**KONOWLEDGE DISCOVERY AND MANAGEMENT**

**PROJECT PROPOSAL**

**Team members:**

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In this course we are going to develop a mobile application and web application based on Hadoop technology which can access the datasets available to us.

**Motivation:**

In today's world efficient way of power consumption has become an big issue. Now a days it is every one's responsibility to save electricity because electricity is non-renewable energy. Even though many of us have the intension to save this energy, but without having the much knowledge about how much energy is consuming on every day, and by every appliance, we are unable to do this. By knowing the basic knowledge like consumption made by many appliances like refrigerator, micro wave Owen, fan, television and computer or laptop etc.....and by comparing it with the average consumption by these devices on a regular basis one can actually control the usage of power. So our main motivation is creating an mobile application which provides the information to the user regarding the electricity consumption. on every day and on every appliance and compare it with average consumption of that particular appliance.

**Significance:**

The purpose of this project is to create a mobile app that helps to educate the people or users in a particular area about the power consumption made by different appliances in their respective household and by comparing it with the average consumption of that appliances in a graphical manner that help the user for the efficient usage of electricity and also by storing the data user can actually compare it with previous consumption made by that appliance and to know how much he saved or wasted on that appliance. In this project we have data of one million users in a society in excel sheet. This data is stored in a database and accessed by using Hadoop and web application.

**Objectives:**

\* With this application we are going to provide the user awareness regarding how much energy is consuming every day by every appliance.

\*Providing graphical representation of user power consumption on daily wise, monthly wise, average daily consumption average monthly consumption.

\*utilization of smart meter provides the information regarding power consumed by every appliance connected to it.

\* energy provider can also provide suggestions to the user, So that user can regulate his power consumption

\*By knowing the power consumed by every appliance he can better regulates the power consumption of every appliance.

**Features:**

1.Graphical view of energy consumption.

2. Will try to represent things mostly in diagrammatic manner to have an idea about it.

3.Special feature is web application that update the data base.

4. Application wise information and their energy consumption.

5.To use an hadoop technology that can access database having one million users.

**Data sets:**

\*data of one million users for whom energy is supplied by energy suppliers like Kcp & Del is available in an Excel sheet.