# 5COSC023W - Tutorial 8 Exercises

## The Cocktails App - Another Web Services Example

Develop an Android application which the user interacts with to find and prepare coctails. The application will using Kotlin and the `HttpURLConnection` based on what we covered in the lecture. Make sure that you include the dependencies and the plugins in the `build.gradle` after you create the Android Studio project and follow the rest of the steps described in the lecture.

The application will be using the `https://www.thecocktaildb.com/api.php` Web service.

1. Implement the application so that the user can search for the names of all coctails containing an ingredient, e.g. Vodka, by using the following url: `https://www.thecocktaildb.com/api/json/v1/1/filter.php?i=Vodka` The user should be see all the names of the coctails containg vodka.

2. Extend the application so that the user can enter the name of a coctail and receive the instructions for the preparation of the coctail. This should be done by displaying the content of the field strInstructions after a request to the `https://www.thecocktaildb.com/api/json/v1/1/search.php?s=margarita` url.

3. Extend the application so that the it displays a picture for the coctail (hint: this is the url corresponding to the strDrinkThumb key of the JSON response in the last subquestion).

4. Extend your application so that user presses a button and he/she is presented with the full details of a random coctail (including the name, the recipe and its picture). Hint: you need to study the API of the website to make the relevant requests.