

EBA : Electricity Board Application

College of Engineering, Cherthala

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AJESH M (04)
MUHAMMED NADIRSHA N K (24)
RIBIN ROY (28)
SREENIVAS S NAIK(34)

Guide: Mrs. Anitha M A

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- ▶ Electricity Board Application is designed to meet all the needs a regular consumer faces with the Power Supply.
- ▶ Almost all facilities which at present requires direct interaction with an officer will be available online.
- ▶ Better UI and simple steps for each facilities are provided for improved interaction with consumers.
- ▶ It is an online android application.

- ▶ Implementation of EBA helps consumers to save their time by interacting online through the application rather than the traditional way to meet officers.
- ▶ Crowd in Power Supply Offices can be decreased.

- ▶ Presently online application which helps only to pay bill online is available.
- ▶ All other facilities require direct interaction between consumer and officers.
- ▶ Existing application is poorly designed.
- ▶ There is wastage of time.
- ▶ We have no options to know previous bill and meter reading details.

- ▶ Much more efficient and interactive than the existing application.
- ▶ Application includes features to help people to know about:
 - ▶ Verified consumer accounts.
 - ▶ Online Bill payment.
 - ▶ Alert about the last date for the bill to be paid.
 - ▶ Previous Bill payment details.
 - ▶ Notification about power cuts.
 - ▶ Apply for new connection.
 - ▶ Consumer complaints.

ADVANTAGES OF PROPOSED SYSTEM

- ▶ Consumers valuable time can be saved.
- ▶ Better User Interface.
- ▶ Simple and efficient application.

HARDWARE REQUIREMENTS

The minimum hardware requirements are
Android phone with:

- ▶ RAM: 256MB
- ▶ Internal memory: 500MB
- ▶ Operating System: Android kitkat or above.
- ▶ Internet connection: 2G or above.

- ▶ Operating System: Windows
- ▶ Front End: JAVA, ANDROID, PHP
- ▶ Back End: MySQL

- ▶ Based upon the level of the product, the project has been divided into 5 modules:
 - ▶ Login Interface Module
 - ▶ Bill Payment Module
 - ▶ New Connection Module
 - ▶ Complaint Module
 - ▶ Notification Module

GANTT CHART

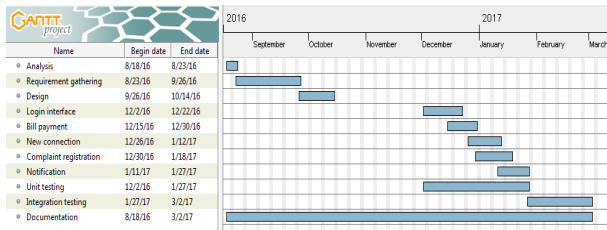


Figure: gantt chart

DATA FLOW DIAGRAM

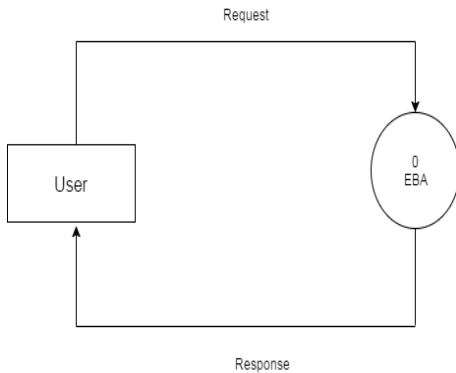


Figure: LEVEL 0 DFD

DATA FLOW DIAGRAM

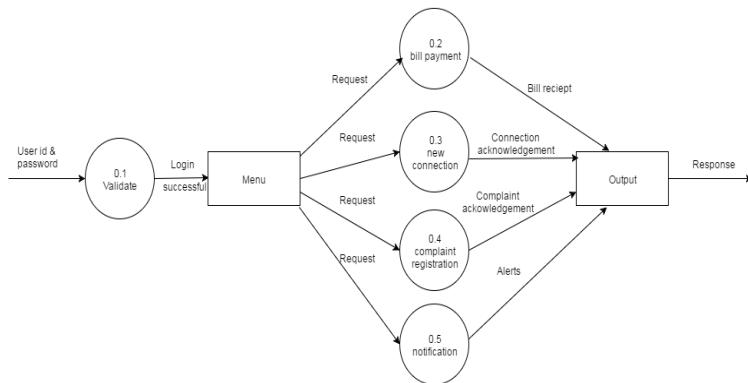


Figure: LEVEL 1 DFD

DATA FLOW DIAGRAM

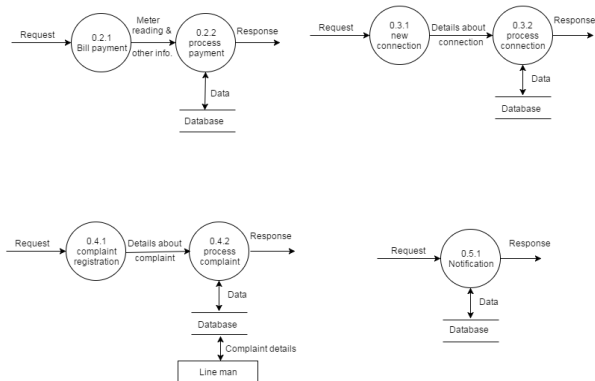
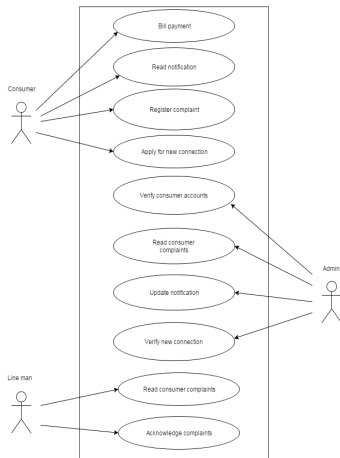
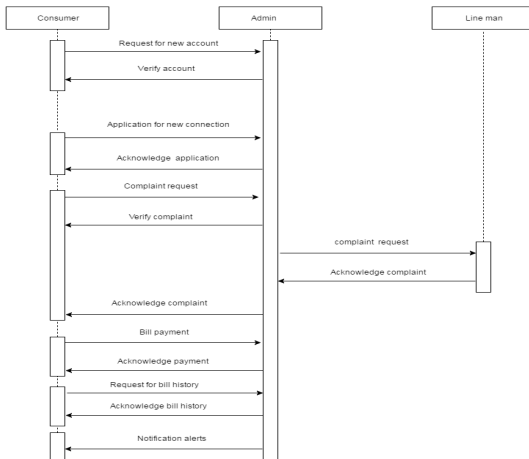


Figure: LEVEL 2 DFD

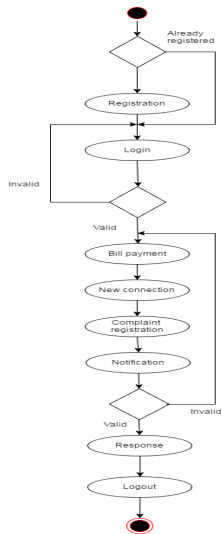
USECASE DIAGRAM



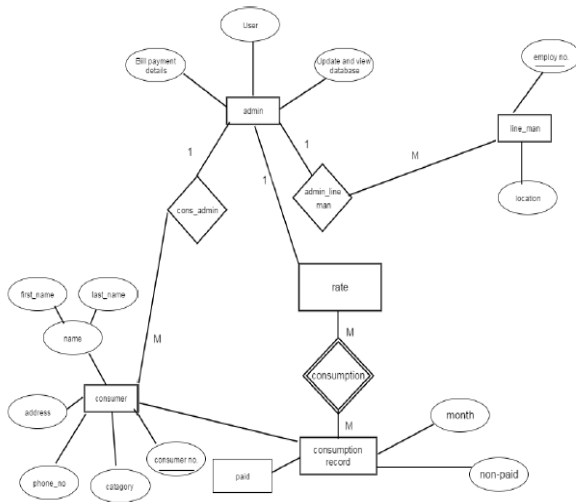
SEQUENCE DIAGRAM



ACTIVITY DIAGRAM



ER DIAGRAM



- ▶ The languages used are:
 - ▶ PHP: PHP is a server-side scripting language designed primarily for web development but is also used as a general-purpose programming language.
 - ▶ JAVA: Java is a general-purpose computer programming language that is concurrent, class based, object-oriented, and specifically designed to have as few implementation dependencies as possible.
 - ▶ Android: Android is a mobile operating system developed by Google, based on the Linux kernel and designed primarily for touch screen mobile devices such as smart phones and tablets

- ▶ Proposed system is more user friendly.
- ▶ User will get informations about his/her current connection.
- ▶ User can pay bill easily.
- ▶ User can easily report their issues related to current connection.
- ▶ Moreover, all the services associated with the electricity board is collaborated into a single device.

