

DPS924 Assignment 1

In Human Terms

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1 Executive Summary

In Human Terms is an Android application that offers consumers offline dictionary references of terminology used in a variety of fields. This app aims to provide a valuable resource to supplement education or to aid practitioners within their respective fields. In Human Terms incorporates full search engine support as well as text-to-speech capabilities. Users have the option of installing from 22 available dictionaries that contain terminology referencing the Government of Canada's official linguistic data bank. Frequently used terms can also be favoured by users to deliver quick access to definitions.

2 Explanation for a Mobile Platform

A mobile platform is a good choice to host In Human Terms because it provides users with constant access to their installed dictionaries. Having this offline, mobile application at their disposal will allow users to search or verify terminology while on the job or on the go. The target demographic of In Human Terms is also a younger audience who tend to be increasingly reliant on their mobile devices as opposed to a traditional PC. Additionally, a mobile platform will provide an opportunity for better customer service as the Google Play store offers an easy-to-use medium for users to provide feedback and interact with developers.

3 Business Case

In Human Terms is a high value, mobile application that is worth investing in because there is currently no app on the Google Play store that offers support of multiple, field specific terminology dictionaries. While there are already existing apps that offer terminology in one specific field, In Human Terms would be a first-to-market application that provides 22 available dictionaries in various fields. Users will be attracted to the elegant user interface as well as accuracy of information provided by the application due to the terminology being extracted directly from the Government of Canada's linguistic data bank. The start-up costs of creating a database app like In Human Terms is also fairly low and sources of revenue such as potential integration of ad marketing within the app in later stages can quickly create a positive return on investment for early investors.

4 App Features

In Human Terms will contain the following app features:

- 1) Search terminology
- 2) Text to speech capabilities
- 3) Keep track of favourite terms
- 4) View recently searched terms
- 5) Can be used offline
- 6) Available dictionaries include:

<ul style="list-style-type: none"> - Administration - Agriculture - Names and Titles - Arts, Recreation and Sports - Law and Justice - Home Economics and Accommodation Science - Economy - Electricity - Electronics and Informatics - Mathematics, Physics and Natural Sciences - Mechanics and Heat 	<ul style="list-style-type: none"> - Medicine and Health - Metallurgy - Military and Security - Mines and Quarries - Petroleum - Humanities and Social Sciences - Environmental Sciences - Construction - Industries - Telecommunications and Postal Service - Transportation and Materials Handling
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5 Expected Market

The expected demographics for In Human Terms include high school students, university students, and also new/inexperienced members of the workforce. For example, a university student studying nursing may want to use this app's medicine and health dictionary as a supplemental resource to their education. New/inexperienced members of the workforce may be initially unfamiliar with the terminology being used in their field and an offline dictionary app based on the Government of Canada's linguistic data bank may prove to be a valuable, accurate tool.

6 Use Cases

6.1 Use Case Name: Manage Dictionaries

User uses this system to view, add, and remove dictionaries

6.1.1 **Author:** Carlos Mo

6.1.2 **Actor(s)**

- User

6.1.3 **Use Case Preconditions**

- User must be within the app.

6.1.4 **Use Case Successful Post Conditions**

- User manages dictionaries.

6.1.5 **Main Flow:**

	Actor(s): User	System
1		System displays a list of currently installed dictionaries.
2	The user selects an option and the appropriate use case is initiated: View: View Dictionary	

	Add: Add Dictionary Remove: Remove Dictionary	
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6.1.6 Alternate Flows

	Alternate Flow	Description
A3	Actor selects to exit manage dictionaries.	System returns to the home page.

6.2 Use Case Name: View Dictionary

User uses this system to view a dictionary.

6.2.1 **Author:** Carlos Mo

6.2.2 **Actor(s)**

- User

6.2.3 **Use Case Preconditions**

- User must be within the app.

6.2.4 **Use Case Successful Post Conditions**

- Terms from the selected dictionary are displayed.

6.2.5 **Main Flow:**

	Actor(s): User	System
1	User selects a dictionary.	System displays a list of terminology associated with the selected dictionary.

6.3 Use Case Name: Add Dictionary

User uses this system to add a dictionary.

6.3.1 **Author:** Carlos Mo

6.3.2 **Actor(s)**

- User

6.3.3 **Use Case Preconditions**

- User must be within the app.
- User must be on the manage dictionaries page.

6.3.4 **Use Case Successful Post Conditions**

- Dictionary is installed on the user's device.

6.3.5 **Main Flow:**

	Actor(s): User	System
1	Select the floating action button.	Display a list of available dictionaries that have not already been installed.

2	Select the checkboxes next to all the desired dictionaries.	
3	Select the add button.	Create and populate new table(s) in the database on the user's device. Redisplays updated list of currently installed dictionaries. Display acknowledgement message upon completion.

6.3.6 Alternate Flows

	Alternate Flow	Description
A1	All the available dictionaries have already been installed.	System displays a message notifying the user that there are no more available dictionaries.
A3	Unable to create and populate table(s)	System will provide an error message specifying the reason of failure.
A4	User selects to cancel.	No action is taken and system returns to the manage dictionaries page.

6.4 Use Case Name: Remove Dictionary

User uses this system to view, add, and remove dictionaries

6.4.1 **Author:** Carlos Mo

6.4.2 **Actor(s)**

- User

6.4.3 **Use Case Preconditions**

- User must be within the app.
- User must be on the manage dictionaries page.
- There must be existing installed dictionaries on the user's device.

6.4.4 **Use Case Successful Post Conditions**

- Dictionary is removed from the database on the user's device.

6.4.5 **Main Flow:**

	Actor(s): User	System
1	Select the remove button next to the unwanted dictionary.	Requests confirmation.
2	Confirm	Deletes table from database on user's device. Redisplays updated list of currently installed dictionaries. Displays an acknowledgement message upon completion.

6.4.6 Alternate Flows

	Alternate Flow	Description
A2	User does not confirm.	No action is taken and system returns to the manage dictionaries page.
A3	Error removing table from database.	System will provide an error message specifying the reason of failure.

6.5 Use Case Name: Search

User uses this system to search terminology within dictionaries.

6.5.1 **Author:** Carlos Mo

6.5.2 **Actor(s)**

- User

6.5.3 **Use Case Preconditions**

- User must be within the app.

6.5.4 **Use Case Successful Post Conditions**

- Search term along with definition is displayed.

6.5.5 **Main Flow:**

	Actor(s): User	System
1	Input search term.	
2	Select the search icon.	System searches for terms within the database that match the search parameter.
3		System saves the search parameter in a list of recent searches in the database.
4		System displays search term along with its associated definition, synonyms, abbreviation, field and subject.

6.5.6 **Alternate Flows**

	Alternate Flow	Description
A2	Search term does not result in any matches.	System displays a message notifying the user that the search parameter did not exist in the database.

6.6 Use Case Name: View Recent Searches

User uses this system to view recently searched terms.

6.6.1 **Author:** Carlos Mo

6.6.2 **Actor(s)**

- User

6.6.3 Use Case Preconditions

- User must be within the app.
- User must be on the recent searches page.

6.6.4 Use Case Successful Post Conditions

- A list of recently searched terms is displayed.

6.6.5 Main Flow:

	Actor(s): User	System
1		System displays a list of the user's recently searched terms.

6.6.6 Alternate Flows

	Alternate Flow	Description
A1	There are no recently searched terms.	System displays a message notifying the user that no recently searched terms exist.

6.7 Use Case Name: Add Favourite

User uses this system to add a favourite term.

6.7.1 Author: Carlos Mo

6.7.2 Actor(s)

- User

6.7.3 Use Case Preconditions

- User must be within the app.
- User must be on a term detail view page.
- The term cannot already be in the user's list of favourites.

6.7.4 Use Case Successful Post Conditions

- Term is added to user's list of favourites.

6.7.5 Main Flow:

	Actor(s): User	System
1	Select the empty star icon next to the desired term.	System adds the selected term to the user's list of favourites. System replaces empty star icon with a filled star icon.

6.8 Use Case Name: Remove Favourite

User uses this system to remove a previously favourited term.

6.8.1 Author: Carlos Mo

6.8.2 Actor(s)

- User

6.8.3 Use Case Preconditions

- User must be within the app.
- User must be on a term detail view page or favourites page.
- The term must already be in the user's list of favourited terms.

6.8.4 Use Case Successful Post Conditions

- Term is removed to user's list of favourites.

6.8.5 Main Flow:

	Actor(s): User	System
1	Select the filled star icon next to the unwanted term.	System removes the selected term to the user's list of favourites. System replaces filled star icon with an empty star icon.

6.9 Use Case Name: View Favourites

User uses this system to view their favourited terms.

6.9.1 Author: Carlos Mo

6.9.2 Actor(s)

- User

6.9.3 Use Case Preconditions

- User must be within the app.
- User must be on the favourites page.

6.9.4 Use Case Successful Post Conditions

- A list of favourited terms is displayed.

6.9.5 Main Flow:

	Actor(s): User	System
1		System displays a list of the user's favourited terms.

6.9.6 Alternate Flows

	Alternate Flow	Description
A1	There are no favourited terms.	System displays a message notifying the user that no favourited terms exist.

6.10 Use Case Name: View Term

User uses this system to view their detailed information about a term.

6.10.1 Author: Carlos Mo

6.10.2 Actor(s)

- User

6.10.3 Use Case Preconditions

- User must be within the app.
- User must have selected a specific term.

6.10.4 Use Case Successful Post Conditions

- Detailed information about the selected term is displayed.

6.10.5 Main Flow:

	Actor(s): User	System
1		System displays search term along with its associated definition, synonyms, abbreviation, field and subject.

6.11 Use Case Name: Text to Speech

User uses this system to hear a vocal pronunciation of a specific term.

6.11.1 Author: Carlos Mo

6.11.2 Actor(s)

- User

6.11.3 Use Case Preconditions

- User must be within the app.
- User must be on a term detail view page.

6.11.4 Use Case Successful Post Conditions

- A vocal pronunciation of the specific term is audible.

6.11.5 Main Flow:

	Actor(s): User	System
1	User selects the speaker icon next to the desired term.	System plays a vocal pronunciation of the selected term from the device's equipped audio output system.

7 Mock-ups

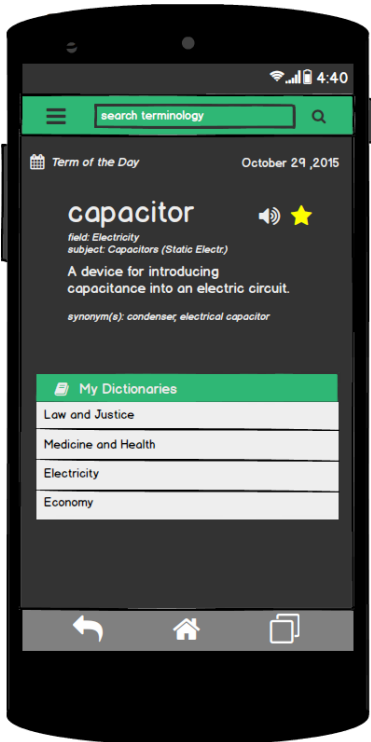


Figure 1. Home.

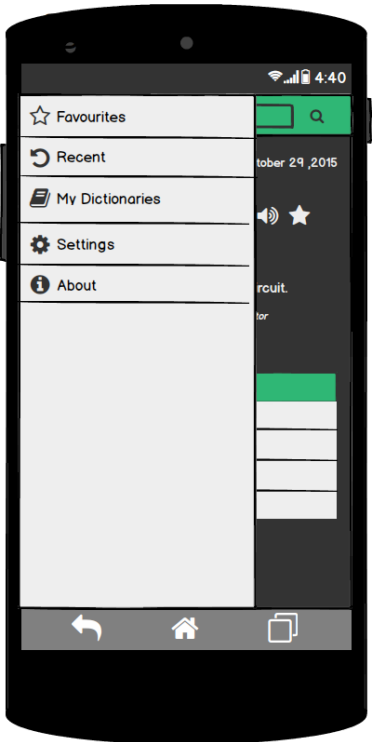


Figure 2. Menu.

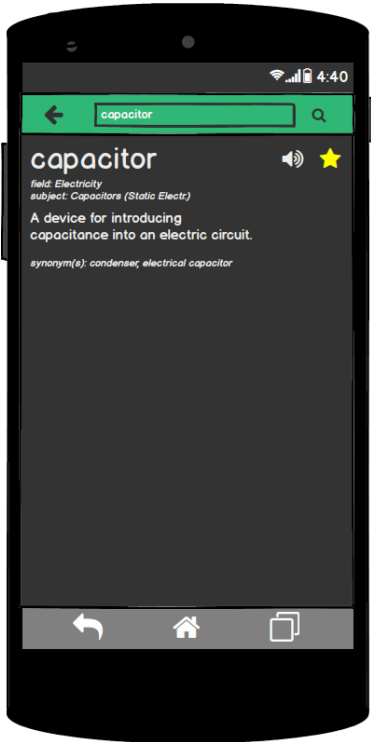


Figure 3. Search

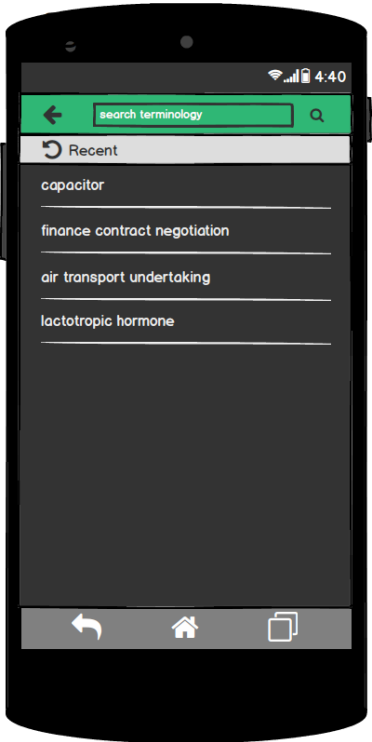


Figure 4. Recent Search.

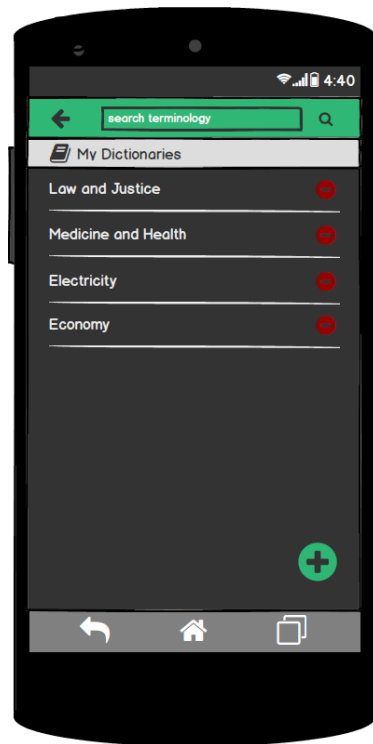


Figure 5. Manage Dictionaries.

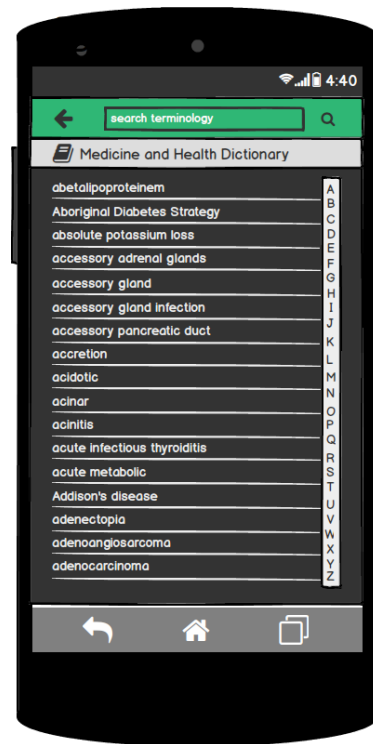


Figure 6. View Dictionary.

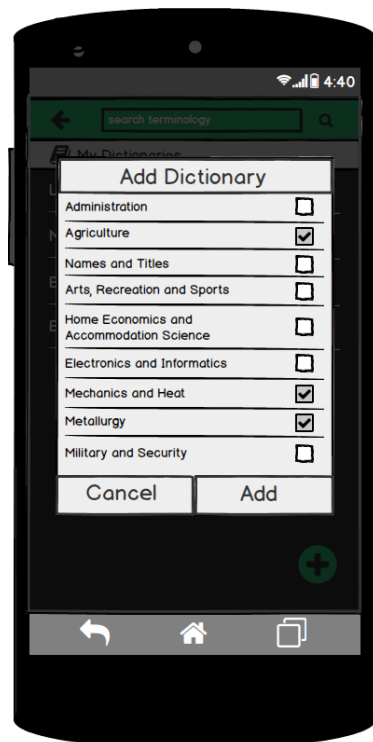


Figure 7. Add Dictionary.

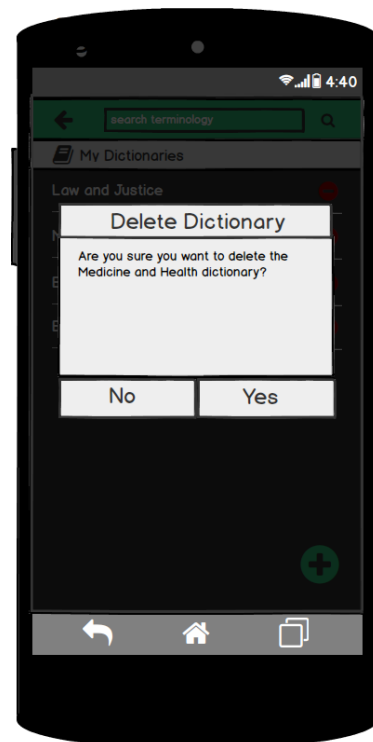


Figure 8. Delete Dictionary.

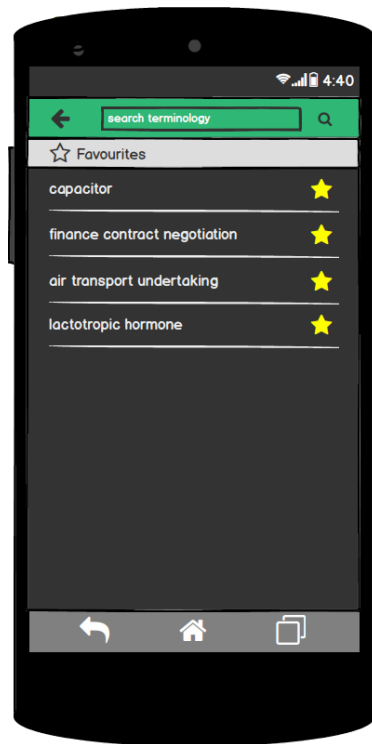


Figure 9. Favourites.

8 Timeline for Implementation

