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Year 3 Semester 1

Programming Applications and Frameworks – IT3030

Project Title**: ElectroGrid (EG)**

Assignment Details: Assignment 2022 S1 – Group Project

Team Number: Y3S1.05.01.55

Team Members: IT20008550 – Wijayarathna P. P

IT20350246 – Imthiyaz M. I

IT20126506 – Jayasekara K.H.C.I

IT 20216528 – Wanaguru D.R.S

IT20126124 – Kumarasinghe S

IT20131074 – Abywickrama T. H

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# Group Information

## 1.1 Work Distribution

|  |  |  |  |
| --- | --- | --- | --- |
| **Registration Number** | **Name** | **Function** | **Description** |
| IT20008550 | Wijayarathna P. P | Payment Management | * Create payment entry * Calculate payment amount * Update payment entry * Delete payment entry * Update payment status |
| IT20350246 | Imthiyaz M. I | Monitoring Management |  |
| IT20126506 | Jayasekara K.H.C. I | Employee Management |  |
| IT20216528 | Wanaguru D.R. S | Inquiry Management |  |
| IT20126124 | Kumarasinghe S | Red Notice Management |  |
| IT20131074 | Abywickrama T. H | Customer Management |  |

## Version Control System

### VCS Repository Link

<https://github.com/Puranjanaaa/ElectroGrid.git>

### Commit Log

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# SE Methodology

## 2.1 Introduction

ElectroGrid (EG) is the company who maintains the power grid of the country. They have a system to monitor the power consumption of the users, generate the monthly bills and automatically send to the users, and accept the online payments from the users. The number of stakeholders of EG is growing and the current system is not scalable. The aim of the project is to develop a highly scalable online platform for the EG to cater all the users based on micro services.

## Methodology

# Time Schedule (Gantt Chart)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Task** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** |
| Requirements gathering & analysis |  |  |  |  |  |  |  |  |  |
| Designing the system architecture |  |  |  |  |  |  |  |  |  |
| Designing the database |  |  |  |  |  |  |  |  |  |
| Feedback Session |  |  |  |  |  |  |  |  |  |
| Implementation |  |  |  |  |  |  |  |  |  |
| Testing and Integration through Github |  |  |  |  |  |  |  |  |  |

# Requirements

## 4.1 Stakeholder Analysis (Onion Diagram)

**Wider Environment**

**The Containing System**

**The Operational System**

**ElectroGrid**

**System**