Project Plan

Software Design Document

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. 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. 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

*This section should include the work breakdown structure for the whole project. The elements from the WBS should be used to generate your activity definition and those activities should then be scheduled in the Gantt Chart. Remember to consider ALL project activities – anything you do or will need to do should be included in the WBS*

*WBS’s are usually presented as some kind of hierarchical diagram/chart etc. The details what is involved each work unit should be provided in section 3:* ***Activity Definition***

*You do NOT need to do a WBS Dictionary for this project – the activity definition (whilst slightly different) will suffice. The WBS is focussed on SCOPE. The Activity definition is focussed on TIME.*

# Activity Definition & Estimation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Work Breakdown Structure**  **Iteration 2 of Rewards Subsystem** | | | | | | |
| **Task ID** | **Task Description** | **Duration** | **Resources** | **Start Date** | **End Date** | **Predecessor** |
| **Planning** | | | | | | |
| 1 | Meeting with client | 2 hours | 1 | 15/08/2023 | 15/08/23 | 0 |
| 2 | Team meeting and discussion | 3 Hours | 3 | 16/08/2023 | 16/08/23 | 1 |
| 3 | Project Planning and making WBS | 5 Hours | 3 | 17/08/23 | 18/08/23 | 2 |
| 4 | Getting Client Approval | 2 Hours | 1 | 19/08/23 | 21/08/23 | 3 |
| **Analysis Tasks** | | | | | | |
| 5 | Meet client to discuss Scope | 2 Hours | 1 | 22/08/23 | 23/08/23 | 3,4 |
| 6 | Meet the team and Discuss the data, scope and requirement | 4 Hours | 3 | 24/08/23 | 25/08/23 | 5 |
| 7 | Define Use Cases | 1 hour | 3 | 28/08/23 | 28/08/23 | 6 |
| **Design Tasks** | | | | | | |
| 8 | Discuss the design requirements | 1 Hour | 3 | 28/08/23 | 28/08/23 | 5,7 |
| 9 | Design Software Components | 3 Hours | 3 | 29/08/2023 | 30/08/23 | 8 |
| 10 | Design Database Schema | 5 Hours | 3 | 31/08/23 | 01/09/23 | 8 |
| 11 | Make the System Design Document | 2 Hours | 2 | 01/09/23 | 01/09/23 | 8 |
| 12 | Take Client Approval | 1 hour | 1 | 01/09/23 | 01/09/23 | 8,9,10 |
| **Build Tasks** | | | | | | |
| 13 | Build the interface | 5 Hours | 3 | 04/09/23 | 04/09/23 | 12 |
| 9 |  | 2 hours | 3 | 09/08/2023 | 09/08/23 | 8 |
| 10 |  | 1 day |  | 10/08/23 | 10/08/23 | 9 |
| **Testing** | | | | | | |
| 11 |  | 1 day |  | 11/08/23 | 11/08/23 | 10 |
| 12 |  | 1 day |  | 11/08/2023 | 11/08/23 | 10 |
| 13 |  | 1 day |  | 11/08/23 | 11/08/23 | 10 |

*From your WBS, define the activities required for your project. You will revise this document and add more detail for part B as you discover more about the project.*

*Each activity should be clearly identified by a number and should match up to your Gantt chart. You should provide some estimations for the time you think each activity will take. This should make it easy to prepare your Gantt chart.*

# Gantt Chart

*This section should contain your Gantt chart. The items in the Gantt chart should match the activity definition from section 3. You should also submit your Gantt chart file separately.*

A screenshot of a calendar

Description automatically generated

# Reference:

NYC restaurant inspections. (2023). Kaggle. Retrieved from:

<https://www.kaggle.com/datasets/new-york-city/nyc-inspections>