PROJECT REQUIREMENT SPECIFICATIONS

60% Expected/ Working Requirements

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| User Group | Requirement(s) | Requirement Description |
| Admin   1. Dashboard | Manage Reports | Admin has a dashboard to easily monitor the reports including the total usage of KWH every week and month of every user. |
|  | Total Consumption | Admin can see the total power consumption of all users. |
|  | Connected Devices | Admin can see the total connected devices to the website |
| 1. Devices | Overview of the connected devices. | Admin can view the list of connected devices together with their status. |
| 1. Tables | Table or list of user accounts | Admin can view the users’ profiles; name, email address, phone numbers, total connected devices per user and options. |
|  | Options button to view devices | Admin can view the devices connected or used by the user. This will lead the admin to the ‘Devices’ tab, and the devices will be filtered per user devices. |
|  | Return button | Admin will reappear to the ‘Tables’ tab. |
| 1. Account Settings | Account information of Admin | Admin can view and update the information; full name, phone number, e-mail address, and password – for the admin account only. |
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| User   1. Create Account | No account? Create new | Users who avail devices, must create their account. |
| 1. Log In | Log in to website. | Users can successfully log in to the website. |
| 1. Dashboard | Total Consumption | User can view the total power consumption of their connected devices. |
|  | Overview of Consumption Graph | Users can view the monthly and/or weekly of the power consumption of their devices. |
|  | Connected Devices | Users can view the count of their connected devices. |
|  | Biggest Consumer | Users can see the device which have use the biggest power consumption. |
| 1. Devices | Add new devices | Users can add the device code that will be provided or included to the device. |
|  |  | Users can put the name of the device on where or which or how and/or who, will use the device. |
|  | Device List | User can view their added devices as list. |
|  | Device Status | Users can see the status of their devices. |
|  | Change Status | Users can change the status of their devices with the toggle button and turn to ON and/or OFF. |
|  | Remove or delete devices. | Users can delete their devices. |
| 1. Tables | Monthly Report | Users can see the monthly and weekly report of their consumption that includes the month, the kwh per month and for week. |
| 1. Account | Account information | Users can view and update the information; full name, phone number, e-mail address, and password. |
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| Device/Prototype | Wi-fi connection | The microcontroller is connected to the wifi. |

PROJECT REQUIREMENT SPECIFICATIONS

40% Remaining Requirements

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| User Group | Requirement(s) | Requirement Description |
| Admin | Notification | Admin will have notification about new users and their usage of/and devices. |
|  | Manage Reports | Filter for user’s name to monitor the total usage of each user every week and month. |
|  | Forgot Password | Required to verify email, to do the function of forgot password. |
|  | Code for devices | Admin verify the device code for adding of new devices for users. |
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| Users | Forgot Password | Required to verify email, to do the function of forgot password. |
|  | Password | Requires alphanumeric password. |
|  | Total Consumption | Must be connected to database, to get the power consumption and the biggest consumer device. |
|  | Overview of Consumption Graph |
|  | Biggest Consumer |
|  | Monthly Report | Must fetch the data from database. |
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| Device/Prototype | Send and receive of data to website. | Must be connected to internet to send and receive the data. |
|  | Device Status | Must get the status from the device. |
|  | Change Status | Must change the status of the device. |
|  | Power Consumption | Must get the timely power consumption. |
|  |  | Must compute the kwh per day. (addition of consumption) |
|  | Device Code | Must have encoded the devices code into database to verify the new devices. |