



GUJARAT TECHNOLOGICAL UNIVERSITY

CERTIFICATE FOR COMPLETION OF ALL ACTIVITIES AT ONLINE PROJECT PORTAL

B.E. SEMESTER VIII, ACADEMIC YEAR 2019-2020

Date of certificate generation : 07 June 2020 (11:04:33)

This is to certify that, **Gondha Nand Kishorbhai** (Enrolment Number - 160470116012) working on project entitled with **Lyber** from **Information Technology** department of **VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING, RAJKOT** had submitted following details at online project portal.

Periodic Progress Reports (PPR)	Completed
Business Model Canvas (Image)	Completed
Business Model Canvas (Report)	Completed
Patent Drafting Exercise (PDE)	Completed
Final Plagiarism Report	Completed
Final Project Report	Completed

Name of Student : Gondha Nand Kishorbhai

Name of Guide : Mr. Upadhyay Darshan Prafulchandra

Signature of Student : _____

*Signature of Guide : _____

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PLAGIARISM SCAN REPORT

Words 764 Date May 11,2020

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Chapter I: Introduction 1.1 Problem Summary and Introduction Now a days we are doing online transaction to pay out tax and bills and we need to open all associative websites or third-party application and enter the unique id or number and this is little bit time consuming and hard to remember all bills numbers. 1.2 Aims and objective of the project This Platform is used to pay the all tax and bills using one payment. This platform divided the all money to consecutive website or tax and pay automatically. User just need to insert one time details of tax and bill numbers and this platform automatically collect all the details of bill and rupees and user just need to pay total amount of that and this platform divide the rupees and pay their tax and bills. 1.3 Problem Specification The idea of this project came to me a few months before 7th semester began. When I was paying my electricity bill and gas bill, I had to open their official website to pay or either I could use the third party application like paytm or amazon or other applications. After that I need to enter my bill number or code for both bill. At that time, the idea of a single platform came, which would use to pay all bills amount using only one transaction. This platform divide money and pay all the bill automatically. This platform is developed for connecting different website of tax and bills and use to pay from only one platform. Due to increase of online payment and transaction we need to remember the bill number or tax number of all the bill and tax. We need to open all the website and enter the details and pay the amount and done the transaction. So rather than opening all the different website and enter the details we directly pay the all bill using single payment. 1.4 Plan of my work Phase 1: Analysis of the definition of project. Phase 2: Discovered the problem about convert the single transaction to multiple transaction. Phase 3: Found better solution for specified problems. Phase 4: Meet with the people of accountant. Phase 5: Need to change the idea of converting single to multiple transaction. Phase 6: Decide to do client side and admin side portal. Phase 7: Decide technology and platform to work on. Phase 8: Create database and login and home page. Phase 9: Implement the crud operation of admin panel. Phase 10: Will implement how automation work and how the admin panel work and also payment module. 1.5 Tools Required 1.5.1 Software Requirement Software Used Visual Code editor, Sublime Text Editor Server Used Apache and Tomcate Language Python, Selenium Designing tools & Scripting Language Html, CSS, Ajax, Bootstrap, Javascript Database Mysql Browser Google Chrome Version 77.0.3865.120 1.5.2 Hardware Requirement Category Client Side Device Mobile, Tablet, Desktop, Laptop Ram 2 GB or higher Network Required Browser Latest Browser that support HTML 5.0 Chapter II: Design and Analysis 2.1 System Requirement Specification (SRS) 1. Introduction 1.1 Purpose of the project Now a days we using mostly online transaction to pay our tax and bills and we need to open all associative website or third-party application and enter the unique id or number and this is little bit time consuming and hard to remember all the bills unique id number. 1.2 Scope This platform is developed for connecting different website of tax and bills and use to pay from only one platform. 1.3 Overview This platform provide an easy solution to pay the different bill and provide and automation facilities so that use need to do less work. 2. General Description 2.1 User Manual The users have to first register/login themselves. Then user is directed to the homepage and can view home page of this web application. They can fill all the details of the bills and then select the bills they need to pay or see the amount. After then it will redirected to payment method and done one transaction. 3. Function Requirement 3.1 Description This Platform is used to pay the all tax and bills using one payment. This platform divided the all money to consecutive website or tax and pay automatically. User just need to insert one time details of tax and bill numbers and this platform automatically collect all the details of bill and rupees and user just need to pay total amount of that and this platform divide the rupees and pay their tax and bills. 3.2 Technology This system will be implemented using HTML, CSS, Javascript and python language.

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Words 947 Date May 11,2020

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4. Interface Requirement 4.1 GUI The GUI refers the layout and design which will be used by the system developer GUI 1: This GUI consists of the login or register page. There will be a login/ Register Page. GUI 2: This is the page used to enter the details of different bill number and website name and tax number details and other details and user need to enter this only one time. GUI 3: This is the homepage contain select option to pay which bills or tax. GUI 4: This GUI is for performing bills amount and details. GUI 5: This GUI is for payment methods. GUI 6: This GUI is for performing automatically pay the bills monthly and quarterly option and other features. 5. Performance Requirement This system is expected to work smoothly because it is a partially dynamic system which will not require very high speed internet or even a high end computer system to run this website. User don't need high end system to run this website so it will run smoothly. 6. Other Non-Functional Requirement 6.1 Security User need to enter their identity proof and bill and tax number correctly with one proper name proof. 6.2 Reliability This website reliable to use as it will develop using the latest technologies and development tools. 6.3 Availabilities This website will be available for all user that use the online payment of different tax and bills. 6.4 Maintainability The website servers are to be maintained efficiently. Regular back-ups of the database should be taken so recovery of shops data can be performed in case system failure of any form. 7. Design Constraint This website can be designed and deployed within 180 days.

2.2 AEIOU Canvas I visited several places and relatives experience where I observed the environment and people. The place were crowded and noisy. The people were standing in bill lines and waiting for their turns. The main attraction was time to pay all the bills whether its online or offline transactions. Fig 1.1 AEIOU Canvas 2.3 Ideation canvas During observation, I observed that the lines in bills and if we are doing more than one bill payment then we need to open different website and all time need to enter the bill number. I came up with an idea to remove do same activities whenever the bills generated. Fig 1.2 Ideation Canvas 2.4 Empathy canvas At the bill offices sometimes their employee is very slow and take more time and sometimes they have power issue or connectivity issue. Where doing online transaction people need to enter bill details every time and sometime they forgot to pay the bill as they forgot and didn't notify so they need to pay due charges also with bill amount. Fig 1.3 Empathy Mapping Canvas 2.5 Product Development Canvas I defined the purpose of problem statement on collected basics. I discussed product experience and features, also which components or technology is required and which people will be affected by it. Fig 1.4 Product Development Canvas 2.6 Business Model Canvas Thus business model canvas can be used to visualize such customer expectations and market problems. This exercise will increase the market strategy and implementation of technology. This will make them more effective in market. This exercise brings discussions on viability and cost effectiveness into picture with their impact. This exercise will enable us to have knowledge on the steps required to ensure that a solution they develop via project should have a user who can afford it with desired needs. This exercise helps us to understand the true value of the proposed solution. Business Model Canvas is used to validate the market significance of products and services which will be of technology nature in this case. Technology projects are often solutions or processes that solve a technical problem. However the market implementation of such solutions also require that the problem solution is designed to overcome not just the technical barriers but also market and business related barriers of costs, customer reach and collaborations and those that pertain to the practical nature of limited initial capacities within the team. Figure 1.5 Proposed Business Model Canvas Chapter III: Diagram Design 3.1 Use Case Diagram: Fig 2.1 Use Case Diagram 3.2 Activity Diagram Fig 2.2 Activity Diagram 5.3 E-R Diagram Fig 2.3 E-R Diagram 3.4 Data Flow Diagram Zero Level DFD: First Level DFD: Second Level DFD: 3.5 Data Dictionary users Field Name Data Type Field Size Description Example id int 100 primary key 1 name varchar 25 user name nand gondha username varchar 50 username for login nd012 password varchar 100 password ***** register_date timestamp date of registration 2020-04-04 12:35:24 cid Field Name Data Type Field size Description Example userpassword varchar 20 userpassword nd012 airtel bigint 10 airtel phone number 7600245002 airtel billno 12 airtel bill

Example username varchar 50 username nd012 airtel bigint 10 airtel phone number 780054502 pgvcl bigint 12 pgvcl sum number 123456789012 d2h bigint 20 d2h bill number 121750980 gas bigini 12 gas bill number 123456789012 Monthly_amount Field Name Data Type Field size Description Example username varchar 12 username nd012 airtel bigint 20 airtel amount 652 pgvcl bigint 20 pgvcl amount 420 d2h bigint 20 d2h amount 300 gas bigini 20 gas amount 451 Chapter IV: Implementation 4.1 Simple Code Login Page: {%- extends 'layout.html' %} {%- block body %}

Login

```
<form action="" method="POST">
Username <input type="text" name="username" class="form-control" value="{{request.form.username}}>
Password <input type="password" name="password" class="form-control" value="{{request.form.password}}>
<button type="submit" class="btn btn-dark">Submit</button> </form> {% endblock %}
Database: My Database CID Table – Customer Bills Id Numbers Monthly Amount Store Table – %MONTH%amount User Table – Login Credentials 4.2 Snap Shots
Home Screen □ Login Screen □ Registration Screen □ Dashboard □ User □ Edit User □ History □ Payment
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Sources	Similarity
bmcfinalpdf-170412164520.docx Gyroscope Automation thus business model canvas can be used to visualize such customer expectations and market problems.doing this we can get the idea about what is market scenario, optimization in product and cost can be achieved, from where we can get the raw material of our product. https://www.scribd.com/document/405409813/bmcfinalpdf-170412164520-docx	10%
Bmc final pdf this exercise will increase the market strategy and implementation of technology. this will make them more effective in market.9. business model canvas is used to validate the market significance of products and services which will be of technology nature in this case. https://www.slideshare.net/ParthPatel747/bmc-final-pdf	9%
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THE USER DEFINED PROJECT

REPORT ON

“Lyber – The Emperor”

Submitted by

GONDHA NAND KISHORBHAI (160470116012)

Under the Guidance of
Prof. Darshan P Upadhyay

In fulfilment for the award of the degree

**BACHELOR OF ENGINEERING
IN
INFORMATION TECHNOLOGY**

Affiliated by

V.V.P. Engineering College, Rajkot.

GUJARAT, INDIA

SEMESTER VIII
ACADEMIC YEAR: 2019-20

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmadabad



SELF-DECLARATION

I Nand Gondha the student of Information Technology Branch, having Enrolment number 160470116012 enrolled at V.V.P. Engineering College hereby certify and declare the following:

1. I defined my project based on inputs of Prof.Darshan Updhyay and I will make significant efforts to make attempt to solve the challenges. I will attempt the project work at my college. I will adopt all ethical practices to share credit amongst all the contributors based on their contributions during the project work.
2. I am not purchased the solutions developed by any 3rd party directly and the efforts are made by me, under the guidance of guides.
3. The project work is not copied from any previously done projects directly. (Same project can be done in different ways but if it has been done in same manner before then it may not be accepted)

I understand and accept that he above declaration if found to be untrue, it can result in punishment/cancellation of project definition to I including failure in the subject of project work.

GONDHA NAND KISHORBHAI

Place: Rajkot

Date: ___/___/___



VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING

Kalavad Road Virda Vajadi, Rajkot, Gujarat 360005

INFROMATION ENGINEERING DEPARTMENT

2019-20

CERTIFICATE

Date: ___ April 2020

This is to certify that the dissertation entitled **LYBER – The Emperor** has been carried out by **NAND GONDHA**(160470116012) under my guidance in fulfilment of the degree of Bachelor of Engineering in INFORMTION ENGINNERING (8th Semester) of Gujarat Technological University (GTU), Ahmadabad during the academic year 2019-20.

Internal Guide

Prof. Darshan Upadhyay

Head of Department

Prof. Darshana Patel

ABSTRACT

The project entitled “Lyber – The Emperor – One Place For All”. This is a payment web application develop for the making all the bill payments from one place with one transaction. There are many third Party application and web application available in market. They all provide to pay the different bills like electric bill, mobile bill, gas bill and other bills. And you have to do multiple transaction to pay the different bills. But this web application makes customers interaction that much easy, that with only one transaction they can pay all the selected bills directly, Like if user selected the gas bill, electric bill and water bill then it gets total amount of three of them bill and user need to do one transaction of the final amount and this web application divides there money and transfer to relatavle bill website or make payment.

User only need to do one transaction only. It is very time saving and it also have different features like notification and other information about different bills and companies. User just need to fill the details of bills unique id first time when they register and provide the bill company details and unique id of bill.

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of task would be incomplete without the mention of the people who made it possible, whose constant guidance, support and encouragement crown all the efforts with success.

My sincere thanks to Principal **Dr. Jayesh Deshkar**, H.O.D. of I.T. department **Prof. Darshana H. Patel** and **Prof. Darshan P Upadhyay** for having consented to be the guide and for their valuable guidance and support during the preparation of this project.

Also, she helped us to work out on the software side of our project. Last but not the least, our sincere dedication and keen to learn something new helped us to achieve success in the project.

I would also like to thank to GOD, my family and friends who have been a constant source of inspiration.

- Team

Table of Contents

- ✓ Title page
- ✓ Completion Certificate
- ✓ Plagiarism Report
- ✓ Acknowledgement
- ✓ Abstract
- 1. Chapter I : Introduction
 - 1. Problem Summary and Introduction
 - 2. Aim the Objective of Project
 - 3. Problem Specification
 - 4. Plan of my work
 - 5. Tools Required
- 2. Chapter II : Design and Analysis
 - 1. System Requirement Specification
 - 2. AEIOU canvas
 - 3. Ideation canvas
 - 4. Empathy canvas
 - 5. Product Development canvas
- 3. Chapter III : Diagram Design
 - 1. Use Case Diagram
 - 2. Activity Diagram
 - 3. E-R Diagram
 - 4. DFD
 - 5. Data Dictionary
- 4. Chapter IV : Implementation
 - 1. Simple Code
 - 2. Snap Shots
- 5. Chapter V : Summary
 - 1. Summary
 - 2. Future Work

6. Appendix

List of Figure

Figure No.	Figure Name
1.1	AEIOU Canvas
1.2	Ideation Canvas
1.3	Empathy Mapping Canvas
1.4	Product Development Canvas
1.5	Business Model Canvas
2.1	Use case Diagram
2.2	Activity Diagram
2.3	E-R Diagram
3.1	Snap Shot of Login Page
3.2	Snap Shot of Incorrect Login Page
3.3	Snap Shot of Registration Page
3.4	Snap Shot of Home/Menu Page
3.5	Snap Shot of Detailed Menu Page
3.6	Snap Shot of Fill/Update Page

Chapter I: Introduction

1.1 Problem Summary and Introduction

Now a days we are doing online transaction to pay out tax and bills and we need to open all associative websites or third-party application and enter the unique id or number and this is little bit time consuming and hard to remember all bills numbers.

1.2 Aims and objective of the project

This Platform is used to pay the all tax and bills using one payment. This platform divided the all money to consecutive website or tax and pay automatically. User just need to insert one time details of tax and bill numbers and this platform automatically collect all the details of bill and rupees and user just need to pay total amount of that and this platform divide the rupees and pay their tax and bills.

1.3 Problem Specification

The idea of this project came to me a few months before 7th semester began. When I was paying my electricity bill and gas bill, I had to open their official website to pay or either I could use the third party application like paytm or amazon or other applications. After that I need to enter my bill number or code for both bill. At that time, the idea of a single platform came, which would use to pay all bills amount using only one transaction. This platform divide money and pay all the bill automatically.

This platform is developed for connecting different website of tax and bills and use to pay from only one platform. Due to increase of online payment and transaction we need to remember the bill number or tax number of all the bill and tax. We need to open all the website and enter the details and pay the amount and done the transaction. So rather than opening all the different website and enter the details we directly pay the all bill using single payment.

1.4 Plan of my work

Phase 1: Analysis of the definition of project.

Phase 2: Discovered the problem about convert the single transaction to multiple transaction.

Phase 3: Found better solution for specified problems.

Phase 4: Meet with the people of accountant.

Phase 5: Need to change the idea of converting single to multiple transaction.

Phase 6: Decide to do client side and admin side portal.

Phase 7: Decide technology and platform to work on.

Phase 8: Create database and login and home page.

Phase 9: Implement the crud operation of admin panel.

Phase 10: Will implement how automation work and how the admin panel work and also payment module.

1.5 Tools Required

1.5.1 Software Requirement

Software Used	Visual Code editor, Sublime Text Editor
Server Used	Apache and Tomcate
Language	Python, Selenium
Designing tools & Scripting Language	Html, CSS, Ajax, Bootstrap, Javascript
Database	Mysql
Browser	Google Chrome Version 77.0.3865.120

1.5.2 Hardware Requirement

Category	Client Side
Device	Mobile, Tablet, Desktop, Laptop
Ram	2 GB or higher
Network	Required
Browser	Latest Browser that support HTML 5.0

Chapter II: Design and Analysis

2.1 System Requirement Specification (SRS)

1. Introduction

1.1 Purpose of the project

Now a days we using mostly online transaction to pay our tax and bills and we need to open all associative website or third-party application and enter the unique id or number and this is little bit time consuming and hard to remember all the bills unique id number.

1.2 Scope

This platform is developed for connecting different website of tax and bills and use to pay from only one platform.

1.3 Overview

This platform provide an easy solution to pay the different bill and provide and automation facilities so that user need to do less work.

2. General Description

2.1 User Manual

The users have to first register/login themselves. Then user is directed to the homepage and can view home page of this web application. They can fill all the details of the bills and then select the bills they need to pay or see the amount. After then it will redirected to payment method and done one transaction.

3. Function Requirement

3.1 Description

This Platform is used to pay the all tax and bills using one payment. This platform divided the all money to consecutive website or tax and pay automatically. User just need to insert one time details of tax and bill numbers and this platform automatically collect all the details of bill and rupees and user just need to pay total amount of that and this platform divide the rupees and pay their tax and bills.

3.2 Technology

This system will be implemented using HTML, CSS, Javascript and python language.

4. Interface Requirement

4.1 GUI

The GUI refers the layout and design which will be used by the system developer

GUI 1: This GUI consists of the login or register page. There will be a login/ Register Page.

GUI 2: This is the page used to enter the details of different bill number and website name and tax number details and other details and user need to enter this only one time.

GUI 3: This is the homepage contain select option to pay which bills or tax.

GUI 4: This GUI is for performing bills amount and details.

GUI 5: This GUI is for payment methods.

GUI 6: This GUI is for performing automatically pay the bills monthly and quarterly option and other features.

5. Performance Requirement

This system is expected to work smoothly because it is a partially dynamic system which will not require very high speed internet or even a high end computer system to run this website. User don't need high end system to run this website so it will run smoothly.

6. Other Non-Functional Requirement

6.1 Security

User need to enter their identity proof and bill and tax number correctly with one proper name proof.

6.2 Reliability

This website reliable to use as it will develop using the latest technologies and development tools.

6.3 Availabilities

This website will be available for all user that use the online payment of different tax and bills.

6.4 Maintainability

The website servers are to be maintained efficiently. Regular back-ups of the database should be taken so recovery of shops data can be performed in case system failure of any form.

7. Design Constraint

This website can be designed and deployed within 180 days.

2.2 AEIOU Canvas

I visited several places and relatives experience where I observed the environment and people. The place were crowded and noisy. The people were standing in bill lines and waiting for their turns. The main attraction was time to pay all the bills whether its online or offline transactions.

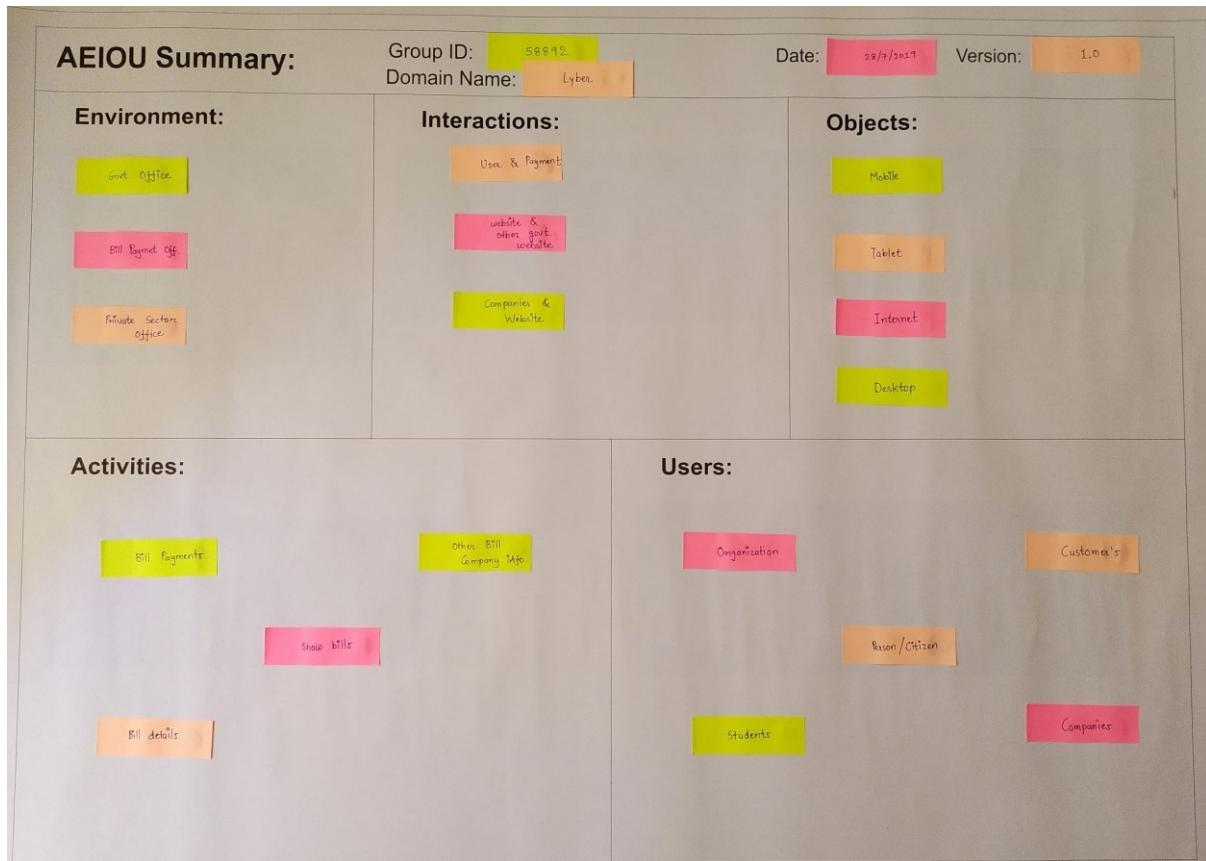


Fig 1.1 AEIOU Canvas

2.3 Ideation canvas

During observation, I observed that the lines in bills and if we are doing more than one bill payment then we need to open different website and all time need to enter the bill number. I came up with an idea to remove do same activities whenever the bills generated.

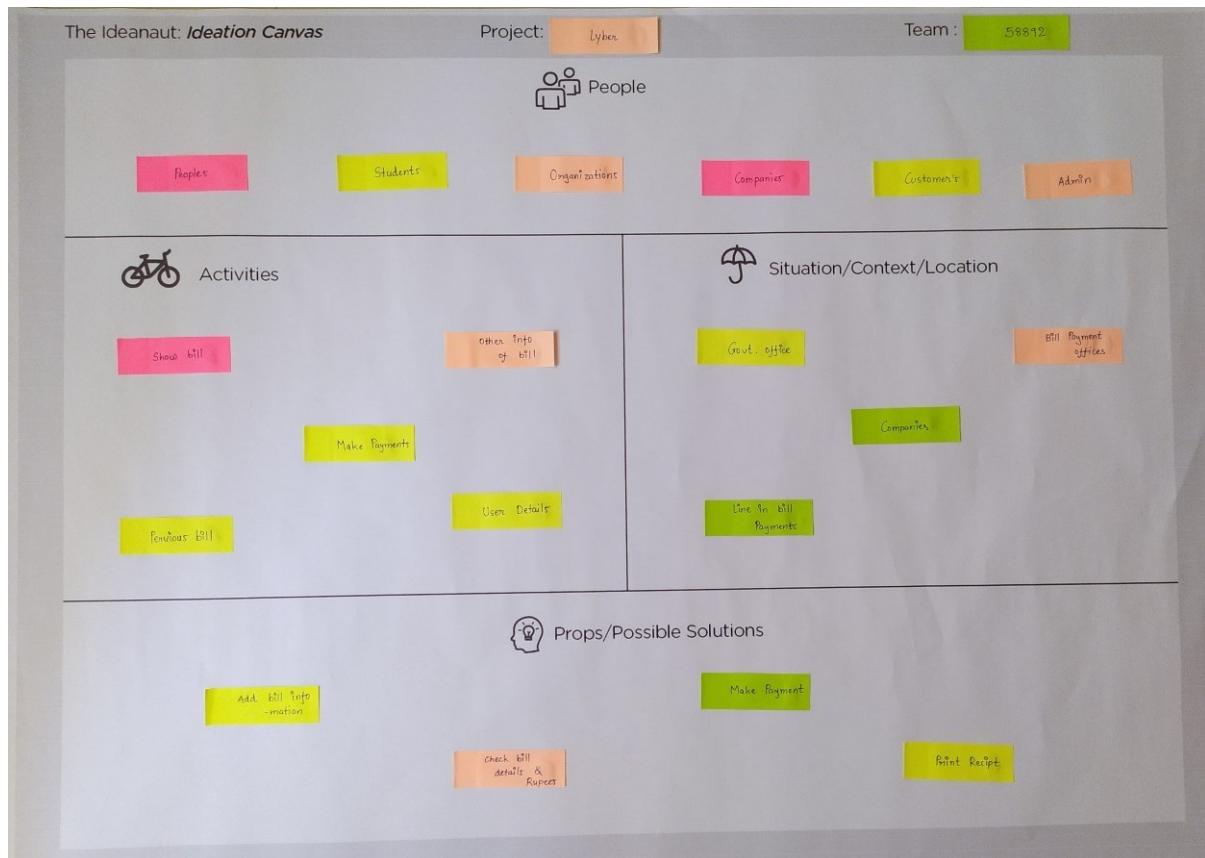


Fig 1.2 Ideation Canvas

2.4 Empathy canvas

At the bill offices sometimes their employee is very slow and take more time and sometimes they have power issue or connectivity issue. Where doing online transaction people need to enter bill details every time and sometime they forgot to pay the bill as they forgot and didn't notify so they need to pay due charges also with bill amount.

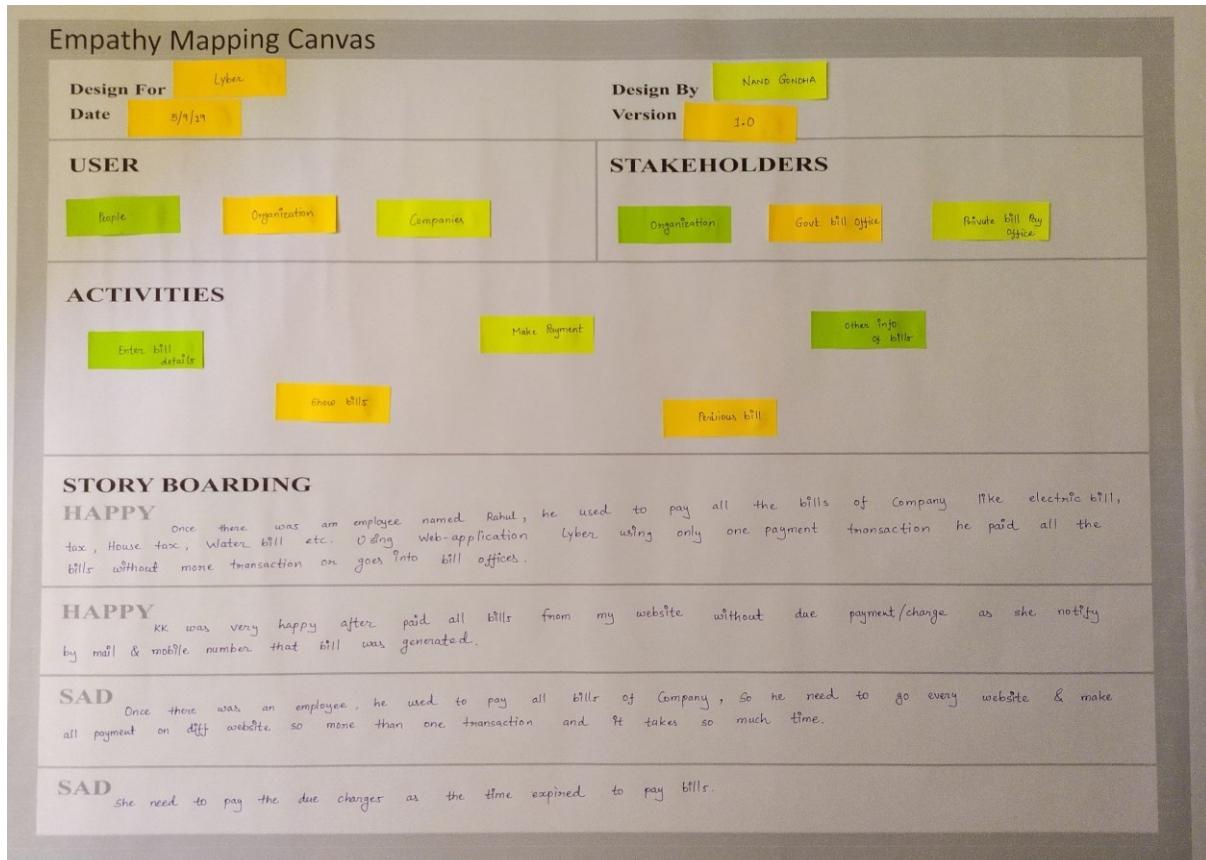


Fig 1.3 Empathy Mapping Canvas

2.5 Product Development Canvas

I defined the purpose of problem statement on collected basics.

I discussed product experience and features, also which components or technology is required and which people will be affected by it.

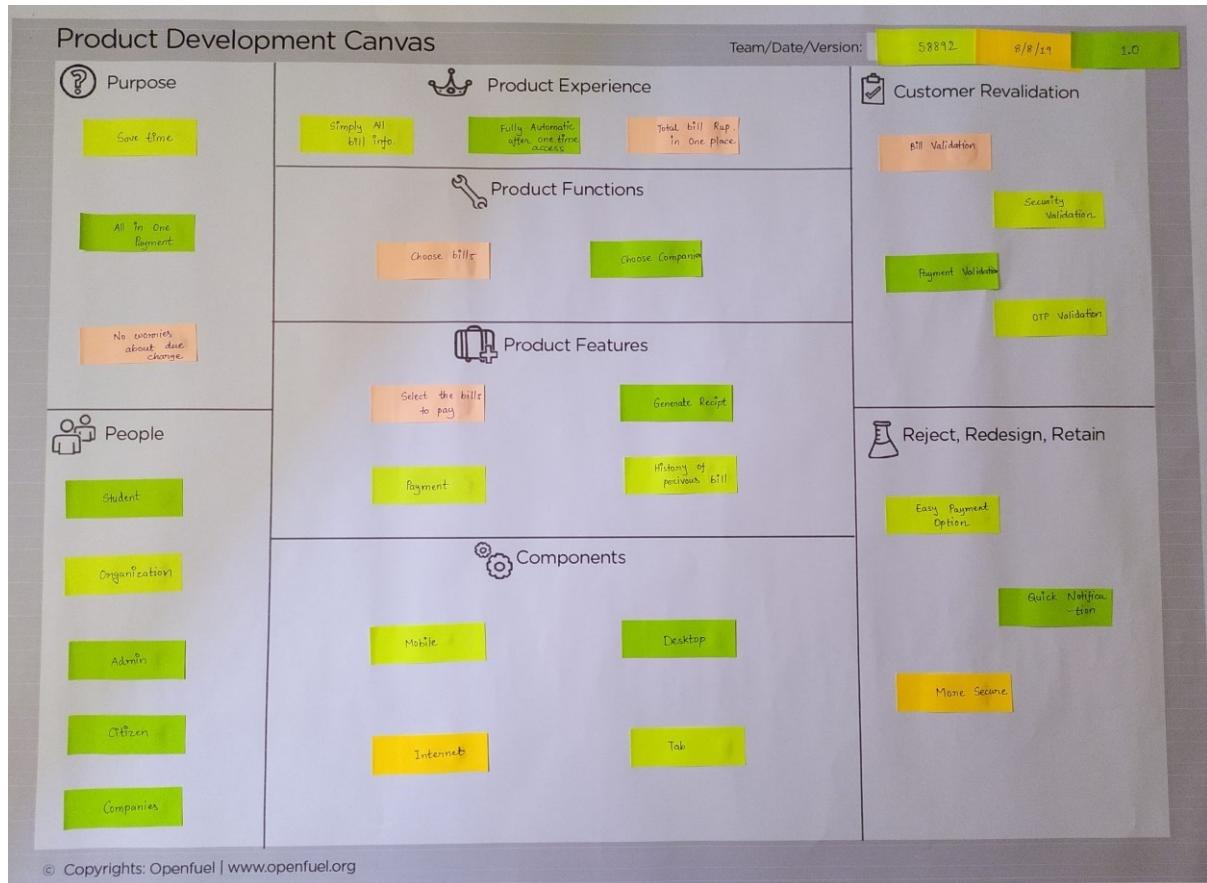


Fig 1.4 Product Development Canvas

2.6 Business Model Canvas

Thus business model canvas can be used to visualize such customer expectations and market problems. This exercise will increase the market strategy and implementation of technology. This will make them more effective in market.

This exercise brings discussions on viability and cost effectiveness into picture with their impact. This exercise will enable us to have knowledge on the steps required to ensure that a solution they develop via project should have a user who can afford it with desired needs. This exercise helps us to understand the true value of the proposed solution.

Business Model Canvas is used to validate the market significance of products and services which will be of technology nature in this case. Technology projects are often solutions or processes that solve a technical problem. However the market implementation of such solutions also require that the problem solution is designed to overcome not just the technical barriers but also market and business related barriers of costs, customer reach and collaborations and those that pertain to the practical nature of limited initial capacities within the team.

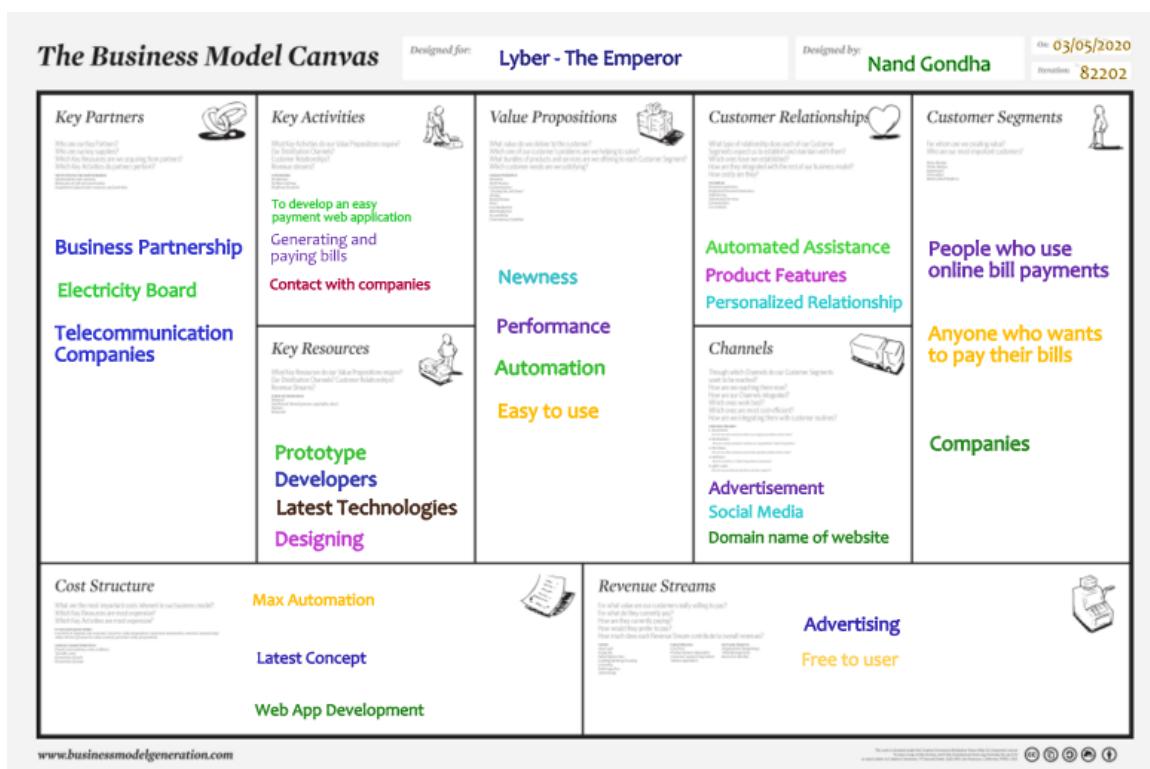


Figure 1.5 Proposed Business Model Canvas

Chapter III: Diagram Design

3.1 Use Case Diagram:

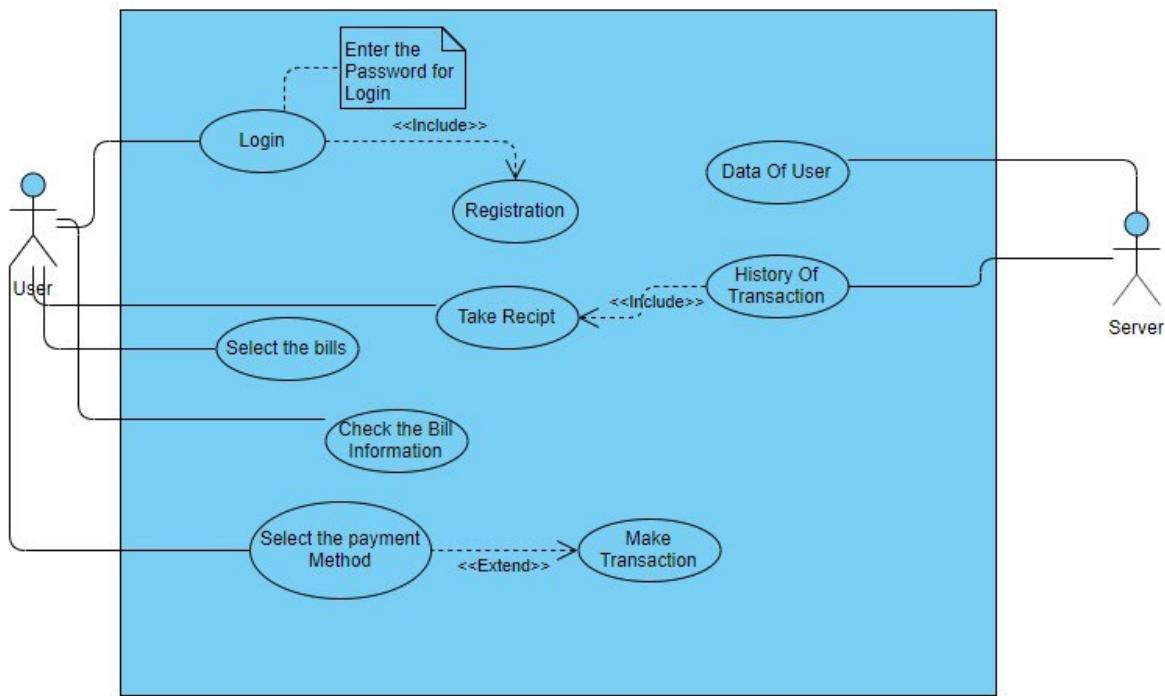


Fig 2.1 Use Case Diagram

3.2 Activity Diagram

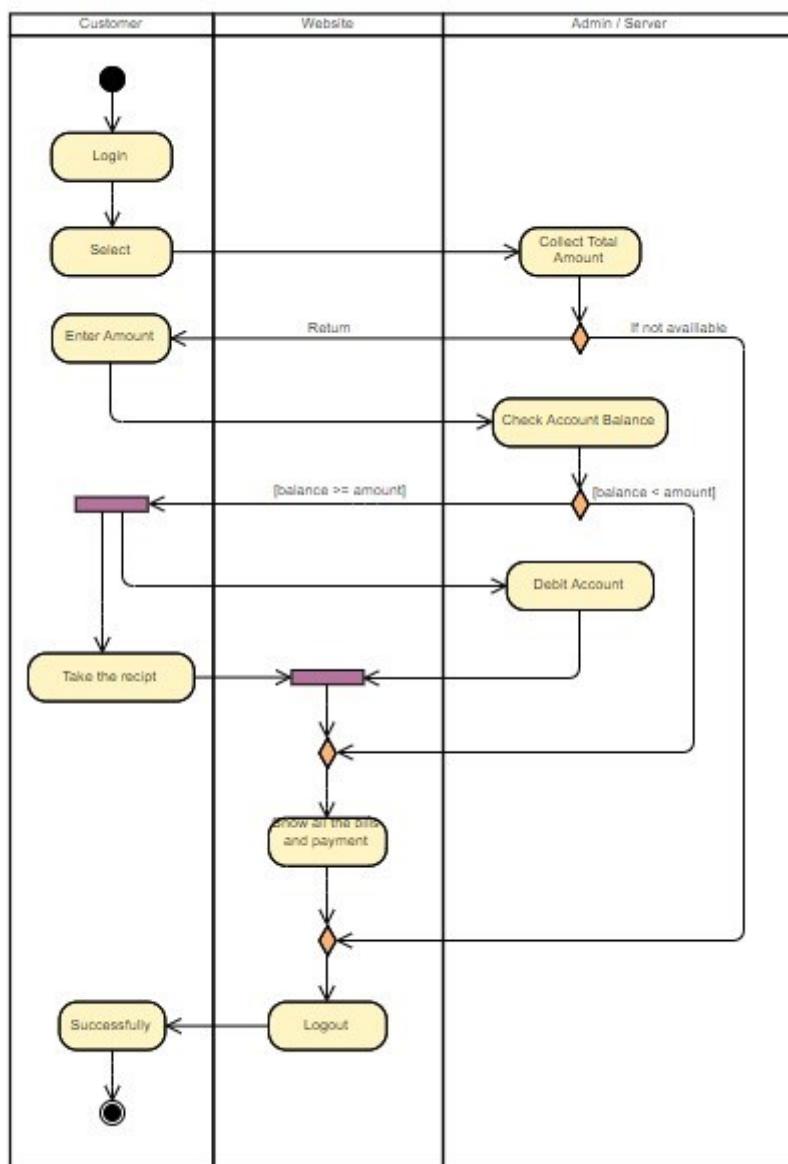


Fig 2.2 Activity Diagram

5.3 E-R Diagram

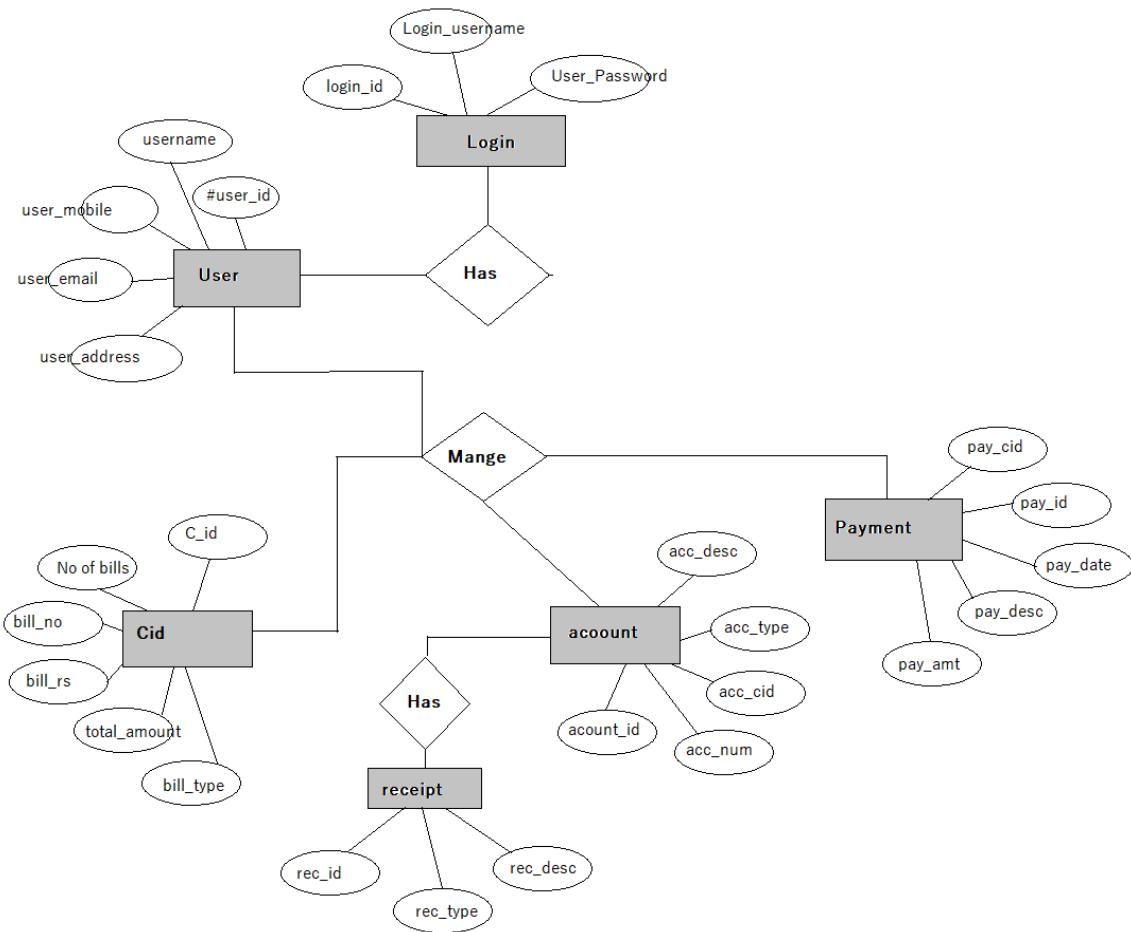
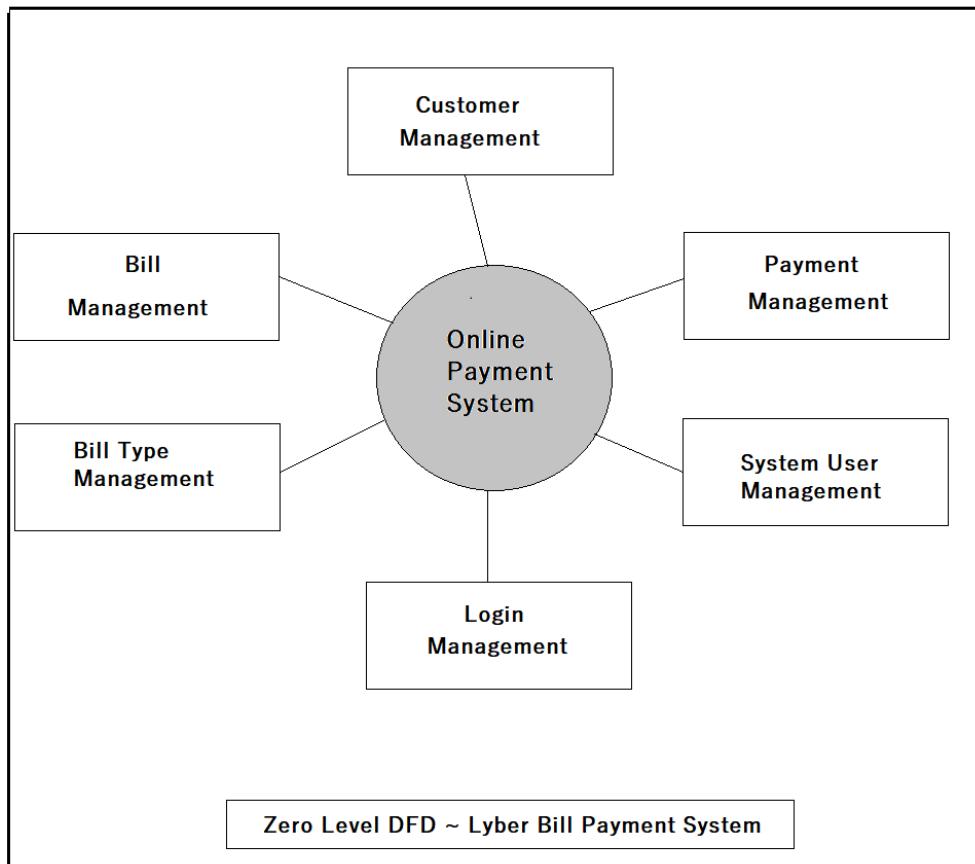


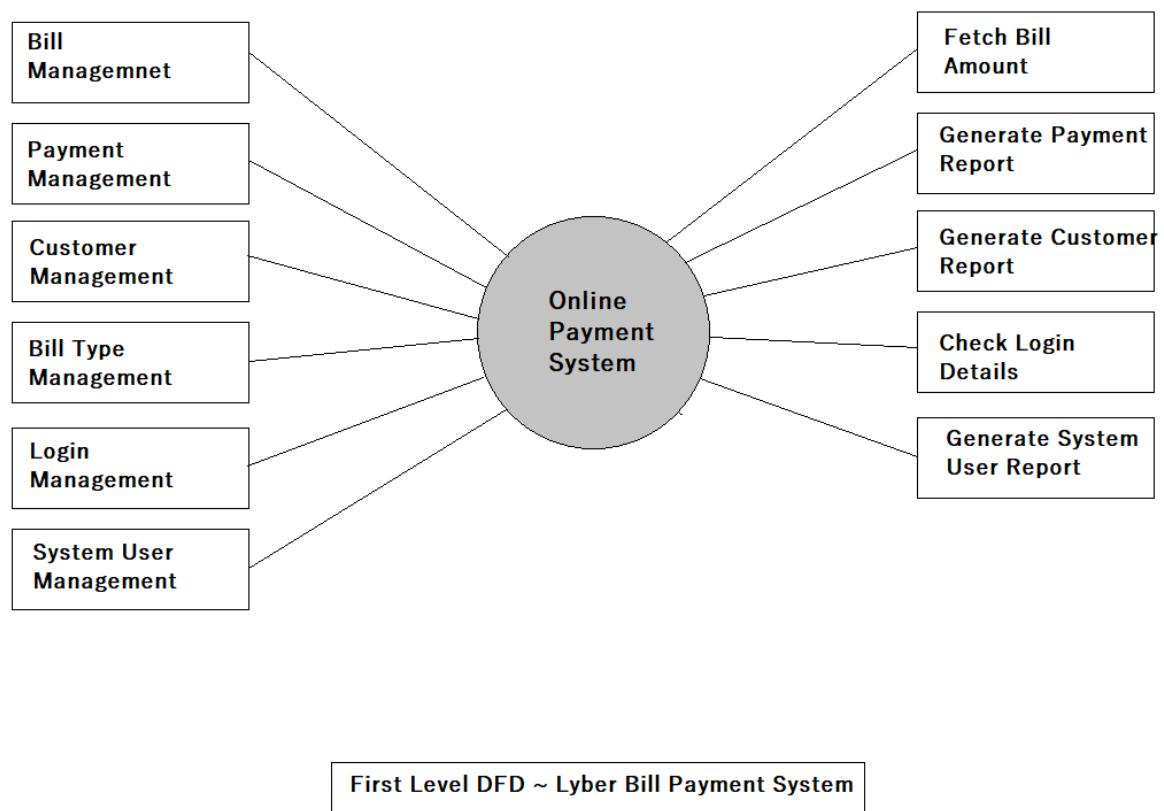
Fig 2.3 E-R Diagram

3.4 Data Flow Diagram

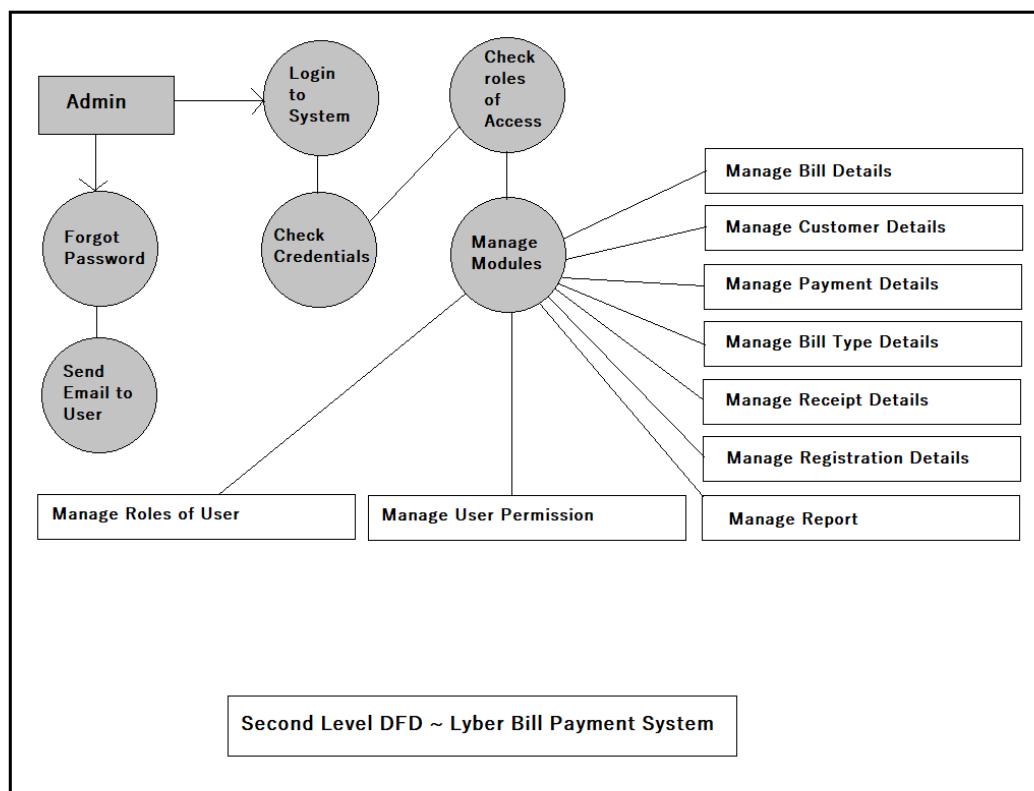
Zero Level DFD:



First Level DFD:



Second Level DFD:



3.5 Data Dictionary

users

Field Name	Data Type	Field Size	Description	Example
id	int	100	primary key	1
name	varchar	25	user name	nand gondha
username	varchar	50	username for login	nd012
password	varchar	100	password	*****
register_date	timestamp		date of registration	2020-04-04 12:35:24

cid

Field Name	Data Type	Field size	Description	Example
username	varchar	30	username	nd012
airtel	bigint	10	airtel phone number	760034502
pgvcl	bigini	12	pgvcl bill number	123456789012
d2h	bigint	20	d2h bill number	121750980
gas	bigini	12	gas bill number	123456789012

Monthly_amount

Field Name	Data Type	Field size	Description	Example
username	varchar	12	username	nd012
airtel	bigint	20	airtel amount	652
pgvcl	bigini	20	pgvcl amount	420
d2h	bigint	20	d2h amount	300
gas	bigini	20	gas amount	451

Chapter IV: Implementation

4.1 Simple Code

Login Page:

```
{% extends 'layout.html' %}

{% block body %}
    <h1> Login </h1>
    <form action="" method="POST">
        <div class="form-group">
            <label>Username</label>
            <input type="text" name="username" class="form-control" value="{{request.form.username}}>
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" name="password" class="form-control" value="{{request.form.password}}>
        </div>
        <button type="submit" class="btn btn-dark">Submit</button>
    </form>
{% endblock %}
```

Database:

The screenshot shows the phpMyAdmin interface running on a Windows operating system. The title bar indicates the browser is on the 'Inbox - nand12398@gmail.com' tab. The main window displays the 'Structure' tab for the 'myflaskapp' database. On the left, a tree view shows the database structure with tables: cid, maramount, temp, and users. The 'Structure' tab shows a table named 'cid' with four columns: id, name, address, and city. The 'Data' tab shows the following data for the 'cid' table:

id	name	address	city
1	John Doe	123 Main St	New York
2	Jane Smith	456 Elm St	Boston
3	Mike Johnson	789 Oak St	Chicago
4	Sarah Davis	234 Pine St	Houston

Below the table, there are sections for 'Create table' and 'Console'. The status bar at the bottom right shows the date and time as '18:31'.

My Database

CID Table – Customer Bills Id Numbers

The screenshot shows the phpMyAdmin interface for the 'cid' table in the 'myflaskapp' database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	username	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	airtel	bigint(10)			Yes	NULL			Change Drop More
3	pgvcl	bigint(12)			Yes	NULL			Change Drop More
4	d2h	bigint(20)			Yes	NULL			Change Drop More
5	gas	bigint(12)			Yes	NULL			Change Drop More

Indexes: No index defined!

Create an index on 1 columns [Go](#)

Partitions: None

Monthly Amount Store Table – %MONTH%amount

The screenshot shows the phpMyAdmin interface for the 'maramount' table in the 'myflaskapp' database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	username	varchar(12)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	airtel	bigint(20)			Yes	NULL			Change Drop More
3	pgvcl	bigint(20)			Yes	NULL			Change Drop More
4	d2h	bigint(20)			Yes	NULL			Change Drop More
5	gas	bigint(20)			Yes	NULL			Change Drop More

Indexes: No index defined!

Create an index on 1 columns [Go](#)

Partitions: None

The screenshot shows the phpMyAdmin interface for the 'myflaskapp' database. The left sidebar lists databases and tables, with 'users' selected. The main area displays the 'Table structure' tab for the 'users' table. The table has six columns: id, name, email, username, password, and register_date. The 'id' column is defined as int(100) with a primary key constraint (PRIMARY, BTREE index). The 'register_date' column is defined as timestamp with a default value of CURRENT_TIMESTAMP.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(100)	latin1_swedish_ci		No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(25)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	email	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	username	varchar(30)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	password	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	register_date	timestamp			No	CURRENT_TIMESTAMP			Change Drop More

Indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	5	A	No	

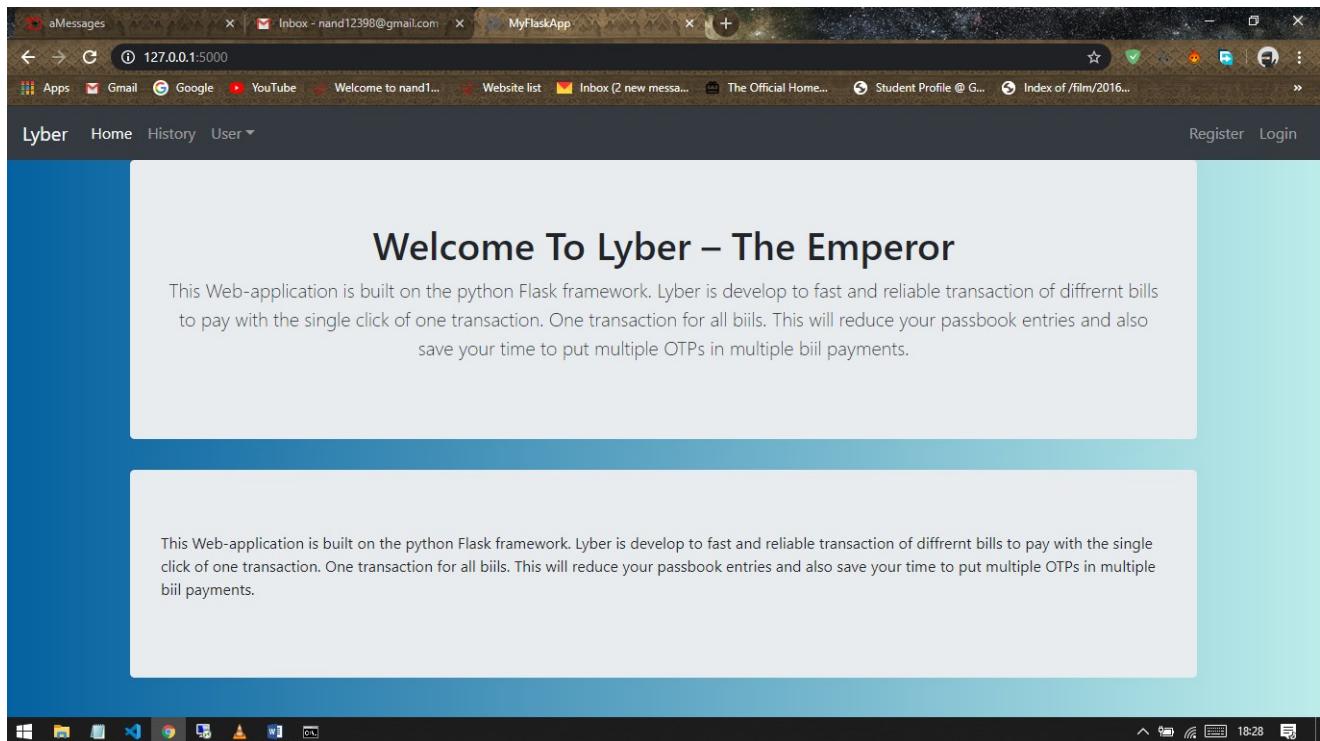
Create an index on: 1 columns [Go](#)

Partitions:

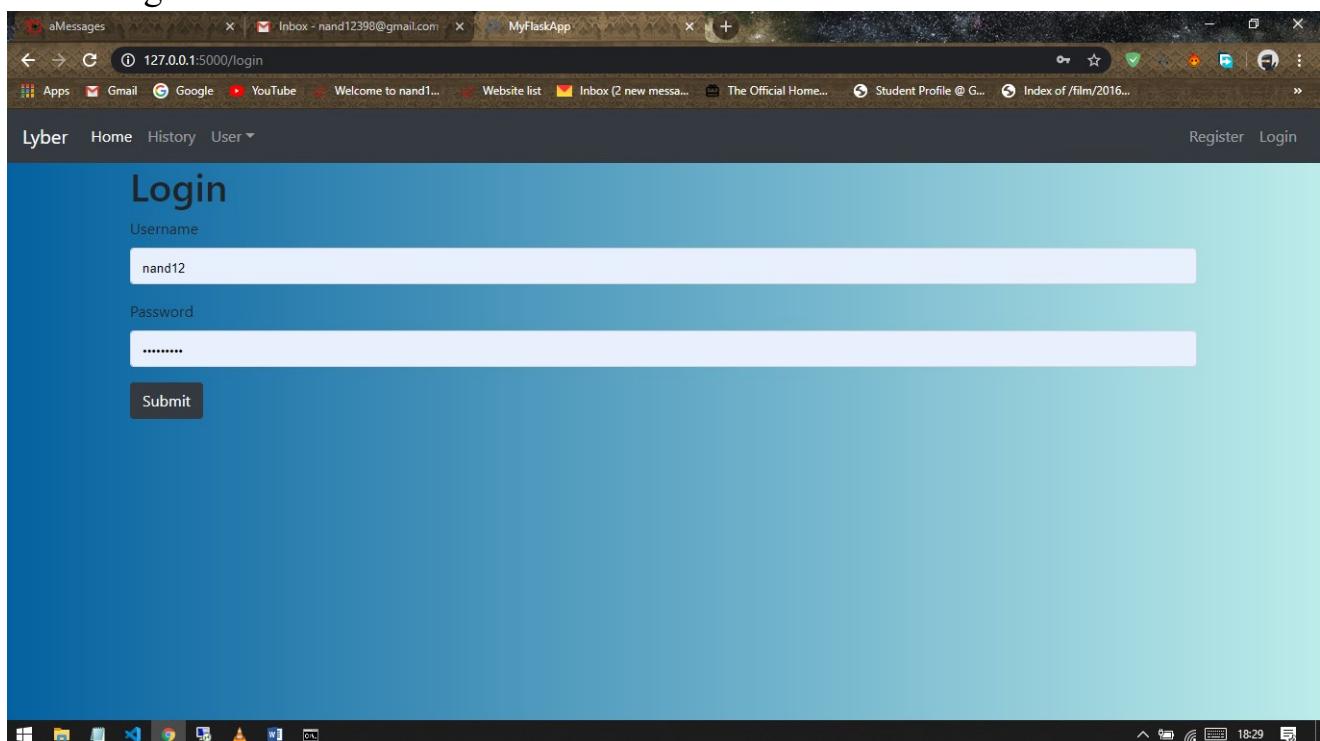
User Table – Login Credentials

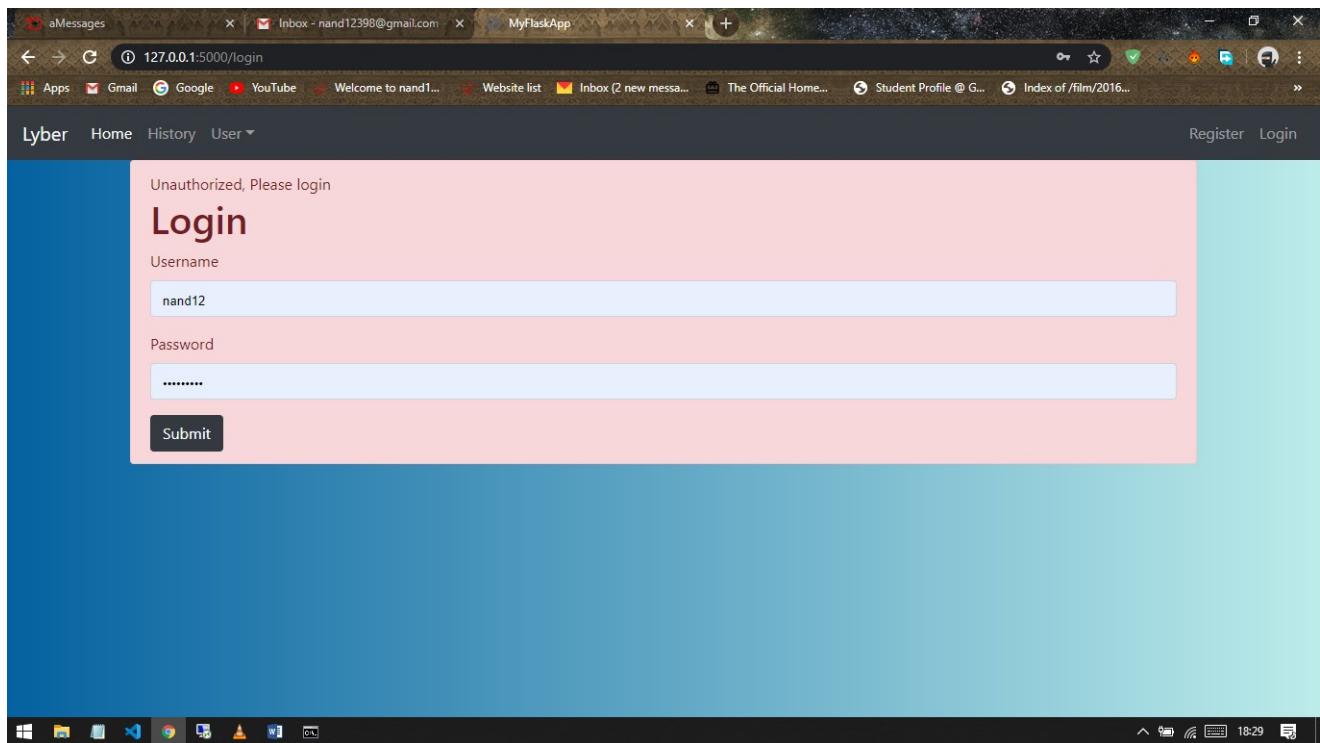
4.2 Snap Shots

✓ Home Screen

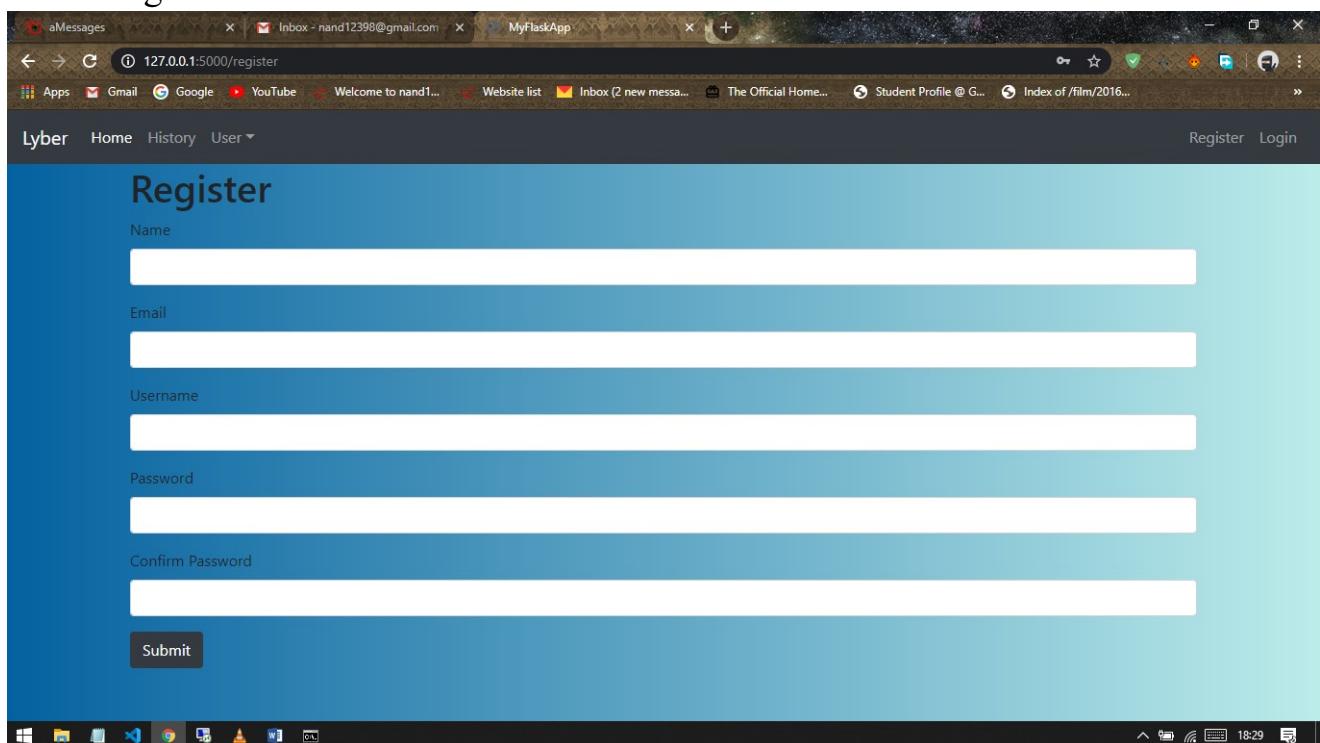


✓ Login Screen





✓ Registration Screen



✓ Dashboard

The screenshot shows a web browser window with the URL `127.0.0.1:5000/dashboard`. The page title is "Dashboard". A message at the top says "You are now Logged in". Below it, a welcome message reads "Welcome Nand Gondha". A section titled "Please Select bills" contains four checkboxes: "Airtel", "PGVCL", "GAS", and "D2H". A "Submit" button is located below the checkboxes. The browser's address bar shows multiple tabs, including "aMessages", "Inbox - nand12398@gmail.com", and "MyFlaskApp". The taskbar at the bottom of the screen displays various icons for Windows applications like File Explorer, Control Panel, and Task View.

This screenshot shows the same dashboard page as the first one, but with additional content. Below the bill selection section, there is a table displaying two bills:

No	Company	Bill Number	Bill Date	Bill Amount
1	pgvcl	123006789781	0	752
2	gas	500001344471	1	510
Total				1262

Below the table is a payment interface from PayPal. It features a yellow "PayPal" button and a smaller "Debit or Credit Card" button. The PayPal logo and the text "Powered by PayPal" are visible. The browser and taskbar elements are identical to the first screenshot.

✓ User

The screenshot shows a web browser window with the URL `127.0.0.1:5000/user`. The page title is "User Information". On the left, there is a placeholder profile picture and the user's name "Nand Gondha" with the email "nand12398@gmail.com" below it. To the right, there are several input fields for user details:

Name :	Nand Gondha
Email ID :	nand12398@gmail.com
Phone Number:	Phone Number
Address :	Address
Birth Date :	dd-mm-yyyy
Airtel Phone Number:	Airtel Phone Number
PGVCL Customer ID:	PGVCL Customer ID
GAS GPSC Customer ID:	GAS GPSC Customer ID
D2H Customer ID:	D2H Customer ID

At the bottom right of the form area is a blue "Edit" button.

✓ Edit User

The screenshot shows a web browser window with the URL `127.0.0.1:5000/editUser`. The page title is "Edit Profile". It features a placeholder profile picture and the user's name "Nand Gondha" with the email "nand12398@gmail.com" below it. The main content area contains several input fields for editing user information:

Address: [Redacted]

Phone Number: [Redacted]

Phone Numbers

Airtel Phone Number: 76000345702

Other Bill Numbers

PGVCL Consumer Number: 123006789781

Gujarat Gas Consumer Number: 500001344471

Videoson D2H Id: 12320980

At the bottom right of the form area is a dark "Submit" button.

✓ History

The screenshot shows a web browser window with the URL `127.0.0.1:5000/history`. The page title is "History". Below the title, there is a list of items:

- Artical One
- Artical two

The browser's address bar also displays the URL `127.0.0.1:5000/history`. The top navigation bar includes links for "Lyber", "Home", "History", "User", "Register", and "Login". The bottom taskbar shows various Windows icons.

✓ Payment

The screenshot shows a web browser window with the URL `127.0.0.1:5000/dashboard`. The page title is "Dashboard". On the left, there is a sidebar with the heading "Please Select bills" and a list of companies:

- Airtel
- PGVCL
- GAS
- D2H

Below this is a "Submit" button. To the right, there is a table:

No	Company
1	pgvcl
2	gas
Total	

On the right side of the dashboard, there is a large overlay for "Pay with PayPal". The PayPal logo is at the top. Below it, the text "Pay with PayPal" and "With a PayPal account, you're eligible for free return shipping, Purchase Protection, and more." is displayed. There are input fields for "nand12398@gmail.com" and "Password". A checkbox for "Stay logged in for faster purchases" is present. At the bottom of the overlay are "Log In" and "Having trouble logging in?" buttons, along with a "Create an Account" link. The browser's address bar shows the URL `sandbox.paypal.com/checkoutnow?sessionID=229b48e13d_mt6ntk6nt...`.

Chapter V: Summary

5.1 Summary

In general, this project aims to enhance efficiency and at the same time provide the easy and smart work without taking more time. The people don't need to remember all the things now, they also get notified when the bills generated and one time transaction to make pay all the bills without taking more time. So that people need to do some work about the checking their bill history and other things. They also change the bill number and edit the personal information. They can also use this from desktop as well as mobile.

5.2 Future Work

In Future I will implement Easy accessing for the database or other website and integrate the Wallet to pay and access the bills fast.

Appendix:

1. BMC Report

The screenshot shows the GTU Project Monitoring and Mentoring System (PMMS) interface. At the top, there are several tabs open in a browser, including 'aMessages', 'Inbox - nand12398@gmail.com', 'BE8DashBoardForStudent', 'PeriodicProgressReportByStudent', 'UploadBusinessModelCanvas', and others. The main content area displays the 'Upload Business Model Canvas (BMC)' form. It includes fields for personal information (Name, College, Enrollment No., Mobile No., Email ID), project details (Project Name, Team ID), and file uploads ('Upload BMC File' and 'Upload BMC Report'). Below the form is a table titled 'List of Business Model Canvas (BMC)' showing one entry. At the bottom, there is a footer note: '© Gujarat Technological University. All Rights Reserved.'

2. PPR Report

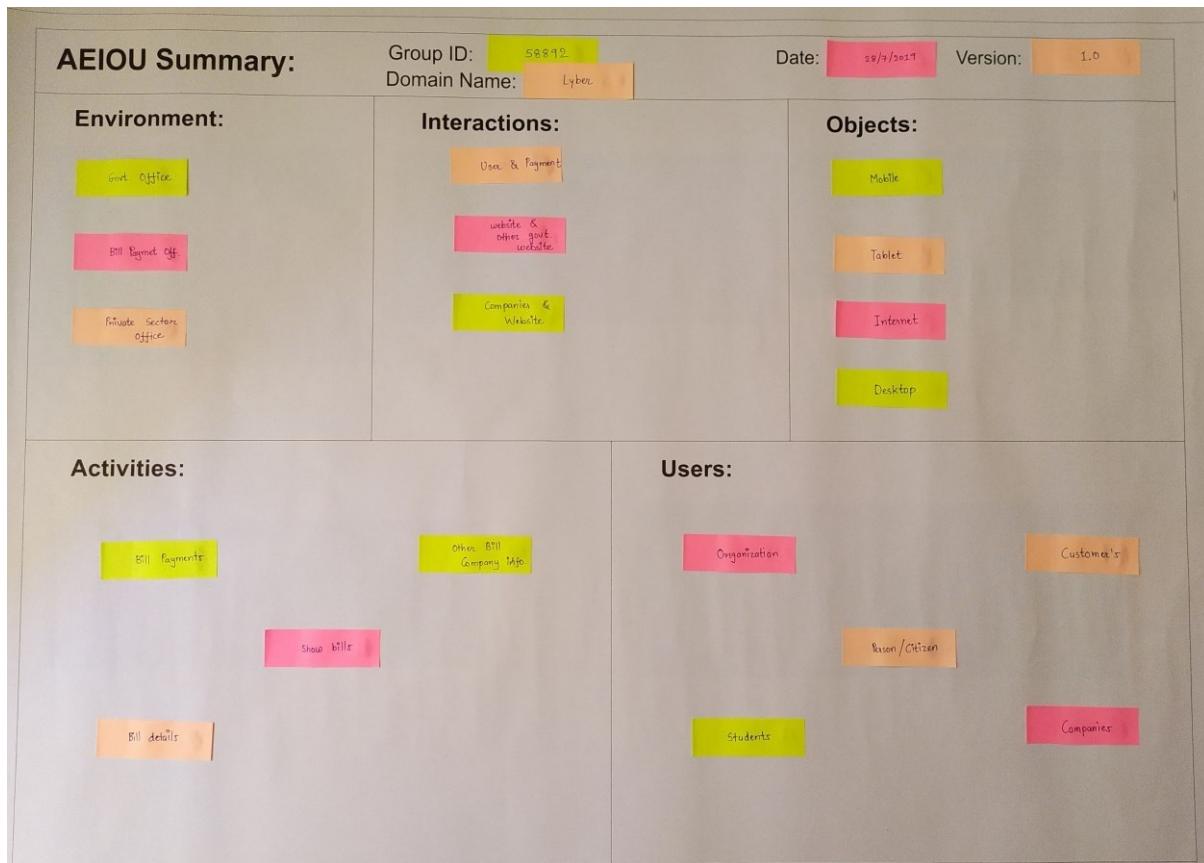
The screenshot shows the GTU Project Monitoring and Mentoring System (PMMS) interface. Similar to the previous screenshot, it has multiple tabs open at the top. The main content area displays the 'Periodic Progress Report (PPR)' form. It includes a large blue button labeled 'ADD NEW PERIODIC PROGRESS REPORT (PPR)'. Below this is a note: 'Note : You have to submit PPR in chronological order only. For e.g. you cannot submit 4th PPR, until you submit First PPR, Second PPR and Third PPR.' A table titled 'Submitted/Saved PPR' lists four entries: 'First PPR' (Status: Reviewed, Comment: ok), 'Second PPR' (Status: Reviewed, Comment: -), 'Third PPR' (Status: Reviewed, Comment: -), and 'Forth PPR' (Status: Submitted, Comment: -). Each row has a 'View' link under the 'Action' column.

3. PDE – BMC PDF

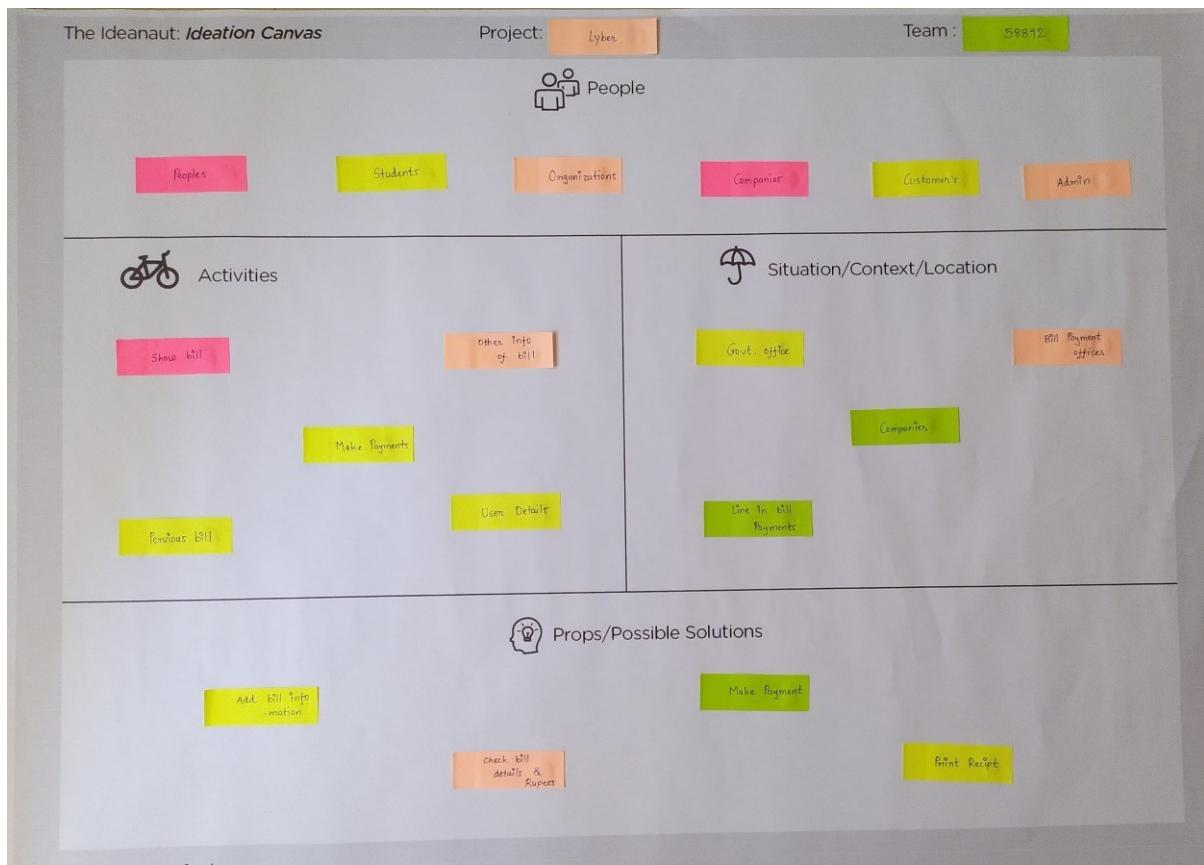
Check the PDE.pdf & BMC.pdf

4. Copy of All Canvas

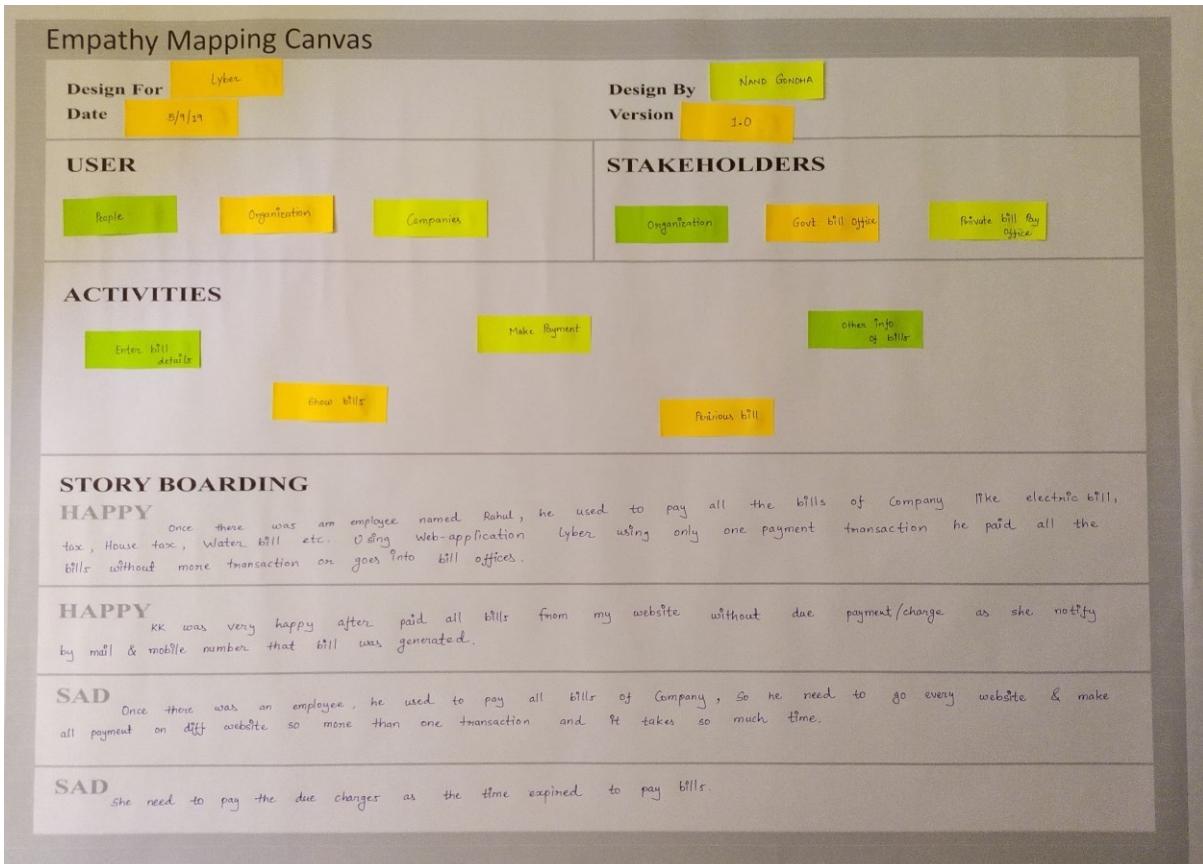
4.1 AEIOU Canvas



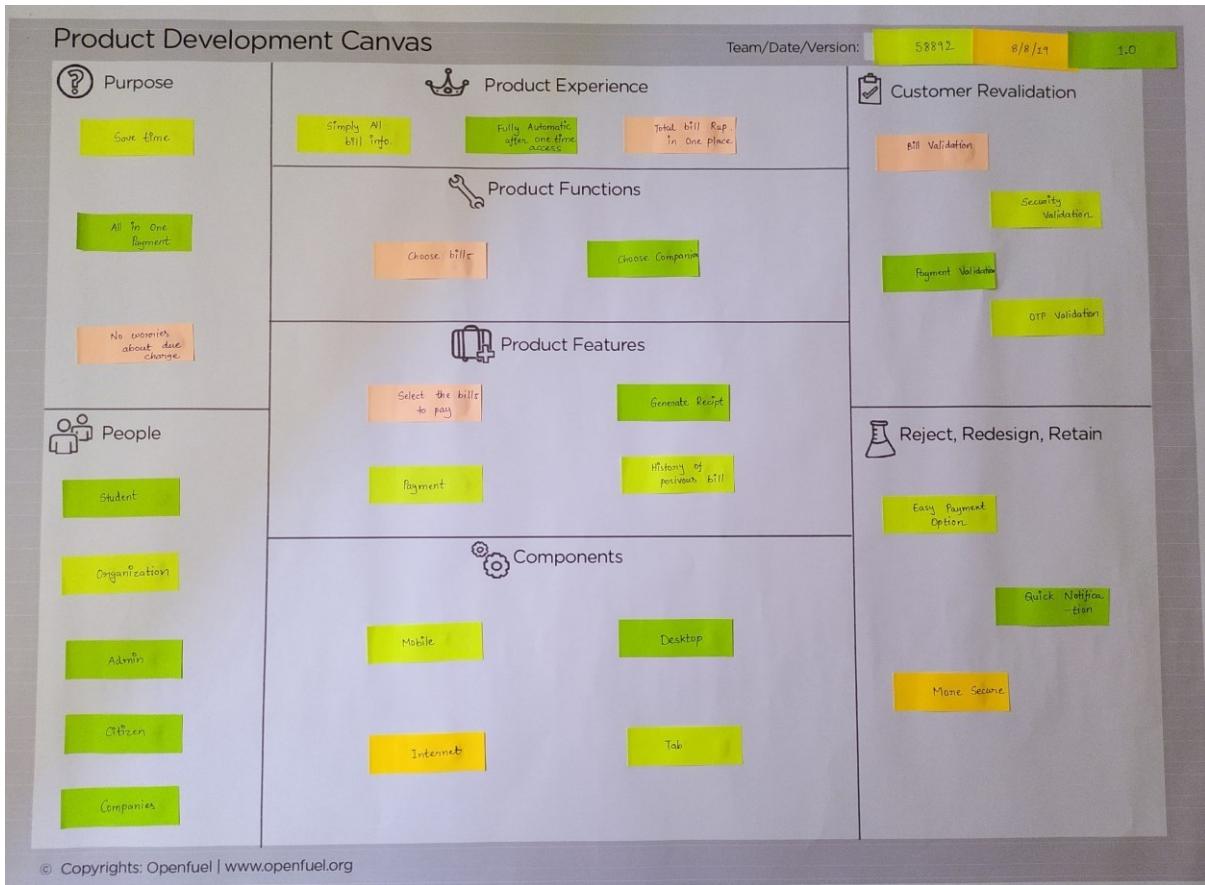
4.2 Ideation canvas



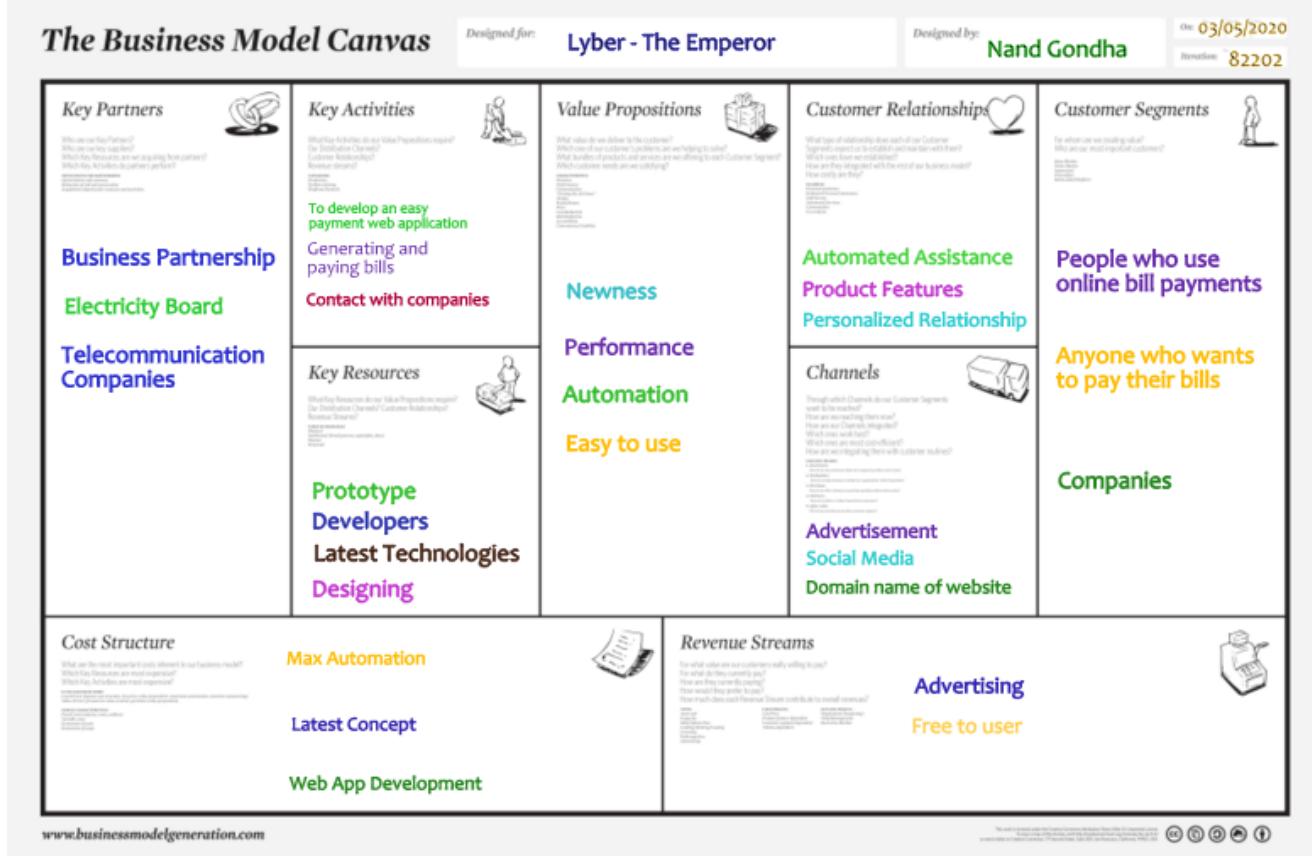
4.3 Empathy Mapping canvas



4.4 Product Development canvas



4.5 Business Model Canvas





THE USER DEFINED PROJECT

BUSINESS MODEL REPORT ON

“Lyber – The Emperor”

Submitted by

GONDHA NAND KISHORBHAI – 160470116012

Under the Guidance of
Prof. Darshan P Upadhyay

In fulfilment for the award of the degree

**BACHELOR OF ENGINEERING
IN
INFORMATION TECHNOLOGY**

Affiliated by

V.V.P. Engineering College, Rajkot.

GUJARAT, INDIA

SEMESTER VIII
ACADEMIC YEAR: 2019-20

ABSTRACT

The project entitled “Lyber – The Emperor – One Place For All”. This is a payment web application develop for the making all the bill payments from one place with one transaction. There are many third Party application and web application available in market. They all provide to pay the different bills like electric bill, mobile bill, gas bill and other bills. And you have to do multiple transaction to pay the different bills. But this web application makes customers interaction that much easy, that with only one transaction they can pay all the selected bills directly, Like if user selected the gas bill, electric bill and water bill then it gets total amount of three of them bill and user need to do one transaction of the final amount and this web application divides there money and transfer to relatable bill website or make payment.

User only need to do one transaction only. It is very time saving and it also have different features like notification and other information about different bills and companies. User just need to fill the details of bills unique id first time when they register and provide the bill company details and unique id of bill.

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of task would be incomplete without the mention of the people who made it possible, whose constant guidance, support and encouragement crown all the efforts with success.

My sincere thanks to Principal **Dr. Jayesh Deshkar**, H.O.D. of I.T. department **Prof. Darshana H. Patel** and **Prof. Darshan P Upadhyay** for having consented to be the guide and for their valuable guidance and support during the preparation of this project.

Also, she helped us to work out on the software side of our project. Last but not the least, our sincere dedication and keen to learn something new helped us to achieve success in the project.

I would also like to thank to GOD, my family and friends who have been a constant source of inspiration.

- Team

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmadabad



SELF-DECLARATION

I Nand Gondha the student of Information Technology Branch, having Enrolment number 160470116012 enrolled at V.V.P. Engineering College hereby certify and declare the following:

1. I defined my project based on inputs of Prof.Darshan Updhyay and I will make significant efforts to make attempt to solve the challenges. I will attempt the project work at my college. I will adopt all ethical practices to share credit amongst all the contributors based on their contributions during the project work.
2. I am not purchased the solutions developed by any 3rd party directly and the efforts are made by me, under the guidance of guides.
3. The project work is not copied from any previously done projects directly. (Same project can be done in different ways but if it has been done in same manner before then it may not be accepted)

I understand and accept that he above declaration if found to be untrue, it can result in punishment/cancellation of project definition to I including failure in the subject of project work.

GONDHA NAND KISHORBHAI

Place: Rajkot

Date: ___/___/___



VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING

Kalavad Road Virda Vajadi, Rajkot, Gujarat 360005

INFROMATION ENGINEERING DEPARTMENT

2019-20

CERTIFICATE

Date: ___ April 2020

This is to certify that the dissertation entitled **LYBER – The Emperor** has been carried out by **NAND GONDHA**(160470116012) under my guidance in fulfilment of the degree of Bachelor of Engineering in INFORMTION ENGINNERING (8th Semester) of Gujarat Technological University (GTU), Ahmadabad during the academic year 2019-20.

Internal Guide

Prof. Darshan Upadhyay

Head of Department

Prof. Darshana Patel

Table of Contents

Chapter 1 INTRODUCTION	8
Chapter 2 CONTENTS	9
2.1 Key Partners	10
2.2 Key Activities	11
2.3 Value Proposition.....	12
2.4 Key Resources	13
2.5 Customer Relationship	14
2.6 Customer Segments	15
2.7 Channel	16
2.8 Cost Structure.....	17
2.9 Revenue Stream	17
Chapter 3 CONCLUSION.....	18

Table of Figures

1. Figure I Unfilled Business Model Canvas	8
2. Figure II Proposed Business Model Canvas	9
3. Figure III Key Partners	10
4. Figure IV Key Activities	11
5. Figure V Value Proposition	12
6. Figure VI Key Resources	13
7. Figure VII Customer Relationship	14
8. Figure VIII Customer Segments	15
9. Figure IX Channel.....	16
10. Figure X Cost Structure	17
11. Figure XI Revenue Stream.....	17

Chapter 1 Introduction

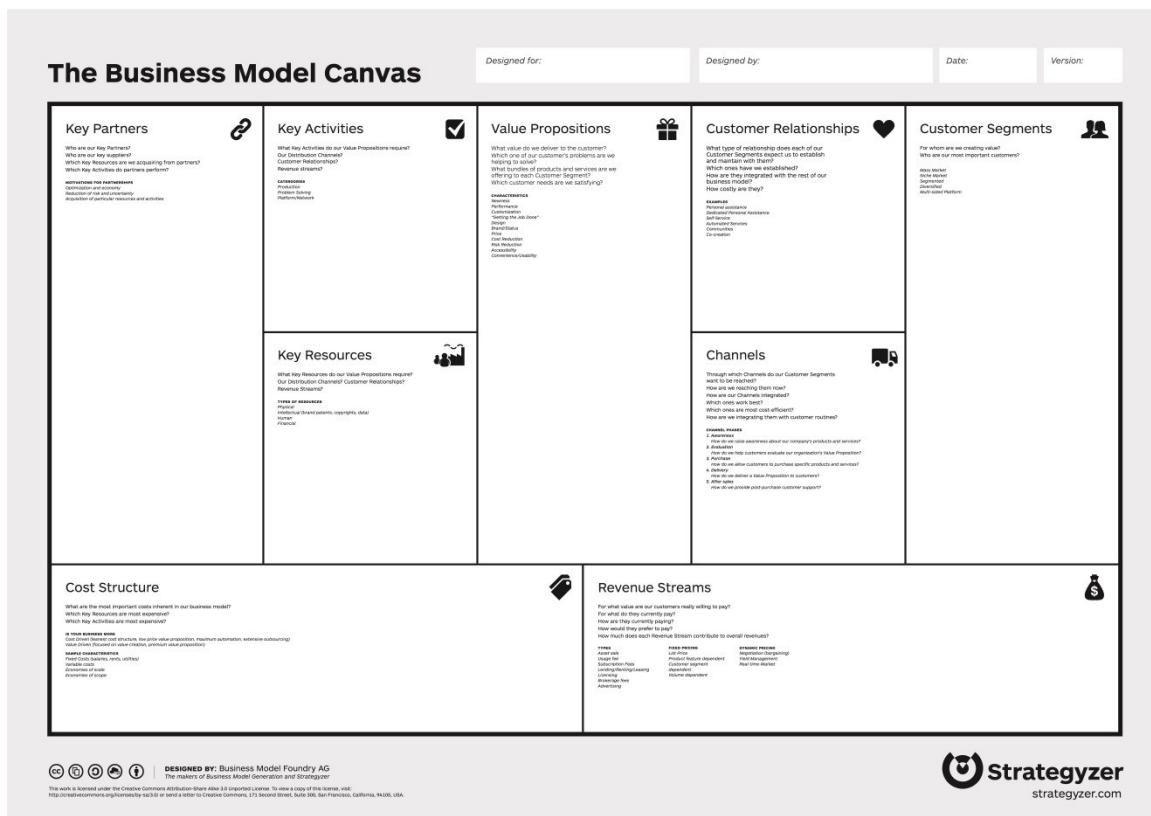


Figure I Unfilled Business Model Canvas

Thus business model canvas can be used to visualize such customer expectations and market problems. This exercise will increase the market strategy and implementation of technology. This will make them more effective in market.

This exercise brings discussions on viability and cost effectiveness into picture with their impact. This exercise will enable us to have knowledge on the steps required to ensure that a solution they develop via project should have a user who can afford it with desired needs. This exercise helps us to understand the true value of the proposed solution.

Business Model Canvas is used to validate the market significance of products and services which will be of technology nature in this case. Technology projects are often solutions or processes that solve a technical problem. However the market implementation of such solutions also require that the problem solution is designed to overcome not just the technical barriers but also market and business related barriers of costs, customer reach and

collaborations and those that pertain to the practical nature of limited initial capacities within the team.

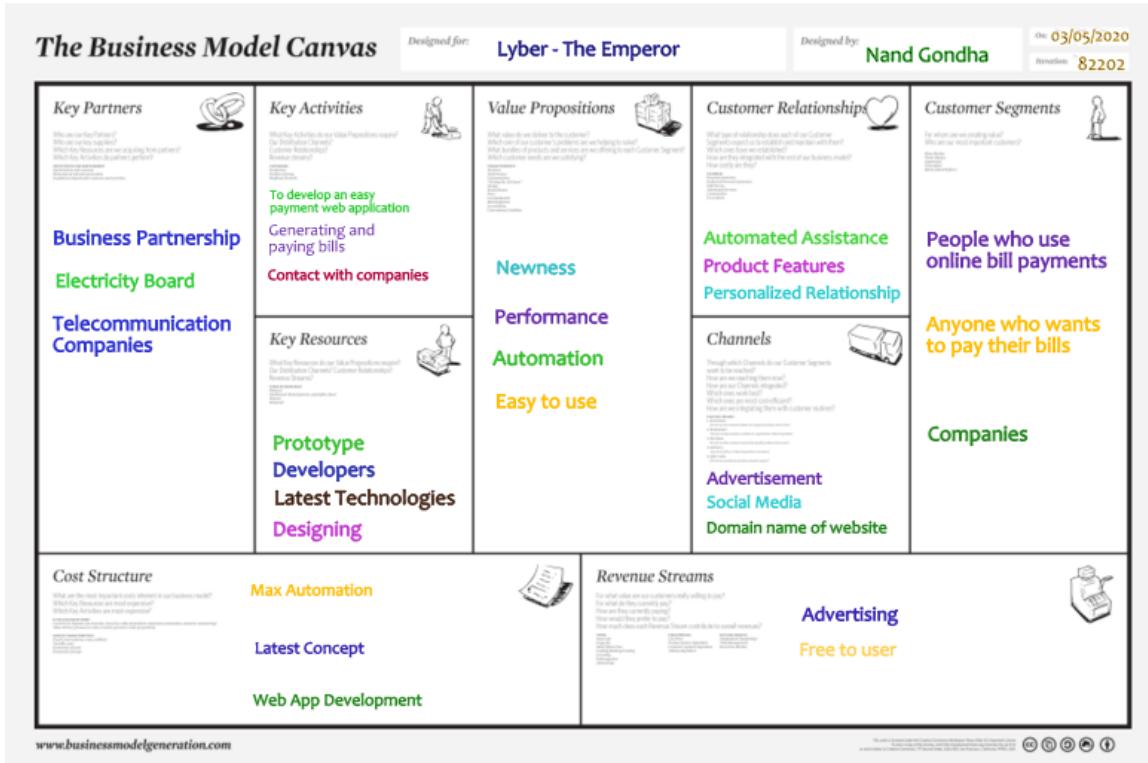


Figure II Proposed Business Model Canvas

Chapter 2 Contents

2.1 KEY PARTNERS

In this we can do partnership with different companies according to our product. By doing this we can get the key component for the automation.

- Business partnership:
 - A Different companies like bill companies, electricity, telecommunication, and other companies.
- Electricity Board & other board that provide different kind of service on charges based
- Telecommunication Companies:
 - With the access of their database we can provide easy and fast access of bill amounts.

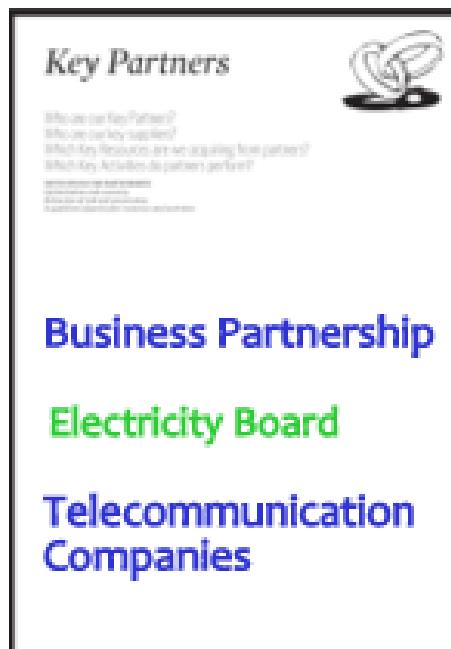


Figure III Key Partners

2.2 KEY ACTIVITY

In this we develop how the users approach to us and how the platform will work and up.

- To develop an easy payment web application.
- Generating and paying bills
- Contact with companies

For the database of different bills amount.

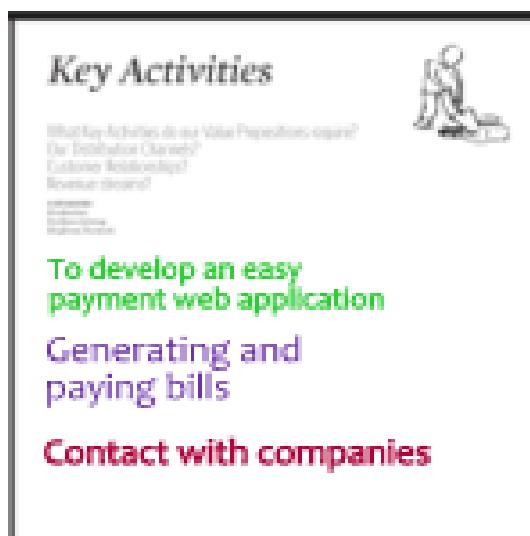


Figure IV Key Activities

2.3 VALUE PROPOSITION

In this one can directly come in contact with customer requirement.

- Newness:

Our project's is based on automation so it is nearly new in the market.

- Performance:

- Automation:

Getting the job done.

- Easy to use:

This web application is easy to use for any user.



Newness

Performance

Automation

Easy to use

Figure V Value Proposition

2.4 KEY RESOURCES

In this section we can get idea about, from which kind of data we generate and work our website.

- Prototype
- Developers:
To develop more easy and efficient web application with machine learning.
- Latest Technology:
It requires latest and up to date data and new technologies as resources for our project implementation.
- Designing:
Designer to make the website looks nice.



Figure VI Key Resources

2.5 CUSTOMER RELATIONSHIP

In this section we get to know about how they will manage the relationship with customer by giving them lucrative services.

- Automated Assistance

An automatic assistance is helpful for customers for their easy use and less time.

- Product feature

How the user get more from the platform than others.

- Personalized Relationship

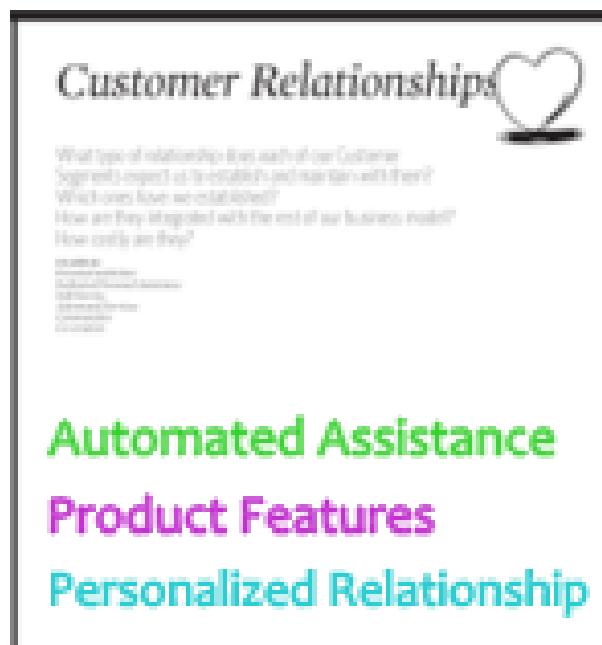


Figure VII Customer Relationship

2.6 CUSTOMER SEGMENT

In this section, who are our users?

- People who use online bill payments
- Anyone who wants to pay their bills
- Companies

Above all named customers are interested to use this platform.

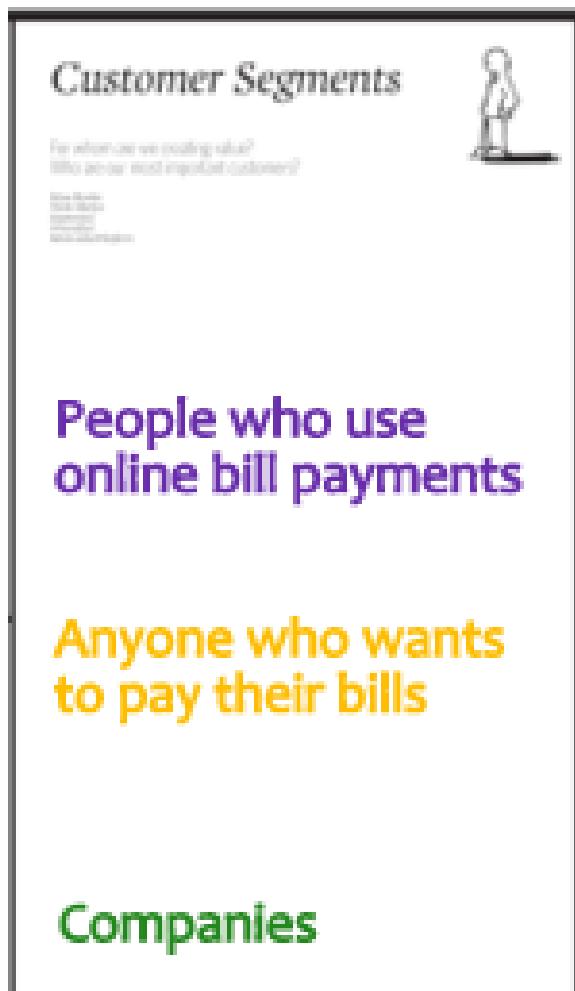


Figure VIII Customer Segments

2.7 CHANNEL

In this we got to know about how they will approach customers, which media they should select for the marketing of their product.

- Advertisement
- Social Media
- Domain name of website

All above options are best for marketing for our project.



Figure IX Channel

2.8 COST STRUCTURE

They can attract customers towards their product by giving easy to use their daily work and other offers and discount.

- Max. Automation:

This project is fully automatic which attracts the customer to use it.

- Latest Concept:

This project is based on new concept of paying bills which attracts the large users.

- Web App Development:

Using this user can approach to us and pay the bills.



Figure X Cost Structure

2.9 REVENUE STREAM

- Advertising
- Free to use

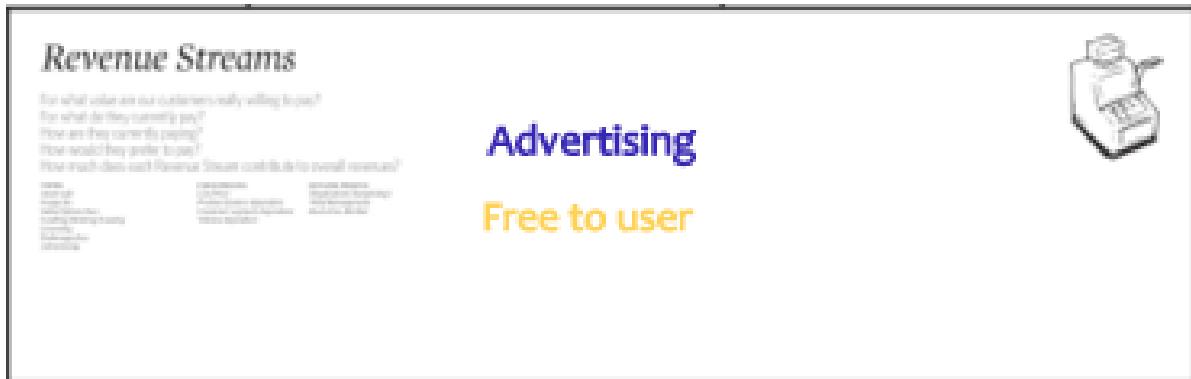


Figure XI Revenue Stream

Chapter 3 Conclusion:

Business Model Canvas will be helpful to people to embark entrepreneurship. One can make a good product from their project. Increase manufacturing unit in India and enhance the economy of India.

College : VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING,
 RAJKOT
 Department : Information Technology
 Discipline : BE
 Semester : Semester 8
 Project Name : Lyber
 Team ID : 82202

Form 1 – APPLICATION FOR GRANT OF PATENT

Applicants :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Gondha Nand Kishorbhai	Indian	Information Technology , VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING, RAJKOT , Gujarat Technological University.	7600345702	nand12398@gmail.com

Inventors :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Gondha Nand Kishorbhai	Indian	Information Technology , VYAVASAYI VIDYA PRATISHTHANS SANCH. COLLEGE OF ENGINEERING, RAJKOT , Gujarat Technological University.	7600345702	nand12398@gmail.com

I/We, the applicant(s) hereby declare(s) that:

Following are the attachments with the applications :

Form 2 - PROVISIONAL/COMPLETE SPECIFICATION

1 . Title of the project/invention :

Lyber

2. Preamble to the description :

Provisional

3. Description

a) Field of Project / Invention / Application :

Web application that is used to pay the bills like electricity water etc..., Its work on one click transaction and all your bills paid less user and less transaction.

b) Prior Art / Background of the Project / Invention :

Now a days many website are available to pay the bills but there are very few website that provide the many transaction using just one transaction or payment.

c) Summary of the Project / Invention :

This platform is developed for connecting different website of tax and bills and use to pay from only one platform. Due to increase of online payment and transaction we need to remember the bill number or tax number of all the

bill and tax. We need to open all the website and enter the details and pay the amount and done the transaction. So rather than opening all the different website and enter the details we directly pay the all bill using single payment.

d) Objects of Project / Invention :

To decrease the number of transaction and decrease the time taken to pay all the bills.

e) Drawings :

f) Description of Project / Invention : (full detail of project) :

The project entitled “Lyber – The Emperor – One Place For All”. This is a payment web application develop for the making all the bill payments from one place with one transaction. There are many third Party application and web application available in market. They all provide to pay the different bills like electric bill, mobile bill, gas bill and other bills. And you have to do multiple transaction to pay the different bills. But this web application makes customers interaction that much easy, that with only one transaction they can pay all the selected bills directly, Like if user selected the gas bill, electric bill and water bill then it gets total amount of three of them bill and user need to do one transaction of the final amount and this web application divides there money and transfer to relatable bill website or make payment. This Platform is used to pay the all tax and bills using one payment. This platform divided the all money to consecutive website or tax and pay automatically. User just need to insert one time details of tax and bill numbers and this platform automatically collect all the details of bill and rupees and user just need to pay total amount of that and this platform divide the rupees and pay their tax and bills.

g) Examples :

h) Claims (Not required for Provisional Application) / Unique Features of Project

Automation in Payment, One click for all transaction.

4. Claims

5. Date and signature

6. Abstract of the project / invention :

The project entitled “Lyber – The Emperor – One Place For All”. This is a payment web application develop for the making all the bill payments from one place with one transaction. There are many third Party application and web application available in market. They all provide to pay the different bills like electric bill, mobile bill, gas bill and other bills. And you have to do multiple transaction to pay the different bills. But this web application makes customers interaction that much easy, that with only one transaction they can pay all the selected bills directly, Like if user selected the gas bill, electric bill and water bill then it gets total amount of three of them bill and user need to do one transaction of the final amount and this web application divides there money and transfer to relatable bill website or make payment.

User only need to do one transaction only. It is very time saving and it also have different features like notification and other information about different bills and companies. User just need to fill the details of bills unique id first time when they register and provide the bill company details and unique id of bill.

Form 3 – STATEMENT AND UNDERTAKING UNDER SECTION 8

Name of the applicant(s) : I/We, Gondha Nand Kishorhai

Hereby declare :

Name,Address and Nationality of the joint applicant : (i) that I/We have not made any application for the same/substantially the same victim invention outside India.

(ii) that the rights in the application(s) has/have been assigned to

Name of the Country	Date of Application	Application Number	Status of the Application	Date of Publication	Date of Grant
N/A	N/A	N/A	N/A	N/A	N/A

(iii)That I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within three months from the date of filing of such application.

Dated this 7 day of April 2020

To be signed by the applicant or
his authorised registered patent
agent :

Name of the Natural Person who
has signed : Gondha Nand Kishorbhai

To,
The Controller of Patents,
The Patent Office,
At Mumbai