**ACS560 Project Requirements**

**Definitions, Acronyms, and Abbreviations**

iOS – Apple’s mobile operating system that their iPhone’s run on.

Mobile Application – an application that runs on a mobile system, such as an iPhone, Tablet, or Android Phone.

Apple Application Store – The online store where developers submit mobile applications and where users download them.

Apple’s Application Requirements – The requirements set forth by apple for an application to be accepted into the Apple Application Store. These may be found here: <https://developer.apple.com/appstore/resources/approval/guidelines.html>

**Overall Description**

We are going to create a mobile application that shows you what you can eat at a particular restaurant that will keep you under a certain nutritional boundary. For example, you may use the app to find out what you can eat at McDonalds that is under 500 calories.

**User Characteristics**

Users of the system will be comfortable using mobile applications, be able to read English language text, be familiar with basic nutrition, such as calories, and be at least partially familiar with popular American restaurants.

**Constraints**

* The application must pass Apple’s application requirements to get on the Apple Application store.
* Client/Server architecture
* Client (mobile application) will run on iOS and be written in Objective-C
* Server will run on Linux and be written as a Java Servlet
* Server connects to database of restaurant menus with nutritional information
* Database will have nutritional information for at least 5 restaurants.
* Database will have nutritional information on at least 20 menu items for each restaurant.

**Functional Requirements**

***Mobile Application***

* **R1:** Users will be able to select a restaurant from at least 5 restaurants.
* **R2:** Users will be able to input a number of calories, grams of fat, grams of cholesterol, and grams of sodium.
* **R3:** Application will gather nutritional information from server each time a user makes a query.
* **R4:** Users will be able to view all available options that keep them under their nutritional restrictions from the restaurant they chose.
* **R5:** Users will be able to sort options by any of the nutritional informants, e.g. sort by fat content.