

CitationSearch Proposal – Dataset Provided by Government of Canada

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Executive Summary

CitationSearch is an Android app designed to take datasets provided by the Government of Canada and allow users to search, view and launch into any article cited in an Environment Canada scientific or technical journal.

Why an app is a good choice

Reading articles with citations has been a part of scientific journals for centuries. In this day and age, with phones and tablets at our side, it is a waste not to use them to enhance our experiences. Creating a companion app to Canadian scientific journals that can be used to see any citations used in a specific scientific article. The app will provide links that can be accessed by any android device and will take them to any article that has an online URL. Building it the form of an app also makes it easy to incorporate datasets from future years.

Features

- AutoComplete search functions for the Analytic Title of the Article, Collective Title, Subordinate Title, Authors, Editors, Publisher, City, Document Type.
- A details page listing all relevant information of the article in focus.
- Links (if applicable) to the Publisher Website, Article URL, or Author Webpage will be available in the detail page.
- Load a database of Journals provided by the Government of Canada in JSON format.

Expected users & target market

- Anyone reading scientific & technical journals published by Environment Canada researchers.
- Students or other researchers interested in finding articles that pertain to their topics.

Common Use-Cases

Search

Identifier: UC01

Brief Description: Users will be able to search the entire list of articles using a variety of AutoComplete search fields.

Section 1: All Scenarios:

Preconditions: User has started the app and navigated to the search activity

User	System	Data Used
User inputs at least 2 characters to any of the text fields	Drop down list of matching values is displayed	Citation, analytic_title, collective_title, subordinate_title, author, editor, publisher, city, document_type
User chooses a term from the drop-down list.	Start Intent that takes user to the CitationDetailActivity with the corresponding citation_id.	citation_id

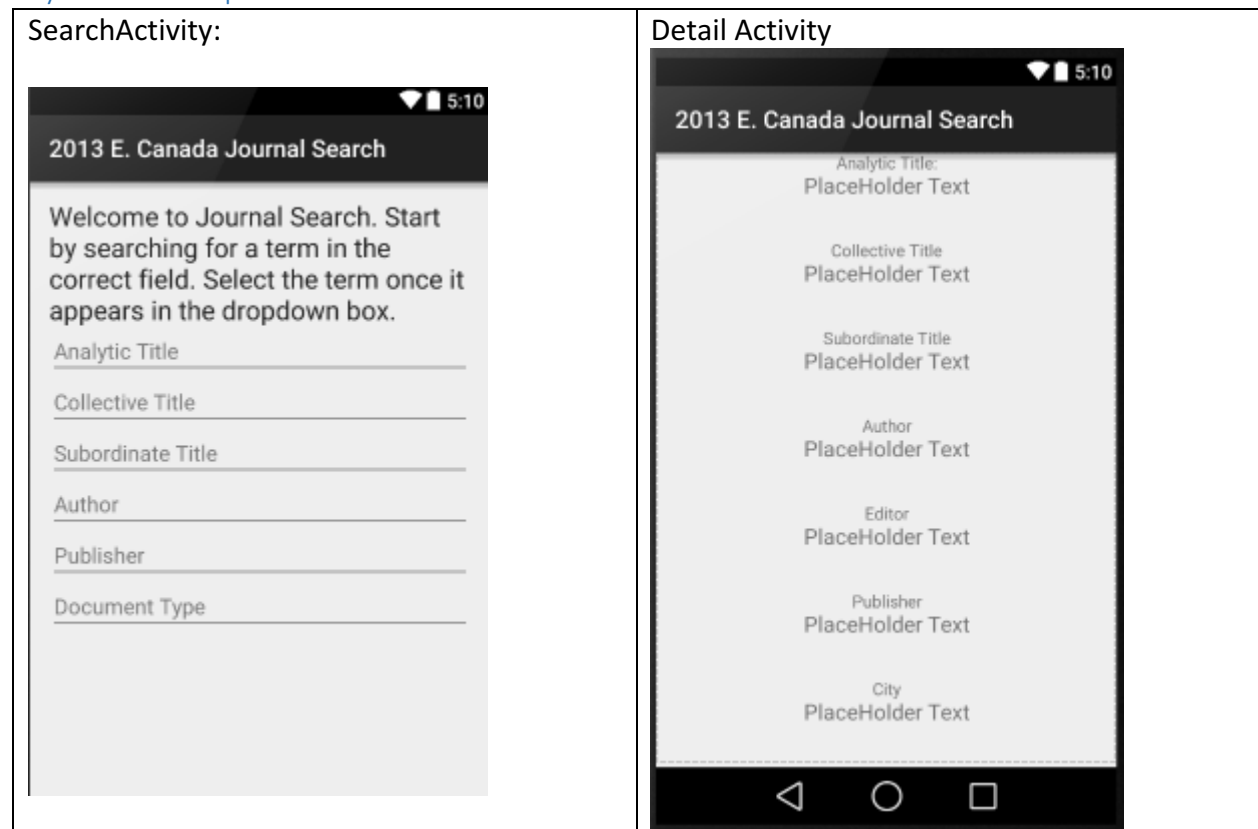
Section 2: Classes/Attributes Identified:

Class	Attributes
Citation	Citation, citation_id , analytic_title, collective_title, subordinate_title, author, editor, publisher, city, document_type

Section 3: Exceptions Identified:

Exception	How it will be handled
Search term doesn't match	An AlertDialog will display informing the user that no match for their search criteria was found.

Layout Mock-Ups



Timeline

Week 1:

Tuesday the 4th: layout xmls complete & loading JSON into a Java class implemented

Saturday the 8th: Detail page successfully loads & displays all fields of a Citation class.

Week 2:

Monday the 10th: All appropriate terms load from the AutoComplete Textfields and start an intent properly loading the detail page

Friday the 14th: Final testing for validity and add color and styling to the app.

Sunday the 16th: Submit for final grading.