CCT College Dublin

Assessment Cover Page

Module Title:	Mobile Development
Assessment Title:	App Building with MIT App Inventor
Lecturer Name:	Ru Hickson
Student Full Name:	Stephen McGinley
Student Number:	sba22337
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Declaration

By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

To fulfil the requirements for this assignment, I created a basic app with a home page linking to three separate screens for a daily planner, a shopping list and a search function which displays a movie poster.

The home page has a simple layout with buttons linking to the other screens and image icons suitable to each part of the functionality.

The weekly planner saves the details for each day in a linked TinyDB. Individual days can be loaded to display on screen as needed by using a button after selecting the relevant day. Individual items are added by a button and text field. An additional button clears the entries for the whole week.

The shopping list works in a similar way, with individual items being added to the shopping list with a text box/button. Tapping on the items displayed on screen will remove them from the tinyDB used to store them and refresh the list. A clear items button and home button are placed at the bottom of the screen.

The screen for searching for a movie poster initially contains a text box for searching, along with a search button and a home button. When the search button is hit, an api call is placed to the IMDB API (https://imdb-api.com/). The result in the returned JSON is parsed to provide a link to a movie poster, which is then used to populate an image component on the screen. A button is also made visible to open the poster url in the phone browser.

An effort has been made to have a standard colour scheme and style with the same font, buttons etc used throughout. Audio is provided via a clicking effect when buttons are pressed. When items are removed from the shopping list by tapping, the app should vibrate briefly also.

The main challenges faced when developing were using the code blocks to parse the JSON and formatting the API call correctly. The response from the request is also quite slow, which leaves a long wait between search and display.

As well as this, there is no way to change the first screen that appears in AppInventor without starting from scratch, so the app loads into the shopping list as that was the element I created initially.