**Project Plan Document**

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| Project number | 41 |
| Project Title | Forecasting of Air Conditioning for commercial complex |
| Document | Project Plan |
| Creation date | 10th January 2020 |
| Created By | Akshat Goyal, Kanish Anand, Sridhar M, Nikunj Nawal |
| Client | Siva Prasad Tekumudi  Indriyn Data Analytics Private Limited |

**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.

**Team Members**

Akshat Goyal : Backend, Machine Learning

Kanish Anand : Backend , Machine Learning

Nikunj Nawal : Frontend, Documents

Sridhar M : Frontend, Documents, Managing Meets

**Team Communication**

We meet twice or thrice per week and have meet for around 1 hour. As we all stay in Bakul we

meet in one of our rooms on Tuesday, Friday, and Sunday according to a time convenient for

everyone and share each one’s progress with his part of the project.

**Development Environment**

The major tools that are being used or will be used during the development of the project are:

1. **Coding Platforms** :

* VSCode - To write the codes and integrate with gitlab using gitlens.
* Jupyter Notebook - For Machine Learning code.

1. **Programming Language :**

* Node js - For coding the backend of the project
* HTML/CSS - For frontend of the project
* MongoDB - For making the database to store information.
* Python - For Machine Learning (along with needed machine learning libraries).

1. **Collaboration Tools :**

* GitLab - Used to share the code and keep track of edits and reviews.

1. **Creating Project Documentation :**

* Google Docs & Drive - for sharing documentation and have a common place for all documents
* Google Sheets - for progress trackers

**Milestone Schedule**

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| **Milestone** | **Due Date** | **Release** | **Deliverable?** |
| Create Draft Requirements | 21st Jan | R1 | No |
| Finalize Requirements | 22nd Jan | R1 | Yes |
| Create a list of needed Programming languages | 23th Jan | R1 | No |
| Study all listed Programming languages | 30th Jan | R1 | Yes |
| Working on Data | 3rd Feb | R1 | No |
| Data Cleaning Part Finished | 15th Feb | R1 | Yes |
| Data Analysis | 15th Feb | R1 | No |
| Show graphs for data analysis | 21st Feb | R1 | Yes |
| Create Jupyter Notebook | 15th Feb | R1 | No |
| Finish Jupyter Notebook with working code | 24th Feb | R1 | Yes |
| Start making of Webapp | 26th Feb | R1 | No |
| Thinking about Feature Engineering for increasing  model accuracy | 30th March | R2 | No |
| Completion of Frontend and it’s testing | 11th April | R2 | No |
| Completion of Backend and it’s testing | 8th April | R2 | No |
| Integration of frontend and backend | 12th April | R2 | No |
| Test related Documents | 15th April | R2 | Yes |
| Testing of integration and individual modules | 18th April | R2 | No |
| Finish Webapp | 22nd April | R2 | Yes |
| Finalize model with all new parameters | 22nd April | R2 | Yes |