

Project Proposal

FINAL GROUP PROJECT

Live Weather Reports

Data Programming

December 11, 2022

Big Data Analytics Team

Introduction

We are implementing a project as per requested by a client where we have to create a proof-of-concept "Web" application to showcase our strengths as a group or business. They are willing to hire your team on a multi-year contract.

Objective

This project's goal is to create a weather web application using an API that will let you pull data into the database and then visualise using Google Charts.

Requirements

- Platform/Programming language and tools: HTML, JavaScript, Python, JSON, MongoDB, Flask.
- Members with expertise in creating documentation for proposals, managing project deliverables, and implementing front and back ends for software.

Outcomes and Benefits

- Demonstrated the gathering of live weather data from an API
- Load and store the acquired data in MongoDB
- Used Flask framework for handling server-side code

Deliverables

- Data Visualizations and integration with our platform
- Project Report

Team Profiles

Name	Role	Education
Sahil Duggal	Developer	Masters in computer applications
Sagarika Nagpal	Business Analyst	B. Tech in Computer Science
Shrushti Sanjay Sawant	IT Project Manager	B. Engineering in Electronics

Resources

- Demonstrate the acquisition of a data source using API
- Store acquired data in a MongoDB.
- Analyze and Visualized data using Google Charts

Techniques

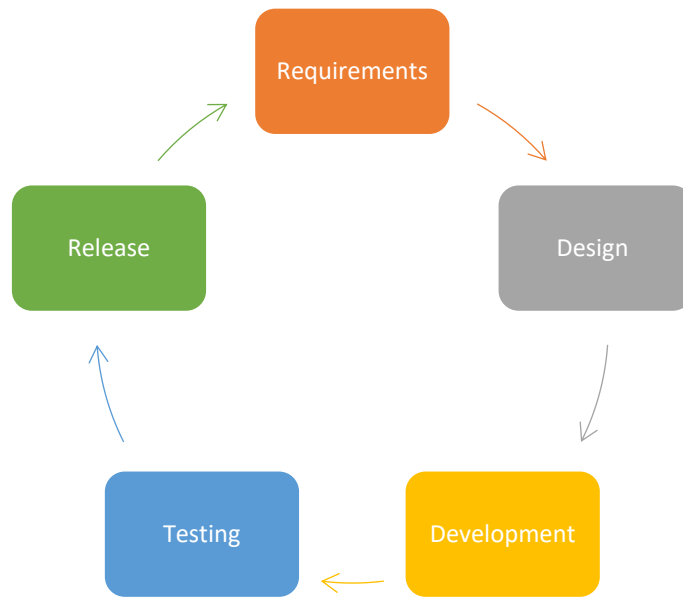
- Search for meaningful dataset and load that data set into Mongo DB using API
- Integrate flask web frame to MongoDB and Google charts and used python for connecting it
- Visualized the data in google charts

Tools/Languages

1. Python
2. HTML
3. JavaScript
4. MongoDB
5. Flask
6. Visual Studio Code
7. Google Charts

Process Visualization

1. Requirements
2. Design
3. Development
4. Testing
5. Release



Risk and Issues Management

When issues develop, the Team will decide how to handle them in the best way possible. When a team member experiences a problem, such as an emergency or illness, other team members will divide up their duties.

Timeframe

The Team's commitment to problem-solving may affect their capacity to produce the anticipated results within the desired timeframe.

The Team will exercise its best efforts to respect deadlines and deliver the anticipated objectives

Communications

Our team members communicated with one another using Microsoft Teams, WhatsApp, and face-to-face meetings.

Timelines and Key Milestones

Project Timeline	Activity	Complete By
	Requirements Phase	November 25, 2022
	Design Phase	November 29, 2022
	Development Phase	December 5 , 2023
	Testing Phase	December 7, 2023
	Release Phase	December 10, 2022
	Presentation	December 12, 2023
	Project Close-Out Phase	December 12, 2023

Conclusion

In conclusion, we have demonstrated the data acquisition and stored it in the database. For Visualization, is done in google charts.