



Department of Computer Science & Engineering
Independent University, Bangladesh



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Department of computer Science and Engineering

Internship Report

On

Client Management system

At

Telnet Communication Ltd



Submitted by,

Mir Afzalul Bashar, ID: 161018

Submitted to,

Sabrina Alam, Lecturer,

Department of Computer Science & Engineering,

Submission Date:

Semester: Autumn 2020



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Declaration

I certify that this is an original work done by me and it has not previously been submitted for any assessed qualification. However, the use of material from other sources has been fully acknowledged in the text, and I know the consequences of copying in any part of an examination.



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Letter of Transmittal

15th January 2021

Sabrina Alam

Lecturer,

Department of Computer Science & Engineering,

School of Engineering & Computer Science,

Independent University, Bangladesh

Subject: Submission of Internship Report for the completion of Graduation.

Dear Madam,

It gives me great pleasure to submit a report on “Web Development Activities of Telnet Communication Ltd”. I started my internship on 8th November 2020 and have completed my internship at Telnet Communication Limited.

In preparation for this internship report, I have followed the instruction of my organization supervisor and at the same time, I tried to follow the guideline given by you. The main goal of my internship was to gain professional experience as a part of the firm.

Thank you for your kind cooperation.

Sincerely,

Mir Afzalul Bashar, 1610188

Email: mirafzalulbashar@gmail.com



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Acknowledgement

At first, I would like to thank Almighty Allah to enabling me to complete this report on “Client management system”.

I express my gratitude to the Telnet Communication Ltd and Mr. Rohimul Hossain Shepon, Senior Software Developer for giving me a break to work with them and make the best of my internship. It has been my honor to have worked with certain individuals at Telnet Communication Ltd. I would like to thank whole software development department of the organization for helping and supporting me during my internship period.

I specially thank my academic supervisor, Ms. Sabrina Alam, Lecturer, Department of Computer Science & Engineering, for constant guiding and supporting me throughout my internship.

I would like to thank my university, Independent University, Bangladesh for being constant driving force to put to practice, I am very fortunate to have guidance of the honorable faculties throughout my bachelor program which help me a lot to make this report.



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Abstract

My project is Telnet's Client Management System. This is a website through which Telnet will be able to conduct business with client smoothly. This portal is a solution, providing users with an opportunity to keep buy and sales record. Telnet Client Management System is an online platform which deals with both new and old clients.

This website basically has two section. The first section includes the client and the second section includes the admin.

The registered customer will be able to view details about the services they will be taking from the company Telnet communication Ltd.

The admin will be in control of most of the things and have the ability to create, read, update and delete.



1.0 Introduction

Telnet communication is a corporate company that gives a total solution by providing software, and setting up total internet system for an organization. Telnet operates all over Bangladesh and they have a huge client base and popularity. It has a family of more than six thousand members and counting.

1.1 Company Profile

Name of the Company	Telnet Communication Limited.
Predecessor	Sister concern of Nourish.
Shareholders	Khaled Group of Industries.
Key People	CEO Saiful Khaled Sajib
Head Office	House 39(8 & 9 th floor), Sonargaon Janapath Road, Sector 7, Uttara, Dhaka 1230, Bangladesh.
Major Competitors	Amber IT, Infolink.
Service Network	Within Bangladesh.
Corporate Website	www.telnet.com.bd .

Table 1: Telnet Communication Ltd Profile.



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1.1.1 Vision, Mission and Objective

Vision

Telnet communication is a corporate company that gives a total solution by providing software, and setting up total internet system for an organization. Telnet operates all over Bangladesh and they have a huge client base and popularity. It has a family of more than six thousand members and counting.

Mission

Telnet communication is dedicated to deliver best-in-class client care for Telnet Customers through world class technology, procedures and response mechanisms.

Objective

1. Providing satisfactory resources.
2. Active customer communication.
3. Empower employees towards commitment to quality.
4. Continuous enhancements based on self and customer assessment.
5. Responsive to changes in technology, society and environment.



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1.1.2 Corporate divisions

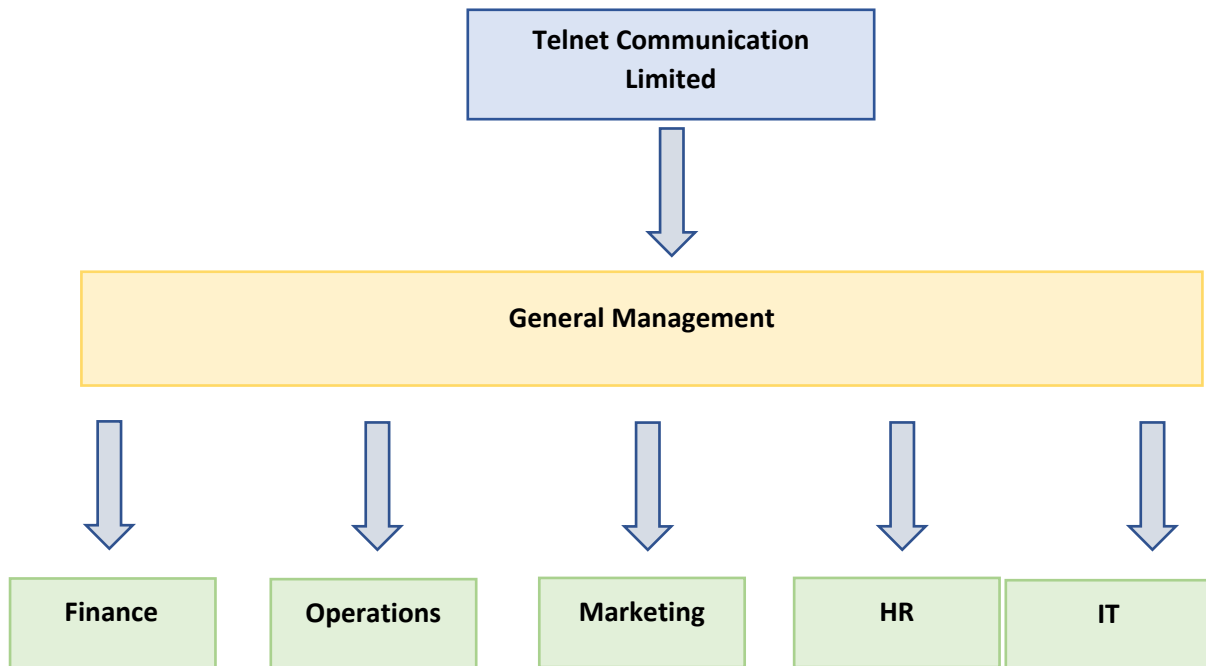


Figure 1: Corporate Divisions of Telnet Communication Ltd.

1.1.3 Operation details

Finance Department: The Finance department is one of the vital pillars of a company and crucial to a successful business. Responsibility of the finance department is:

- Keep records and reports
- Controls of finance
- Financial planning
- Risk Management
- Treasury



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Operations Department: The main responsibility of operations department is to ensure that projects are executed efficiently. It means that the department has to perform different strategic functions. Some of the functions are:

- Product Design
- Predicting events that will occur in the future
- Delivery Management

Marketing Department: The marketing department takes care of the company's face; responsibility of marketing department is to promote business of the company and create a positive image in the market. Some of the duties of marketing department are:

- Defining brand of the company
- Product Marketing
- Monitor and managing
- Create Content

Human Resource Department: The human resource department is responsible for employee life cycle. Here are some of the function of human resource department.

- Recruit Candidates
- Process payroll
- Conduct disciplinary actions
- Update policies
- Benefit analysis

IT Department: IT department responsibility is to provide services to all employee who needs access to the company's systems, some other functions of the IT department are:

- Application Development
- Manage company's website
- Technical support
- Maintain network system



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2.0 Background of the Project

Telnet Communication is a total internet solution provider to corporate organization, currently focused on internet services. Telnet provide services like web development, mobile application development, search engine optimization and cyber security etc. Telnet communication has a wide range of client spread throughout the country.

As the number of Telnet communication's client is increasing day by day the responsibility of the company for the clients is also increasing. To provide equal service to all of their client, Telnet communication decided to build an online portal so that they can provide seamless services to their client.

Telnet communication used to conduct business and keep records manually, which is very inconvenient and time-consuming process.

Telnets communications new system is going to ease and accelerate the whole business process which will help built a healthy relation with the clients.

The new system provides real-time information and can be accessed anytime by authorized person.



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2.1 Project Objective

- **Improve Customer Satisfaction:** Provide good services to the customer, happy customers are loyal customers and these loyal customers are invaluable to Telnet communication.
- **Track customers' status:** Keeping customers' record of each customer is crucial for the telnet communication so that on the basis of the status company can act.
- **Customer profile:** Every customer will have their own profile where they can view the service history.
- **Permission control:** Telnet communication's administration will be able to set different controls for different users.



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2.2 Scope of the Project

Features of telnet communication client management system:

- A home pages
- Authentication page for client and admin
- Dashboard for client and admin
- A side panel which navigates to different functions
- Services section (add, delete, update, read)
- Add clients
- View invoices
- Generate sales report
- Search client



3.0 Literature Review

3.1 Relation with Undergraduate Studies

There are several courses I was taught in Independent University, Bangladesh. Some of the courses have immense impact on the project client management system. Courses like database management, this course is the base of client management system. In this course I learned how to make plan, develop rich pictures, create entity relation diagram, business process model and notation diagram and many more.

Another course was system analysis and design, which gave an overview of different software development life cycle, there was another course software engineering, this course was optional. Software engineering course gives an in-depth knowledge about SDLC and how to implement in a project.

User interface is very crucial for any kind of software, web application and internet course taught me how to develop a web application. This course cover very important technologies that are highly in demand such as HTML, CSS, JavaScript, jQuery, Php and bootstrap, through this course I learned how to connect front end with backend and establish back end server. The work I did in project Telnet communication client management system reflects everything from this course.

3.2 Related Works

Telnet communications' own office management system, it is a system that manages internal day to day conducts of the company for example it provides real-time information about finance, order management, purchase, inventory, employee management etc.

Another project that I built was a portal for University grant commission, it was an academic project given under the course database management system.



4.0 Methodology

4.1 Software Development Process

Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality software. The SDLC aims to produce a high-quality software that meets or exceeds customer expectations, reaches completion within times and cost estimates. It is also called as Software Development Process. (Anon., n.d.)

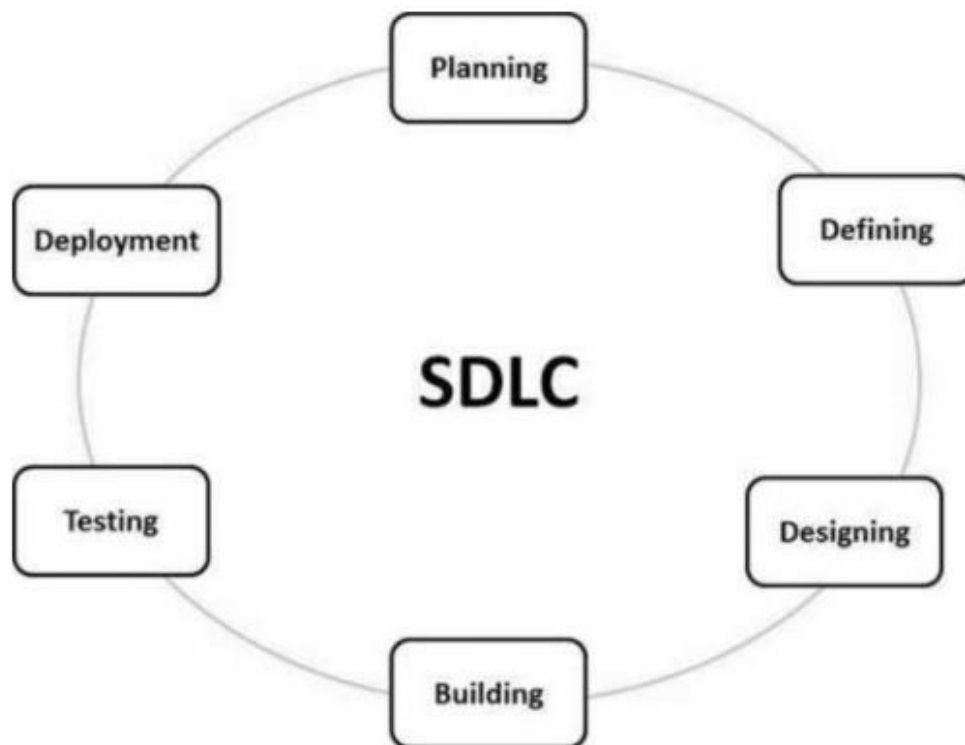


Figure 2: Stages of a typical SDLC.

4.2 Prototyping

Prototyping is defined as the process of developing a working replication of a product or system that has to be engineered. It offers a small-scale facsimile of the end product and is used for obtaining customer feedback as described below:

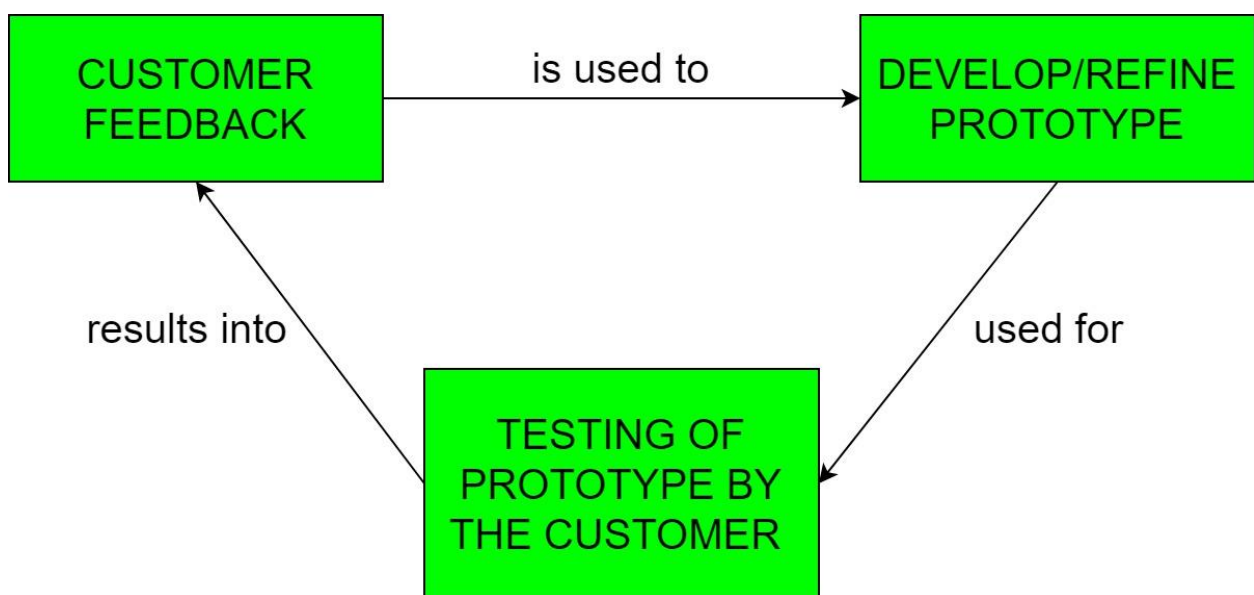


Figure 3: Stages of prototyping model

The Prototyping Model is one of the most popularly used Software Development Life Cycle Models (SDLC models). This model is used when the customers do not know the exact project requirements beforehand. In this model, a prototype of the end product is first developed, tested and refined as per customer feedback repeatedly till a final acceptable prototype is achieved which forms the basis for developing the final product. (Anon., n.d.)



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4.2.1 Extreme Prototyping

This method is mainly used for web development. It is consisting of three sequential independent phases:

1. In this phase a basic prototype with all the existing static pages is presented in the HTML format.
2. In the 2nd phase, Functional screens are made with a simulate data process using a prototype services layer.
3. This is the final step where all the services are implemented and associated with the final prototype.

This Extreme Prototyping method makes the project cycling and delivery robust and fast, and keeps the entire developer team focus centralized on products deliveries rather than discovering all possible needs and specifications and adding unnecessitated features. (Anon., n.d.)

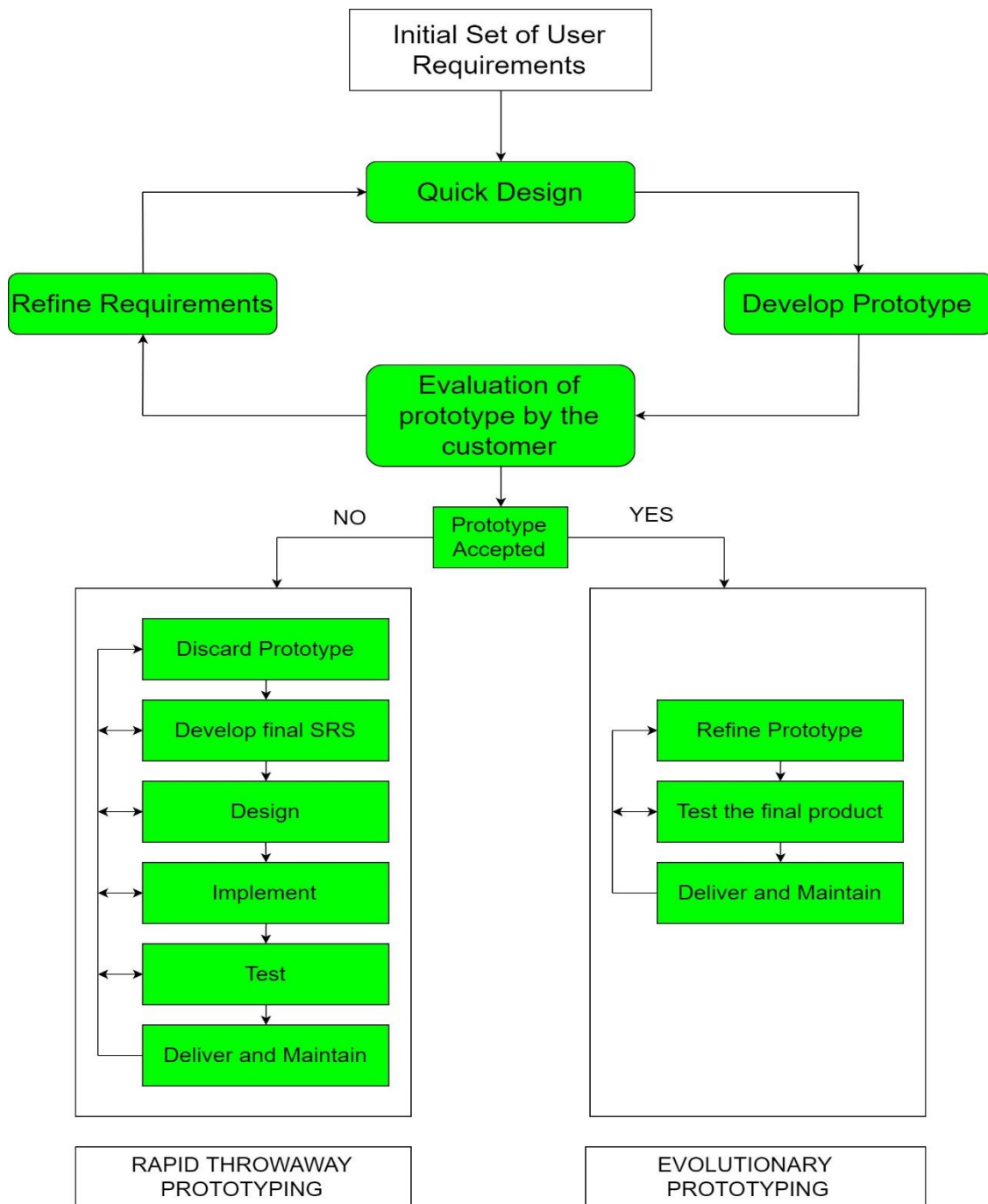


Figure 4: Stages of Extreme Prototyping



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Advantage of Extreme Prototyping

1. Early in the life cycle, the clients get to see the partial object. This guarantees a greater degree of satisfaction and convenience for customers.
2. As there is space for refinement, new criteria can be easily accommodated.
3. It is easy to find out missing functionalities.
4. Errors can be found much earlier, thereby saving a lot of time and expense, in addition to improving the software's quality.
5. For more complex projects in the future, the built concept will be reused by the creator.



5.0 Body of the Project

5.1 Requirement Analysis

5.1.1 As Is Rich Picture

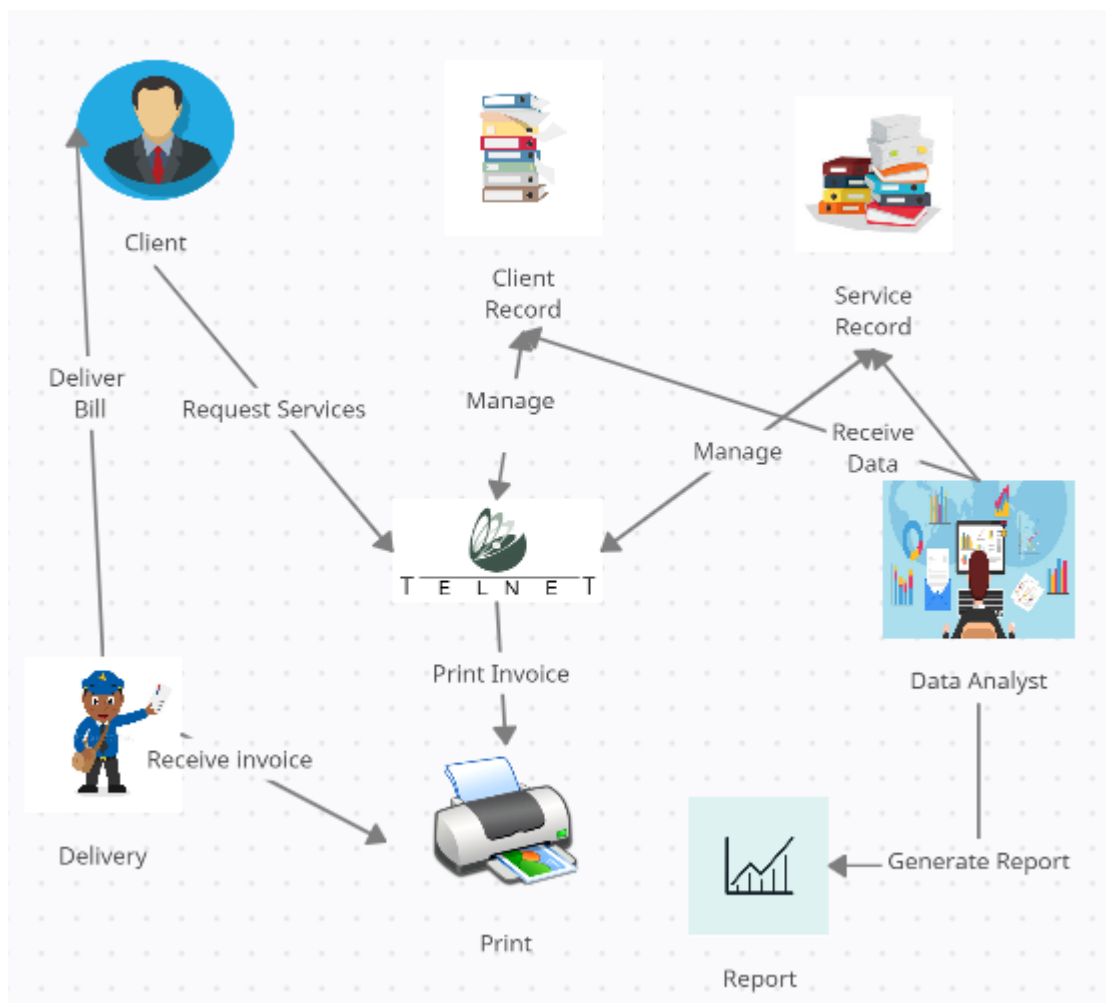


Figure 5: Rich picture of existing system



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5.1.2 Existing Six Element Analysis

<i>process</i>	<i>Human</i>	<i>Non-computing hardware</i>	<i>Computing Hardware</i>	<i>Software</i>	<i>Database</i>	<i>Comm & Network</i>
Manage Client Record	Manager	Flies	N/A	N/A	N/A	N/A
Manage Services	Manager	Files	N/A	N/A	N/A	N/A
Print Invoice	Administrator	Printer/paper	Laptop/PC	PDF/Doc	N/A	N/A
Deliver invoice	Deliver man	N/A	N/A	N/A	N/A	N/A
Request Service	Client	N/A	Mobile/PC	Email	N/A	Internet
Generate Report	Data Analyst	Files/Records	PC/Mobile	Excel	N/A	N/A

Table 2: Six Element Analysis of Existing System.



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5.1.3 Existing System

Existing system is functioned fully manually, records of client, records of services are all kept in paper documents. If one need to access the details of any client or services, one has to go through every file and find it.

In existing system if a client wants a service from us then the client has to call or email us and let us know what services client wants. Then service department will process and analyze the client's requirement. After process service department notify accounts to create an estimate bill, then accounts contact the client and let know of the estimate charge. If the client confirms the services then the work process starts. After the work is done the final invoice is sent to the client by delivery man.

Same goes for data analyst, data analyst has to go through every file and transfer the data to excel and then he is able to generate reports.

5.1.4 To-be Rich Picture

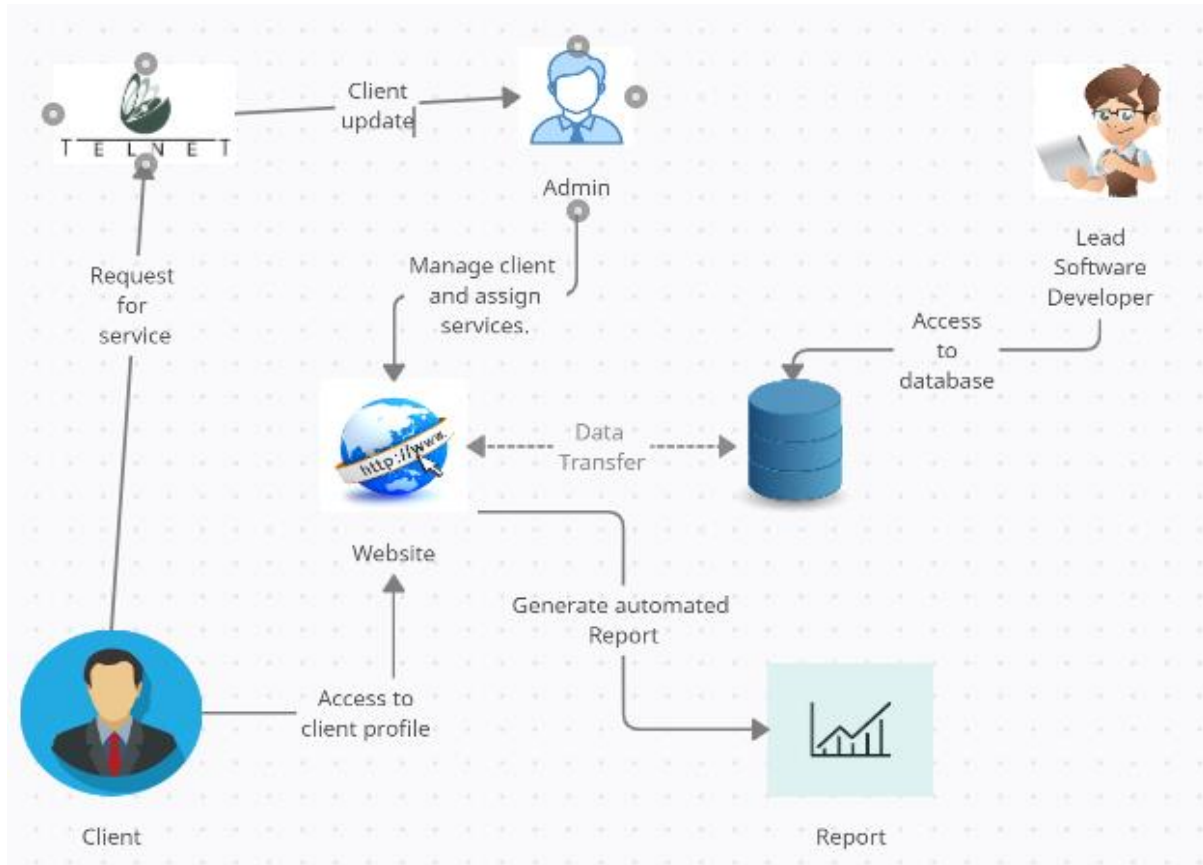


Figure 6: Rich Picture of Proposed System



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5.1.5 Six Element Analysis of to be system

<i>process</i>	<i>Human</i>	<i>Non-computing hardware</i>	<i>Computing Hardware</i>	<i>Software</i>	<i>Database</i>	<i>Comm & Network</i>
Add Services	Admin	N/A	Mobile/PC	Browser	MySQL	Internet
Add Client	Admin	N/A	Mobile/PC	Browser	MySQL	Internet
Manage Clients	Admin	N/A	Mobile/PC	Browser	MySQL	Internet
View invoices	Client/User	N/A	Mobile/PC	Browser	MySQL	Internet
Search invoices	Client/User	N/A	Mobile/PC	Browser	MySQL	Internet
Generate Report	Admin	N/A	PC/Mobile	Browser	MySQL	Internet

Table 3: Proposed System Six Element Analysis



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5.1.6 Proposed System

The new website is simple and easy to maintain, it is also convenient for both Telnet and client. All the data will be stored in the system database, so whenever the data are needed it can be found easily, one does not have to go through all the paper made records, it will save a lot of time.

In the new system every client of Telnet will have an individual profile. In which they will be able to check their services taken history. History of invoices, and print them.

The new system will offer to generate automated between date reports instantly, so telnet will not require extra human for generating report. The website will also create soft copy of invoice, clients and admin both will have access to them and will be able to print them. So, delivery man will not be required for delivering invoices to clients.



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5.1.7 Functional Requirement

Functional requirements of the system are:

1. Update profile: Client is required to update his/her own profile.
2. Authentication: Authentication is required to validate user.
3. View invoices: Client and admin both can view invoices.
4. Report: Admin can generate sales report.
5. Print invoices: Client and admin both can print invoices but the version will be different.
6. Add new client: Admin can add new client.
7. Manage client Admin can edit remove update new client.
8. Add services: Admin can add new services.
9. Manage services: Admin can edit remove update information of the services; client has no access to this section.
10. User Interface: A user interface is required for providing data to the system.
11. Search invoices: Both client and admin can search invoices.



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5.1.8 Non-Functional Requirements

Non-Functional requirements are:

1. Portability: The website is portable so; user can use any device to use the site without any problem but internet access is a must.
2. Scalability: requirement- Website should be capable enough to handle large number of users without affecting its performance.
3. Security requirement- Clients are never allowed to update price of the services and edit invoices information. Such attempt should be reported to the security administrator.
4. Recoverability requirement- There must be a backup server so that when main site is under maintenance user can use the backup server.
5. Manageability requirement- Every unsuccessful attempt by a user to access an item of data shall be recorded on an audit trail.
6. Usability requirement- The website is easy to use for everyone no extra training will be needed, user will get used to in short time.

5.2 Design of the System

5.2.1 Use Case Diagram

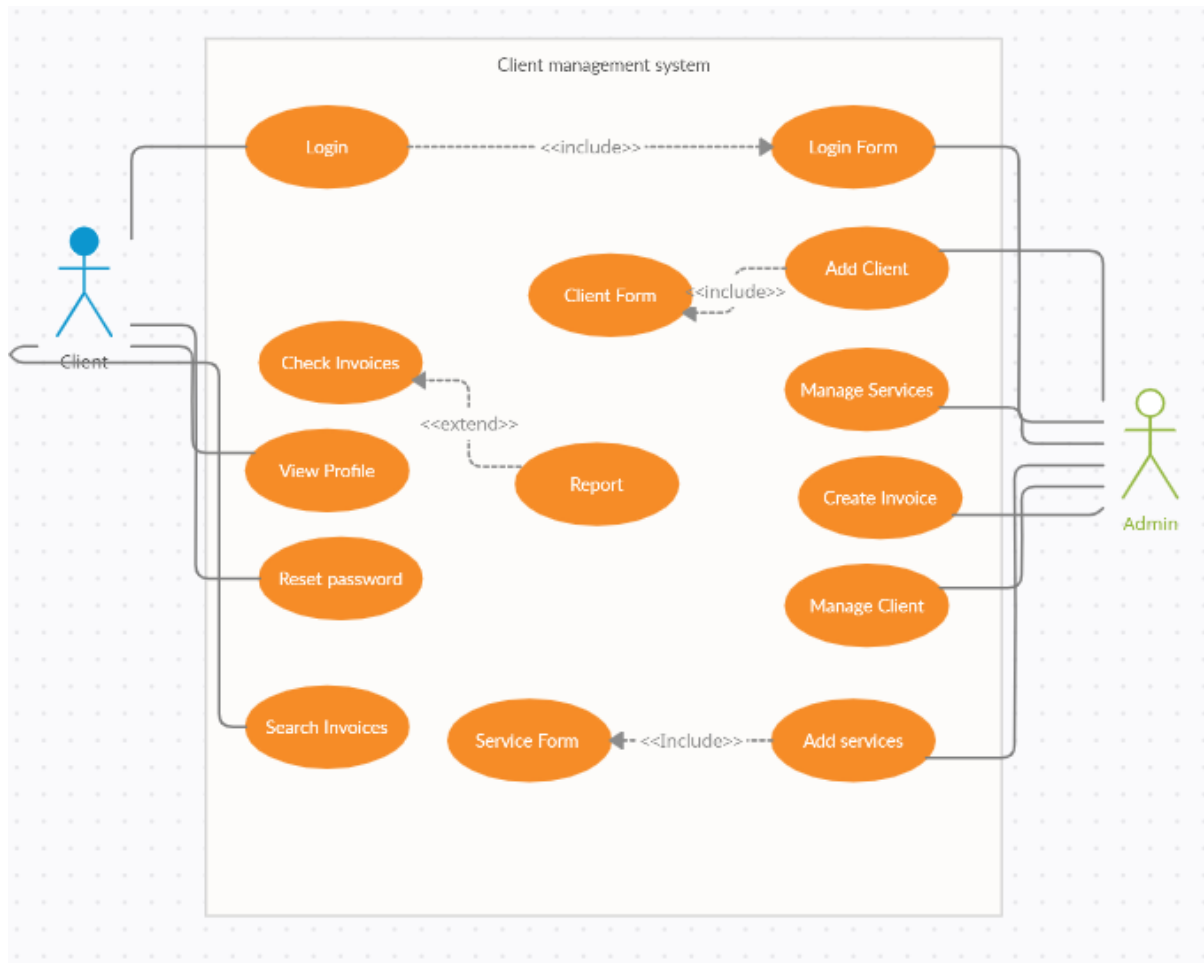


Figure 7: Use Case Diagram of Client Management System



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5.2.2 Normal Scenario for Use case

For Client:

Use Case Name: Print service bill	
Area: Invoice	
Actors: Client	
Description: Allow client to login online to view invoices using secure web site.	
Triggering Event: Client uses Telnet login page, enters user name and Password and clicks the login button.	
Steps Performed (Main Path)	Information for steps
Client logs in using the secure web server.	User ID, Password.
Client click on invoices section	Client choses which invoice to view.
Client clicks on view button	Client is redirected to new page.
Client click on the print button	Pop-up appears shows bill.
Precondition:	Client already has an account.
Post condition:	Client has successfully print invoice.

Table 4: Normal Scenario For printing Bill



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For Admin

Use Case Name: Assign Service to client	
Area: Manage client	
Actors: Admin	
Description: Allow admin to login online to assign services using secure web site.	
Triggering Event: Admin uses Telnet login page, enters user name and Password and clicks the login button.	
Steps Performed (Main Path)	Information for steps
Admin logs in using the secure web server.	User ID, Password.
Admin click on manage client	Client choses which invoice to view.
Admin clicks on assign button	Client is redirected to new page.
admin selects service and press confirm button.	Pop-up appears shows bill.
Precondition:	Admin already has an account.
Post condition:	Admin has successfully assigned service.

Table 5:Normal Scenario for Assign Service



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5.2.3 Entity Relation Diagram

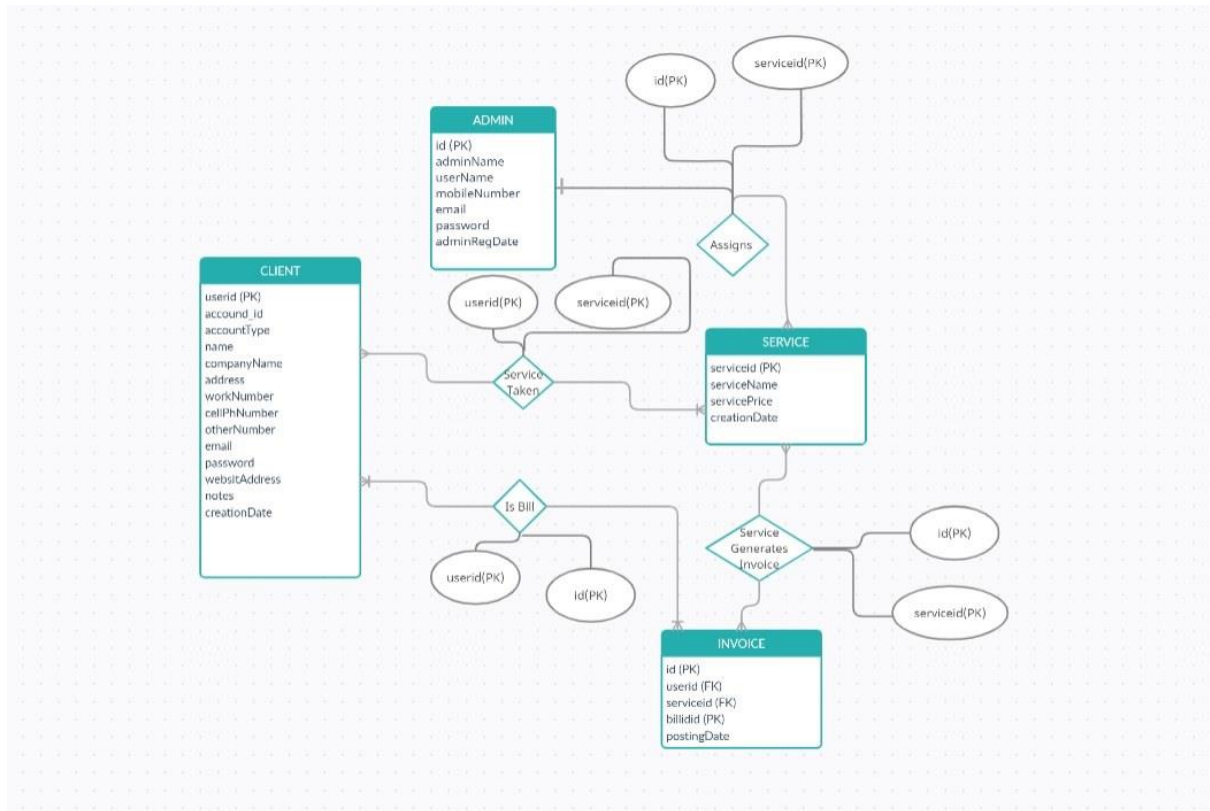


Figure 8: Entity Relation Diagram of the System



5.2.3 Activity Diagram for manage client

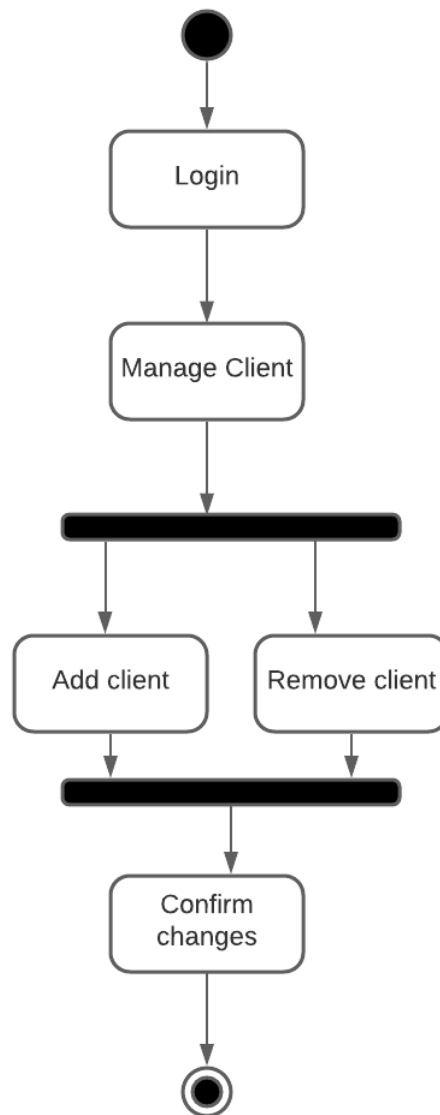


Figure 9:Add/Remove Client Activity Diagram



5.2.4 Activity diagram

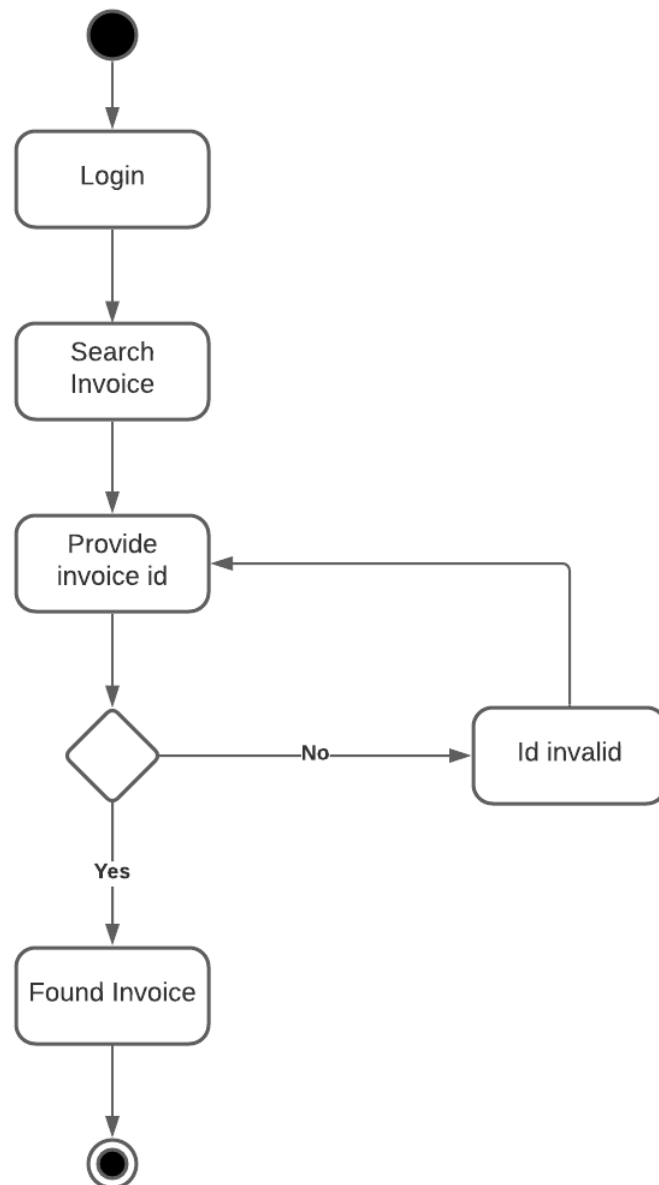


Figure 10:Find Invoice Activity Diagram



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5.2.5 User Interface

User Interface is the fundamental part of a website. Basically, it is the front-end part of the software through which user interacts.

The user interface of telnet's client management system is based on Bootstrap, Bootstrap has recently become the most common front-end system and it is owned by twitter.

Why Bootstrap?

- Browser Support: All popular browsers support bootstrap.
- Easy to get started: Anyone can get started with bootstrap if one is familiar with HTML and CSS codes.
- Responsive Design: Devices like desktop, tablets and mobiles can easily adapt the bootstrap's responsive CSS. More about bootstrap's responsive design:
 - Provides developers with a clean and uniform approach to construct an interface.
 - It includes beautiful built-in components that are easy to configure and functional.
 - It also offers customization based on the web.
 - Lastly, it is an open source. (Anon., n.d.)



Figure 11: Bootstrap Logo.



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5.2.6 Data Storage

A database is a separate program in which a set of data is stored. For telnet's client management system MySQL database is been used as it uses relational database management system. RDBMS allows to implement a database with tables and indexes.

Why MySQL?

MySQL database is fast and easy to use, it is getting famous because:

- It is an open source so it's completely free.
- It is very powerful program in its own.
- It uses standard SQL data languages.
- Works on most of the operating systems and with many languages like PHP, PERL, JAVA etc.
- For web development MySQL is compatible with PHP.
- It allows large storage.
- It is customizable. (Anon., n.d.)



Figure 12: MySQL Logo



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6.0 Result and Analysis

6.1 Graphical User Interface Result

Landing page:

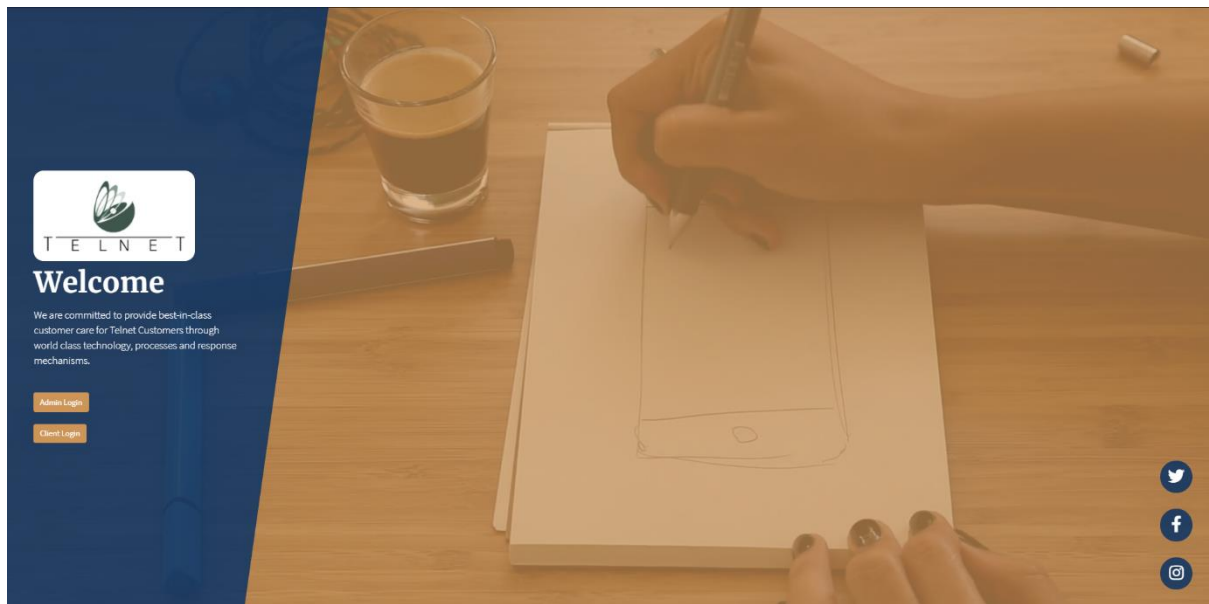


Figure 13: Screen shot of Landing Page

Admin Login page:

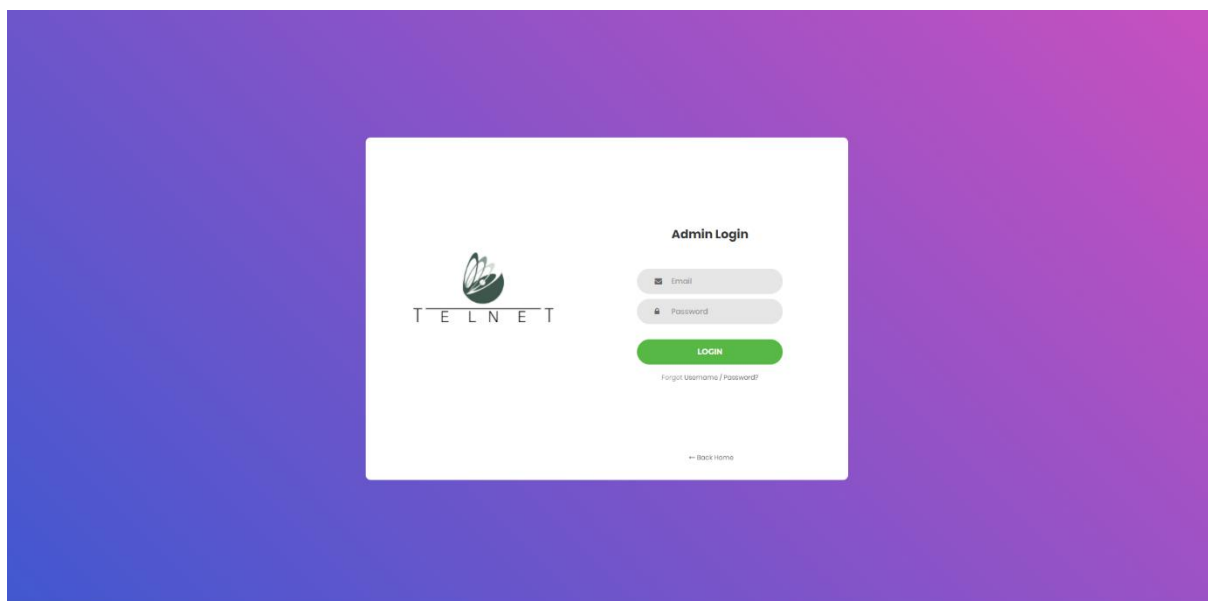


Figure 14: Screen shot of Admin Login Page



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Admin Dashboard page:

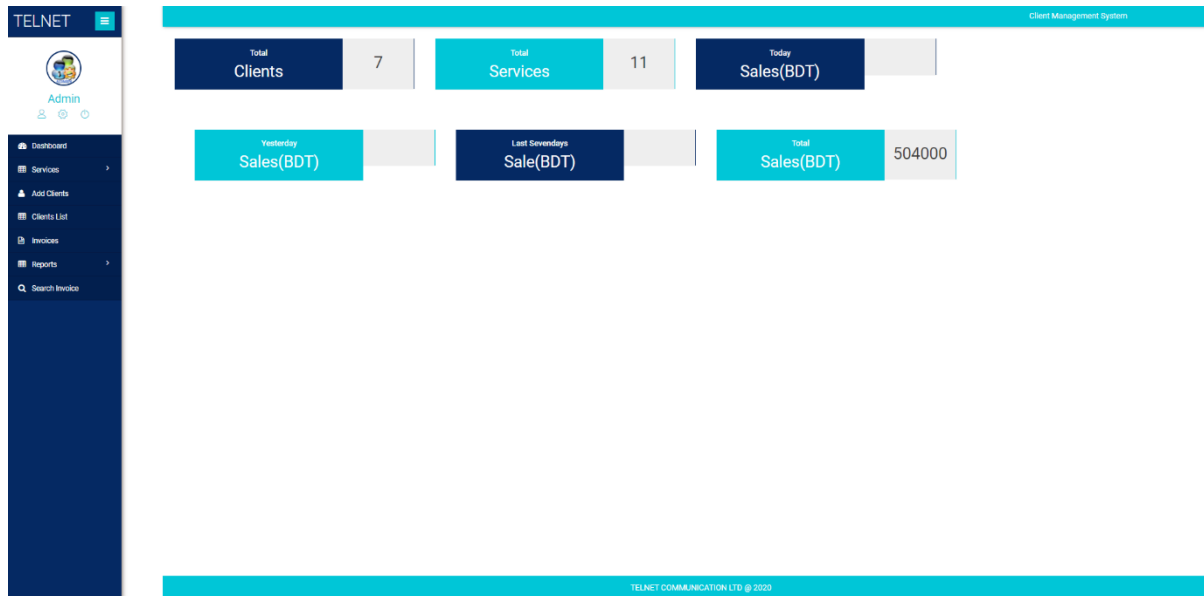


Figure 15: Screen shot of Admin Dashboard Page

Add Services page:

TELNET Client Management System

Home / Add Services

Add Services

Service Name

Service Name

Price of Service

Price of Service

Save

TELNET COMMUNICATION LTD © 2020

Figure 16: Screen shot of Add Services Page



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Assign Services page:

TELNET

Admin

Dashboard

Services

Add Clients

Clients List

Invoices

Reports

Search Invoice

Home / Assign Services

Assign Services

#	Service Name	Service Price	Creation Date	Action
1	Website Developments	30000	2020-12-14 19:42:29	<input type="checkbox"/>
2	SEO Service	10000	2020-10-22 04:56:17	<input type="checkbox"/>
3	SMD Services	19000	2020-10-22 07:22:19	<input type="checkbox"/>
4	Web designing	20000	2020-10-22 08:14:15	<input type="checkbox"/>
5	Network Service	40000	2020-10-22 08:30:00	<input type="checkbox"/>
6	Broadband Services	11000	2020-10-22 08:30:00	<input type="checkbox"/>
7	Drupal Development Services	9000	2020-10-22 13:46:05	<input type="checkbox"/>
8	PHP Development Services	8000	2020-10-22 13:46:30	<input type="checkbox"/>
9	Magento Development Services	25000	2020-10-22 13:47:41	<input type="checkbox"/>
10	Web Development	30000	2020-11-26 11:02:54	<input type="checkbox"/>
11	On Page SEO	8000	2020-11-27 21:58:59	<input type="checkbox"/>

Sum

TELNET COMMUNICATION LTD © 2020

Figure 17: Screen shot of Add Services Page

Invoice page:

TELNET

Admin

Dashboard

Services

Add Clients

Clients List

Invoices

Reports

Search Invoice

Home / Invoice

Invoice

#	Invoice Id	Company Name	Contact Name	Invoice Date	Action
1	914422547	XYZ	Bashar	2020-12-15 22:23:06	View
2	847895377	ssssssopw	Meha	2020-11-27 22:30:56	View
3	847895377	ssssssopw	Meha	2020-10-27 22:30:56	View
4	467109949	ABC Private Limited	Asif	2020-11-26 23:53:27	View
5	385373479	ABC Private Limited	Asif	0000-00-00 00:00:00	View
6	818398052	ABC Private Limited	Asif	2020-11-18 09:46:54	View
7	248174650	ABC Private Limited	Asif	2020-10-24 13:09:12	View
8	369333569	ABC Private Limited	Asif	2020-10-24 12:56:36	View
9	729670812	ABC Private Limited	Asif	2020-10-24 12:56:12	View
10	729670812	ABC Private Limited	Asif	2020-10-24 12:56:11	View
11	109605036	KML PVT LTD	Abir	2020-10-23 12:16:45	View
12	899898097	ABC Private Limited	Asif	2020-10-23 10:20:40	View
13	135792623	Infospace Pvt Ltd	Sakib	2020-10-22 17:51:43	View

TELNET COMMUNICATION LTD © 2020

Figure 18: Screen shot of Invoice Page



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6.2 Data Dictionary

Table Admin

Field Name	Data Type	Field Size	Description	Example
ID	Integer	10	Unique number	23
AdminName	Varchar	120	Name of the admin	Jhon
MobileNumber	Big integer	120	Admin's phone number	01687658095
Email	Varchar	10	Admin's email address	Admin@gmail.com
Password	Varchar	120	Password for admin	A2548201f@
AdminRegdate	timestamp	120	Time of Admin's registration	2020-10-21 13:01:30

Table 6: Data Table of Admin

Table Invoice

Field Name	Data Type	Field Size	Description	Example
ID	Integer	10	Unique number	23
Userid	Integer	10	User's unique number	2316
ServiceId	Integer	10	Service's unique number	8965
BillingId	Integer	10	Unique billing id	986587
PostingDate	timestamp	120	Time of post	2020-10-21 13:01:30

Table 7: Data Table of Invoice



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Table Client

Field Name	Data Type	Field Size	Description	Example
ID	Integer	10	Unique number	23
AccountID	Varchar	120	Name of the admin	Jhon
AccountID	Big integer	120	Admin's phone number	01687658095
AccountType	Varchar	10	Admin's email address	Admin@gmail.com
ContactName	Varchar	120	Password for admin	A2548201f@
CompanyName	timestamp	120	Time of Admin's registration	2020-10-21 13:01:30
Address	Varchar	200	Address of client	House-12, Road-1/b, Dhaka
Workphnnumber	Bigint	11	Work phone number of clients.	01659874598
Cellphnnumber	Bigint	11	Cellphone number of clients	01659874598
Email	Varchar	200	Email of client	client@gmail.com
WebsiteAddress	Varchar	200	Client's Web address	Webadress.com
Password	Varchar	200	Password set by client	A2_nsd952
Creation Date	timestamp		Time of account creation	2020-10-21 13:01:30

Table 8:Data Table of Client



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Table Service

Field Name	Data Type	Field Size	Description	Example
ID	Integer	10	Unique number	23
ServiceName	Varchar	200	Name of the service	2316
ServicePrice	Integer	200	Service's price	8965
CreationDate	timestamp	120	Time of post	2020-10-21 13:01:30

Table 9: Data Table of Service



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7.0 Future Work and Conclusion

7.1 Future work

Telnet's client management system is the first version of the system, there are a lot for improvement. Some of them are:

- Add bill payment gateway.
 - Integrate with bkaash and nagad.
 - Integrate with local banks.
- Clients should be able to request service through website.
- Add rating system for each service.
- Add live chat system.

7.2 Conclusion

On the Whole, this internship was a useful experience. I have gained so much knowledge in this past three months. I have learned so many new skills that will help me to achieve my future goals. I was given many challenges by my supervisor and pushed me to come up with solutions. This internship helped me to find out my own strength and weakness. This internship was all about sharing ideas and opinions.

Now I can confidently say that the knowledge we gain through internship is enough to contribute towards my future.

At last, this internship has given us new visions and incentive to pursue a career in web development.



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Appendix A

Section of back-end code

For adding client code

```
session_start();  
error_reporting(0);  
include('includes/dbconnection.php');  
if (strlen($_SESSION['clientmsaid']==0)) {  
    header('location:logout.php');  
} else{  
    if(isset($_POST['submit']))  
    {  
  
$clientmsaid=$_SESSION['clientmsaid'];  
$acctid=mt_rand(100000000, 999999999);  
$accttype=$_POST['accounttype'];  
$password=md5($_POST['password']);  
$cname=$_POST['cname'];  
$comname=$_POST['comname'];  
$address=$_POST['address'];  
$city=$_POST['city'];  
$state=$_POST['state'];  
$zcode=$_POST['zcode'];  
$wphnumber=$_POST['wphnumber'];  
$cellphnumber=$_POST['cellphnumber'];  
$ophnumber=$_POST['ophnumber'];
```



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```
$email=$_POST['email'];
```

```
$websiteadd=$_POST['websiteadd'];
```

```
$notes=$_POST['notes'];
```

```
$sql="insert into  
tblclient(AccountID,AccountType,ContactName,CompanyName,Address,City,State,ZipCode,W  
orkphnumber,Cellphnumber,Otherphnumber,Email,WebsiteAddress,Notes>Password)values(:a  
cctid,:accttype,:cname,:comname,:address,:city,:state,:zcode,:wphnumber,:cellphnumber,:ophn  
umber,:email,:websiteadd,:notes,:password)";
```

Between date report code

```
<?php
```

```
$sql="select distinct  
tblclient.ContactName,tblclient.CompanyName,tblinvoice.BillingId,tblinvoice.PostingDate from  
tblclient
```

```
join tblinvoice on tblclient.ID=tblinvoice.Userid where date(tblinvoice.PostingDate) between  
'$fdate' and '$tdate';
```

```
$query = $dbh -> prepare($sql);
```

```
$query->execute();
```

```
$results=$query->fetchAll(PDO::FETCH_OBJ);
```

```
$cnt=1;
```

```
if($query->rowCount() > 0)
```

```
{
```

```
foreach($results as $row)
```

```
{  
    ?>
```

```
<tr class="active">
```

```
<th scope="row"><?php
```

```
echo htmlentities($cnt);?></th>
```

```
<td><?php echo
```

```
htmlentities($row->BillingId);?></td>
```

```
<td><?php echo
```

```
htmlentities($row->CompanyName);?></td>
```




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```
<td><?php echo  
htmlentities($row->ContactName);?></td>  
  
<td><?php echo  
htmlentities($row->PostingDate);?></td>  
  
<td><a href="view-  
invoice.php?invoiceid=<?php echo $row->BillingId;?>">View</a></td>  
  
</tr>  
  
<?php $cnt=$cnt+1; } }  
?>
```



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Appendix B

Work Log

Week-1

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Assign into a project. Brief idea about the project. Become a team member.	Became part of a project. Understood the idea of the project. Learning to a lot by working in a team.
Monday	Pitch ideas for the project. Ask question if any confusion. Suggest methods and process.	Learned to provide idea in a team. Asked question if I needed more clarification. Suggested some processes and methods to follow for the project.
Tuesday	Help to prepare methodology for the website.	Successfully help to prepare methodology.
Wednesday	Analyze the existing system and figure out how offline system works.	Went through the existing process top to down and made important notes.
Thursday	Have meeting with the team and make plan for the client management project.	Attended the meeting and learned how to make plan for developing a web portal.



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Week-2

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Help to analyze the current system and find out the problems with the system and give solutions to those problem.	Learned how to analyze and provide solution to the problems.
Monday	Develop resource management plan	Helped with developing resource management plan.
Tuesday	Develop budget plan	Worked with the team to develop budget plan.
Wednesday	Prepare ER diagram	Designed ER diagram following the instructions given by the team.
Thursday	Design the architecture for the website.	Learned how to choose correct architecture for a system.



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Week-3

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Find out scope of the website and design modules.	Successfully listed the scopes and with teams help designed modules.
Monday	Design authentication pages for user of the software and design other pages.	Implemented the skills I gained from the course web application.
Tuesday	Design admin panel, sides bar, navigation bar, color contrast.	Successfully did the task, took help from online sites like W3school and Bootstrap.
Wednesday	Holiday	Holiday
Thursday	Seat with the team to show the designs and take feedback from everyone.	Showed my work to the team, took everyone's feedback and kept note of suggestion they gave.



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Week-4

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Make changes in the design following suggestions.	Made the changes successfully.
Monday	Sit with the team and show the changes made.	Was able to deliver the task successfully.
Tuesday	Start designing the functions the admin will have.	Designed the dashboard and services section.
Wednesday	Continuation of yesterday work, design add client and client list section.	Was able to successfully finish the task.
Thursday	Sit with the team and show the work progress so far made.	Took feedback from the team, and kept record of the suggestions given.



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Week-5

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Make changes according to the suggestions given and design invoices, between date report and search invoice section.	Made changes accordingly and completed the task accordingly.
Monday	Create database for admin panel.	Successfully created database.
Tuesday	Connect front end with the backend and integrate dash board and add services section.	Integrated front end with the backend though there were some error.
Wednesday	Continuation of yesterday's work and fix errors.	Successfully fixed error
Thursday	Share the work progress with the team and receive feedbacks.	Took notes of the feedback.



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Week-6

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Follow up with the recommendations given and make changes accordingly.	Successfully made changes.
Monday	Integrate client section with the data base.	Successfully integrated client section with database.
Tuesday	Review the work and fix error if any.	Reviewed the codes and fixed errors.
Wednesday	Integrate admin profile and section with the database.	Connected profile section with the back end.
Thursday	Sit with the team and present the work done so far.	Took suggestions to work on it.



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Week-7

DATE/DAY	WORK DONE	REMARKS BY INTERN
Sunday	Make change to the site according to the suggestion.	Changes are made as told without any issue.
Monday	Analyze the overall part done by me. Check if any broken links or wrong links.	Found out problem and worked accordingly.
Tuesday	Test client and services section by putting arrays of data.	Tested and changes were made accordingly.
Wednesday	Continuation of testing give data in every parameter and see how the system reacts. Give a final check of the system.	Done with checking made changes accordingly.
Thursday	Give a final look on the work I have done. Sit with the team. Hand over the work.	Successfully handed over my portion of the work.