shop Name
shopType	varchar(10)		Shop Type
estdDate	date		Establishment date
shopAddr	text		Shop Address
shopArea	varchar(50)		Shop Area
empNum	int(3)		number of employees
phoneNo	text		Phone no.
phoneNo2	text		Second Phone no.
rspnsTime	varchar(10)		Response time
ownFName	varchar(30)		Shop owner’s first Name
ownLName	varchar(30)		Shop owner’s last Name
ownEmail	varchar(100)		Owner’s email
shopThumb	text		Shop thumbnail path
rgstrDate	timestamp		Shop Registration Date
aprvDate	timestamp		Approval date
isActivated	boolean		Activated status
isOnline	boolean		Online Status
isDelete	boolean		Delete Shop

Table : 4.18 shop_emps:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
shpid	varchar(10)	Unique key	Shop id
empid	varchar(10)		Employee id

Table : 4.19 subscribe_list:

Column name	Data type	Constraint	Description
id	int(6)	Primary key	User id
emailid	varchar(200)	Unique key	Email id
subdate	Timestamp		Subscribe date

4.6 Study of current system:

The current system aims to provide the users to get their different works from a single application rather than using different application for their work. The current system provides working of different applications in a single application so that user finds easy to get their work done rather than going to different application for their work.

4.7 Features of New system:

This new application of our provide user to get their multiple works like repairing their device, printing their document and refuelling their vehicles from a single application rather than going to different application for their work.

- This new system provides user to give their thoughts.
- This new system will provide user to get their work done from their workspace rather that going to shops.

This system will bring offline work to online which is very useful in today's digital world.

Technical features of system:

01. Used Python framework for website deployment - Django
02. Created attractive UI with Bootstrap and JS (jQuery-AJAX)
03. Different JS plugins used
04. Domain divided in subdomains according to user roles (User, Shop, Admin)
05. JS disabled exception
06. Error keeping log file
07. Used triggers
08. Used event scheduler
09. Email notification when admin logged in
10. Keep record of user's browser, platform OS, IP addr & physical addr
11. CSRF, SQL injection proof
12. Prevent unauthorized access
13. 2-layer cryptography using Base64 + AES
14. HTTPS website

4.8 System structure:

The new system is divided into three portals:

- **User portal:** Used by users who want to use services.
- **Shop portal:** Used by shop owners and employees to manage orders.
- **Admin portal:** Used by admin to manage system.

Domain hierarchy:

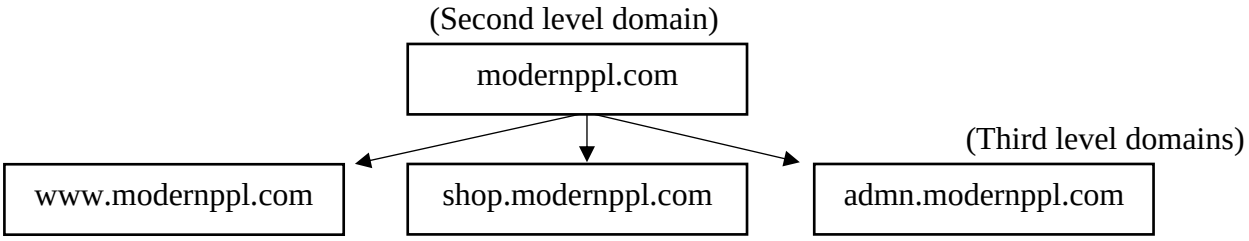


Fig. 4.10 Domain hierarchy

4.9 Screenshots of system:

The some screenshots of system are given below.
The link and the description about the use of webpage is also given there.

URL: https://modernppl.com/signup
Description: Used to sign up in system as user.

Fig 4.11 Signup screen

URL: https://modernppl.com
Description: Home page of user portal.

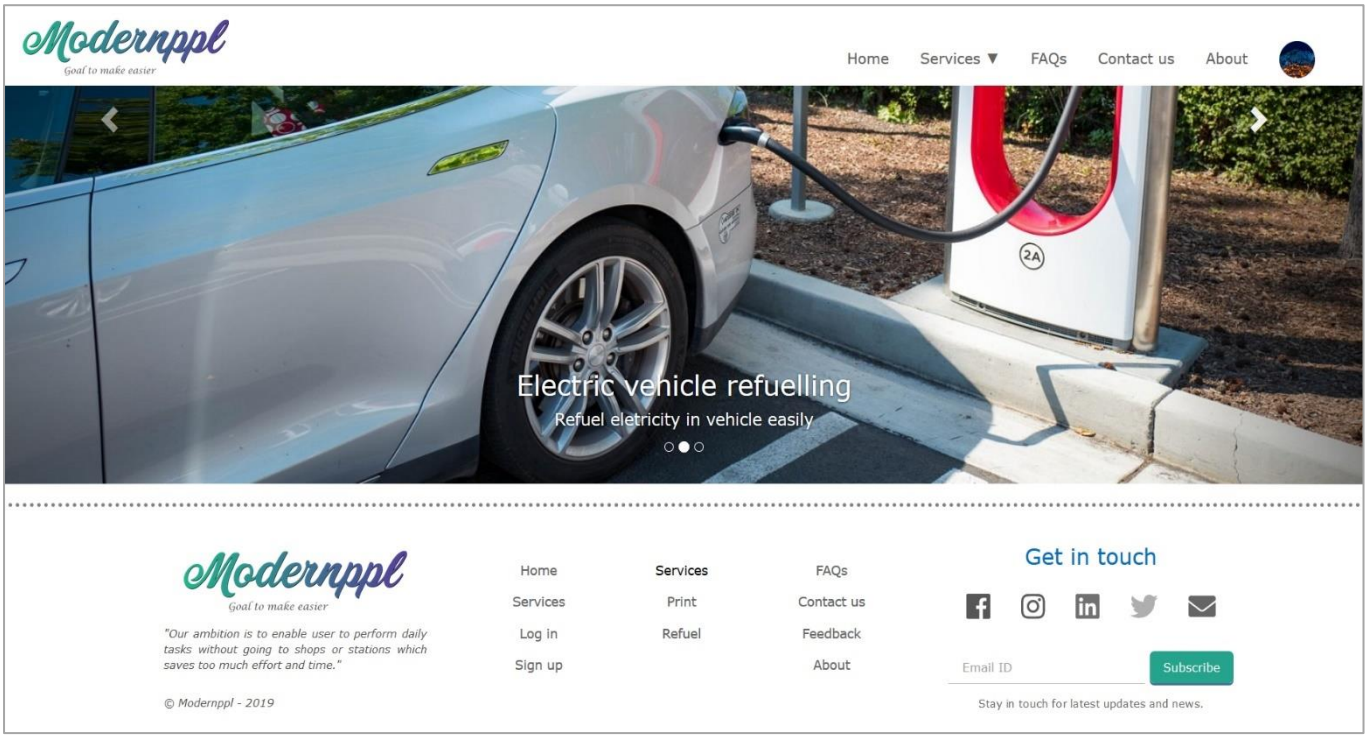


Fig 4.12 Homepage screen

URL: https://modernppl.com/service/print
Description: Print service page of user portal.

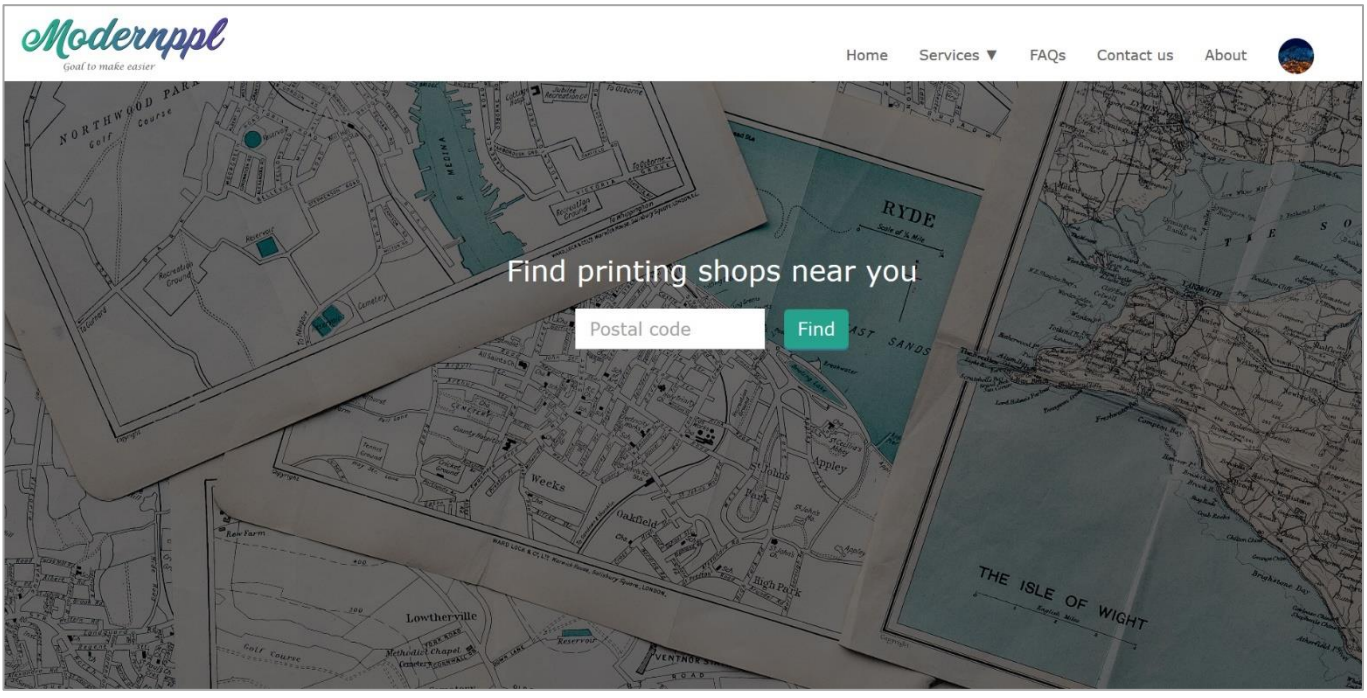


Fig 4.13 Print service homepage

URL: https://modernppl.com/service/print
Description: Overview of Print service page of user portal.

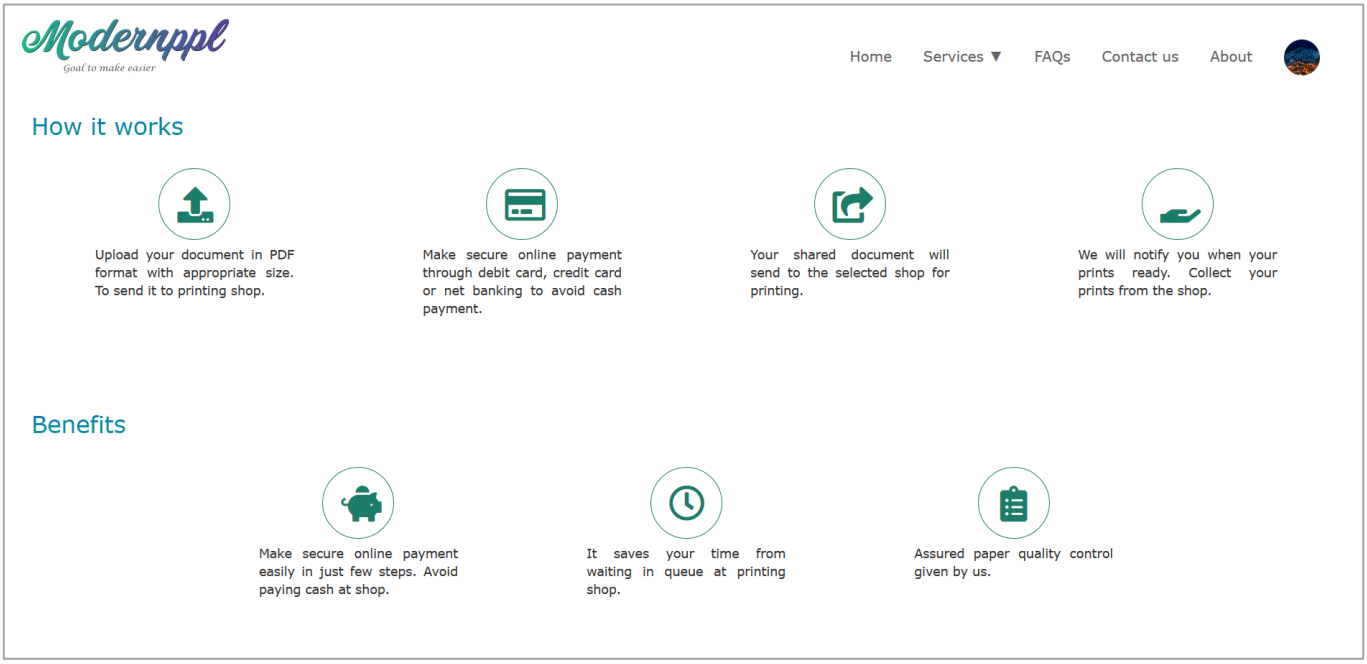


Fig 4.14 Print service overview

URL: https://modernppl.com/service/print/upload
Description: Print service file upload webpage of user portal.

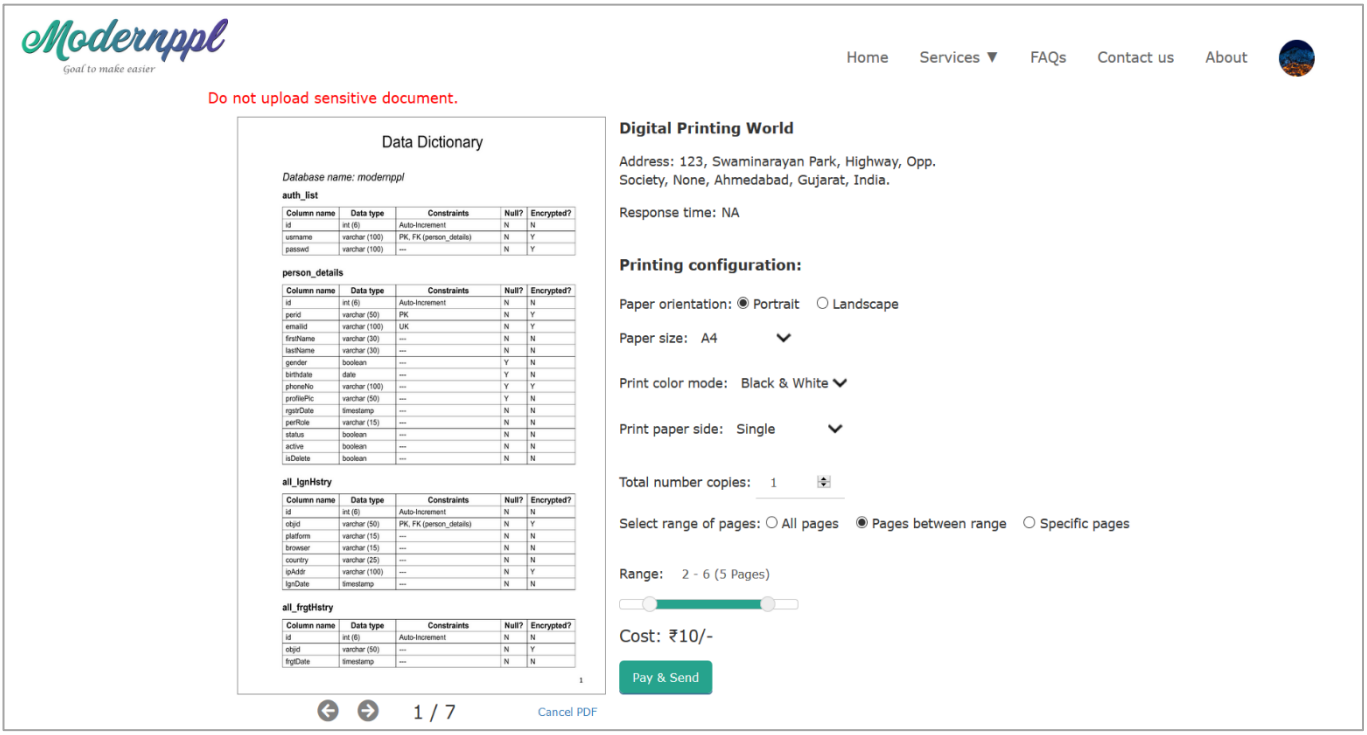


Fig 4.15 Document upload page

URL: https://shop.modernppl.com/orders
Description: Order management page of shop portal.

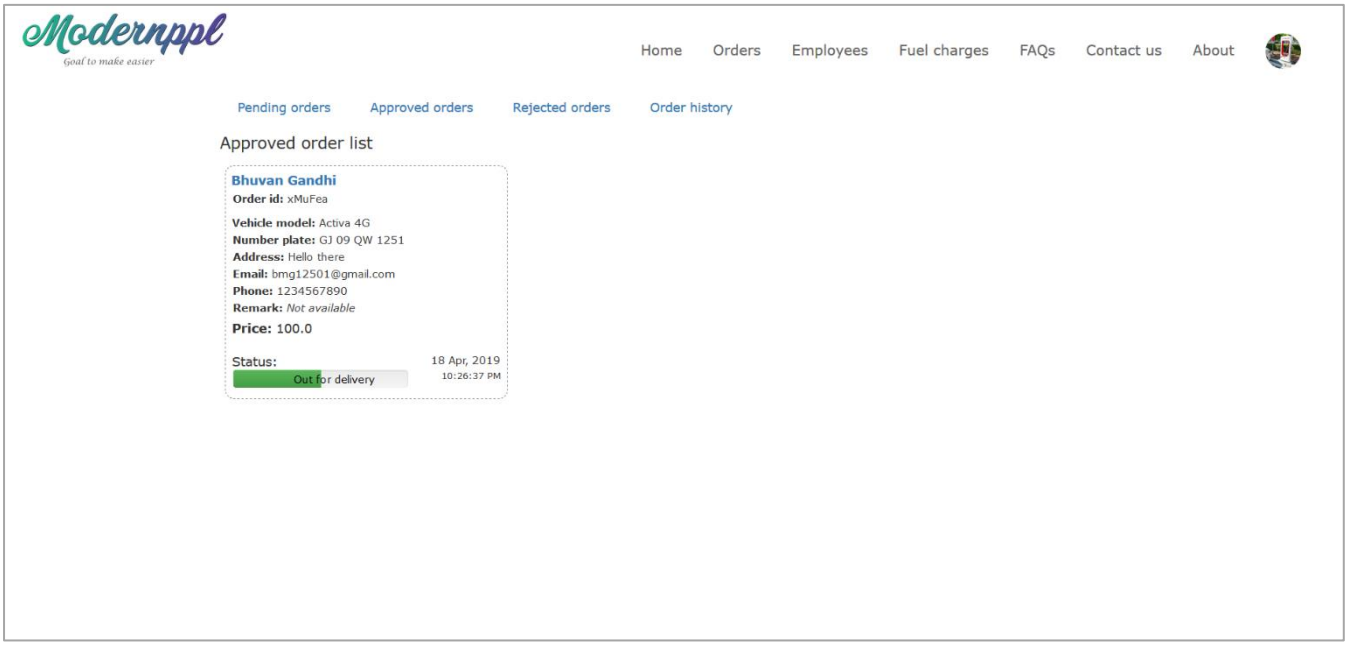


Fig 4.16 Order status page in shop portal

URL: https://admn.modernppl.com/shops
Description: List of shops in admin portal.

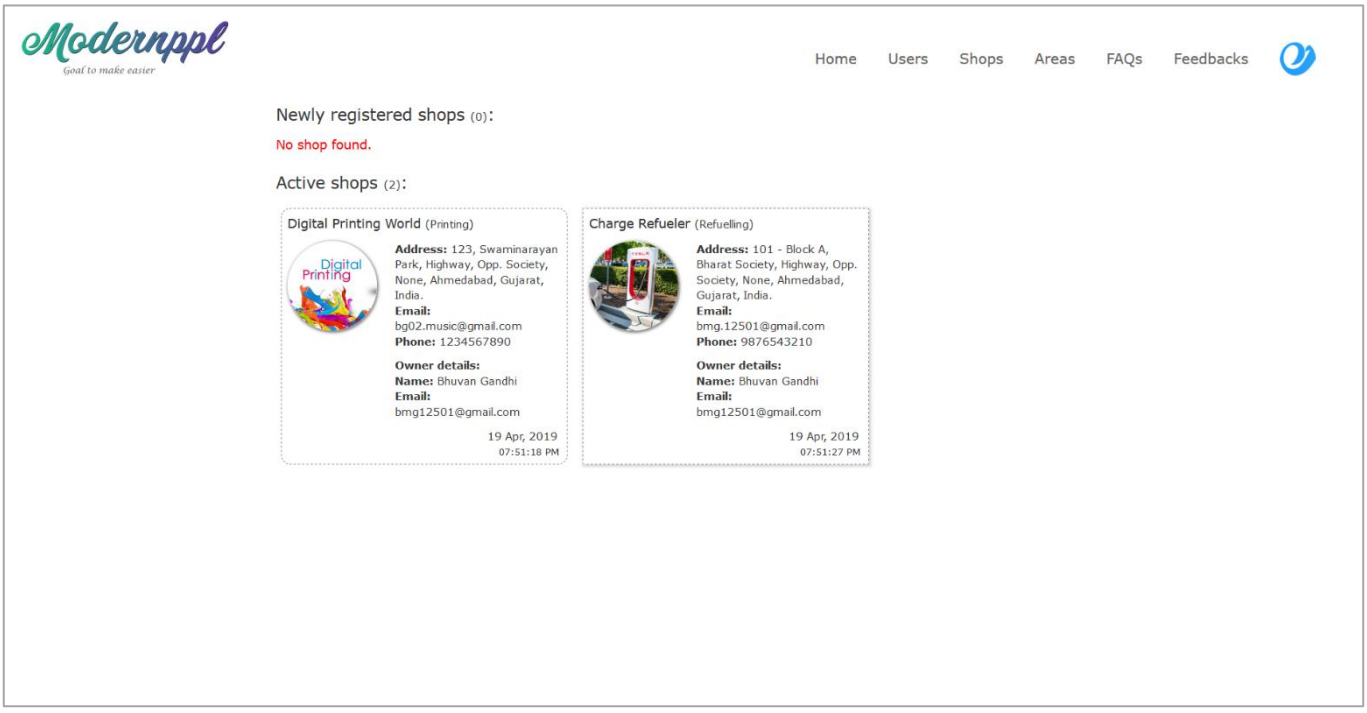


Fig 4.17 Shop list page in admin portal

URL: https://admn.modernppl.com/users
Description: Users list in admin portal.

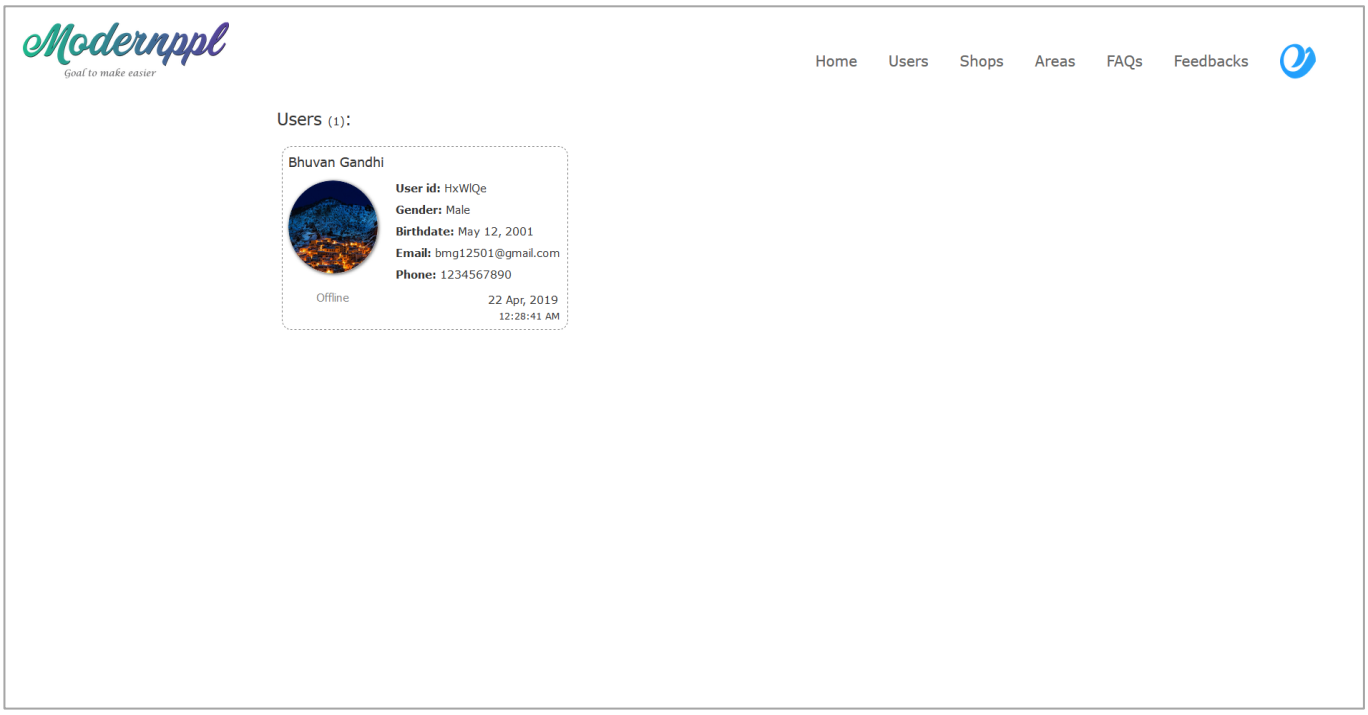


Fig 4.18 Users list in admin portal

URL: https://modernppl.com/about
Description: About page of system.

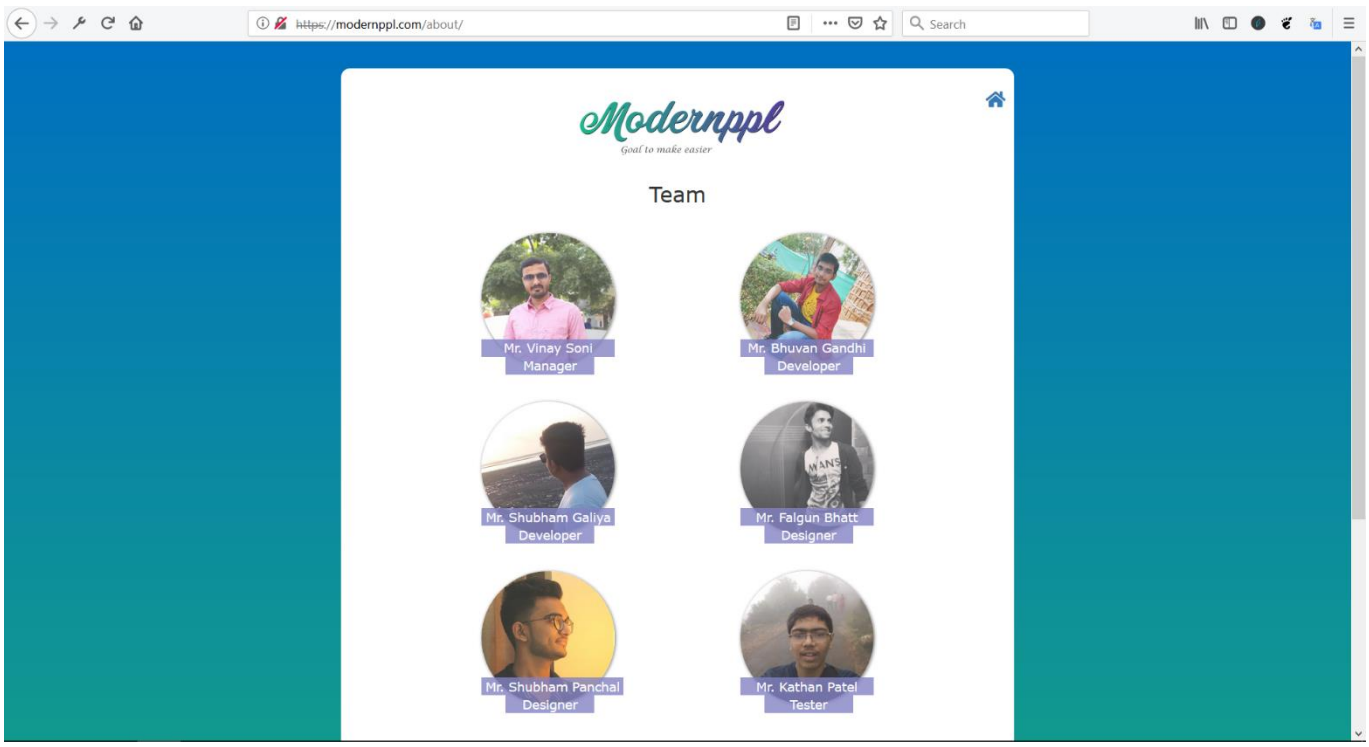


Fig 4.19 About page in system

5.0 Testing

5.1 Test planning:

Testing planning is carried out in following three stages:

- Design
- Implementation
- Coding

Design Testing: The design errors are to be rectified at initial stage. Such errors are very difficult to repair after execution of software.
Implementation Testing: The errors at this stage can't be overlooked because such errors do not allow the further process.
Coding Testing: The coding procedure plays significant role in software designing. The improper coding of any software can generate inconsistent result. Such error may occur due to incorrect syntax or false logic. If the error at coding stage remain unnoticed may give rise to grave failure to system.

5.2 Testing strategy:

A strategy for software testing integrates software test case design methods into a well-planned series of steps that result in successful construction of software. The strategy provides roadmap that describes steps to be conducted as part of testing, then these steps are planned and then undertaken and how much effort, time and resource will require.

5.3 Test cases:

Table : 5.1 Register page:

Test case	Data	Result	Report
First name field	Qwe rty, qwe12	Invalid name	Success
First name field	Qwe	Valid name	Success
Last name field	Qwe rty, qwe12	Invalid name	Success
Last name field	Qwe	Valid name	Success
Email field	root@adm	Invalid email	Success
Email field	root@adm.com	Valid email	Success
Password field	qwe@1234	Invalid password format	Success
Password field	qWe@1234	Valid password format	Success

Table : 5.2 File uploading on Print page:

Test case	Data	Result	Report
Uploading Non JPG/PNG file	Photo.gif	Invalid image format	Success
Uploading JPG/PNG file	Photo1.png	Valid image format	Success
Uploading non PDF file	Mydoc.docx	Invalid file format	Success
Uploading PDF file.	Example.pdf	Valid PDF file	Success

6.0 Conclusion & Future scope

6.1 Limitations:

- When user shares document with printing shop then the document security can be break.
- All printing shops, refuelling stations & repairing shops must have the devices to operate with the system.
- User can upload only PDF file for printing.
- User can upload only PDF file which is less than 25MB.

6.2 Conclusion:

The speed is required to implement this system because the system is too large. The functionalities of system are common but it must be used from user and shop side. Before that, the shop owners must be joined in system environment.

6.3 Future scope:

- We can bring online various other offline activities for users.
- System generates employment.
- System layouts will be improved.
- Code will be optimized and system performance will be improved.
- Functionalities will be improved and we can bring another daily task online.

6.4 References:

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jQuery tutorials: https://jquery.com/ *(on 22 Dec, 18)*
jQuery components: https://jqueryui.com/ *(on 22 Dec, 18)*
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https://www.youtube.com/watch?v=F6-yJpPEpoE *(on 24 Dec, 18)*
Django & MySQL integration tutorial:
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Python modules: Django, logging, subdomain, mod-wsgi, mysql-connector, pyPdf2, pdf2Image, cryptoDome etc. *(on 4 Jan, 19)*
Etc.