**Grocery API Document**

**1.Introduction**

The purpose of this document is to outline design for grocery Search. This will include a view of high-level architecture. UML diagrams and sequence diagrams will be provided to show the system will be put together and how data flow through the system. There will be discussion on technologies that will be using throughout this project.

**2. API Overview**

**2.1 High Level Description**

Grocery API will be providing all grocery items sort by name and it’s their max price on which date. It will provide csv file for each item, how their price trended and will give data based on item name.

**2.2 Technology Stack**

Java 8

Spring Boot

Embedded Apache Tomcat

Apache POI

Open CSV

Swagger

Spring Actuator

**3. System Architecture**

Grocery Application

In Memory Data

**4. Rest End Points:**

<http://localhost:8080/grocery/getAllGroceries>

[**http://localhost:8080/grocery/getGroceriesByName?itemName=Chaina**](http://localhost:8080/grocery/getGroceriesByName?itemName=Chaina)

[**http://localhost:8080/grocery/downloadGroceriesCSVReport**](http://localhost:8080/grocery/downloadGroceriesCSVReport)

[**http://localhost:8080/grocery/getGroceriesByLimit?offSet=0&limit=10000**](http://localhost:8080/grocery/getGroceriesByLimit?offSet=0&limit=10000)

**Swagger URL:**

[**http://localhost:8080/grocery/swagger-ui/index.html#/**](http://localhost:8080/grocery/swagger-ui/index.html#/)

**Actuator URL:**

[**http://localhost:8080/grocery/actuator/health**](http://localhost:8080/grocery/actuator/health)

**5. Sequence diagram**

**5.1 Get All Grocery Items:**

**In Memory Data**

**Controller**

Web browser

**Service**

Get Request

getGroceryItems

Data

Request Data

Response

**5.2 Get Grocery Item by Name:**

**In memory Data**

**Service**

**Controller**

Response

Get request

Data

Resource not Found Exception

getItemByName

Request for Data