Date: October 26, 2015

To: Andrew Smith

From: Sukhbeer Singh Mangat

Introduction: In response to the assignment project that is a part of MAP524 Course, I would like to develop my android application on expenditure of Canadian government on various departments and agencies from 2011 to 2014. The name of application will be "Canadian Government Department Expenditures".

Summary: The application will be using four datasets of Government of Canada Spend Data by Department from the Canadian government Dataset website. Each dataset refers to a fiscal year. The spending's are divided into quarters and periods. There are over 55 departments and agencies that are group by and broken into several sub categories. All the datasets are available in both English and French language. So an option for French language can also be kept in the application if the user feels more comfortable to access data in French language. First time, when the user will open the App, there will be two options available one for English and one for French. And then after selecting either one of them, user will select a fiscal year. For the first time the app will download the data and save it. The data will be downloaded in a zip file which will be extracted to get the .csv file. Csv file will be parsed and data will be updated to a database. The downloading, unzipping and parsing will be done in background. There will be a number of departments available followed by subcategories which will be selected in order to get the expenditure for that department with following subcategories for a quarter of a fiscal year.

The necessity of a mobile app for this kind of project is because it's very handy to download and it provides accurate data that one will have to search over the internet for hours to gather. Also as the data will be very much organized users will have ease to access it.

Why a mobile app:

1. Ease of access to such a huge amount of data.
2. Easy to understand.
3. Well organized data.
4. Data will be up to date.
5. Minimal use of internet (only used once to download the files).
6. Android as the most commonly used operating system is preferable to give it success.
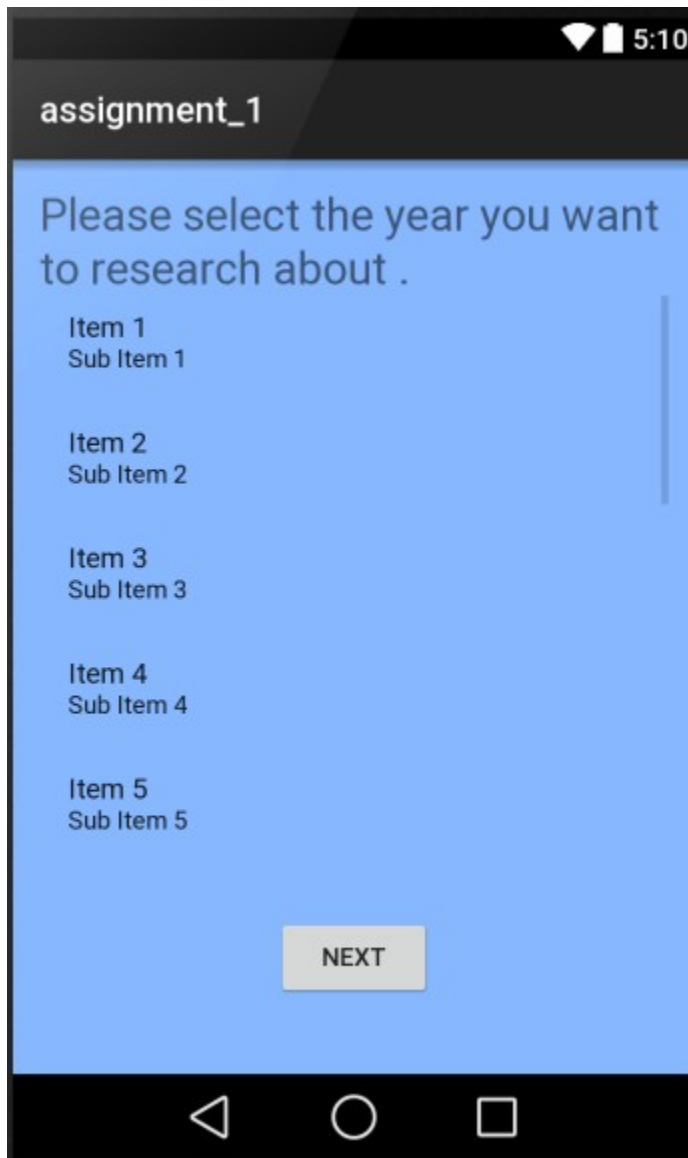
Features:

1. Years available for selection.
2. Departments are further divided into subcategories to make things easier.
3. Dataset will be downloaded, unzipped and information will be retrieved to a database.
4. Update the database with the update option.

5. User interface will be neat and simple to understand.

Expected users/Market: the application is particularly targeted on Canadian Governments expenses over a number of departments. Could be used to get data about how government is using taxpayer's money. But the most expected users will be:

1. Students for their projects.
2. Professionals who keep check on government's spending.
3. Taxpayers who might want to know where their money is being spent.
4. People who like to gather knowledge.

Screenshots:

assignment_1

Please select the department

Item 1
Sub Item 1

Item 2
Sub Item 2

Item 3

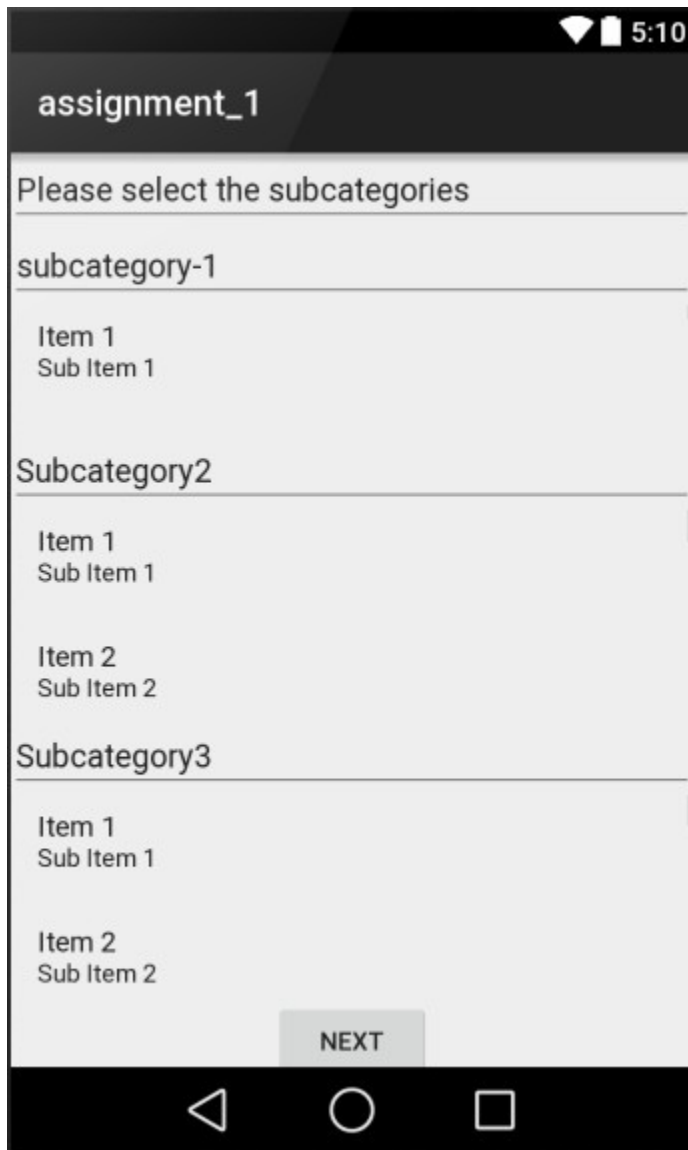Please select the category for expenses

Item 1
Sub Item 1

Item 2
Sub Item 2

Item 3
Sub Item 3

Item 4

NEXT

Timeline:

Date	To be Done	End Result
Nov 2,2015	Start coding for the application	Creation of project and project files.
Nov 15,2015	Implementation of all the necessary features of application	More than half of the application coding done.
Nov 30,2015	Finalising and uploading the application	Application will be published.