# Project Documentation

## GENERAL INFORMATION

### Project Name:

Financial Data Chatbot (FDC)

### Purpose:

To facilitate access and consultation of financial data through a user-friendly platform, using the capabilities of SQL, Python, and the Alpha Vantage API and an AI-based chatbot.

### Scope:

The software will allow users to make specific financial data queries, obtain real-time results using the Alpha Vantage API, and receive immediate answers to common questions through an integrated AI-based chatbot.

## 1.3 Team

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| --- | --- | --- |
| Name | Role | Email/Phone |
| JOEL MENDONSA | PYTHON DEVELOPER | Jmendonsa8141@conestogac.on.ca |
| JORGE SABOGAL | PYTHON DEVELOPER | jsabogaltamayo6485@conestogac.on.ca |
| MOULYA BANGALORE PRADEEP | PYTHON DEVELOPER | mpradeep3556@conestogac.on.ca |

## Refined Functional Requirements

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| --- | --- | --- | --- | --- | --- |
| # | Functional Requirement | Category | Notes | Priority | Team Member |
| 1 | Integration with Alpha Vantage API | API Integration | Enable data retrieval through Alpha Vantage API using a valid API key. | High | JOEL MENDONSA |
| 2 | Execute SQL Queries | Database Management | Support the execution of standard SQL queries to interact with the database. | High | JOEL MENDONSA |
| 3 | AI Chatbot Development | Chatbot | Implement an AI chatbot that utilizes an AI API to accurately respond to user inquiries. | High | JORGE SABOGAL, MOULYA B. PRADEEP |
| 4 | Intuitive User Interface | User Interface | Develop a user interface that facilitates easy submission of queries and visualization of results. | High | JORGE SABOGAL, MOULYA B. PRADEEP |
| 5 | Real-time Financial Data Alerts | Notification | Implement a notification system that sends real-time financial data. | Medium | JOEL MENDONSA |
| 6 | Export Data Functionality | Data Export | Provide functionality that allows users to export query results to CSV/Excel formats. | Low | MOULYA B. PRADEEP |
| 7 | Visual Representation of Data | Data Visualization | Incorporate data visualization tools to present query results in a graphical format within the UI. | Medium | MOULYA B. PRADEEP |