Exercises

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**Course:** SOEN 6841 - Software Project Management

## Chapter 1 – Exercise 1.1:

It is said that government spending on IT is increasing as government departments take initiatives to improve customer service or have a wider reach of services. Find out what factors are responsible for the increase of IT spending by government agencies. Also list and explain the three biggest IT projects undertaken by the federal government in recent times?

### Answer:

As reported by Pamma (2022), Government initiatives to replace legacy applications and modernize infrastructure play a crucial role in the increase in global government IT spending. This increase can also be credited to factors such as inflation, workforce scarcity, and a growing demand for digital services. The government is responding to peoples’ rising expectations for online services and experiences (Goasduff, 2023).

Amaglobeli et al. (2023) claim that digitalization enables governments to enhance revenue collection, improve the efficiency of public spending, and strengthen fiscal transparency and accountability. The surge in IT spending is an acknowledgment of the need for modernization to meet growing digital needs.  
  
According to the "Large Government of Canada IT projects" dataset, the three most significant IT projects recently undertaken by the Canadian federal government are:

1. **Benefits Delivery Modernization (BDM) Programme**

Total Cost: $436,235,609

Estimated Completion Date: August 27, 2024

The BDM Programme is an initiative aimed at modernizing the benefits delivery system. It focuses on enhancing efficiency, accessibility, and overall service delivery in the domain of employment and social development.

1. **Network Modernization Stream 3**

Total Cost: $281,470,523

Estimated Completion Date: May 29, 2026

This project is dedicated to modernizing the network infrastructure. The initiative aims to strengthen security measures, and enhance overall network performance, ensuring a robust communication framework.

1. **RG-Treasury Renewal**

Total Cost: $265,866,494

Estimated Completion Date: March 31, 2030

The RG-Treasury Renewal project is focused on the renewal and enhancement of the Treasury system. This initiative involves upgrading financial and administrative processes to achieve improved government financial management. The extended timeline reflects the complexity and long-term nature of this renewal project.

## Chapter 2 – Exercise 2.2:

Go to some open-source projects and find out about their project charters. Find out why they have those project charters.

### Answer:

Looking at TensorFlow’s SIG Playbook, the charter serves as an important document, offering a roadmap for project contributors. It defines the project's purpose which is to provide an open-source machine learning framework for the development and deployment of artificial intelligence applications.

The charter also outlines leadership structure and operational guidelines, allowing for a shared understanding among the community. It plays an important role in giving the project an identity by providing a reference that ensures consistency in an open-source environment.

Furthermore, the charter helps establish decision-making processes in project development. It creates a structured framework, attracting individuals to contribute. This helps with the long-term sustainability of the project.

The SIG Playbook can be viewed here: <https://www.tensorflow.org/community/sig_playbook>

## Works Cited:

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