Digital Cookbook App Which Takes Highest Rated Recipes of Different Websites And Creates a Cookbook Out of Searched Recipes

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**Abstract**

The goal of this project is to create a digital cookbook app. People can use to look up and access food recipes on handheld android devices. The recipes will be determined based on user search interface which searches the web for relevant recipes across multiple websites and brings up the average highest rated recipe. Users can then access this recipe and in turn use it to create food using their phone in place of an actual cookbook.

**Business Profile**

Ideal users of this app will be people who tend to use written or typed recipes in the cooking of their food looking for an easier way to access recipes. The use of this app will ideally help users remove the need for the use of cookbooks or other recipes and streamline the action of searching for new recipes.

**Descriptive Scenario**

Currently the project is only in the idea stage. Not being familiar with Android programming will definitely hinder my progress early on but as I get more familiar with the programming the progress should be more or less consistent. Additionally, I will need to research web scraping techniques and research storage in android apps to be able to save searched recipes into the app itself. Other issues may involve user-base problems, such as if a user only wants recipes not containing certain ingredients/ cost issues.

**Normative Scenario**

The overall outcome of the project should be an android app that successfully allows users to access the highest rated recipes based on web scraping for immediate mobile access in an easy to use and visually appealing way. Ideally being able to store these recipes into a database into the app for offline use would be useful. Additionally, being able to allow the users to create profiles for different user cookbooks would be an optional goal.

**Motivation**

The motivation for this project stems from my love for food and my childhood growing up. For people who love to cook, having recipes for different foods is very useful, but most of the time the recipes are contained in less than ideal formats, such as printed recipe sheets, small recipe cards, or large space-wasting recipe books. Having access to high rated recipes on a smart phone creates recipe access without the compromises of taking up a huge amount of counter space or easily lost recipe sheets, as most people these days have access to smartphones.

**Plan of Attack**

* Research/become familiar with Android programming basics. Learning supplemented by concurrently taking Android programming CNU course.
* Research/become familiar with Web Scraping techniques
* Create framework for Android application
* Create framework for user interface
* Utilize web scraping in conjunction with android programming to be able to search web and gather specific results
* Develop way to store searched recipe result into app data for user use offline
* Clean up and refine user interface
* Finalize production