Project Charter

|  |  |
| --- | --- |
| Project Identification | |
| **Name or Title** | Data-Driven Evaluation of Toronto's Apartment Building Standards |
| **Description** | This project aims to analyze Toronto's apartment buildings using the Apartment Building Evaluation dataset to create a comprehensive Tableau dashboard. The dashboard will offer insights into building conditions, resident experiences, and compliance with maintenance standards. |
| **Project Sponsor** | Pratik Bedi |
| **Project Manager** | Jibin K Sebastian |
| **Start Date** | 15-09-2024 |
| **Finish Date** | 30-11-2024 |
| **Estimated Budget** | $85,000 - $200,000 |

|  |
| --- |
| **Project OBJECTIVES (purpose)** |
| * Develop a comprehensive Tableau dashboard showcasing Toronto's apartment building landscape. |
| * Evaluate building conditions, repairs, and resident satisfaction across Toronto. |
| * Identify patterns and trends in building quality across different neighbourhoods. |
| * Analyse the correlation between building age, size, and evaluation scores. |
| * Provide actionable insights for city planners, property managers, and residents. |

|  |
| --- |
| **PROJECT'S CRITERIA FOR SUCCESS (MUST BE MEASURABLE)** |
| * Successfully create and deploy a Tableau dashboard with at least 95% of planned features implemented by the project end date. |
| * Identify at least five significant trends or patterns in building quality across Toronto neighbourhoods. |
| * Generate at least seven actionable insights for stakeholders based on data analysis. |
| * Complete the project within the agreed timeline and budget, with no more than a 10% deviation. |

|  |
| --- |
| **Project SCOPE - HIGH LEVEL (INCLUDE PRODUCT AND PROJECT MANAGEMENT SCOPE)** |
| * Deliver an interactive Tableau dashboard visualizing Toronto's apartment building landscape. |
| * Create geospatial visualizations mapping building locations and scores across neighbourhoods. |
| * Develop statistical models to identify key factors influencing building scores. |
| * Conduct thorough data collection and preparation from the Apartment Building Evaluation dataset. |
| * Perform exploratory data analysis to uncover trends in building conditions over time. |
| * Identify clusters of high and low-performing buildings through geospatial analysis. |
| * Determine significant factors affecting building quality through statistical modelling. |
| * Incorporate user testing in dashboard design to ensure stakeholder relevance. |
| * Prepare comprehensive documentation to communicate insights to all stakeholders. |

|  |  |
| --- | --- |
| **KEY PROJECT DELIVERABLES** | |
| **Name** | **Description** |
| **Cleaned Dataset** | A refined version of the Apartment Building Evaluation dataset. |
| **Tableau Dashboard** | An interactive dashboard visualizing key insights from the data analysis. |
| **Analysis Report** | A comprehensive report detailing findings, trends, and recommendations. |
| **Final Presentation** | A summary of project findings and recommendations for stakeholders. |

|  |  |  |
| --- | --- | --- |
| **HIGH-LEVEL SCHEDULE** | | |
| **Item** | **Major Events / Milestones** | **Dates** |
| 1.1 | Project Initialization | Sept 17 |
| 1.2 | Data Collection | Sept 20 |
| 1.3 | Exploratory Data Analysis (EDA) | Oct 25 |
| 1.5 | Initial Dashboard Creation | Nov 15 |
| 1.6 | Final Dashboard & Report | Nov 30 |

|  |
| --- |
| **CONSTRAINTS (Time, Budget AND TECHNICAL)** |
| **Constraint Description** |
| * Time: The project must be completed by November 30, 2024, to align with the current schedule. |
| * Technical: Dashboard must be compatible with the city's existing IT infrastructure since, there are possibilities of additional features being added to the dataset in the future. |
| * Data: Analysis is limited to the available data in the Apartment Building Evaluation dataset. |

|  |
| --- |
| **Assumptions** |
| **Description** |
| * The Apartment Building Evaluation dataset will continue to be updated regularly. |
| * Stakeholders will provide timely feedback during the dashboard development process. |
| * The project team will have access to necessary software and hardware resources. |
| * The findings will be used to inform policy decisions and improve housing quality in Toronto. |

|  |
| --- |
| **RISKS** |
| **DESCRIPTION** |
| * Data quality issues or inconsistencies in the Apartment Building Evaluation dataset. |
| * Changes in city regulations or evaluation criteria during the project timeline. |
| * Technical challenges in integrating various data sources or creating complex visualizations. |
| * Potential resistance from property owners or managers to the public display of building scores. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SIGNOFF** | | | | |
|  | | | | |
|  | **Signatures and Comments** | | |  |
|  | **Name** | **Signature** | **Date** |  |
|  | Jibin K Sebastian | A close-up of a logo  Description automatically generated | 30/10/2024 |  |
|  |  |  |  |  |
|  | **Comments**: | | |  |
|  |  | | |  |