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2022 S1 Assignment 1 – Group Project

**ElectroGrid Company Management System**

**PAF project Group ID - 10**

**Y3.S1.WE.IT.01.01**

|  |  |
| --- | --- |
| Registration No | Name |
| IT20206932 | Weerasinghe O.A |
| IT20206314 | Weerasinghe W.M.C |
| IT20235406 | Kumarasinghe G.G.S.N |
| IT20192228 | R.M.N. Kavindya |

**Assignment Details**

* Assignment

**Members’ details**

|  |  |  |
| --- | --- | --- |
| Registration No | Name | workload distribution |
| IT20206932 | Weerasinghe O.A |  |
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**Public VCS repo (PowerGrid Project Assignment)**

<https://github.com/oshanadithya/PAF-PowerGrid-Assignment>

**Methods**

**Time Schedule**

**Requirements**

**Stakeholder Analysis**

Onion Diagram

Developer

Technical Management

Billing

Public

System Admin

Legal

Users

User Management

Financial Beneficiaries

**Requirement Analysis**

Functional Requirements

* A customer has register to the system by Sign-In.
* Registered customer can directly access to the power-grid system.
* User can check his/her monthly power consumption.
* User can make payments via the system.
* User can make complaints or feedback.
* System administrator can retrieve complaints or feedbacks from users.
* System administrator collecting unit collector’s data and create power units for the user.
* System administrator retrieving the data and update it for the latest version
* System administrator can delete the data.
* System Administrator can generate a bill for the customer.

Non-Functional Requirements

* The system will have an average page load time of less than 2 seconds.
* The system will have an 100% availability among users.
* The system will handle 1000 ‘s of concurrent users while meeting perfect performance objectives.
* The user interface will have good privacy with different level of user privileges to not to view other individual customers or stake holders power consumption data.
* The billing system will handle by internationally recognized payment gateway systems.

**Requirements modelling**

Use case diagram

**System’s overall design**

Overall architecture

Overall DB design

No Overall DB Design ER diagram because we are using and distributed system, we going to use separate database for each microsystem.

Activity diagrams

System’s integration details

**Individual sections**

References

Appendix