

AN UDP REPORT ON “GEB ONLINE”



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CERTIFICATE

This is to certified that Nihar N. Mistry [206370307002] & Raj K. Patel [206370307012] of Diploma in Computer Engineering has successfully completed the Term-work of Project-II [3360707] (UDP) ["SMART RTO SYSTEM"] offered during the academic year DEC-APR 2018

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ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

It is a known fact that words are never sufficient to express the exact amount of gratitude that a person feels but words are the only way we can express our feeling. We would therefore like to express our heartfelt thanks to our project guide **Mrs. MAITRI D. VYAS** for the invaluable guidance, encouragement and kind co-operation extended by her during the term of our project to make it successful.

We also thankful to our Head of the Department (HOD) **Mrs. PRATIXA P. VAGHASHIA** for supporting and motivating us in our project work. Last but not least we would like to thank our lab assistant staff & workshop also.

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ABSTRACT

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The project of GUJARAT ELECTRICAL BOARD (GEB) ONLINE can provide you much more advantage than earlier physical systems. Our main objective is to provide better performance and time saving for the consumer as well as for admin (Employee) to keep the records in correct and systematic order in database. Well our website provides several features for consumer and some of the key features are : Provide New Connection, Increase The Load, Process Of Transferring The Connection, Generate The Bill(Authenticated), Bill Payment, Query and solution.

There are two modules in our system

1. Admin

2. Consumer

Admin can use the system to view and manage user registration, details, and has all the authority towards the system.

Consumer can use different functionalities of this system by logged in to the system with respective username and password.

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INTRODUCTION

INTRODUCTION

Back then GEB officials would provide meter connection and billing etc but all in physical way as well as In today's era of technology, Several people don't have time to stand in a long queue just for setting up meter connection or any minimal issue as a result this can lead to waste of their time.

The project of GUJARAT ELECTRICAL BOARD (GEB) ONLINE can provide you much more advantage than earlier physical systems. Our main objective is to provide better performance and time saving for the consumer as well as for admin(Employee) to keep the records in correct and systematic order in database. Well our website provides several features for consumer and some of the key features are :

- 1) Provide New Connection.
- 2) Increase The Load.
- 3) Process Of Transferring The Connection.
- 4) Generate The Bill(Authenticated).
- 5) Bill Payment.
- 6) Query and solution.

- There are two modules in our system.

1. Admin

2. consumer

PROJECT PROFILE

PROJECT PROFILE

PROJECT TITTLE	GUJARAT ELECTRICAL BOARD (GEB) ONLINE
PROJECT DURATION	1 YEAR
TEAM STRENGTH	2 MEMBERS
GROUP MEMBERS	RAJ K. PATEL NIHAR N. MISTRY
PROJECT GUIDE	Mrs.Maitri Vyas

TABLE 1 [PROJECT PROFILE]

SYSTEM ANALYSIS

SYSTEM ANALYSIS

Project Title: GUJARAT ELECTRICAL BOARD (GEB) ONLINE.

Project Definition:

The project of GUJARAT ELECTRICAL BOARD (GEB) ONLINE can provide you much more advantage than earlier physical systems. Our main objective is to provide better performance and time saving for the consumer as well as for admin(Employee) to keep the records in correct and systematic order in database.

➤ **FUNCTIONAL REQUIRMENT**

- Access Multiple Application.

➤ **NON FUNCTIONAL REQUIRMENT**

- **Reliability:-**The system will consistently perform its intended function. For e.g. the important information must be validated.
- **Efficiency:-**Unnecessary data will not be transmitted on the network and database server will be properly connected.
- **Reusability:-**The system can be reused in any organization or site of the same group, by defining the organization master definition under software license agreement.
- **Integrity:-**Only System administrator has rights to access the database, note very CONSUMER can access all the information. Each CONSUMER will behaving rights to access the modules.

TOOLS & TECHNOLOGIES

➤ **Software Specification**

➤ **Front-end Tool:- PHP**

- PHP is a server side scripting language. That is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. PHP scripts can only be interpreted on a server that has PHP installed. The client computers accessing the PHP scripts require a web browser only. A PHP file contains PHP tags and ends with the extension ".php". Simple, Familiar And Ease Of Use.
- Loosely Typed language
- Provides Flexibility.
- Open Source.

➤ **Back-end Tool:- MYSQL**

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source.

Our MySQL tutorial includes all topics of MySQL database that provides for how to manage database and to manipulate data with the help of various SQL queries. These queries are: insert records, update records, delete records, select records, create tables, drop tables, etc. There are also given MySQL interview questions to help you better understand the MySQL database.

- It's easy to use.
- Secure: MYSQL includes solid data security layers.
- It's inexpensive.
- Fast.
- Manage memory well.
- Works on multiple operating system.

➤ **PLATFORM:-**

- WINDOWS PLATFORM: WIN 7.0 OR ABOVE.

➤ **Hardware Specification**

- Processor i5 or Higher.
- Processor speed – 2.8 GHZ.
- Storage-512 GB.
- Ram-8GB.

DIAGRAMS

ENTITY RELATIONSHIP DIAGRAM

An Entity Relationship Diagram (ERD) is a snapshot of data structure ERDs shows entities in a Database and relationship between tables within that database. It is essential to have one of these if you want to create a good database design. This help focus on how the database actually Works with all of interaction data flows.

Entity Relation Model is used to create data model which use top-down approach for database design. Diagrams emerge from this methodology is model generating process and end product of this process in E-R diagrams a type of Conceptual Data Model.

Entities, Relationships, and Attributes are building blocks of Entity-Relationship Model Entities are thought as nouns Examples: a computer, an employee, a song etc.

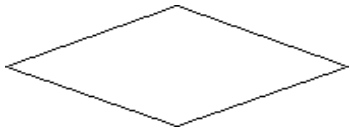
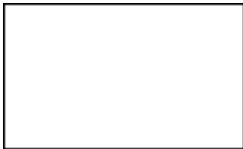


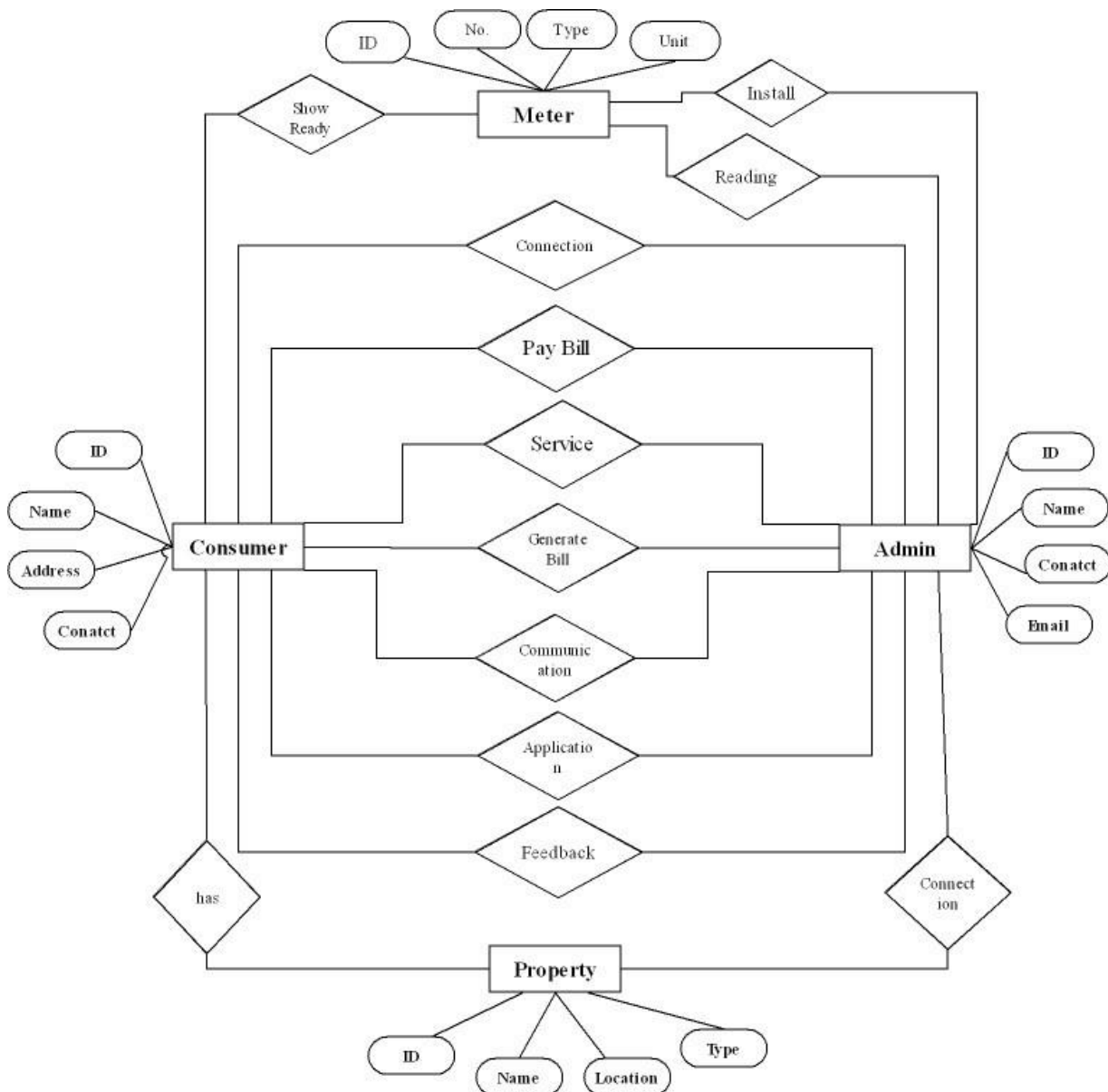
Diamond		Relationship Identifying
Rectangle		Representing Entity
Oval		Representing attributes
Line		Link attributes and entity set

TABLE 2 [E-R DIAGRAM SYMBOLS]

E-R DIAGRAM**FIGURE 1 [E-R DIAGRAM]**

DATA FLOW DIAGRAM

A graphical tool used to describe and analyze the movement of data through a system manual or automated including the process, stores of data, and delays in the system. Data Flow Diagrams are the central tool and the basis from which other components are developed. The transformation of data from input to output, through processes, may be described logically and independently of the physical components associated with the system.

A context-level DFD for the system the primary external entities round information for use by the system and consume information generated by the system. The labeled arrow represent data object or object hierarchy.

Symbol:


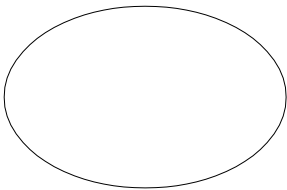


Rectangle		Source or destination of data
Circle		Process that transforms data
Ray		Data flow
Database		Data store

TABLE 3 [DATA FLOW DIAGRAM SYMBOLS]

➤ **LEVEL 0:- CONTEXT LEVEL DIAGRAM**

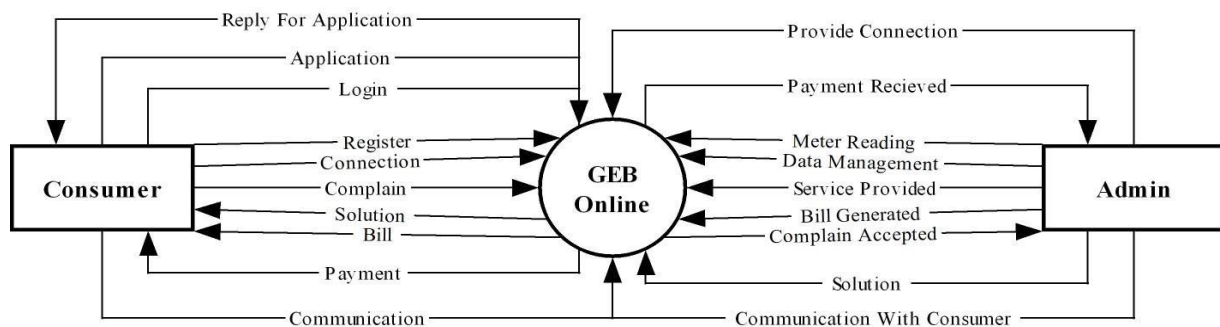


FIGURE 2 [CONTEXT LEVEL DIAGRAM]

➤ 1's LEVEL DATAFLOW DIAGRAM FOR ADMIN

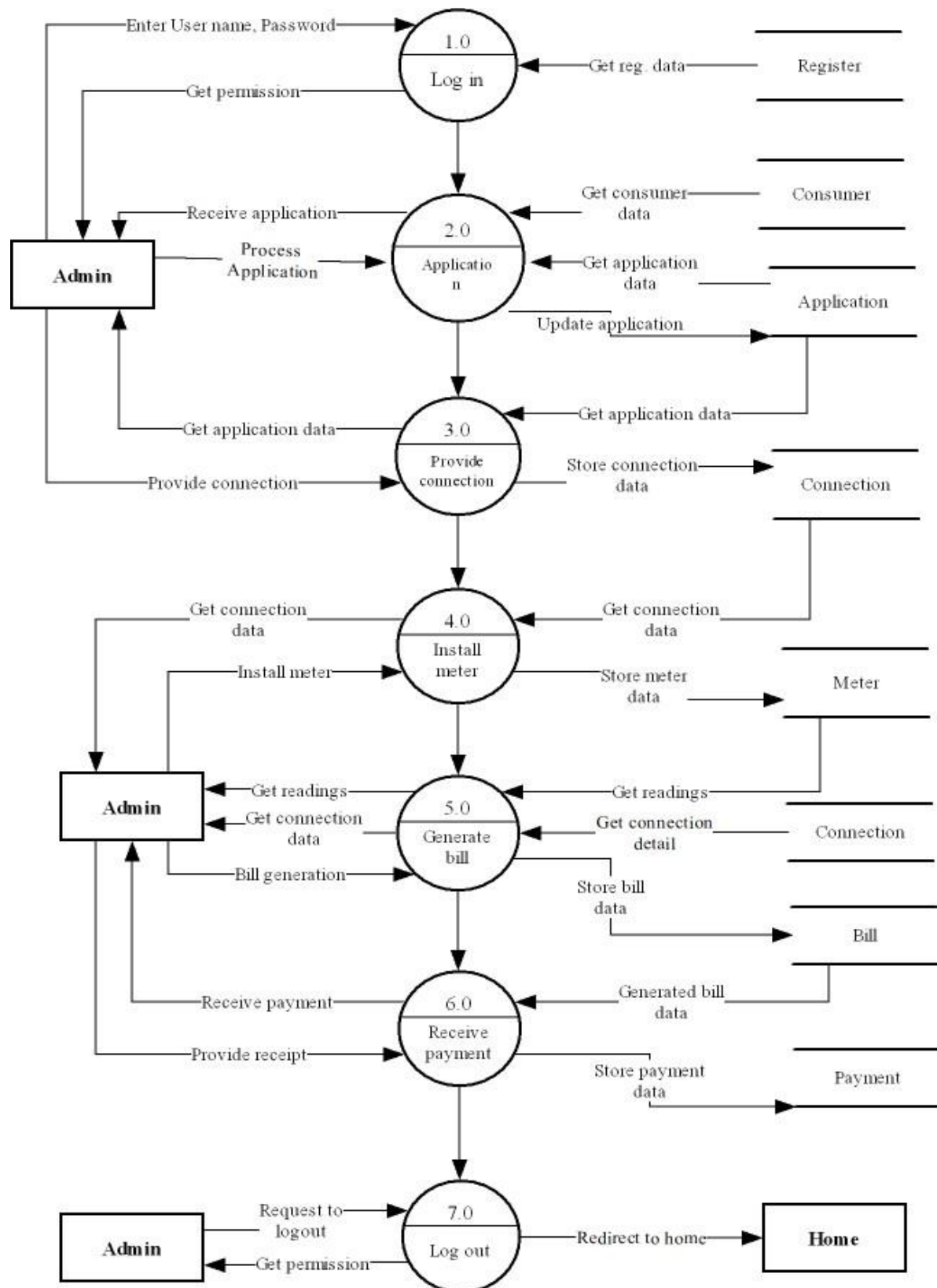


FIGURE 3 [LEVEL 1 DIAGRAM FOR ADMIN]

➤ 1's LEVEL DATAFLOW DIAGRAM FOR CONSUMER

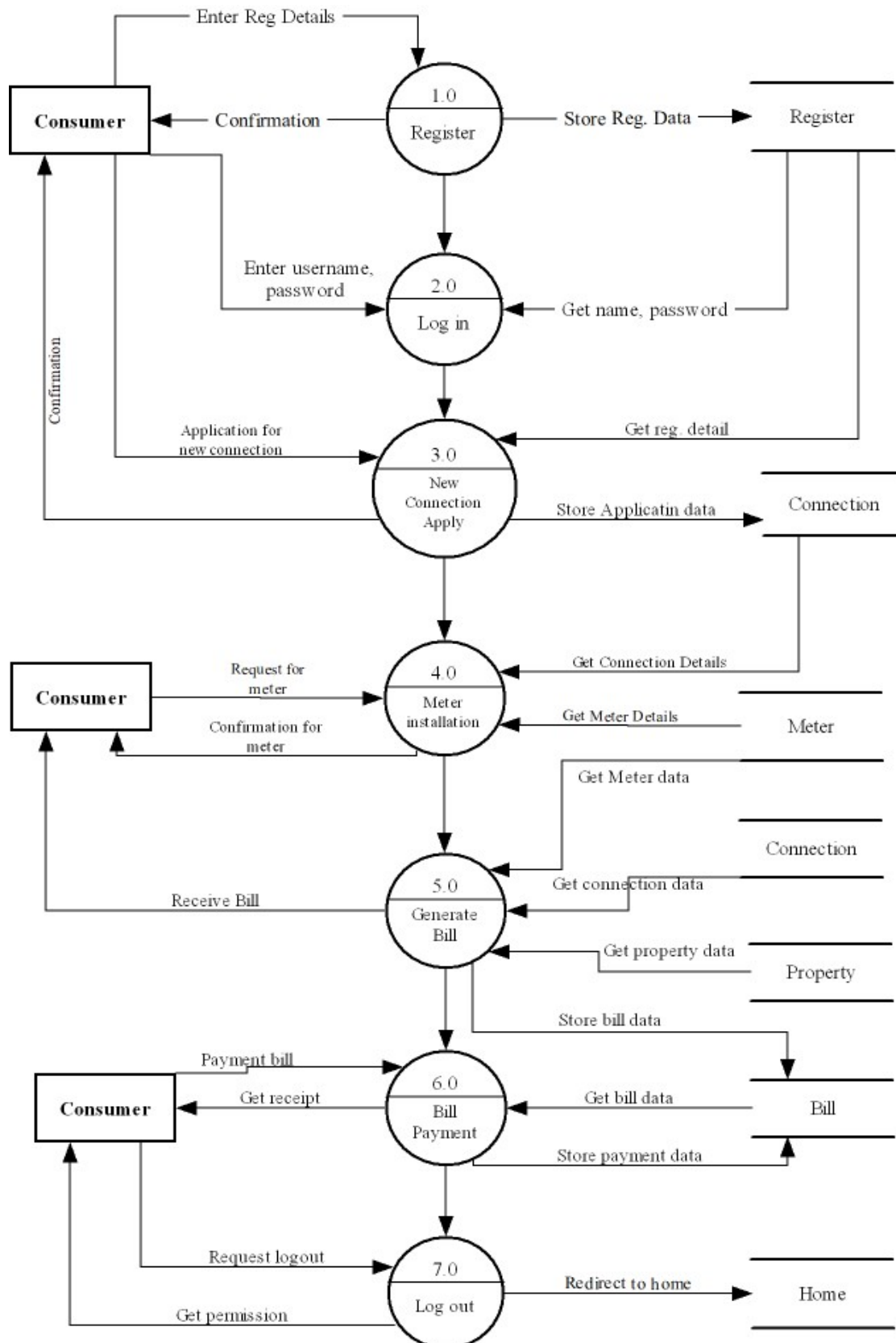


FIGURE 4 [LEVEL 1 DIAGRAM FOR CONSUMER]

➤ **2nd LEVEL DATAFLOW DIAGRAM FOR CONSUMER & ADMIN**

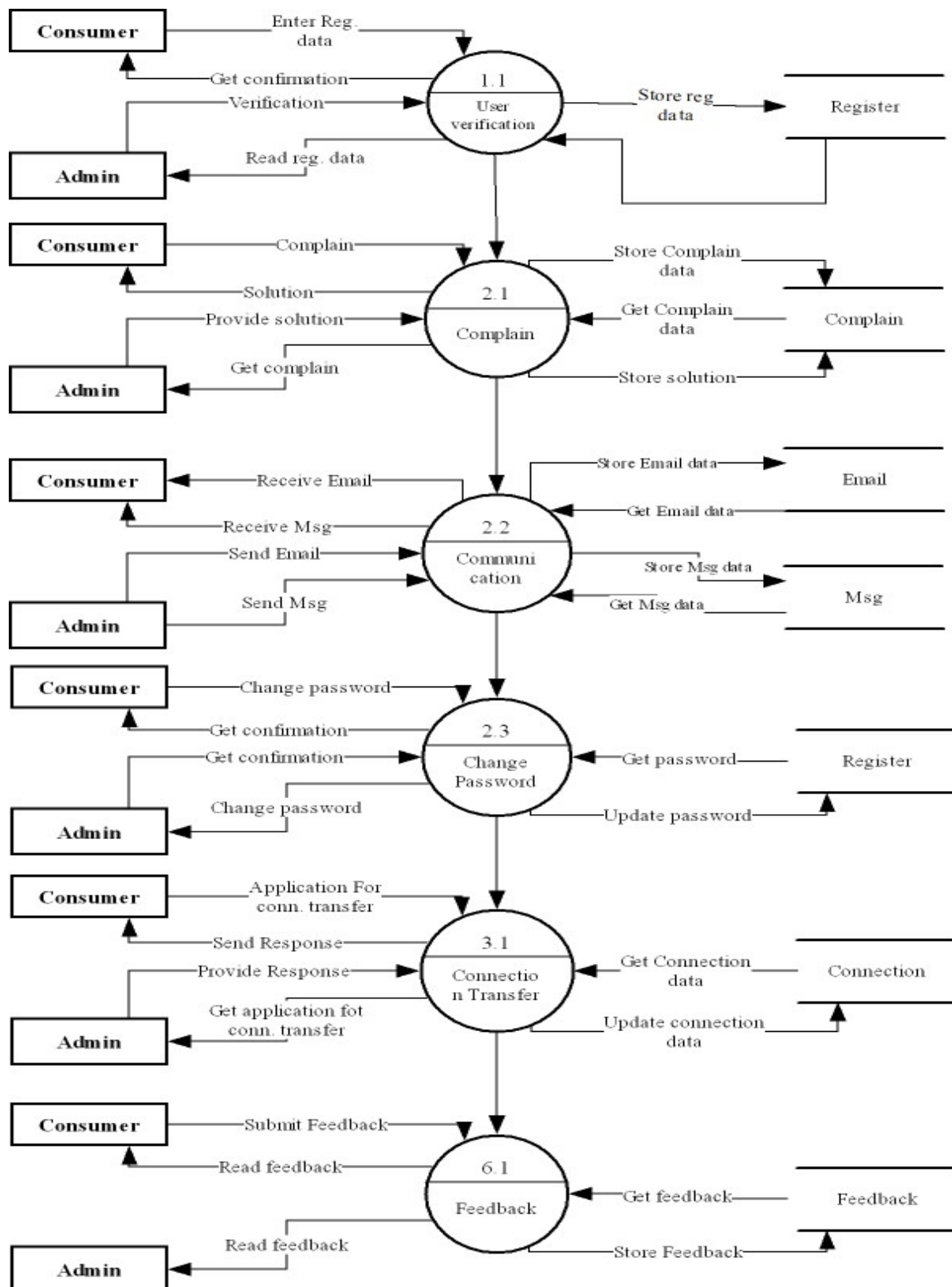


FIGURE 5 [LEVEL 2 DIAGRAM FOR CONSUMER & ADMIN]

TABLE SPECIFICATION

➤ REGISTER_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Regid	Int(5)	Primary Key
2	Regdate	Date	Not Null
3	Username	Varchar(20)	Unique
4	Password	Varchar(10)	Not Null
5	Usertype	Varchar(15)	Not Null
6	Emailid	Varchar(50)	Not Null

TABLE 4[REGISTER TABLE]

➤ CONTACT_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Contactid	Int(3)	Primary Key
2	Contactdate	Date	Not Null
3	Personname	Varchar(20)	Not Null
4	Contactno	Varchar(15)	Not Null
5	Emailid	Varchar(50)	Not Null
6	Description	Varchar(50)	Not Null

TABLE 5[CONTACT TABLE]

➤ APPLICATION_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Appid	Int(11)	Primary Key
2	Appdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Appheading	Varchar(50)	Not Null
5	Details	Varchar(100)	Not Null
6	Deptid	Int(11)	Not Null
7	Status	Varchar(20)	Null

TABLE 6 [APPLICATION TABLE]

➤ BILL_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Billid	Int(11)	Primary Key
2	Billdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Meterid	Int(11)	Not Null
5	Connectionid	Int(11)	Not Null
6	Consuunit	Int(11)	Not Null
7	Lastunit	Int(11)	Not Null
8	Meterrent	Int(11)	Not Null
9	Tax	Float(4,2)	Not Null
10	Addamt	Float(10,2)	Not Null
11	Lessamt	Float(10,2)	Not Null

TABLE 7 [BILL TABLE]

➤ CITY_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Cityid	Int(11)	Primary Key
2	Cityname	Varchar(20)	Not Null
3	Shortname	Varchar(10)	Null
4	Pincode	Varchar(7)	Null
5	State	Varchar(20)	Not Null

TABLE 8 [CITY TABLE]

➤ COMPLAIN_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Compid	Int(11)	Primary Key
2	Compdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Complain	Varchar(50)	Not Null
5	Solution	Varchar(50)	Not Null
6	Status	Varchar(20)	Not Null
7	Deptid	Int(11)	Not Null

TABLE 9 [COMPLAIN TABLE]

➤ CONNECTION_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Connid	Int(11)	Primary Key
2	Conndate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Propertytype	Varchar(10)	Not Null
5	Address	Varchar(50)	Not Null
6	City	Varchar(10)	Not Null
7	Pincode	Varchar(7)	Not Null
8	Landmark	Varchar(20)	Not Null
9	Connload	Varchar(15)	Not Null
10	Conntype	Varchar(10)	Not Null
11	Charge	Int(11)	Not Null

TABLE 10 [CONNECTION TABLE]

➤ CONNREQUEST_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Reqid	Int(11)	Primary Key
2	Reqdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Connfor	Varchar(20)	Null
5	Phase	Varchar(10)	Not Null
6	Address	Varchar(100)	Null
7	City	Varchar(20)	Null
8	Status	Varchar(20)	Null

TABLE 11 [CONNREQUEST TABLE]

➤ CONSUMER_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Consumerid	Int(11)	Primary Key
2	Consumername	Varchar(30)	Not Null
3	Address	Varchar(100)	Null
4	Cityname	Varchar(20)	Null
5	Pincode	Varchar(7)	Null
6	Image	Varchar(20)	Null

TABLE 12 [CONSUMER TABLE]

➤ DEPARTMENT_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Deptid	Int(11)	Primary Key
2	Deptname	Varchar(30)	Not Null
3	Shortname	Varchar(15)	Null
4	Head	Varchar(20)	Null
5	Divid	Int(11)	Not Null

TABLE 13 [DEPARTMENT TABLE]

> DIVISION_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Divid	Int(11)	Primary Key
2	Divname	Varchar(30)	Not Null
3	Shortname	Varchar(15)	Null
4	Head	Varchar(20)	Not Null
5	Contactno	Varchar(15)	Null

TABLE 14 [DIVISION TABLE]**> DOCUMENT_DETAILS**

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Docid	Int(11)	Primary Key
2	Docname	Varchar(50)	Not Null
3	Doctype	Varchar(20)	Null
4	Image	Varchar(50)	Null
5	Consumerid	Int(11)	Not Null

TABLE 15 [DOCUMENT TABLE]

➤ EMAIL_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Emailid	Int(11)	Primary Key
2	Emaildate	Date	Not Null
3	Emailto	Varchar(50)	Not Null
4	Subject	Varchar(50)	Null
5	Description	Varchar(50)	Not Null

TABLE 16 [EMAIL TABLE]

➤ FEEDBACK_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Feedbackid	Int(11)	Primary Key
2	Feedbackdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Feedbackfor	Varchar(30)	Null
5	Details	Varchar(50)	Null
6	Rating	Varchar(10)	Null
7	Deptid	Int(11)	Not Null
8	Divid	Int(11)	Not Null

TABLE 17 [FEEDBACK TABLE]

> MESSAGE_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Msgid	Int(11)	Primary Key
2	Msgdate	Date	Not Null
3	Mobileno	Varchar(15)	Not Null
4	Message	Varchar(200)	Not Null

TABLE 18 [MESSAGE TABLE]**> METER_DETAILS**

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Meterid	Int(11)	Primary Key
2	Installdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Connid	Int(11)	Not Null
5	Metertype	Varchar(20)	Not Null
6	Unit	Int(11)	Not Null

TABLE 19 [METER TABLE]

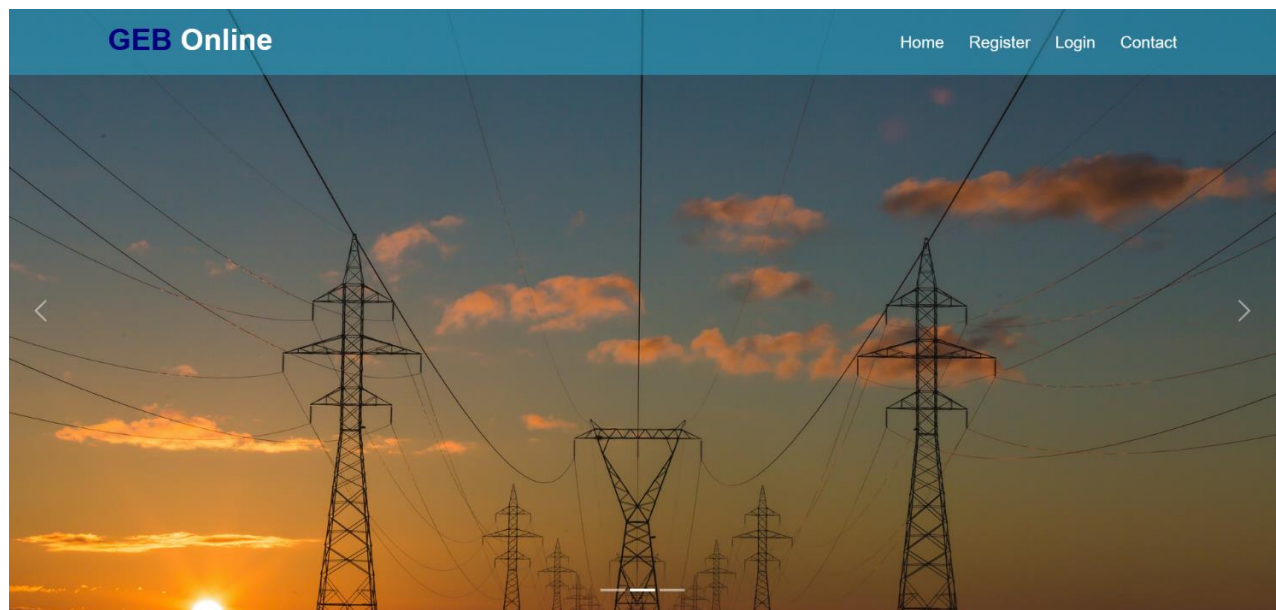
> SUGGESTION_DETAILS

SR_NO	Column_Name	Datatype(SIZE)	Constraint
1	Suggid	Int(11)	Primary Key
2	Suggdate	Date	Not Null
3	Consumerid	Int(11)	Not Null
4	Suggestion	Varchar(100)	Not Null
5	Divid	Int(11)	Not Null
6	Deptid	Int(11)	Not Null
7	Suggfor	Varchar(30)	Null

TABLE 20 [SUGGESTION TABLE]

SNAPSHOT

➤ HOME PAGE



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Ashok Patel
Director



Priya Chopra
Ceo



Arjit Singh
Manager



Harmit Desai
Finanace Manager

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➤ SAVE ENERGY PAGE

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Energy Saving Tips for Your Place

- 1. Turning off the lights when leaving a room**

A basic habit to develop and foster is to make sure that you always turn off the lights when leaving a room. Make a reminder to do so until you get into a habit of doing so subconsciously. You can save a good chunk of your monthly electricity costs by doing something as simple as this regularly.
- 2. Use LED lights**

Many homes are moving towards smart LED lights as they not only look stylish and affordable but are also way more efficient than halogen bulbs.
- 3. Switching to efficient appliances**

Dryers and refrigerators are two of the most energy-intensive appliances in a home and replacing these with better efficient models can cut the electricity usage by half, thereby reducing your electricity bills. Installing heat pumps is another idea to reduce electricity consumption. In general, maintaining and replacing appliances every few years will make them have less burden on your electricity usage.
- 4. Unplug devices**

Needless to say how important it is to unplug devices when not in use. Do not leave devices on standby but rather unplug them and save your electricity bill, and the planet.
- 5. Lessen water usage**

Some easy fixes to reduce your water consumption could be taking quick showers, using just the required amount of water while cooking and turning off running taps when unused even for seconds.
- 6. Keep the thermostat at a lower temperature**

Aim to keep your thermostat at a lower temperature around 17 degrees, this can make a big difference and save your energy costs. Using a programmable smart thermostat is even better.
- 7. Use smart automated devices**

Smart automated devices can lower your energy bills even when you forget to. Smart automation systems will detect when you're no longer using a device and turn off the power supply.
- 8. Use double glazing door**

Double glazing doors and windows are a perfect solution for a modern home as they can significantly reduce the emissions of greenhouse gases from heating and cooling thereby reducing your carbon footprint and also lowering your energy bills.
- 9. Cook with the lid on**

This is a super simple hack in everyday life to save energy consumption, by cooking with the lid you are making sure to lessen the cooking time and water usage significantly.
- 10. Using smart meter**





A smart meter is a great way to see how much power you're consuming, this will help you keep a track of your consumption in real-time, and where you can reduce it.
- 11. Washing at low temp**

Wash clothes at a cooler temperature and with a full load, you will be saving a lot of water and electricity.
- 12. Solar-powered devices**

These days you can find a solar-powered version of almost any electronic you use in your home. Making small shifts and using more solar-powered electronics can go a long way and can also lower your maintenance and replacement costs of such electronics.

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- This Page Shows The Tips For Saving Energy.

➤ CONSUMER HOME PAGE



GEB Online Home Application Bill Connection Request Complain Profile Communication Logout

Safety Tips For Consumer

- 1. Always follow appliance instructions for improved electrical safety.**
 "Read the instructions" should top the list of electrical safety tips at home. Understanding home appliance safety improves both the performance of your device and your personal safety. Should any appliance give you even a slight electrical shock, stop using it until a qualified electrician checks it for problems.
- 2. Watch out for overloaded outlets to protect your home.**
 Overloading an electrical outlet is a common cause of electrical problems. Check all outlets to ensure they are cool to the touch, have protective faceplates and are in proper working order. According to ESFI, you can follow these electrical outlet safety tips:
- 3. Replace or repair damaged electrical cords to keep your home safe.**
 Damaged power cords are a serious residential electrical safety risk, and they are capable of causing both fires and electrocution. All power and extension cords should be checked regularly for signs of fraying and cracking, and they should then be repaired or replaced as needed. Power cords should not be stapled into place or run under rugs and furniture. Cords under rugs pose a tripping hazard and can overheat, while furniture can crush cord insulation and damage wires.
- 4. Keep your used and unused cords tidy and secure to prevent damage.**
 Electrical safety tips don't just apply to power cords when they're in use—cords also need to be stored safely to prevent damage. Keep stored cords away from children and pets (who may chew on or play with the cords). Try to avoid wrapping cords tightly around objects; this can stretch the cord or cause overheating. Never rest a cord on a hot surface in order to prevent damage to the cord's insulation and wires.
- 5. Unplug all your unused appliances to reduce potential risks.**
 One of the simplest electrical safety tips is also one of the easiest to forget: when an appliance is not in use, unplug it. Not only does this save you power by reducing any phantom drain (the amount of energy the device consumes even when not actively in use), but unplugging unused appliances also protects them from

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- This Is Consumer Home Page.

➤ APPLICATION PAGE

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APPLICATION

Application Heading

New Connection

Application Details

Department

Bill Collection

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➤ BILL PAGE

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Consumer Bill Details

Bill ID	1	Bill ID	2
Bill Date	2023-04-26	Bill Date	2023-04-26
Consumer ID	5	Consumer ID	5
Consumer Name	Swayam Bhalodia	Consumer Name	Swayam Bhalodia
Connection ID	1	Connection ID	1
Meter Number	1	Meter Number	1
Current Unit	200	Current Unit	400
Last Unit	100	Last Unit	200
Total Unit	100	Total Unit	200
Meter Rent	100	Meter Rent	100
Add Amount	100.00	Add Amount	20.00
Less Amount	50.00	Less Amount	10.00
Bill Amount	500	Bill Amount	1000
Total Amount	670	Total Amount	1130

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➤ CONNECTION REQUEST PAGE

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CONNECTION REQUEST

Connection For





Phase

Address

City

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➤ COMPLAIN PAGE

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complain

Complain

Department

Bill Collection

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➤ PROFILE UPDATE PAGE

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Customer Name*

Swayam Bhalodia

address*

Lunsikui

city Name*

Navsari

Pincode*

36989

photo

Browse...





No file selected.

Update

Cancel

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➤ PROFILE SHOW PAGE





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User Name	Swayam Bhalodia
Address	Lunsikui
City Name	Navsari
Pincode	36989

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➤ EMAIL COMMUNICATION PAGE

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Email Date	Email Address	Subject	Description
2023-04-15	swayam@gmail.com	for new connection	i want to new GEB connection

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➤ MESSAGE COMMUNICATION PAGE

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Message Date	Mobile Number	Message
2023-04-18	9879641323	Check your load
2023-04-22	9879641323	pay your bill

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- This Page Allows You To Communicate Through Message .

ADVANTAGES

ADVANTAGE

- Provides much better services in online.
- Online Payment can be done.
- Details of customer will be saved in Database.
- All the details are in Digital format.
- Data will be Safe and Secure.
- As well as User has an option for “Contact us” where user can declare the problems and further solutions will be given.

DISADVANTAGES

DISADVANTAGES

- Computer/Laptop is required.
- Requires reliable internet connection.

FUTURE SCOPE

FUTURE SCOPE

- The project GEB ONLINE System is very Flexible for consumers as well as for the admin.
- The system can be further enhanced and several other functionalities can be added.
- This project also has the scope of enhancements like:
- Customer can pay their Bill Through Online Transaction .

CONCLUSION

CONCLUSION

This GEB ONLINE System can provide you much more advantage than earlier physical systems. Our main objective is to provide better performance and time saving for the consumer as well as for admin(Employee) to keep the records in correct and systematic order in database.

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STUDENT'S SELF APPRAISAL.

**N.G.PATEL POLYTECHNIC
COMPUTER ENGINEERING DEPARTMENT**

NIHAR N.MISTRY

206370307002

STUDENT'S SELF APPRAISAL FORM FOR UDP PART-I					
As a UDP Group		A	B	C	D
1	All Students of group understood and agreed on how the whole project was broken down into sub-tasks.				
2	Work was distributed according to the skills and knowledge and capacity of each student.				
3	All Students were clear about the time frame and their own responsibilities.				
4	All students involved understood that their work would contribute to the group's success.				
5	Individual difficulties experienced by individuals were discussed in the group and other students helped to resolve the difficulties.				
The Task Execution		A	B	C	D
6	The work was perfectly & clearly distributed among all students.				
7	The timing and sequencing of sub-tasks done to progress stage by stage.				
8	Survey and Data collected were organized systematically for later use.				
9	On-going checking throughout the process was made to ensure that everything was on the right track.				
10	Appropriate corrective measures were taken to handle unexpected problems.				
11	The quality of work produced was assessed regularly during the process and also at the end.				
12	Systematic Survey and Literature study done.				
My Roll in the UDP Group		A	B	C	D
13	I tried my level best to accomplish the part I taken and in time.				
14	I tried my level best to complete UDP and produce good quality Solution.				
15	I feel strongly that the group success is my own success.				
16	I feel that this UDP is a Real life Problem.				
17	I learned from other students of the Group.				
Marking: A= Strongly in favour, B = Moderately in favour, C = Not Much, D = Not at all					

N.G.PATEL POLYTECHNIC
COMPUTER ENGINEERING DEPARTMENT

RAJ K. PATEL

206370307012

STUDENT'S SELF APPRAISAL FORM FOR UDP PART-I					
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