CS551 Advanced Software Engineering

Challenge #2

**Estore –Grocery store Application**

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**Summary:**

Estore is a native mobile application designed for shopping online. Using these application user can find the nearest stores and also can shop from home with single click from this application. For using this application the user need to register for the first time. After the user gets registered the user can access all the features.

The Estore application we have developed is the extension of the challenge1. In challenge1 we have just used the one API for the items to display in grocery store. Now we are going one step forward and doing the Registration using our own services. Our own services which we have used are the REST services.

**Design:**

Estore is a mobile application for shopping grocery items from the home. Using this application the payment can pay from the application and the items which are shopped can be delivered to our home. Can also track which items we have searched, which items we ordered, etc….

1. **Architecture Diagram:**

The architecture diagram describes about the architecture of the Estore application. In this architecture we are using the Rest Services and some of the other API services.

The following diagram explains the architecture diagram of the Estore application:

 Fig1: Architecture Diagram

1. **Class Diagram:**

The architecture diagram describes about the classes and the behavior of how the Estore application is working.

The following diagram explains the class diagram of the Estore Application.



Fig2: Class Diagram

**Features Implemented:**

The features we have used for developing Estore application is :

REST services, Database, Other API services,

The features we have implemented in this application are:

* Online Grocery shopping
* Finding the market places
* Text to speech conversion
* User Registration using the REST services

**Web Services:**

* **Own Web Services:**

[**http://kc-sce-cs551.kc.umkc.edu/aspnet\_client/Group4/Hackathon2/UserDetailsImpl.svc/register**](http://kc-sce-cs551.kc.umkc.edu/aspnet_client/Group4/Hackathon2/UserDetailsImpl.svc/register)

[**http://kc-sce-cs551.kc.umkc.edu/aspnet\_client/Group4/Hackathon2/UserDetailsImpl.svc/validate/%7Busername%7D/%7Bpassword%7D**](http://kc-sce-cs551.kc.umkc.edu/aspnet_client/Group4/Hackathon2/UserDetailsImpl.svc/validate/%7Busername%7D/%7Bpassword%7D)

[**http://kc-sce-cs551.kc.umkc.edu/aspnet\_client/Group4/Hackathon2/UserDetailsImpl.svc/validate/{username}/{password}**](http://www.facebook.com/l.php?u=http%3A%2F%2Fkc-sce-cs551.kc.umkc.edu%2Faspnet_client%2FGroup4%2FHackathon2%2FUserDetailsImpl.svc%2Fvalidate%2F%257Busername%257D%2F%257Bpassword%257D&h=8AQF1bBL5)

* **Existing Services/API’s**

Google places API

<https://maps.googleapis.com/maps/api/place/textsearch/xml?query=restaurants+in+Sydney&key=AddYourOwnKeyHere>

Key : AIzaSyBPwwCIYG94ejZB0i\_mJrjU3r\_MHNWLRhs

Super market API

[http://www.supermarketapi.com/api.asmx/COMMERCIAL\_SearchByProductName?APIKEY=a785cac0f3&&ItemName={itemname}](http://www.supermarketapi.com/api.asmx/COMMERCIAL_SearchByProductName?APIKEY=a785cac0f3&&ItemName=%7bitemname%7d)

**Databases:**

* **MS SQL 2008**

**GUI:**

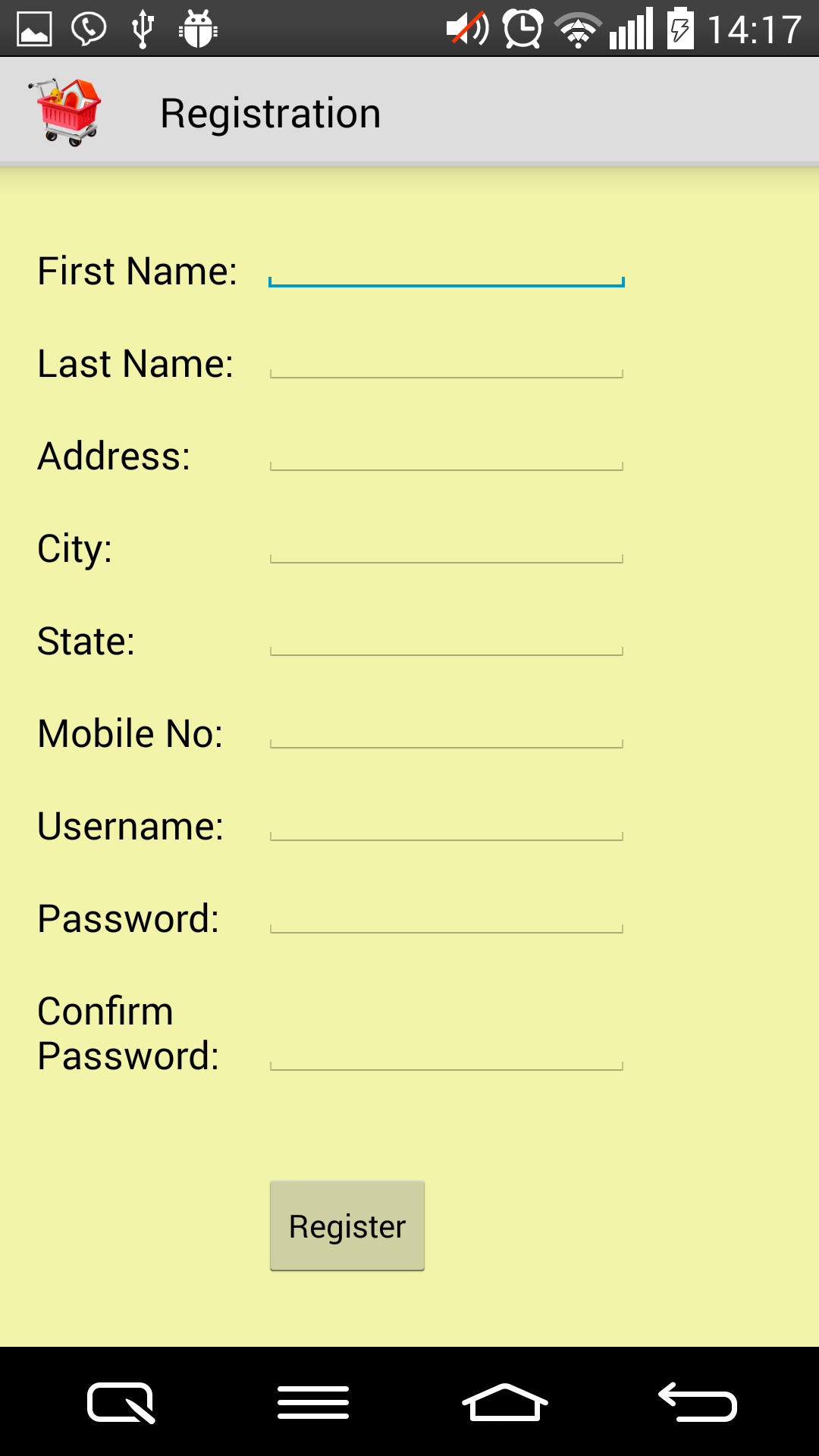
* **Visual Studio Framework**
* **Eclipse**
* **Android**

**Languages:**

* **Java**
* **C#**
* **XML , JSON**

**Implementation:**

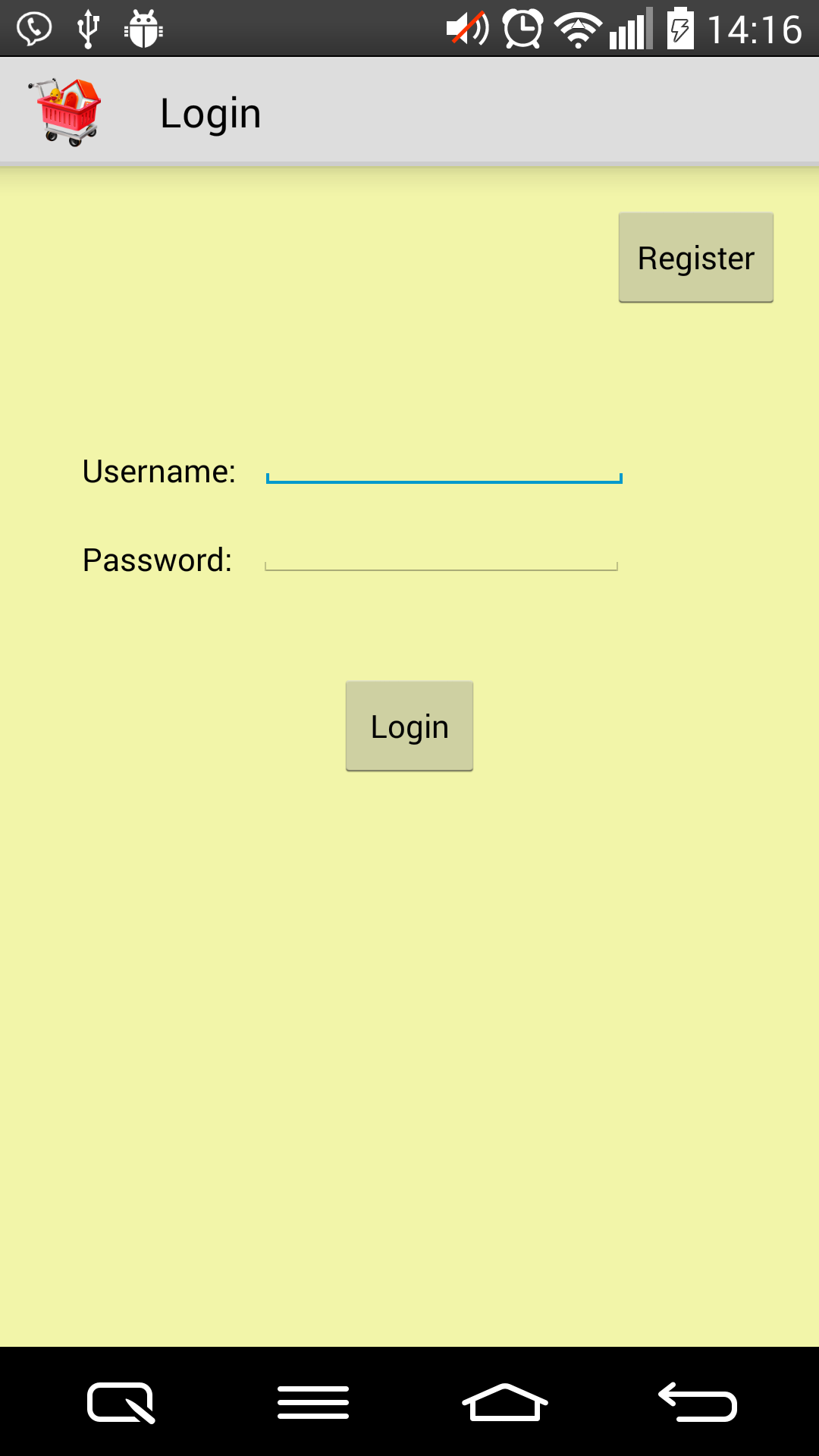
Estore is the native mobile application developed for shopping online.



The above screen shows the Registration page.

For the first time the user needs to get registered it asks his credentials while registering. From the next time he gets logged in by those credentials. The Registration is done using the REST service.

The below screen shot shows the Login Page screen:

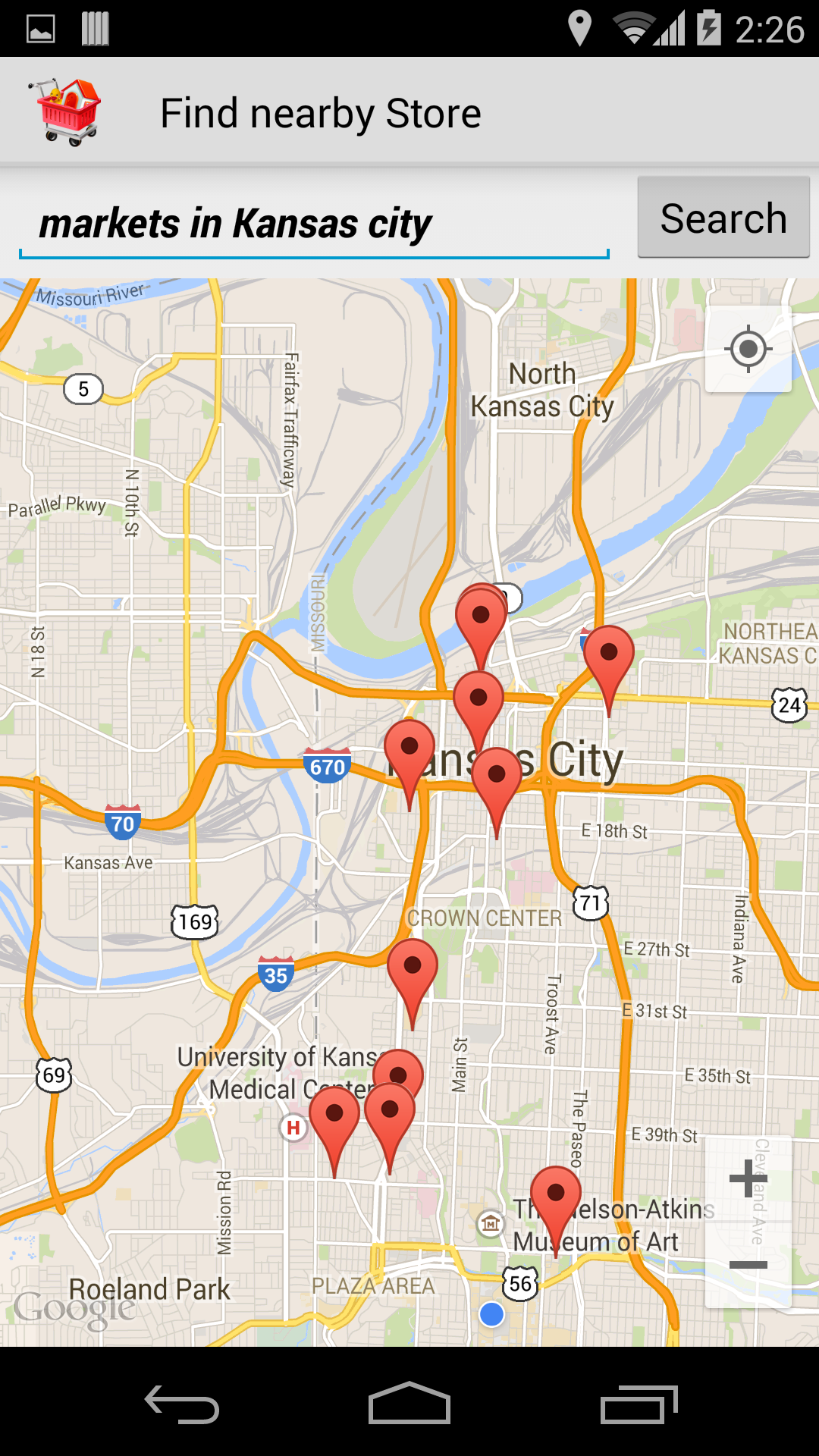


After the user gets logged in the user gets the Google maps to find the Stores or markets in the particular city. Then the user searches and it displays all the markets or places in the city. On clicking the places of the city it gets to shop online in the store.

The following screen shot shows search bar to search for the places:

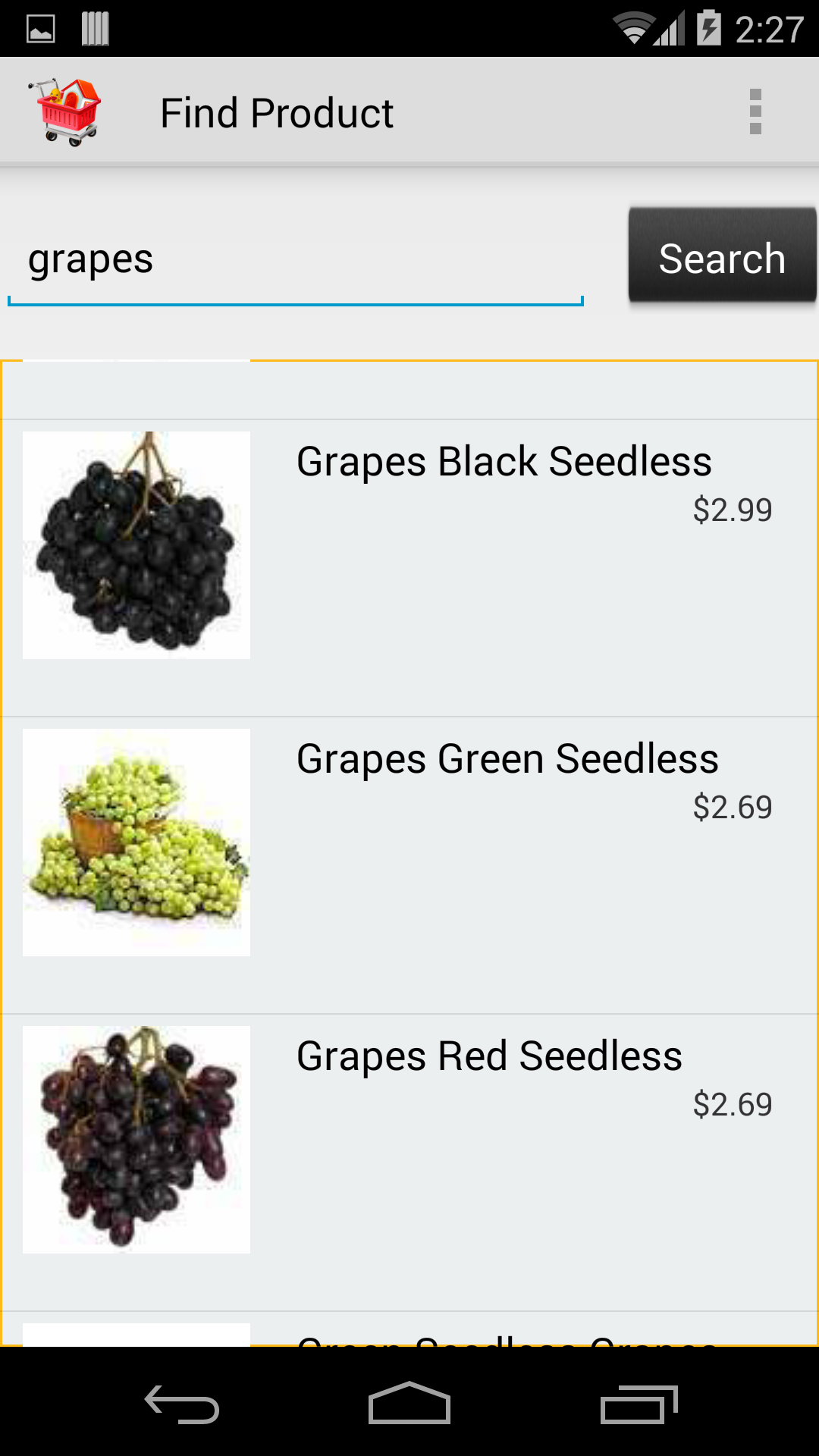


The following screen shot shows the results searched in search bar:



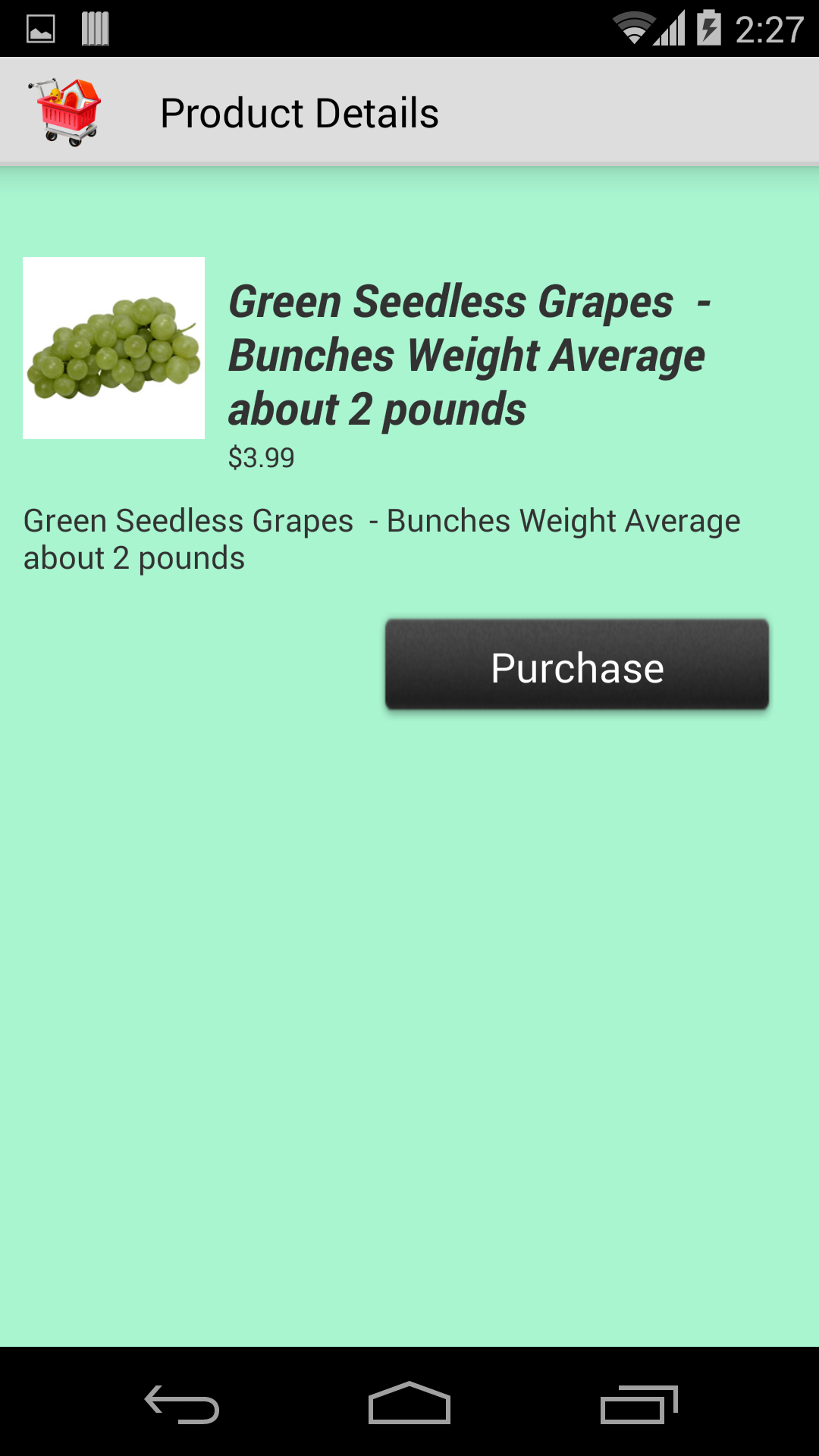
On clicking the place it redirects to shop online.

The following screen shows the online shopping screen:



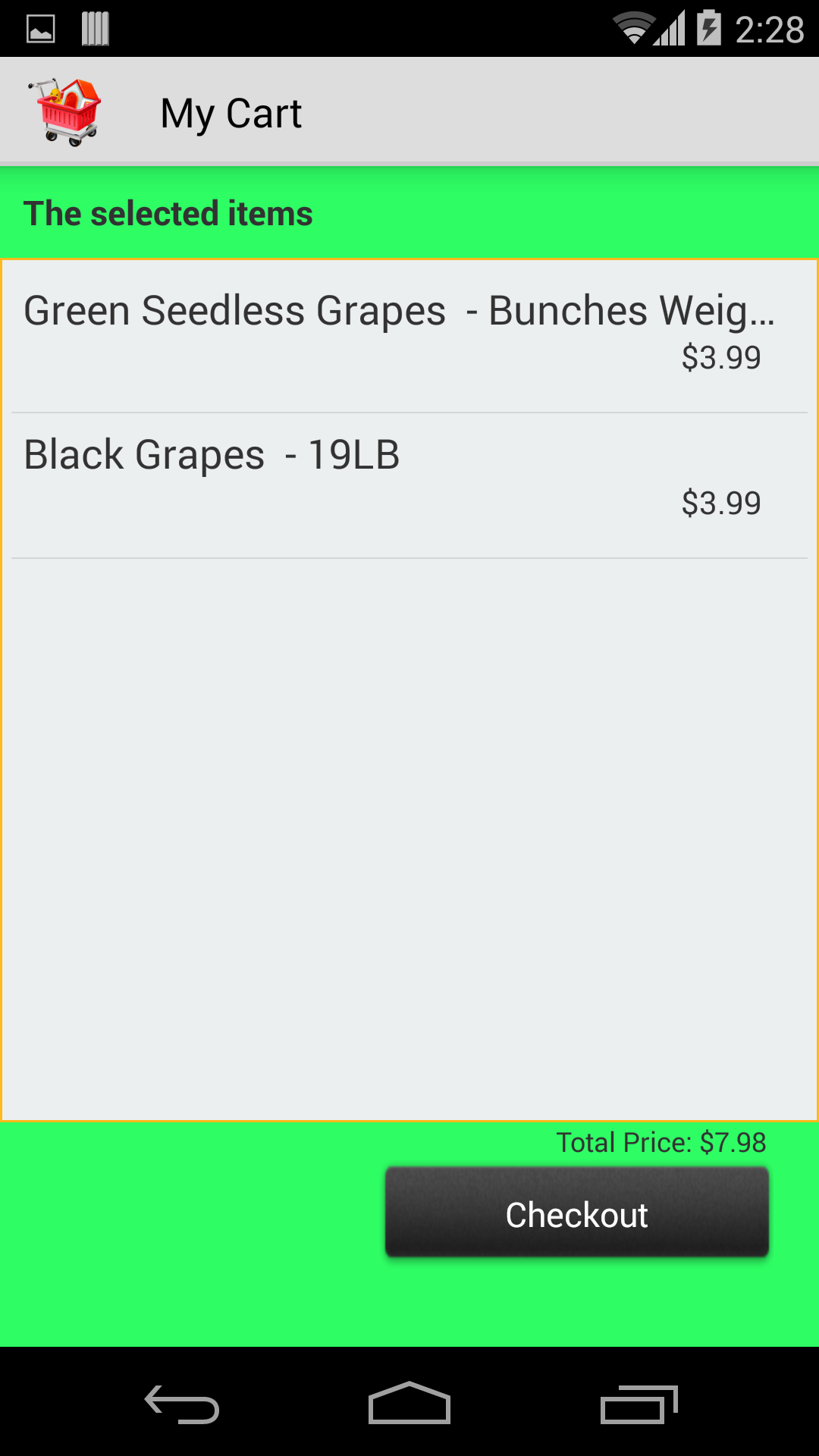
On clicking the particular product it shows the details of the product.

The below screen shows the description of the product:



Can also see the products which are added to the cart:

The below screen shows the products which are added to cart:



**Websites and Webservices URL:**

[**https://maps.googleapis.com/maps/api/place/nearbysearch/json?location=-33.8670522,151.1957362&radius=500&types=food&name=cruise&key=AddYourOwnKeyHere**](https://maps.googleapis.com/maps/api/place/nearbysearch/json?location=-33.8670522,151.1957362&radius=500&types=food&name=cruise&key=AddYourOwnKeyHere)

[**https://maps.googleapis.com/maps/api/place/textsearch/xml?query=restaurants+in+Sydney&key=AddYourOwnKeyHere**](https://maps.googleapis.com/maps/api/place/textsearch/xml?query=restaurants+in+Sydney&key=AddYourOwnKeyHere)

[**http://kc-sce-cs551.kc.umkc.edu/aspnet\_client/Group4/Hackathon2/UserDetailsImpl.svc/register**](http://kc-sce-cs551.kc.umkc.edu/aspnet_client/Group4/Hackathon2/UserDetailsImpl.svc/register)

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[**http://kc-sce-cs551.kc.umkc.edu/aspnet\_client/Group4/Hackathon2/UserDetailsImpl.svc/validate/{username}/{password}**](http://www.facebook.com/l.php?u=http%3A%2F%2Fkc-sce-cs551.kc.umkc.edu%2Faspnet_client%2FGroup4%2FHackathon2%2FUserDetailsImpl.svc%2Fvalidate%2F%257Busername%257D%2F%257Bpassword%257D&h=8AQF1bBL5)

**Github URL:**

[**https://github.com/BP8G6/ASE---Challenge-2**](https://github.com/BP8G6/ASE---Challenge-2)

**Limitations:**

* Security
* Payment Info
* Tracking the Delivery

**References:**

* [**http://www.android.com/**](http://www.android.com/)
* [**http://www.androidhive.info/**](http://www.androidhive.info/)
* [**http://www.developer.android.com/**](http://www.developer.android.com/)
* [**https://developers.google.com/places/documentation/**](https://developers.google.com/places/documentation/)