Project Plan

<Project Name>

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# Introduction

## Background

The goal of this project is the development of a data analysis and visualization tool (DAVT) specifically for the analysis and visualisation of a dataset of ~400k New York Restaurant inspection Results hosted on kaggle.

## Scope

This project will produce a DAVT with a graphical user interface (GUI) that the user will perform both data analysis and data visualisation tasks with. The tasks they can perform will be limited to the following set:

1. The user can retrieve all inspection details for a specified period.

2. The user can plot violations distributed on a per-suburb basis.

3. The user can retrieve all violations containing a specified keyword for a specified period.

4. The user can map violations pertaining to animals distributed over time and suburbs.

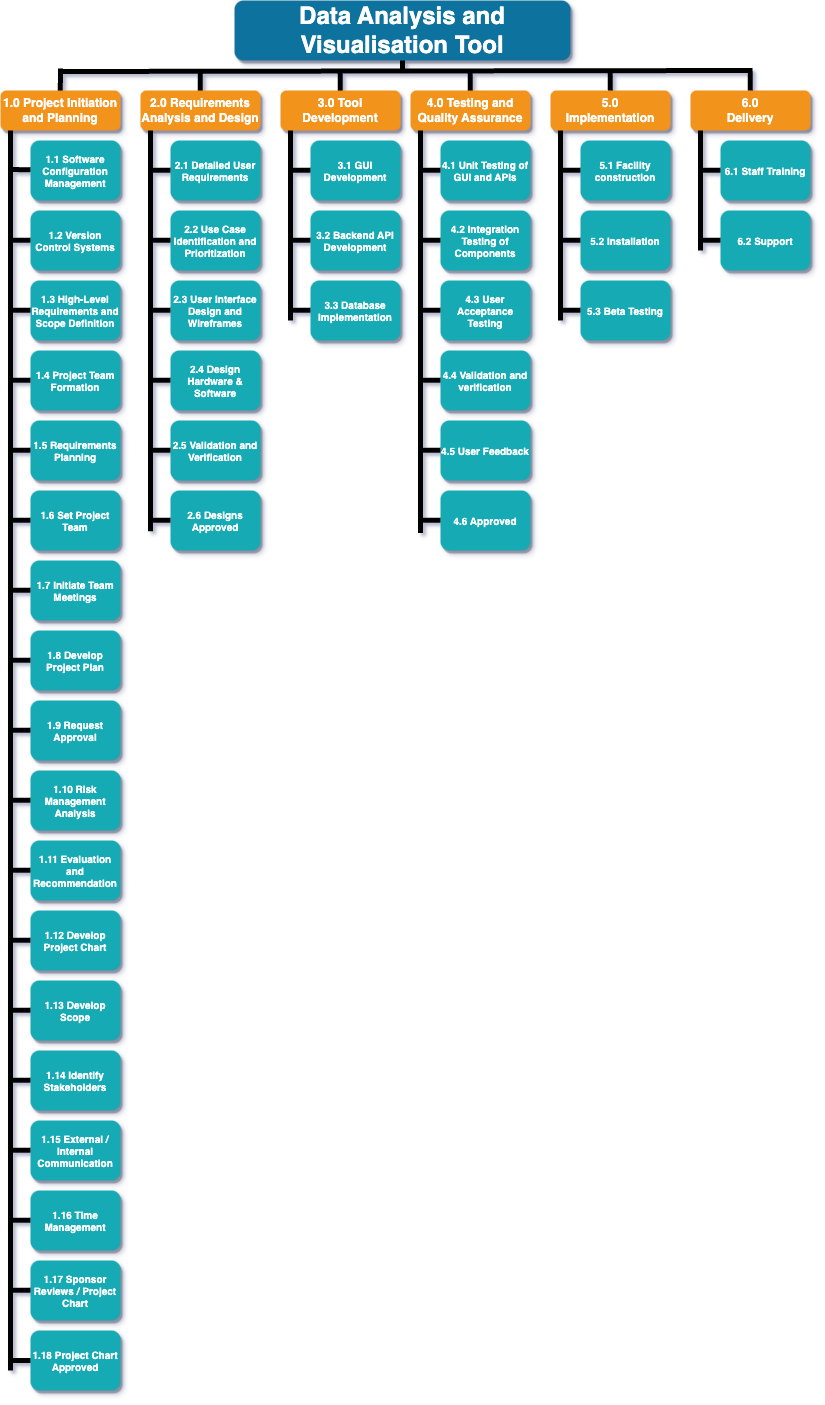
5. [insert task here]

## Document contents

This document contains an introduction to the problem space, the objective of this project and a breakdown of all the tasks required for the completion of this project, detailed in the form of a Work Breakdown Structure, Activity Definition and Estimation and a Gantt chart.

*Include some background information about the problem, the scope and what this document will contain.*

# Work Breakdown Structure



# Activity Definition & Estimation

|  |  |  |  |
| --- | --- | --- | --- |
| ***Id*** | ***Name*** | ***Description*** | ***Estimated Duration*** |
| **1.0 Project Initiation & Planning** | |  |  |
| *1.1* | Software Configuration Management (SCM) | *Define and implement a process for managing software configurations.* | *2* |
| *1.2* | Version Control Systems (VCS) | *Set up a Version Control System (e.g., GitHub) for source code management* | *1* |
| *1.3* | High-Level Requirements and Scope Definition | 1. *Gather high-level requirements.* 2. *Define and document the scope of the project.* | *3* |
| *1.4* | Project Team Formation | 1. *Identify roles and responsibilities for project team members.* 2. *Assemble the project team.* | *2* |
| *1.5* | Requirements Planning | 1. *Plan the requirements gathering process.* 2. *Identify stakeholders and users to be involved* | *1* |
| *1.6* | Set Project Team | 1. *Assign specific roles and responsibilities to each team member.* 2. *Ensure everyone is clear on their tasks.* | *1* |
| *1.7* | Initiate Team Meetings | *Schedule and hold initial team meetings to discuss project goals and expectations.* | *Ongoing* |
| *1.8* | Develop Project Plan | *Create a detailed project plan outlining tasks, dependencies, and timelines.* | *4* |
| *1.9* | Request Approval | *Present the project plan to stakeholders for approval* | *1* |
| *1.10* | Risk Management Analysis | 1. *Identify potential project risks and their impacts.* 2. *Develop strategies to mitigate or manage risks.* | *2* |
| *1.11* | Evaluation and Recommendation | 1. *Evaluate potential tools, technologies, and methodologies for the project.* 2. *Make recommendations based on evaluations.* | *3* |
| *1.12* | Develop Project Chart | *Create a visual representation of the project's timeline and milestones.* | *1* |
| *1.13* | Develop Scope | 1. *Further define and clarify the project scope.* 2. *Ensure alignment with stakeholder expectations.* | *2* |
| *1.14* | Identify Stakeholders | 1. *List all individuals, groups, or organizations affected by the project.* 2. *Determine their roles and influence on the project.* | *1* |
| *1.15* | External/Internal Communication | 1. *Establish a communication plan for stakeholders and team members.* 2. *Determine frequency, channels, and content of communication.* | *Ongoing* |
| *1.16* | Time Management | 1. *Plan and allocate time for each project phase & task.* 2. *Develop a project schedule.* | *2* |
| *1.17* | Sponsor Reviews Project Chart | *Present the project chart to the sponsor for review/feedback* | *1* |
| *1.18* | Project Chart Approved | *Obtain sponsor approval for the project chart and plan* | *1* |
| **2.0 Requirements Analysis & Design** | |  |  |
| *2.1* | Detailed User Requirements | 1. *Conduct interviews/surveys to gather detailed user requirements.* 2. *Create user stories and use cases.* | *4* |
| *2.2* | Use Case Identification and Prioritization | 1. *Identify key use cases for the tool based on user requirements.* 2. *Prioritize use cases based on their importance and impact.* | *2* |
| *2.3* | User Interface Design and Wireframes | 1. *Design the graphical user interface (GUI) for the tool.* 2. *Create wireframes to visualize layout and interactions.* | *3* |
| *2.4* | Design Hardware & Software | 1. *Define the hardware & software architecture for the tool.* 2. *Identify technology stacks, frameworks, and libraries.* | *2* |
| *2.5* | Validation and Verification | 1. *Review and validate the design against user requirements.* 2. *Verify that the design aligns with project goals.* | *2* |
| *2.6* | Designs Approved | *Obtain stakeholder approval for the user interface and software architecture* | *1* |
| **3.0 Tool Development** | |  |  |
| *3.1* | GUI Development | 1. *Develop the graphical user interface.* 2. *Implement period selection/plotting/search/analysis interfaces.* | *6* |
| *3.2* | Backend API Development | 1. *Design and implement APIs to handle data retrieval and processing.* 2. *Develop APIs for inspection details, violation distribution, keyword search, and animal-related analysis.* | *8* |
| *3.3* | Database Implementation | 1. *Set up the database schema for storing inspection data.* 2. *Implement CRUD (Create, Read, Update, Delete) operations.* | *4* |
| **4.0 Testing and Quality Assurance** | |  |  |
| *4.1* | Unit Testing of GUI and APIs | 1. *Develop and execute unit tests for GUI components and APIs.* 2. *Ensure individual components function as intended.* | *3* |
| *4.2* | Integration Testing of Components | 1. *Test the integration between GUI, APIs, and database.* 2. *Validate that components work together seamlessly.* | *4* |
| *4.3* | User Acceptance Testing (UAT) | 1. *Collaborate with users to perform UAT on the tool.* 2. *Address feedback and ensure user satisfaction.* | *6* |
| *4.4* | Validation and Verification | 1. *Review and validate the developed tool against requirements.* 2. *Verify that the tool meets user needs and expectations.* | *3* |
| *4.5* | User Feedback | 1. *Gather user feedback during UAT and testing phases* 2. *Incorporate feedback to improve the tool.* | *Ongoing* |
| *4.6* | Approved | 1. *Obtain stakeholder and user approval for the tested and refined tool* 2. *Ensure the tool is ready for deployment.* | *2* |
| **5.0 Implementation** | |  |  |
| *5.1* | Facility Construction | 1. *Setup the required infrastructure and environment for tool deployment* 2. *Ensure the necessary hardware, software, and resources are in place* | *5* |
| *5.2* | Installation | 1. Hardware Setup and Assembly 2. Network Configuration and Integration 3. Equipment Calibration and Testing | *2* |
| *5.3* | Beta Testing | 1. Unit Testing of Components 2. Integration Testing 3. Performance Testing 4. Quality Control and Defect Resolution | *3* |
| **6.0 Delivery** | |  |  |
| *6.1* | Staff Training | 1. End-User Training 2. Technical Documentation Creation 3. User Manuals and Guides. 4. Training Materials Preparation | *4* |
| *6.2* | Support | 1. System Monitoring and Troubleshooting Setup. 2. User Support Setup. 3. Knowledge Transfer and Documentation Handover 4. Final Stakeholder Review and Approval | *7* |

# Gantt Chart

A screen shot of a project

Description automatically generated