**Software Requirements Specification (SRS) Document**

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|  | **Demand Forecasting of Air Conditioning for Commercial Complex, Team 12 and Akshat Goyal, Kanish Anand, Nikunj Nawal and Sridhar M** |

# Brief problem statement

Given the energy consumption data of any building we have to estimate the future energy demand of the complex on an hourly and daily basis. We are supposed to create a web application for the pre-stated problem statement.

# System requirements

# Frontend - HTML, CSS , JavaScript

# Backend - NodeJS

# Database - MongoDB

# Machine Learning - Python3 , Mathematics and ML libraries

# Cloud Hosting - Azure or AWS

# API - Open Weather API

# Users profile

# The different users who would be using the software include:

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| S.No. | USER | Description |
| 1 | Owner of the Complex | The Owner will have full access to the product, will be familiar with using the software and can monitor energy consumption rate, generate reports and act accordingly. |
| 2. | Finance Team of the Complex | The Finance team will use the future energy consumption to reduce the consumption and cost of electricity. |
| 3. | Maintenance Team | The Maintenance team will ensure the maintenance of the software with the changing system environment and will provide updates. |

# Feature requirements (described using use cases)

**Use case description**