Business Case

**Organization and department:**

Organization: Toronto Municipal Housing and Urban Development.  
Department: City Planning and Housing Standards.

**Requirements and Justification:**

Toronto’s apartment housing sector, under the Apartment Building Standards bylaw program, requires a robust data-driven solution to monitor, evaluate, and improve building conditions across the city. This project aims to develop an interactive Tableau dashboard, which will offer city planners, property owners, and residents a comprehensive view of building quality and highlight areas needing intervention. This solution will facilitate informed decision-making, ensure compliance with housing standards, and improve overall resident satisfaction.

Functional Requirements:

* An interactive Tableau dashboard displaying data on building conditions, repairs, and resident satisfaction.
* Integration of geospatial visualizations to highlight apartment building scores across different neighborhoods.
* Statistical models to evaluate and highlight key factors affecting building quality.

Non-Functional Requirements:

* Dashboard compatibility with Toronto's existing IT infrastructure for seamless data access and sharing.
* High usability and responsiveness to accommodate all user types, including city planners and general residents.

**Solution and cost estimation:**

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| **Resources** | **Cost** |
| Mobile Application | $30,000 - $70,000 |
| E-commerce Website | $15,000 - $35,000 |
| Hardware | $10,000 - $30,000 |
| Server Installation | $5,000 - $15,000 |
| Database | $10,000 - $25,000 |
| Training | $10,000 - $30,000 |
| Implementation | $10,000 - $20,000 |
| Testing | $10,000 - $20,000 |

Benefits of investing in this solution:

* Provides data-backed insights for policymakers and city planners, enabling targeted interventions in areas with low building scores.
* Allows residents to make informed housing choices, empowering them with knowledge of their building’s maintenance and compliance status.
* Helps allocate resources effectively by identifying neighborhoods and building types that require urgent maintenance or improvement.
* Encourages property owners to adhere to standards by making building scores accessible, ultimately enhancing the quality of housing stock in Toronto.
* Enables ongoing analysis with regularly updated data, ensuring that housing standards evolve with the city’s growth and housing demands.