

**Project Report**  
**On**  
**ONLINE ELECTRICITY BILL MANAGEMENT**  
**SYSTEM**



**Submitted in partial fulfillment for the award of**  
**E-Diploma in Advance Computing E-DAC**

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## **1. Introduction**

This system is named as Online Electricity Bill Management System. This system is made to keep the records about the bills of the consumer. The admin can manage all the accounts and the registered users like admin, sub-admin and consumer and they can only manage their own accounts. This system helps in maintaining the bills and the payments.

A different module is there for admin to check the customers details if their job requires. Admin, Sub-admin, and consumer all have a different interface and different privileges according to their need.

Like a consumer can only manage his account and cannot see any details of other consumer, admin can see the details of all the consumer's accounts and admin can manage all the accounts including the consumer's and sub-admin account.

This system also has the option for consumers to pay their electricity bills by online mode through card payment.

This system also has the feature to add and delete consumer's and sub-admin accounts in case a consumer wants to cut the connection or a sub-admin wants to leave the job.

## 2. Project Overview

### 2.1 Purpose:

The project is a web-based application where users can get instant electricity bill and pay them online via credit card. The system automates the conventional process of paying electricity bill by visiting the place.

### 2.2 Scope:

The scope of our project is this software reduces the amount of manual data entry and gives greater efficiency. The User Interface of it is very friendly and can be easily used by anyone.

1. It also decreases the amount of time taken to write details.

2. Admin does not have to keep a manual track of the consumer. The system automatically calculates fine and

the system excludes manual bill calculation.

3. Consumer do not have to visit the office for bill payment.

4. There is no need of delivery boy for delivering bills to consumer place. Thus, it saves human efforts and resources.

5. We used Sub-Admin as data entry operator like he/she will insert reading unit and update the generate bill. So here we save time for admin either entering units manually.

### 2.3 Feasibility Study:

Feasibility is determination of whether a projects worth doing or not. Before actually recommending the new system, it is important to investigate if it is feasible to develop the new system.

Before developing and implementing a system we have sure that our system is feasible in the following ways:

#### ➤ Technical Feasibility:

In the type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower, software, hardware, etc...The system which we run in Linux as well as windows platform and hence are suitable for the end-user. The system is technically feasible because it does not require too much manpower and runs with the basic available equipment.

#### ➤ Operational Feasibility:

In this type of feasibility study the operation implementation of the system is considered. Checking is done regarding whether it is feasible for the user department to use the software or will there be any inertial resistance from the users. Thus, the proposed system is said to be

operationally feasible only if the end users are able to understand the system clearly and correctly and can use the system with ease and with the minimum training.

We need to train our staff so that the system will be handled efficiently. As the system developed is very user-friendly and easy to operate for any person with minimum computer knowledge of computer is also able to handle our system. It is also easy to operate due to the user-friendly interface developed using Java.

➤ **Economical Feasibility:**

In this type of feasibility study, the benefits of the system to the organization are considered by taking into consideration the cost-benefit analysis. The basic software, which is required for the implementation of the system, is Java which is easily available. Also with the basic training user can use this software thus reducing the training cost to the organization. Thus, using this system is feasible for the organization and learning Java and the proposed system is economically feasible for the organization. As our system goes online we will have a lot of customers adding to our publicity. This in turn will increase our profit.

### 3. Overall Description: -

#### 3.1 Product Features

The main feature of this system is the consumers can pay electric bill online via card payment. The system shows the details of that consumer and consumer can also update his profile. The consumer must be a registered before he uses this online electricity bill management system. The consumer can see his bill report and payment history. Consumer can pay bill online so it will save time for admin as well as consumer.

#### 3.2 Technology Used

##### ➤ BACK END

Framework	Spring Boot
ORM Tool	Hibernate
Database	MySQL
Build Tool	Maven
Language	Java

##### ➤ FRONT END

HTML  
CSS  
JavaScript  
Bootstrap

#### 3.3 User Classes

##### ➤ Admin

The super user, admin class represents complete authority over the system an admin can

1. Admin can add Admin, sub-Admin and Consumer.
2. View the number of sub-admin and consumers.
3. Admin can update his own profile.
4. Admin can update and delete the sub-admin and consumer.
5. The bill generated by admin to particular consumer by searching consumer Id
6. Admin can see bill report by particular consumer by searching consumer Id
7. Admin can see bill payment report by particular consumer by searching consumer Id

##### ➤ Sub-Admin

1. Sub-Admin can see the total no of consumer.
2. Sub-Admin can update his profile.
3. Sub-Admin can view consumer.
4. The bill can be generated by sub-admin by particular consumer by searching consumer Id

5. Sub-Admin can see bill report by particular consumer by searching consumer Id
6. Sub-Admin can see bill payment report by particular consumer by searching consumer Id

➤ **Consumer**

1. This system consumer can easily register using Signup.
2. The consumer can easily see his profile and update profile.
3. Consumer can see current bill and pay via card payment and also print the bill.
4. Consumer can see bill history.
5. Consumer can see payment history.

### 3.3 General Constraints

The “Online Electricity Bill Management System” should run on all Internet Browser and all processors which supports the Internet Browser.

➤ **Architecture Diagram: -**

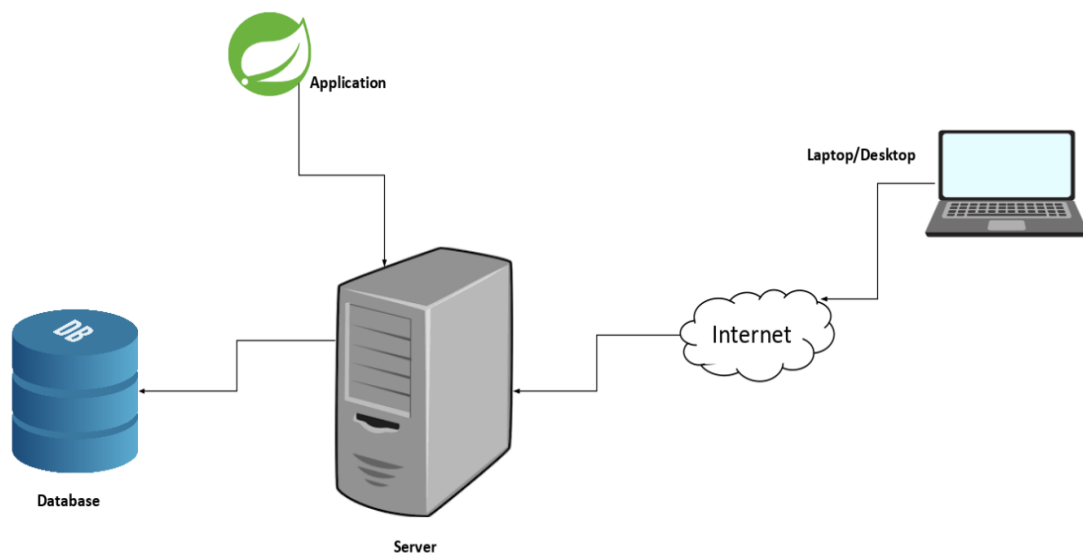


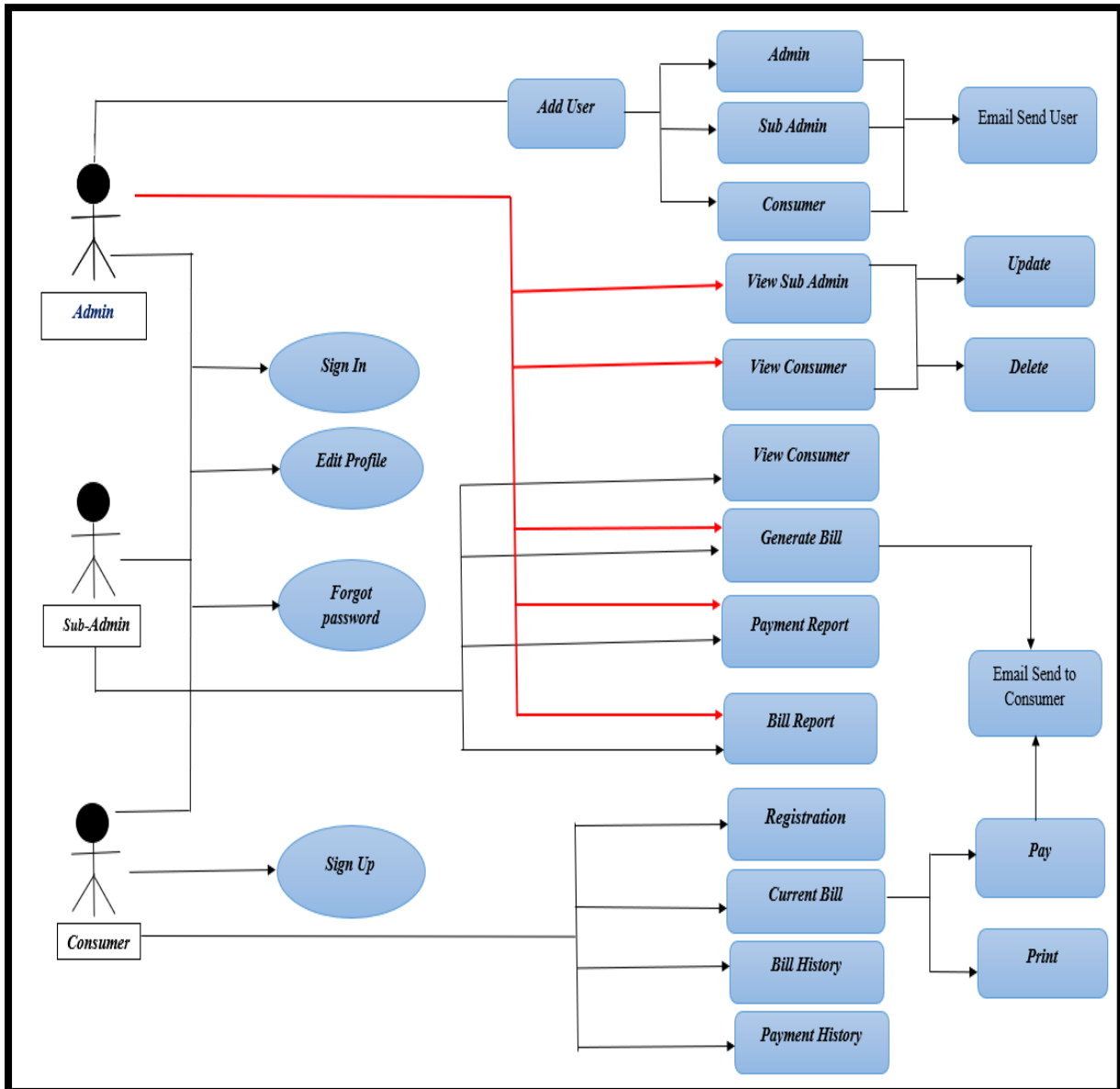
Figure 1. Architecture Diagram



## ➤ Software Requirements Specification

### 1. Functional Requirements

#### ➤ Complete System



**Figure 2: Use case diagram**

There is entry interface that is intended to admin, sub-admin and consumer to login to the system by there own account. If the consumer is not registered, he/she can register using sign-up. The sub-admin is added only by admin. User has to enter the login credentials i.e., Email-Id and Password information for Login.

➤ **Scenario 1: Mainline Sequence**

1. **Admin:** Enter Admin Email-Id and Password.
2. **System:**
  1. Display the Admin dashboard where admin can see admin profile and update profile.
  2. Admin can add Admin, Sub-Admin and Consumer.
  3. View number of consumers.
  4. Generate bills by searching particular consumer Id.
  5. Can view bill reports by searching particular consumer Id.
  6. Can see payment report by searching particular consumer Id.

➤ **Scenario 2: Mainline Sequence**

1. **Sub-Admin:** Enter Sub-Admin Email-Id and Password.
2. **System:**
  1. Display the Sub-Admin dashboard where sub-admin can see sub-admin profile and update profile.
  2. View number of consumers.
  3. Generate bills by searching particular consumer Id.
  4. Can view bill report by searching particular consumer Id.
  5. Can see payment report by searching particular consumer Id.

➤ **Scenario 3: Mainline Sequence**

1. **Consumer:** Enter consumer Email-Id and Password
2. **System:**
  1. Display the consumer dashboard where consumer can see consumer profile and update profile.
  2. View current bill and also pay bill and print bill.
  3. Consumer can view bill history.
  4. Consumer can view payment history.

## ➤ Sequence Details

### 1. Admin

#### ❖ Profile

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on profile.
4. **System:** Opens profile page.
5. **Admin:** Click Update Button.
6. **System:** Update form get open
7. **Admin:** Enter Update details and click on update button

#### ❖ Add User

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on Add user.
4. **System:** Opens the register page.
5. **Admin:** Enter the user details and select role  
[Admin, Sub-Admin and Consumer] Click on submit Button.
6. **System:** It display User register successfully.

#### ❖ View Consumer

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on view consumer.
4. **System:** Available consumer list page get open.
5. **Admin:** Can update and delete consumer profile on click  
Update and delete button.
6. **System:** Update page open on click update button.
7. **Admin:** Enter update details and click on update.
8. **System:** Update Successfully message display.

#### ❖ View Sub-Admin

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on view sub-admin.
4. **System:** Available Sub-admin list page get open.
5. **Admin:** Can update and delete sub-admin profile on click  
Update and delete button.
6. **System:** Update page open on click update button.
7. **Admin:** Enter update details and click on update.
8. **System:** Update Successfully message display.
9. **Admin:** Click on delete button.

10.**System:** Sub-admin deleted successfully message display.

### ❖ Generate Bills

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on view generate bill.
4. **System:** Opens search by id page.
5. **Admin:** Enters Consumer Id click on search button.
6. **System:** Opens generate bill page.
5. **Admin:** Enter consumer units and select the months and click on generate bill button.
7. **System:** Bill generated successfully for the consumer message get displayed.

### ❖ Bill Report

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on bill report.
4. **System:** Opens search by id page.
5. **Admin:** Enters Consumer Id click on search button.
6. **System:** Show consumer bill details page display.

### ❖ Payment Report

Main Mainline Sequence:

1. **Admin:** Admin logs in.
2. **System:** Opens admin home page.
3. **Admin:** Clicks on payment report.
4. **System:** Opens search by id page.
5. **Admin:** Enters Consumer Id click on search button.
6. **System:** Show consumer payment details page display.

## 2. Sub-Admin

### ❖ Profile

Main Mainline Sequence:

1. **Sub-Admin:** Sub-Admin logs in.
2. **System:** Opens sub-admin home page.
3. **Sub-Admin:** Clicks on profile.
4. **System:** Opens profile page.
5. **Sub-Admin:** Click Update Button.
6. **System:** Update form get open
7. **Sub-Admin:** Enter Update details and click on update button

### ❖ View Consumer

Main Mainline Sequence:

1. **Sub-Admin:** Sub-Admin logs in.

2. **System:** Opens sub-admin home page.
3. **Sub-Admin:** Clicks on view consumer.
4. **System:** Available consumer list details page get open.

#### ❖ Generate Bills

Main Mainline Sequence:

1. **Sub-Admin:** Sub-Admin logs in.
2. **System:** Opens sub-admin home page.
3. **Sub-Admin:** Clicks on view generate bill.
4. **System:** Opens search by id page.
5. **Sub-Admin:** Enters Consumer Id click on search button.
6. **System:** Opens generate bill page.
5. **Sub-Admin:** Enter consumer units and select the months and click on generate bill button.
7. **System:** Bill generated successfully for the consumer message get displayed.

#### ❖ Bill Report

Main Mainline Sequence:

1. **Sub-Admin:** Sub-Admin logs in.
2. **System:** Opens Sub-admin home page.
3. **Sub-Admin:** Clicks on bill report.
4. **System:** Opens search by id page.
5. **Sub-Admin:** Enters Consumer Id click on search button.
6. **System:** Show consumer bill details page display.

#### ❖ Payment Report

Main Mainline Sequence:

1. **Sub-Admin:** Sub-Admin logs in.
2. **System:** Opens Sub-admin home page.
3. **Admin:** Clicks on payment report.
4. **System:** Opens search by id page.
5. **Admin:** Enters Consumer Id click on search button.
6. **System:** Show consumer payment details page display.

### 3. Consumers

#### ❖ Profile

Main Mainline Sequence:

1. **Consumer:** Consumer logs in.
2. **System:** Opens Consumer home page.
3. **Consumer:** Clicks on profile.
4. **System:** Opens profile page.
5. **Consumer:** Click Update Button.
6. **System:** Update form get open
7. **Consumer:** Enter Update details and click on update button

**❖ Current Bill**

Main Mainline Sequence:

1. **Consumer:** Consumer logs in.
2. **System:** Opens consumer home page.
3. **Consumer:** Click on Bill History.
4. **System:** Opens the bill history page and it shows the bill details.

**❖ Payment History**

Main Mainline Sequence:

1. **Consumer:** Consumer logs in.
2. **System:** Opens consumer home page.
3. **Consumer:** Clicks on payment history.
4. **System:** Opens the payment history page and it shows payment details.

**➤ Non-Functional Requirements****❖ Performance Requirement**

1. The time between request and response should be less
2. Minimum time should be taken by the application to display the result.
3. In case of power failure, the data should be stored in the state that was last saved by the user

**❖ Security Requirement**

- ❖ Only one active session per user
- ❖ Passwords shall never be viewable at the point of entry or at any other time.
- ❖ Duplicate bill will not be generated of same month and year

## ➤ Database Tables

### Database Created

Query = Create database electricity;

```
mysql> create database electricity;
Query OK, 1 row affected (0.12 sec)
```

### Tables in Database

Query = show tables;

```

+-----+
| Tables_in_electricity |
+-----+
| bills                  |
| payment_details       |
| users                  |
+-----+
3 rows in set (0.14 sec)
```

### User Table

Query = select \* from user;

```
mysql> select * from users;
```

user_id	address	city	email	first_name	last_name	password	mobile_no	role	state	zone
1000	Roop nagar	Yavatmal	ameyakketkar7@gmail.com	Ameya	Ketkar	pass@123	9403389480	ADMIN	MAHARASHTRA	Yavatmal
1001	Roop nagar bijwe layout amari wadgaon road yavatmal plot no 09	YEOTMAL	ameyakketkar1996@gmail.com	avk	Ketkar	pass@123	9403389480	SUB_ADMIN	Maharashtra	YEOTMAL
1002	Roop nagar bijwe layout amari wadgaon road yavatmal plot no 09	YEOTMAL	akshaycchavan0408@gmail.com	akshay	chavan	pass@123	9403389480	CONSUMER	Maharashtra	YEOTMAL
1003	wadgaon road yavatmal plot no	YAVATMAL	mrunalikulkarni0606@gmail.com	Mrunali	Kulkarni	pass@123	9403389480	SUB_ADMIN	Maharashtra	YAVATMAL
1004	wadgaon road yavatmal	pune	nivedita.ketkar1997@gmail.com	nivedita	Ketkar	pass@123	9403389478	CONSUMER	Maharashtra	pune
1005	latur	Latur	amrutapatil812@gmail.com	Amruta	Patil	pass@123	8329082621	CONSUMER	Maharashtra	latur
1012	Roop nagar bijwe layout amari wadgaon road yavatmal plot no 09	YEOTMAL	vaishnaviketkar@gmail.com	vaishnavi	Ketkar	pass@123	9403389480	CONSUMER	Maharashtra	YEOTMAL

```

7 rows in set (0.05 sec)
```

## Bills Tables

Query =select \* from bills

```
mysql> select * from bills;
```

bill_id	current_bill	dues	expiry_date	fine	month	status	tax	total_bill	unit	user_id	year	zone
1	5200	0	2021-04-06	0	January	PAID	520	5720	500	1002	2021	YEOTMAL
2	800	0	2021-04-06	0	January	FORWORD WITH_FINE	80	880	200	1001	2021	YEOTMAL
3	800	880	2021-04-06	50	Febuary	NOT_PAID	80	1810	200	1001	2021	YEOTMAL
4	1950	0	2021-04-06	0	January	FORWORD WITH_FINE	195	2145	250	1003	2021	YAVATMAL
5	1950	2145	2021-04-06	50	Febuary	NOT_PAID	195	4340	250	1003	2021	YAVATMAL
6	1120	0	2021-04-06	0	January	PAID	112	1232	240	1004	2020	pune

6 rows in set (0.02 sec)

## Payment Details Table

Query =select \* from payment\_details;

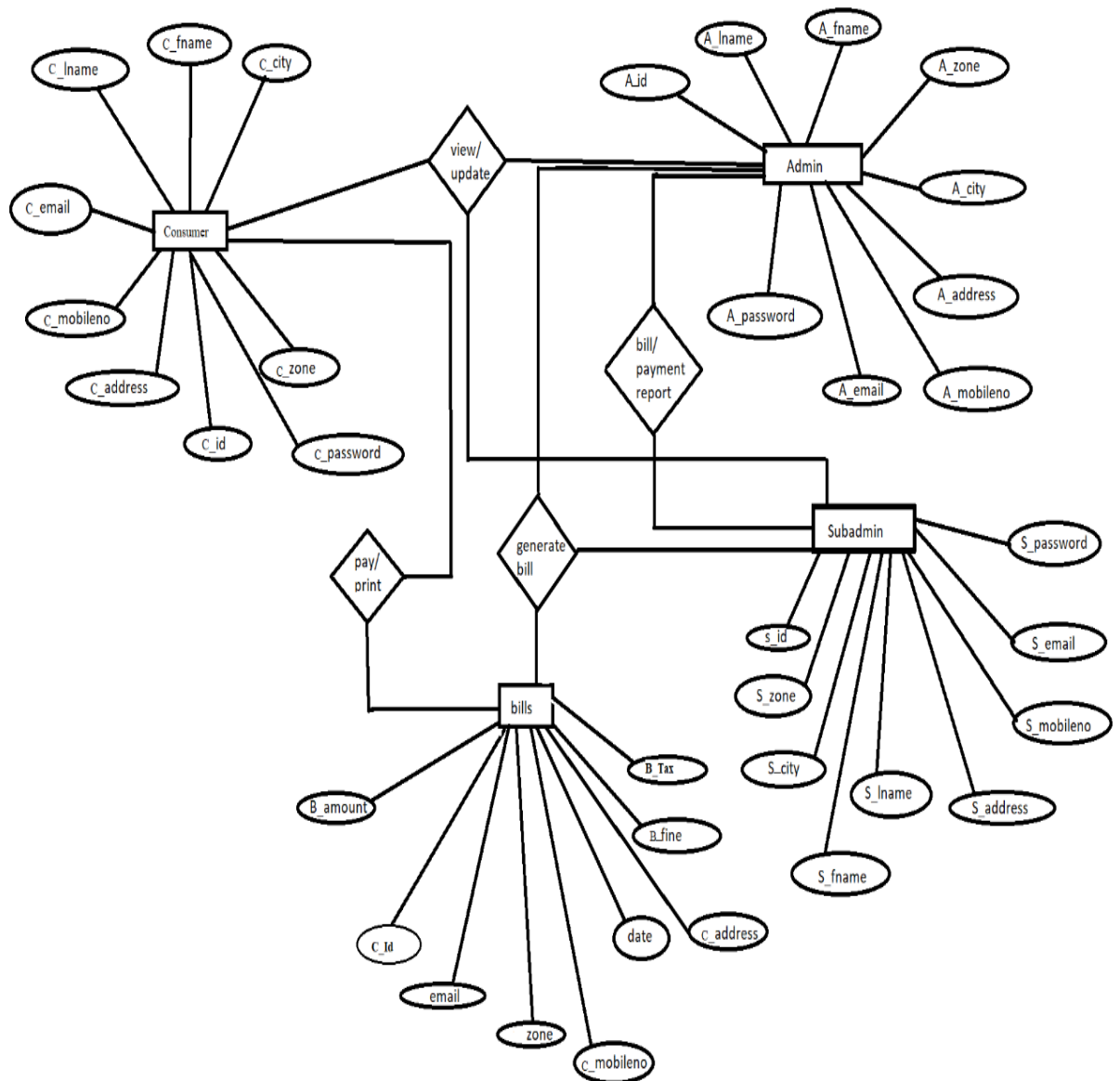
```
mysql> select * from payment_details;
```

payment_no	bill_id	card_number	card_type	cvv	exp_date	fine	name	payment_date	total_bill	user_id
1	1	1245789663524178	NULL	120	2021-06-25	0	Ameya	2021-03-22 17:00:02.712000	5720	1002
2	6	1245789663124596	VISA	102	2021-07-15	0	Ameya	2021-03-22 17:18:27.946000	1232	1004

2 rows in set (0.01 sec)

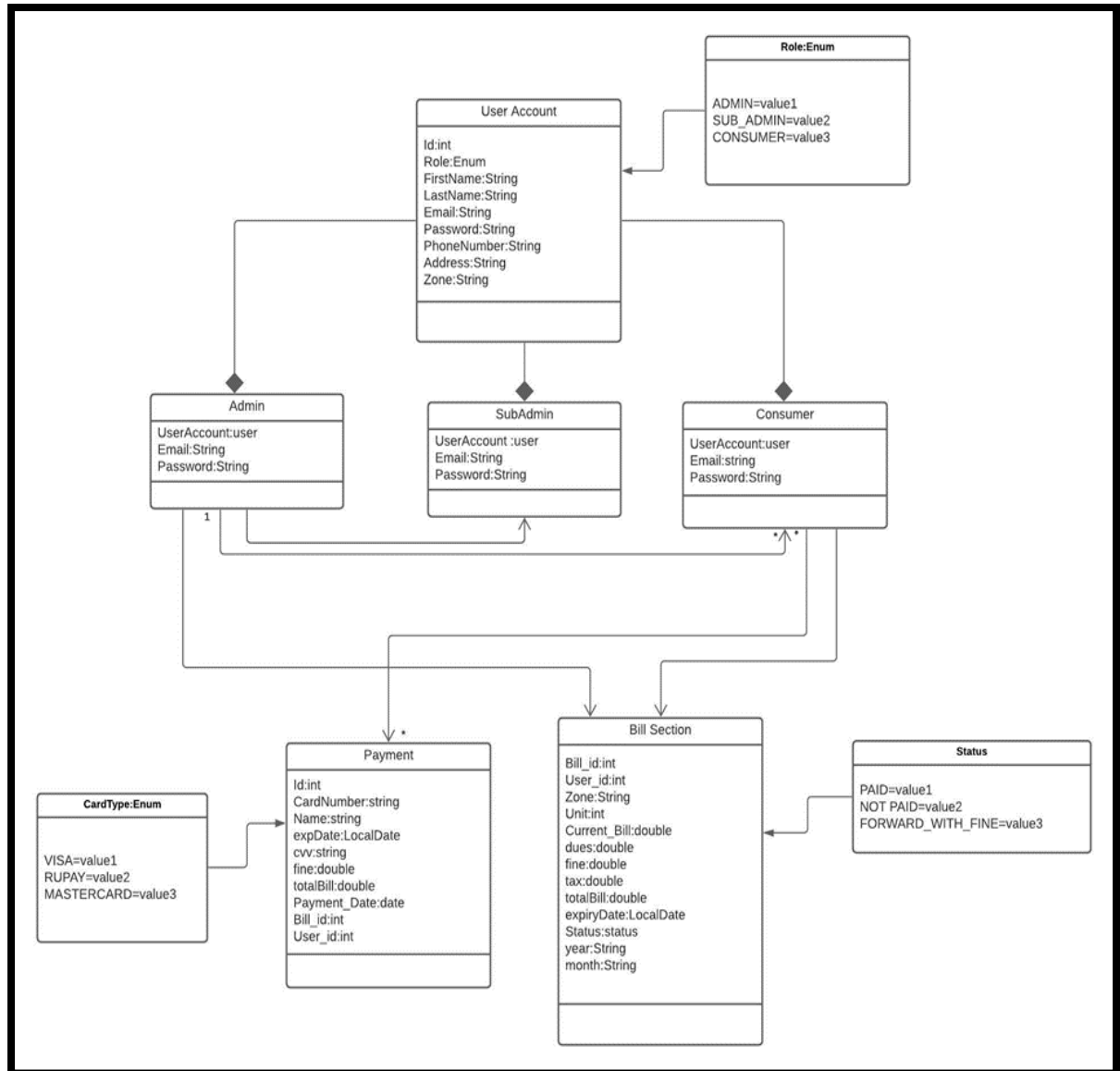


## ➤ Entity Relationship Diagram



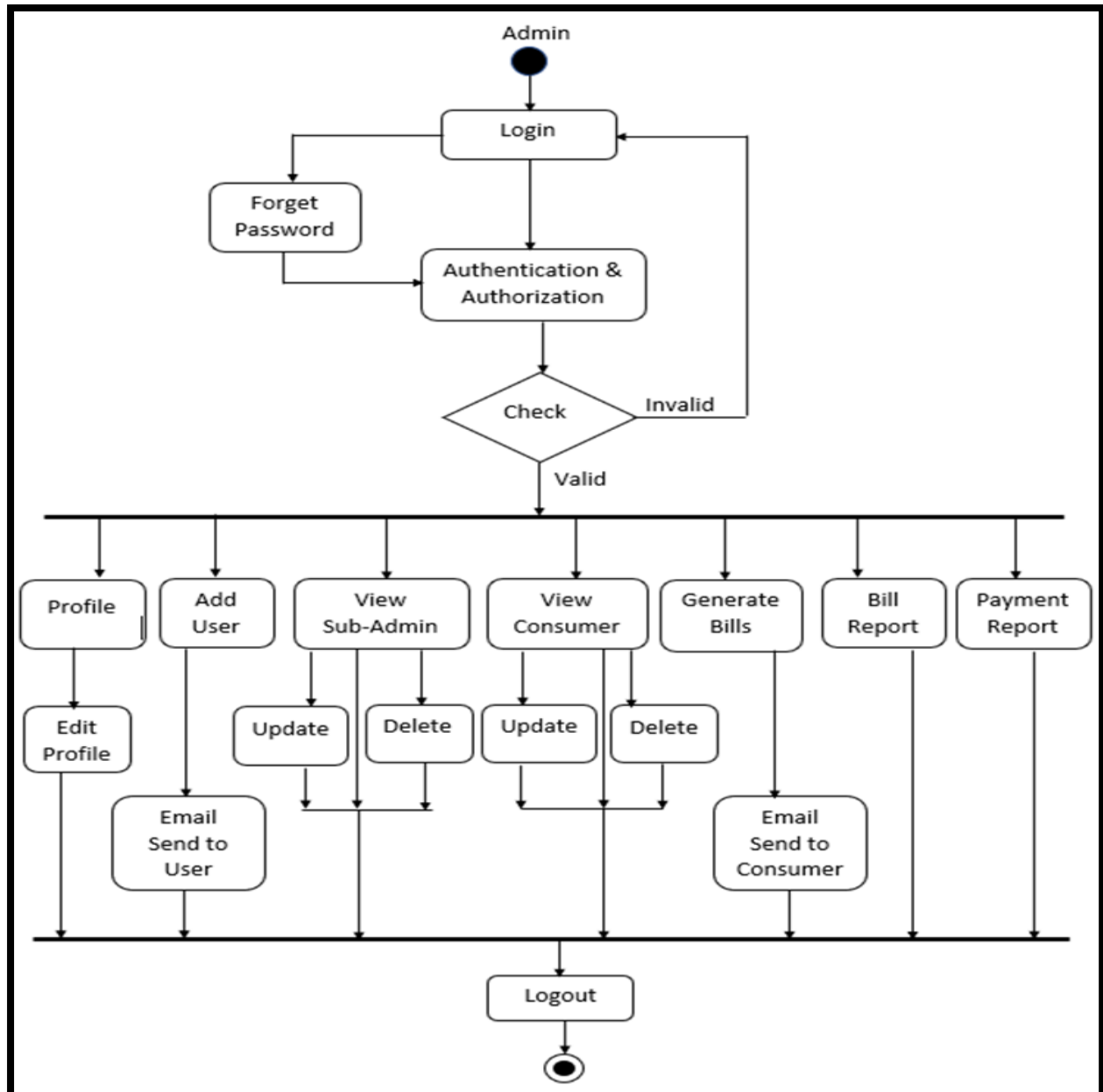
## ➤ UML Diagram

### ❖ Class Diagram

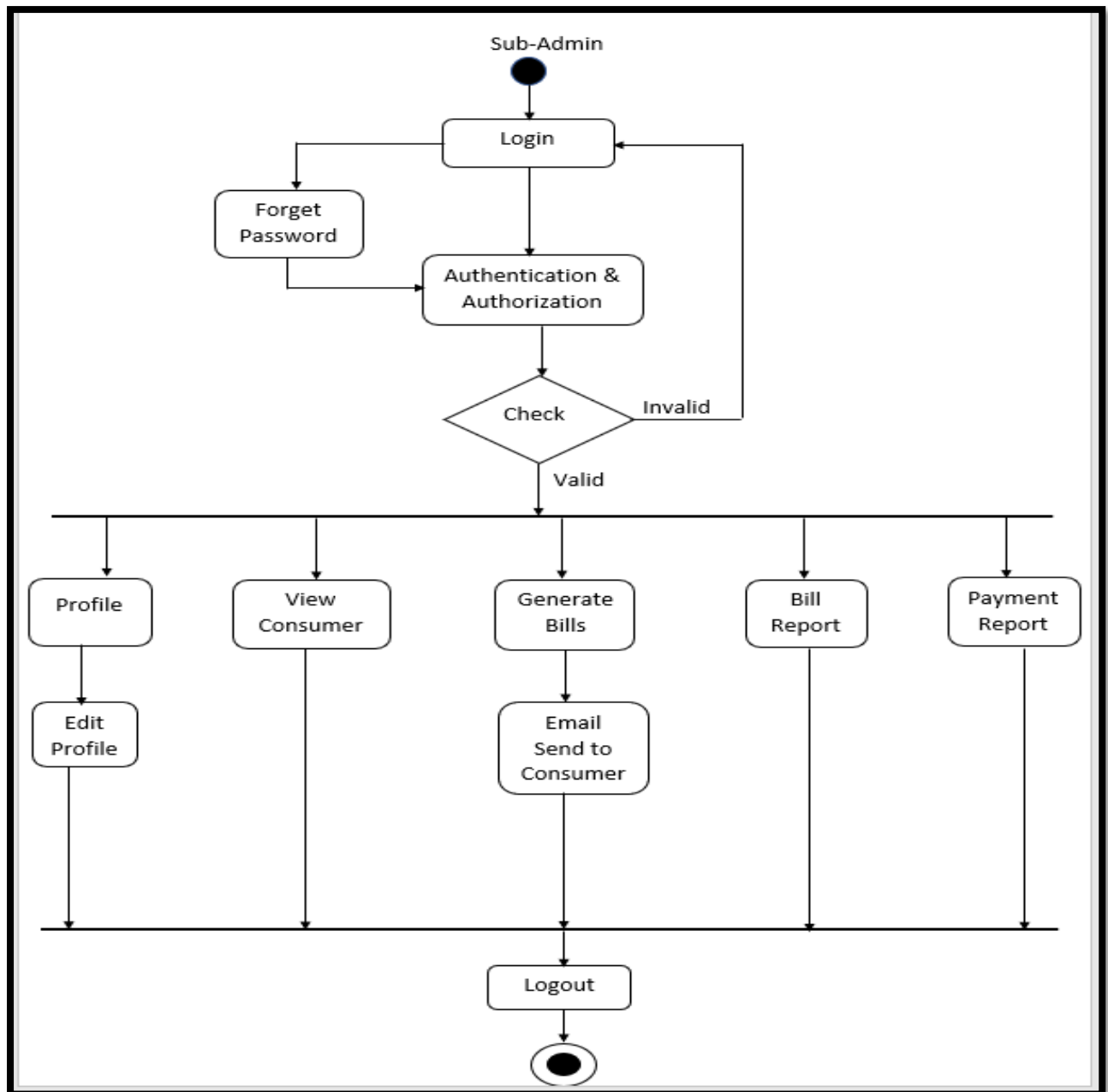


➤ **Activity Diagram**

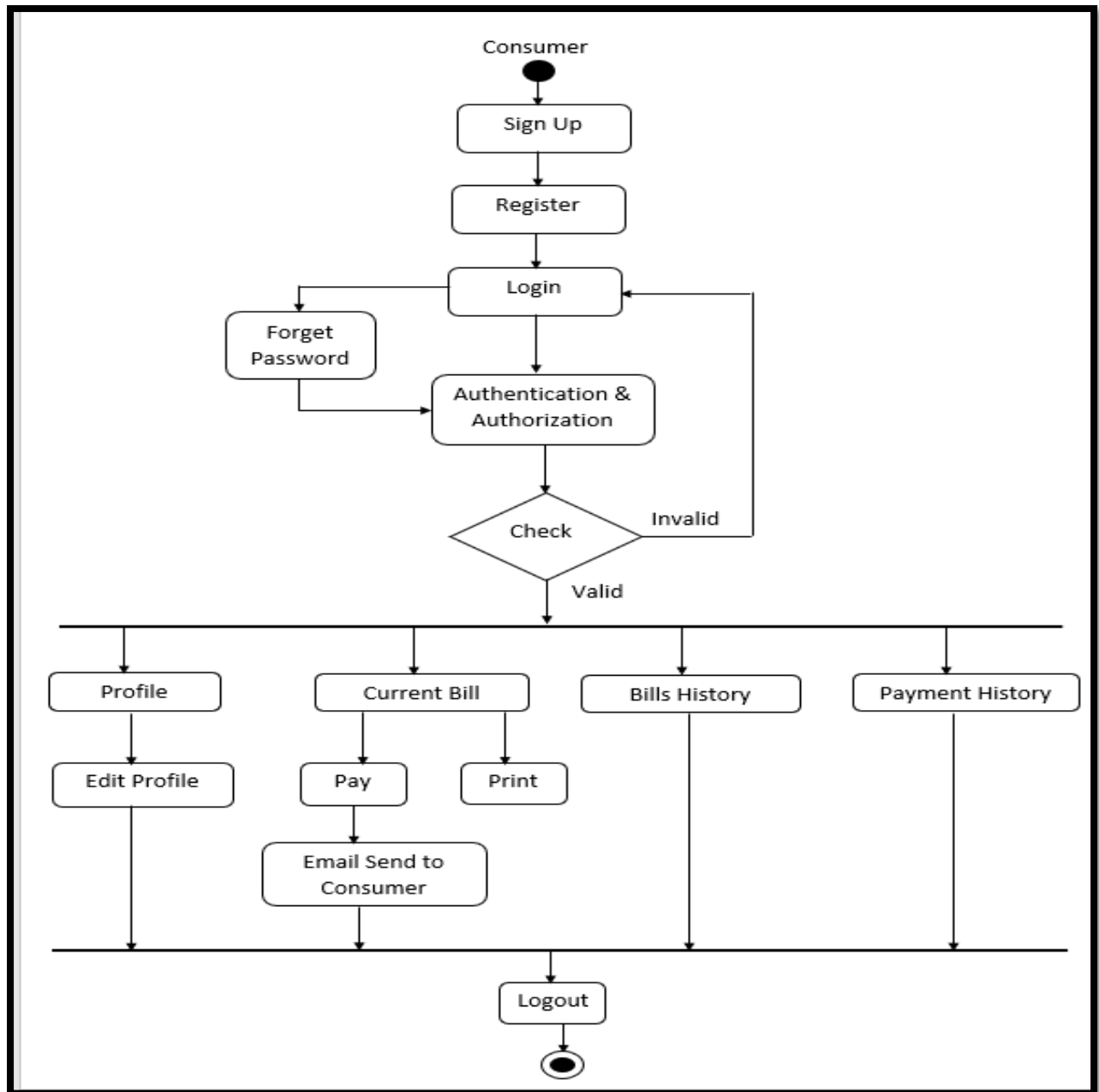
**1. Admin Activity Diagram**



## 2. Sub-Admin Activity Diagram



### 3. Consumer Activity Diagram



## ➤ Interface

### 1) Welcome Page



### 2) Registration Page

Welcome to Online Electricity Bill Generator [Home](#) [Log In](#)

#### Register

**First Name\***  
Enter First Name (min= 3 Characters)

**Last Name\***  
Enter Last Name (min= 3 Characters)

**Email\***  
Enter Email Address

**Mobile Number\***  
Enter Mobile Number


**Address\***  
Enter Address

**Zone\***  
Enter Zone

**City\***  
Enter city

### 3) Login

Welcome to Online Electricity Bill Generator [Home](#) [Sign Up](#)




## Log In

Login

[Forgot Password ?](#)

### 4) Forget Password

Welcome to Online Electricity Bill Generator [Home](#) [Log In](#)



## Set Password

Submit

## 5) Admin Home

The screenshot shows the Admin Home dashboard. The header includes the system name 'Online Electricity Bill Generator' and the user 'Ameya Ketkar'. The left sidebar lists navigation options: Dashboard, Home, Profile, Add User, View Consumer, View Sub Admins, Generate Bills, Bill Report, and Payment Report. The main content area, titled 'Admin Panel', displays a 'TOTAL CONSUMERS' summary with a value of 1 and a green checkmark. Below this are four action buttons: 'VIEW PROFILE', 'VIEW CONSUMER', 'GENERATE BILL', and 'PAYMENT REPORT', each with a 'Go' button.

Online Electricity Bill Generator

Ameya Ketkar

Admin Panel

For Support: +91 8484904280 | onlinebillelectricity@gmail.com

TOTAL CONSUMERS  
1

VIEW PROFILE  
Go

VIEW CONSUMER  
Go

GENERATE BILL  
Go

PAYMENT REPORT  
Go

## 6) Admin Profile

The screenshot shows the Admin Profile page. The header is the same as the previous page. The left sidebar is also the same. The main content area, titled 'Admin Panel', displays the 'Admin Details' section. It lists the following information: First Name (Ameya), Last Name (Ketkar), Email (ameyaketkar7@gmail.com), Mobile (9403389480), Address (Roop nagar), Zone (Yavatmal), City (Yavatmal), and State (MAHARASHTRA). There is an 'Update' button at the bottom of the details section.

Online Electricity Bill Generator

Ameya Ketkar

Admin Panel

For Support: +91 8484904280 | onlinebillelectricity@gmail.com

Admin Details

First Name : Ameya  
Last Name : Ketkar  
Email : ameyaketkar7@gmail.com  
Mobile : 9403389480  
Address : Roop nagar  
Zone : Yavatmal  
City : Yavatmal  
State : MAHARASHTRA

Update



## 7) Add User

The screenshot shows the 'Add User' form within the 'Admin Panel' of the 'Online Electricity Bill Generator'. The form is titled 'Add User' and contains several input fields for user registration. The left sidebar lists navigation options: Dashboard, Home, Profile, Add User, View Consumer, View Sub Admins, Generate Bills, Bill Report, and Payment Report. The top header includes the system name and support contact information.

**Online Electricity Bill Generator**

Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

**Add User**

First Name\*  
Enter First Name (min= 3 Characters)

Last Name\*  
Enter Last Name (min= 3 Characters)

Email\*  
Enter Email Address

Mobile Number\*  
Enter Mobile Number

Address\*  
Enter Address

Zone\*

## 8) View Consumer

The screenshot shows the 'View Consumer' details within the 'Admin Panel' of the 'Online Electricity Bill Generator'. The form is titled 'Consumer Details' and displays the information for a specific consumer. The left sidebar lists navigation options: Dashboard, Home, Profile, Add User, View Consumer, View Sub Admins, Generate Bills, Bill Report, and Payment Report. The top header includes the system name and support contact information.

**Online Electricity Bill Generator**

Admin Panel For Support: +91 8484904280 onlinebillelectri

**Consumer Details**

Consumer Id :	1001
Consumer Name :	amruta patil
Email :	amrutapatil812@gmail.com
Mobile :	8329082621
Address :	kasba peth guruprasad apartment near shiwarwada pune
Zone :	Pune
City :	Pune
State :	Maharashtra

Update Delete

## 9) View Sub-Admin

The screenshot shows the 'Admin Panel' of the 'Online Electricity Bill Generator'. The left sidebar contains a menu with options: Dashboard, Home, Profile, Add User, View Consumer, View Sub Admins, Generate Bills, Bill Report, and Payment Report. The main content area displays a table of available consumers. The table has columns for Id, Name, Email, Mobile, Address, Zone, City, State, Update, and Delete. One consumer is listed with Id 1002, Name Mrunali Kulkarni, Email mrunalikulkarni0606@gmail.com, Mobile 9403389480, Address Roop nagar bijwe, Zone YEOTMAL, City YEOTMAL, and State Maharashtra. There are 'Update' and 'Delete' buttons for this entry. Below the table, it says 'Available Consumer List'.

Id	Name	Email	Mobile	Address	Zone	City	State	Update	Delete
1002	Mrunali Kulkarni	mrunalikulkarni0606@gmail.com	9403389480	Roop nagar bijwe	YEOTMAL	YEOTMAL	Maharashtra	<a href="#">Update</a>	<a href="#">Delete</a>

Available Consumer List

## 10) Generate Bill

The screenshot shows the 'Generate Bill' form in the 'Admin Panel'. The left sidebar is the same as in the previous screenshot. The main content area displays a form titled 'Generate Bill For Consumer Id 1001'. The form has the following fields: User Id (1001), Zone (Pune), Enter Consumed Units (0), Year (2021), and Month (January). There are dropdown arrows for the Year and Month fields.

Generate Bill For Consumer Id 1001

User Id: 1001

Zone: Pune

Enter Consumed Units: 0

Year: 2021

Month: January

## 11) Bill Report



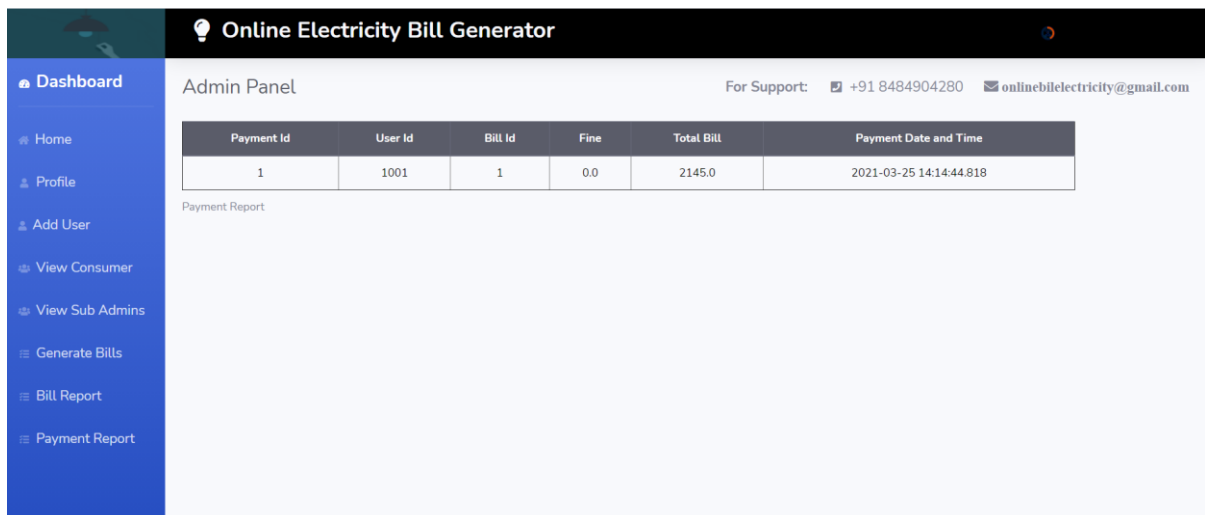
**Online Electricity Bill Generator**

Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

Bill Id	User Id	Month	Year	Unit Consumption	Current Bill	Dues	Tax	Total Bill	Status	Last Payment Date
1	1001	January	2021	250	1950.0	0.0	195.0	2145.0	PAID	2021-04-09

Bill Report

## 12) Payment Report



**Online Electricity Bill Generator**

Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

Payment Id	User Id	Bill Id	Fine	Total Bill	Payment Date and Time
1	1001	1	0.0	2145.0	2021-03-25 14:14:44.818

Payment Report

## 13) Sub Admin Home

The screenshot shows the 'Sub-Admin Home' dashboard. At the top, there's a header bar with the system name 'Online Electricity Bill Generator' and the user 'Mrunali Kulkarni'. A left sidebar contains navigation links: Dashboard, Home, Profile, View Consumer, Generate Bills, Bill Report, and Payment Report. The main content area, titled 'Sub-Admin Panel', includes a support contact number and email. A summary card shows 'TOTAL CONSUMERS' as 1. Below this are four action buttons: 'VIEW PROFILE', 'VIEW CONSUMER', 'GENERATE BILL', and 'PAYMENT REPORT', each with a 'Go' button.

Online Electricity Bill Generator

Mrunali Kulkarni

Dashboard

Home

Profile

View Consumer

Generate Bills

Bill Report

Payment Report

Sub-Admin Panel

For Support: +91 8484904280 onlinebillelectricity@gmail.com

TOTAL CONSUMERS 1

VIEW PROFILE

VIEW CONSUMER

GENERATE BILL

PAYMENT REPORT

Go

Go

Go

Go

## 14) Sub Admin Profile

The screenshot shows the 'Sub Admin Profile' page. The layout is consistent with the previous dashboard. The main content area, titled 'Sub-Admin Panel', displays the 'Sub-Admin Details' in a table format. The details include First Name, Last Name, Email, Mobile, Address, Zone, City, and State. An 'Update' button is located at the bottom of the details section.

Online Electricity Bill Generator

Mrunali Kulkarni

Dashboard

Home

Profile

View Consumer

Generate Bills

Bill Report

Payment Report

Sub-Admin Panel

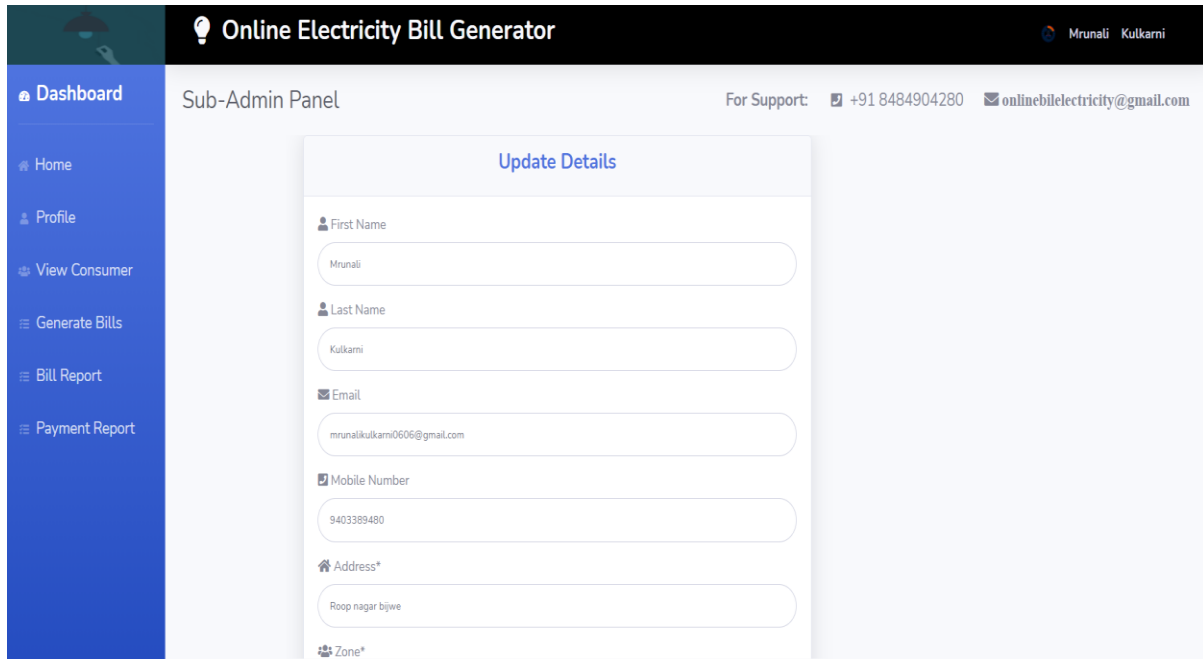
For Support: +91 8484904280 onlinebillelectricity@gmail.com

Sub-Admin Details

First Name :	Mrunali
Last Name :	Kulkarni
Email :	mrunalikulkarni0606@gmail.com
Mobile :	9403389480
Address :	Roop nagar bijwe
Zone :	YEOTMAL
City :	YEOTMAL
State :	Maharashtra

Update

## 15) Sub Admin Update



**Online Electricity Bill Generator** Mrunali Kulkarni

Sub-Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

**Update Details**

First Name: Mrunali

Last Name: Kulkarni

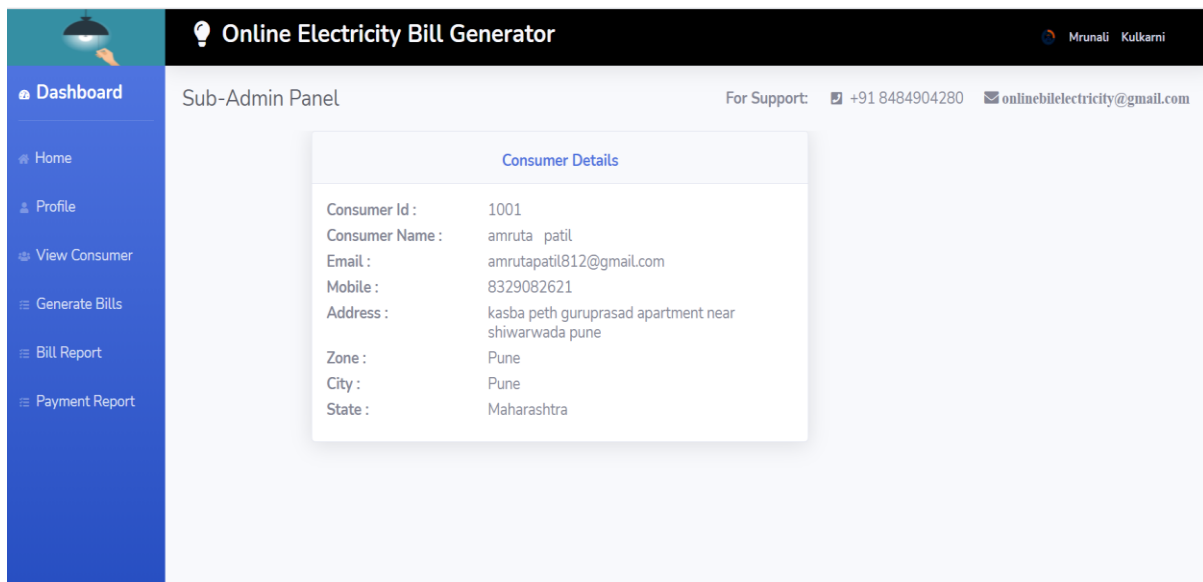
Email: mrunalikulkarni0606@gmail.com

Mobile Number: 9403389480

Address\*: Roop nagar bijwe

Zone\*

## 16) View Consumer



**Online Electricity Bill Generator** Mrunali Kulkarni

Sub-Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

**Consumer Details**

Consumer Id : 1001

Consumer Name : amruta patil

Email : amrutapatil812@gmail.com

Mobile : 8329082621

Address : kasba peth guruprasad apartment near shiwarwada pune

Zone : Pune

City : Pune

State : Maharashtra

## 17) Generate Bill

The screenshot shows the 'Generate Bill' form for Consumer Id 1001. The form is titled 'Generate Bill For Consumer Id 1001' and is part of the 'Sub-Admin Panel'. It includes a sidebar with navigation options: Dashboard, Home, Profile, View Consumer, Generate Bills, Bill Report, and Payment Report. The form fields are as follows:

- User Id:** 1001
- Zone:** Pune
- Enter Consumed Units:** 0
- Year:** 2021
- Month:** January

At the top right, there is contact information for support: +91 8484904280 and onlinebillelectricity@gmail.com.

## 18) Bill Report

The screenshot shows the 'Bill Report' table in the 'Sub-Admin Panel'. The table has 11 columns: Bill Id, User Id, Month, Year, Unit Consumption, Current Bill, Dues, Tax, Total Bill, Status, and Expiry Date. The data row shows a bill for Consumer Id 1001, January 2021, with a unit consumption of 250, a current bill of 1950.0, dues of 0.0, a total bill of 2145.0, and a status of PAID. The expiry date is 2021-04-09.

Bill Id	User Id	Month	Year	Unit Consumption	Current Bill	Dues	Tax	Total Bill	Status	Expiry Date
1	1001	January	2021	250	1950.0	0.0	195.0	2145.0	PAID	2021-04-09

Below the table, the text 'Bill Report' is displayed.

## 19) Payment Report

The screenshot shows the Sub-Admin Panel of the Online Electricity Bill Generator. The header includes the system name and the user 'Mrunali Kulkarni'. The left sidebar lists navigation options: Dashboard, Home, Profile, View Consumer, Generate Bills, Bill Report, and Payment Report. The main content area displays a table with payment details.

Sub-Admin Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

Payment Id	User Id	Bill Id	Fine	Total Bill	Payment Date and Time
1	1001	1	0.0	2145.0	2021-03-25 14:14:44.818

Payment Report

## 20) Consumer Home

The screenshot shows the Consumer Panel of the Online Electricity Bill Generator. The header includes the system name and the user 'amruta patil'. The left sidebar lists navigation options: Dashboard, Home, Profile, Current Bill, Bill History, and Payment History. The main content area features a 'Has To Read' section with four points and four action buttons at the bottom.

Consumer Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

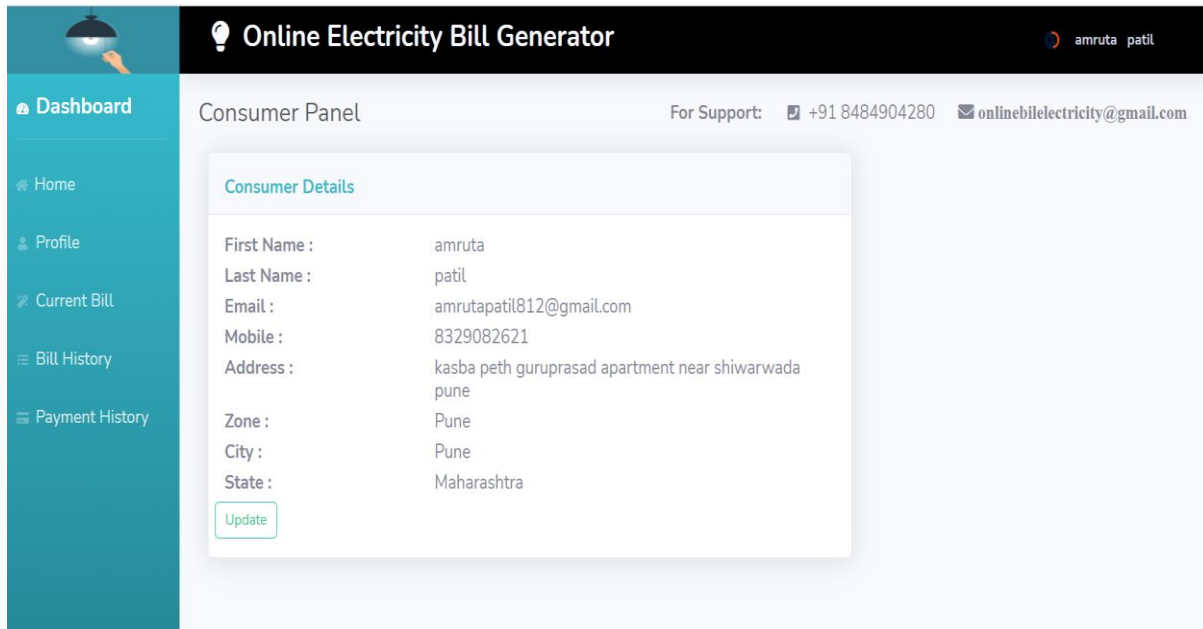
**Has To Read**

1. Main Reason behind this facility to save your time, provide payment security, easy to track bill status and consumer can pay bill any time (24X7).
2. Consumer has to pay the bill before last payment date. If not paid before due date and paid before next month bill generation then extra fine of Rs.20 will be added.
3. If consumer not paid last month bill till generation of next month bill then last month bill forwarded along with late fine of Rs.50 in current month bill.
4. If there is any issue regarding bill, payment or else, you may call or send mail to our support.

VIEW PROFILE CURRENT BILL BILL HISTORY PAYMENT HISTORY

Go Go Go Go

## 21) Consumer Profile



**Online Electricity Bill Generator** amruta patil

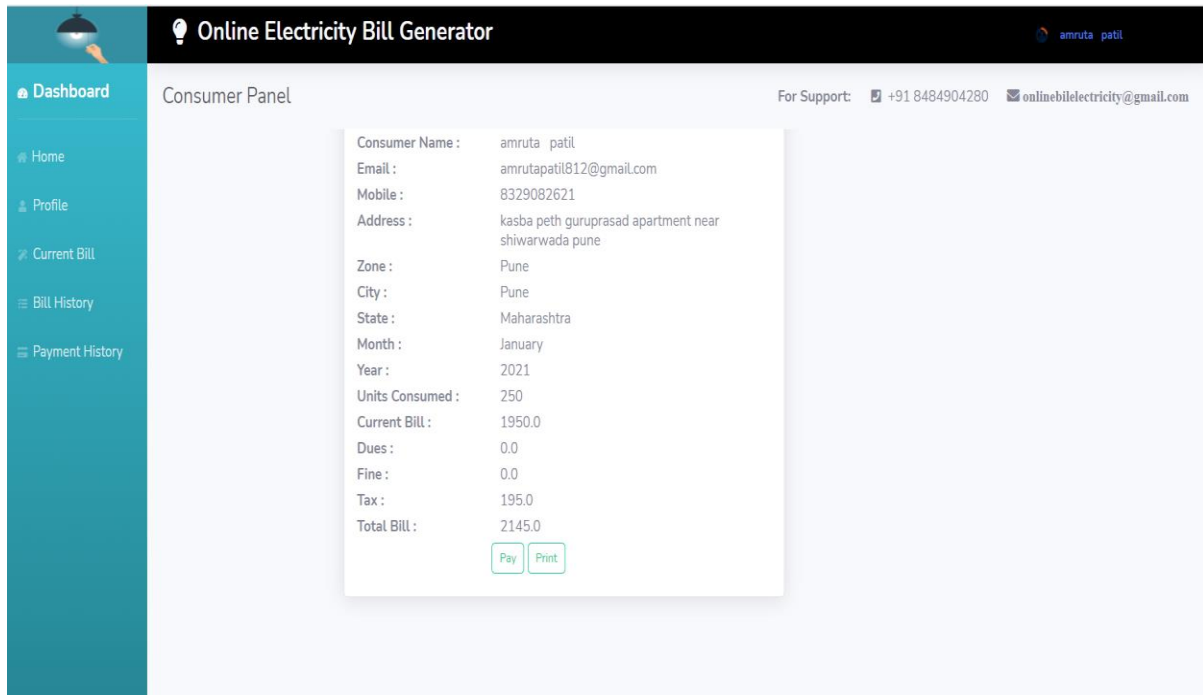
Consumer Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

**Consumer Details**

First Name :	amruta
Last Name :	patil
Email :	amrutapatil812@gmail.com
Mobile :	8329082621
Address :	kasba peth guruprasad apartment near shiwarwada pune
Zone :	Pune
City :	Pune
State :	Maharashtra

[Update](#)

## 22) Current Bill



**Online Electricity Bill Generator** amruta patil

Consumer Panel For Support: +91 8484904280 onlinebillelectricity@gmail.com

**Consumer Details**

Consumer Name :	amruta patil
Email :	amrutapatil812@gmail.com
Mobile :	8329082621
Address :	kasba peth guruprasad apartment near shiwarwada pune
Zone :	Pune
City :	Pune
State :	Maharashtra
Month :	January
Year :	2021
Units Consumed :	250
Current Bill :	1950.0
Dues :	0.0
Fine :	0.0
Tax :	195.0
Total Bill :	2145.0

[Pay](#) [Print](#)



## 23) Bill History

Online Electricity Bill Generator
 amruta patil

Dashboard

Home
 Profile
 Current Bill
 Bill History
 Payment History

Consumer Panel

For Support: +91 8484904280 onlinebillelectricity@gmail.com

Payment Done Successfully

Bill Id	User Id	Month	Year	Unit Consumption	Current Bill	Dues	Fine	Tax	Total Bill	Status	Last Payment Date
1	1001	January	2021	250	1950.0	0.0	0.0	195.0	2145.0	PAID	2021-04-09

Bill History

## 24) Payment History

Online Electricity Bill Generator
 amruta patil

Dashboard

Home
 Profile
 Current Bill
 Bill History
 Payment History

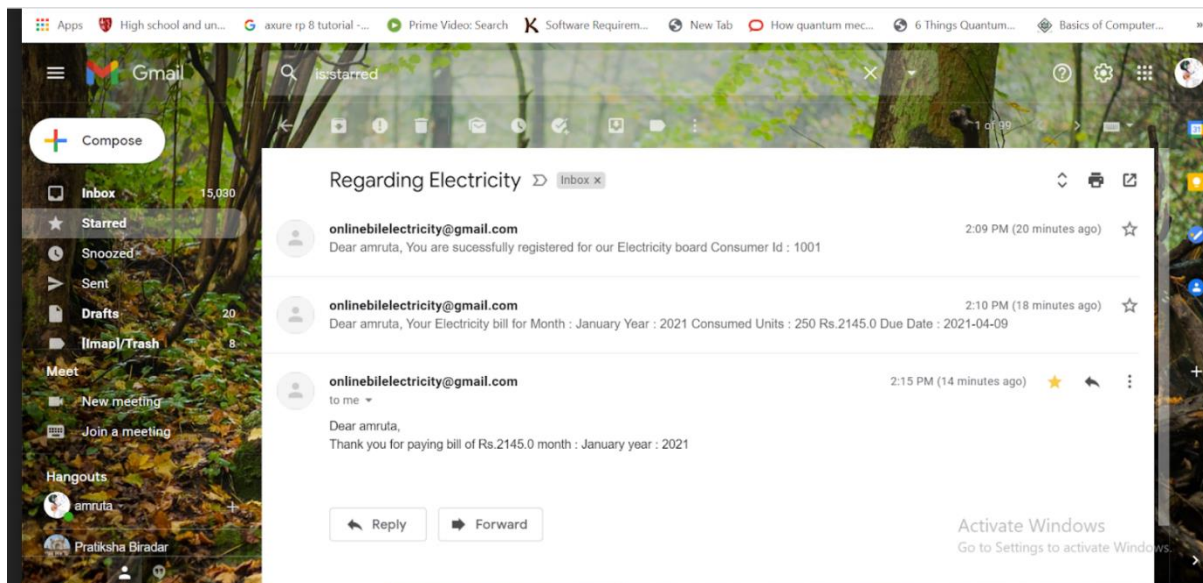
Consumer Panel

For Support: +91 8484904280 onlinebillelectricity@gmail.com

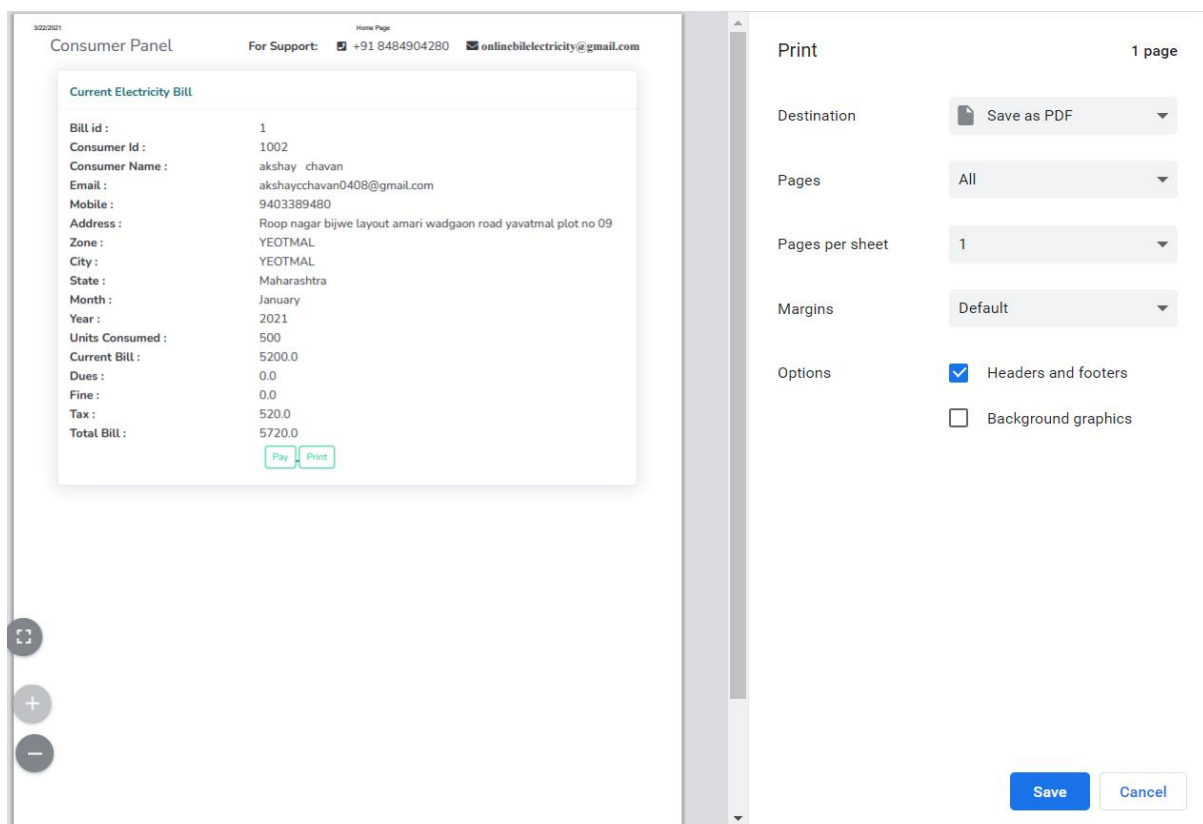
Payment Id	User Id	Bill Id	Fine	Total Bill	Payment Date and Time
1	1001	1	0.0	2145.0	2021-03-25 14:14:44.818

Payment History

## 25) Email Generation



## 26) Print Bill



## ➤ **Futures Scope**

The system excludes the need of maintaining paper electricity bill as all the electricity bill records are managed electronically. Administrator doesn't have to keep a manual track of the users. The system automatically calculates fine the system excludes manual bill calculation. Users don't have visit the office for bill payment. There is no need of bill delivery boy for delivering bills to user's place. Thus, it saves human efforts and resources

## ➤ **References**

1. [www.w3school.com](http://www.w3school.com)
2. <https://docs.oracle.com/javase/8/docs/api/index.html?overview-summary.html>
3. <https://www.youtube.co.h/?v=XEZij0zwK0U&t=35sm>

## **Conclusion**

This software reduces the amount of manual data entry and gives greater efficiency. The User Interface of it is very friendly and can be easily used by anyone. It also decreases the amount of time taken to write details and other modules.