Project Plan

New York Restaurant Inspection Results

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# Introduction

## Background

NYC Restaurant inspection dataset has been taken from Kaggle which contains a lot of Restaurant inspection data collected by the Department of Health in NYC. The data covers all of NYC from 2010 over a period of 7 years. The data gives us details of the violations done by each restaurant with their record details. The main attributes recorded for each restaurant are suburb, cuisine, inspection date, inspection type, Violation code, description, score and grade(A-F). (NYC Restaurant Inspections, 2023)

The motivation for collecting this data is to analyse how many restaurants have been closed in a particular time frame or can close, what types of violations are common in certain suburbs, which cuisines are more likely, and differences in franchises and self-made restaurants. (NYC Restaurant Inspections, 2023)

The client requires a system to find interesting insights with the dataset provided with the following features:

* List the information for the specified date range when the user of the system enters the start date and end date.
* When navigating to the dashboard page displays different charts which give a summary of data for different time frames. (Violations over different suburbs, violation related to animals over a period, violation related to animals over different suburbs and violation count based on cuisines)
* Allow users to retrieve data with particular keywords.
* Allow users to export data to store the information generated.

## Scope

The scope of the project plan is to provide information about how the program or system will be created with proper planning and time allocated. The work breakdown structure gives an idea of the phases of the project. The activity definition and estimation shows what is to be done during the phase like resources and period. The time frame details for tracking progress for completing each activity are shown in the Gantt chart. This document helps the project manager to update the development progress to respective stakeholders and makes it easy to track the process of development.

## Document contents

The document consists of three major contents to enable proper project planning. They are Work breakdown structure, Activity definition and Gantt chart. The work breakdown structure divides each tasks or phases into multiple steps and sets a guideline or flow chart for the entire project. The Activity definition & estimation provide a more detailed approach to how each step is accomplished and resources assigned. Gantt chart is used to schedule the project activities into time frames and marked by different phases or development. This make it easy to keep track of the dates from start to finish.

# Work Breakdown Structure

A diagram of a company

Description automatically generated

# Activity Definition & Estimation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity ID** | **Activity Description** | **Duration** | **Resources** | **Periods** |
| **Planning** | | | | |
| 1 | Meeting with client | 2 hours | 1 | 1 |
| 2 | Understand client requirements | 3 Hours | 3 | 1 |
| 3 | Define objectives and scope | 5 Hours | 3 | 2 |
| 4 | Create project plan | 2 Hours | 1 | 2 |
| 5 | Allocate resources | 2 hours | 2 | 2 |
| 6 | Schedule milestones and timelines | 4 hours | 2 | 3 |
| 7 | Develop use cases | 6 hours | 3 | 3 |
| **Analysis** | | | | |
| 8 | Requirement analysis | 2 Hours | 1 | 3 |
| 9 | Analyse past and present data | 4 Hours | 3 | 4 |
| 10 | Evaluate scope | 1 hour | 3 | 4 |
| 11 | Document the requirements | 5 hours | 3 | 4 |
| **Design** | | | | |
| 12 | System software and components design | 4 hours | 3 | 5 |
| 13 | Interface design | 5 hours | 2 | 5 |
| 14 | Design documentation | 4 hours | 2 | 6 |
| 15 | Obtain client approval | 2 Hours | 2 | 6 |
| **Implementation** | | | | |
| 16 | Create user interface | 16 hours | 2 | 7, 8 |
| 17 | Develop backend | 48 hours | 3 | 9 - 14 |
| 18 | System Integration | 8 hours | 2 | 15 |
| 19 | Document the development process | 8 hours | 2 | 16 |
| **Testing** | | | | |
| 20 | Analyse requirements and identify loopholdes | 5 hours | 2 | 17 |
| 21 | Prepare test plan | 3 hours | 2 | 17 |
| 22 | Develop test cases | 5 hours | 3 | 18 |
| 23 | Run test cases | 8 hours | 3 | 18, 19 |
| 24 | UAT | 8 hours | 2 | 19, 20 |
| 25 | Prepare test closure report | 4 hours | 1 | 20 |
| **Deployment and Maintenance** | | | | |
| 26 | Documentation | 4 hours | 2 | 21 |
| 27 | System installation and configuration | 5 hours | 2 | 21 |
| 28 | Deployment | 16 hours | 3 | 22, 23 |
| 29 | Maintenance | 2 hours | 1 | 24 |

# Gantt Chart

