GIVE AWAY

THIRD INCREMENT REPORT

Submitted by:

Sashidhar Reddy Gowra	**12428313**
Venkataramana Yashwant Kumar Palisetty	**16202251**
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Objective:

The prime objective of this iteration is to create the web services to populate the data UI screens for the modules like Registration Module, Login Module, Item Addition Module, Item Updating Module, Item Deletion Module, Item Selection Module and Subscription Modules.

Import Existing API or Services:

Google Maps API:

We have planned to use Google maps API for locating the location of user who wish to grab items from donor. This service is yet to be used in the mobile version as we are currently working on the desktop version of the application.

https://developers.google.com/maps/documentation/business/

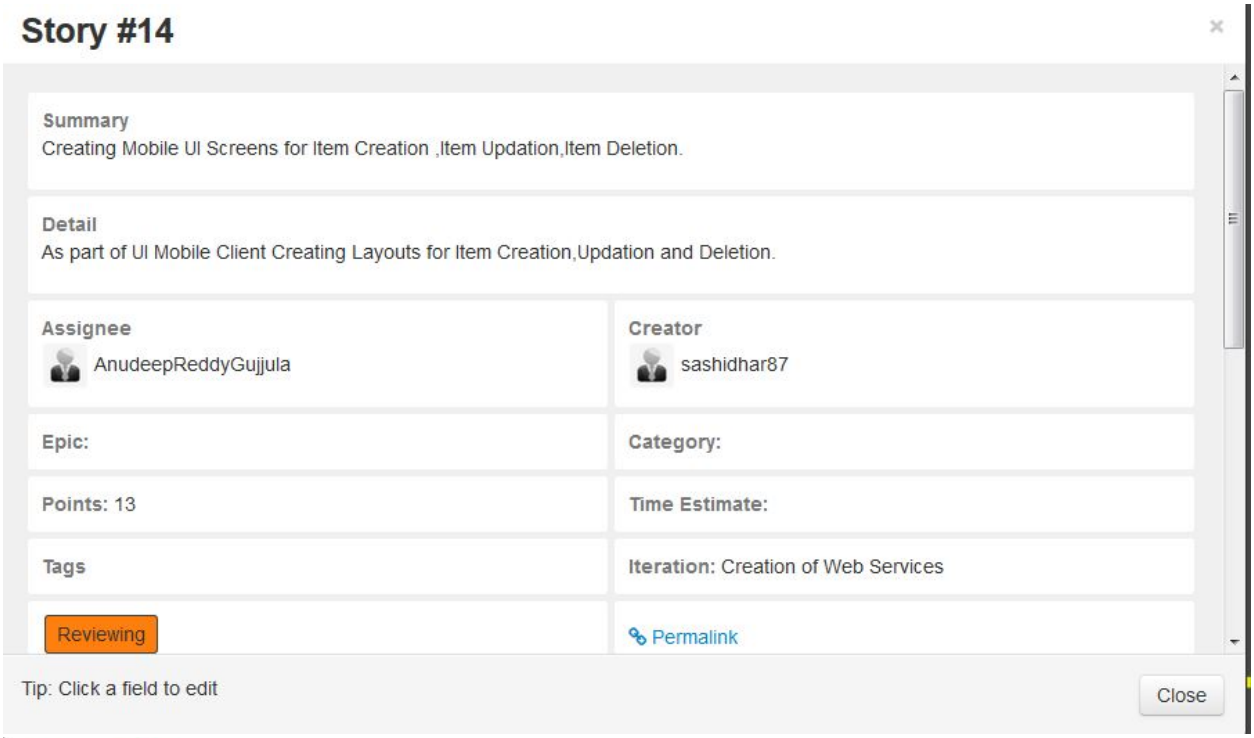
Amazon Product Search API:

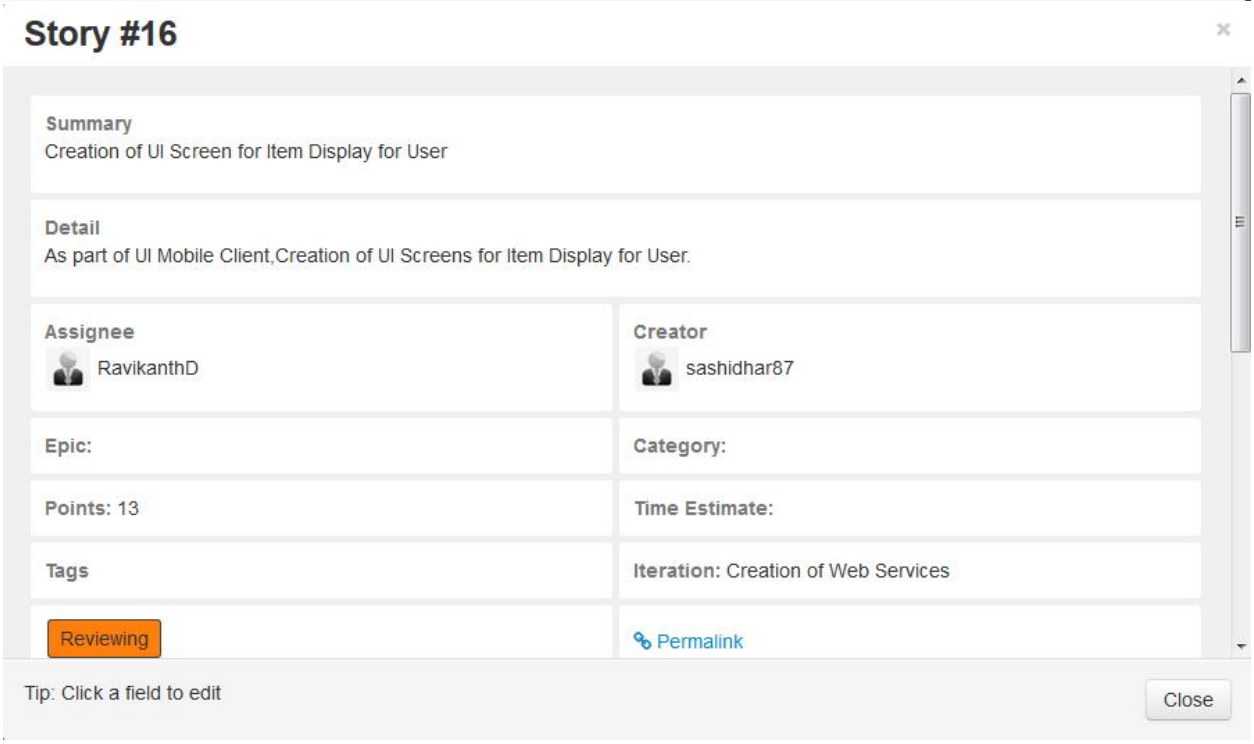
We are planning to use amazon item search API for searching for items whenever a student wants to look for items and want to search for it using the application.

http://docs.aws.amazon.com/AWSECommerceService/latest/DG/ItemSearch.html

Detail Design of Services:

- **User stories using ScrumDo:**
  The following are the user stories we have created in the ScrumDo:





Story #12

Summary
Creation of User Login,User Registration,Item Addition,Item Updation,Item Retrieval Services.

Detail
As a part of Web service creation I have developed following services Creation of User Login,User Registration,Item Addition,Item Updation,Item Retrieval Services and populated the corresponding Mobile Interface Pages with the obtained results.

Assignee sashidhar87	**Creator** sashidhar87
Epic:	**Category:**
Points: 20	**Time Estimate:** 40 hours
Tags	**Iteration:** Creation of Web Services

Tip: Click a field to edit

Close

Story #15

Summary
Creation of User Registrtion and Login Screens and Corresponding Validations

Detail
As part of Mobile Client Creating screens for User Registrtion and Login Screens and Corresponding Validations.

Assignee Venkatarama Yashwant Kumar Palisetty	**Creator** sashidhar87
Epic:	**Category:**
Points: 20	**Time Estimate:**
Tags	**Iteration:** Creation of Web Services
Done	Permalink

Tip: Click a field to edit

Close

- **Service Description:**

I. User Login Service:

In this service, we are implementing User Login as a service, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

II. User Registration Service:

We are implementing the User Registration Service with the fields like First Name, Last Name, User Name, Password, Email ID, Mobile Number, Date of Birth, Address and Zip Code, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

III. Item Addition Service:

This service is used to add an item into the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

IV. Item Updating Service:

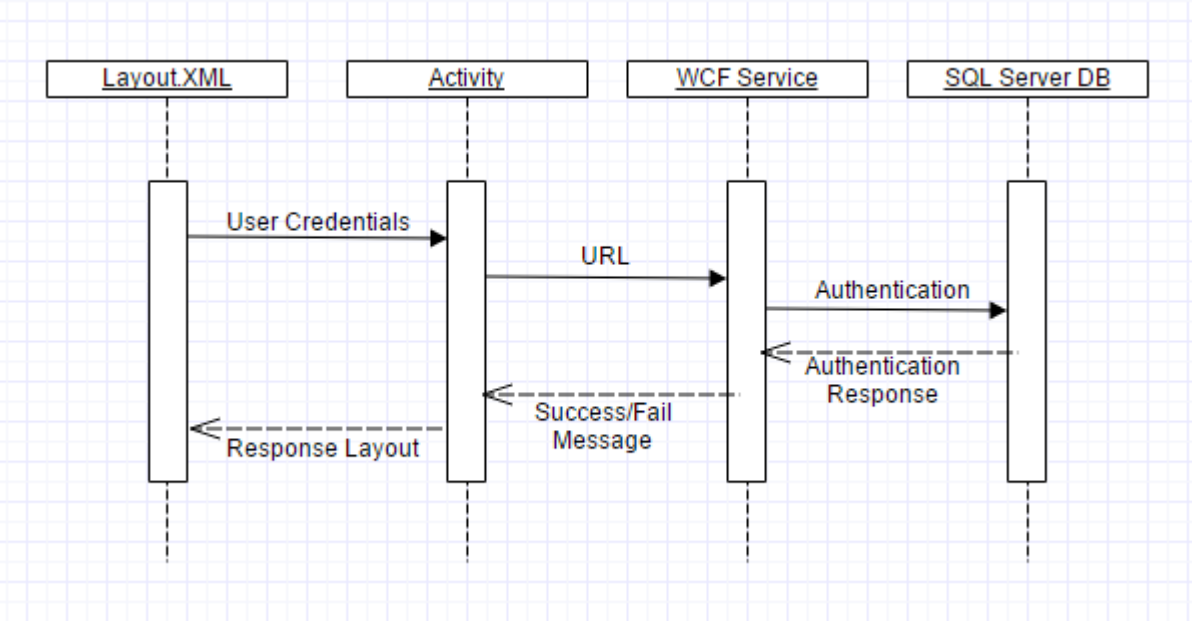
This service is used to update the details of an item in the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

V. Item Retrieval Service:

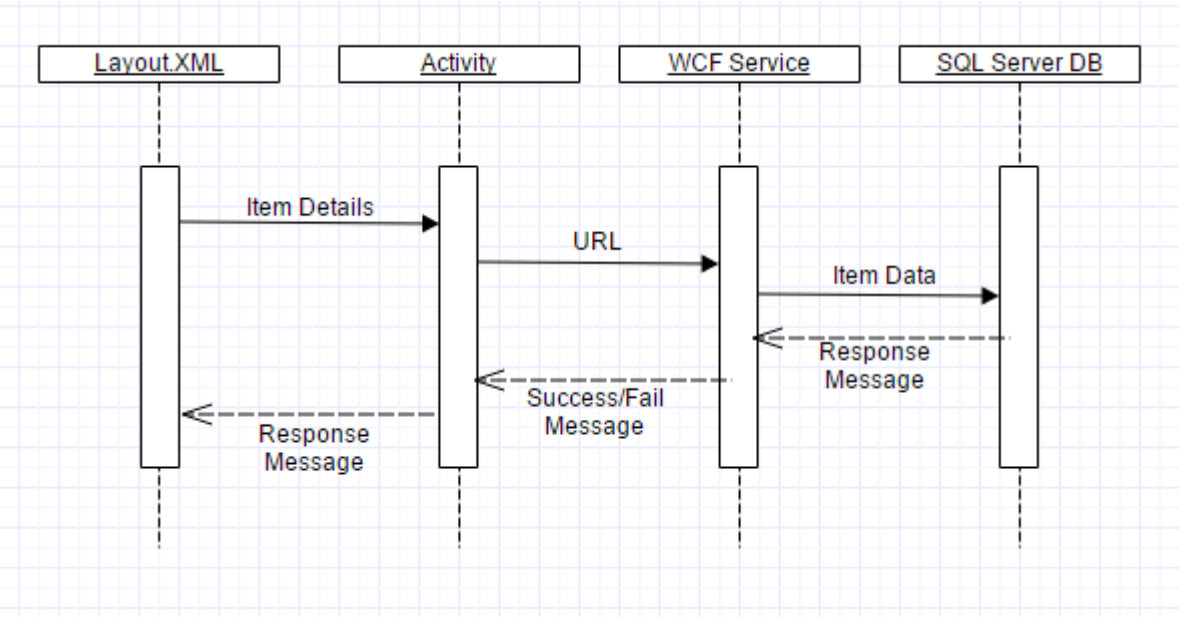
This service is used to retrieve the list of items from the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, and Method Name and get the required details.

- **Sequence Diagram:**

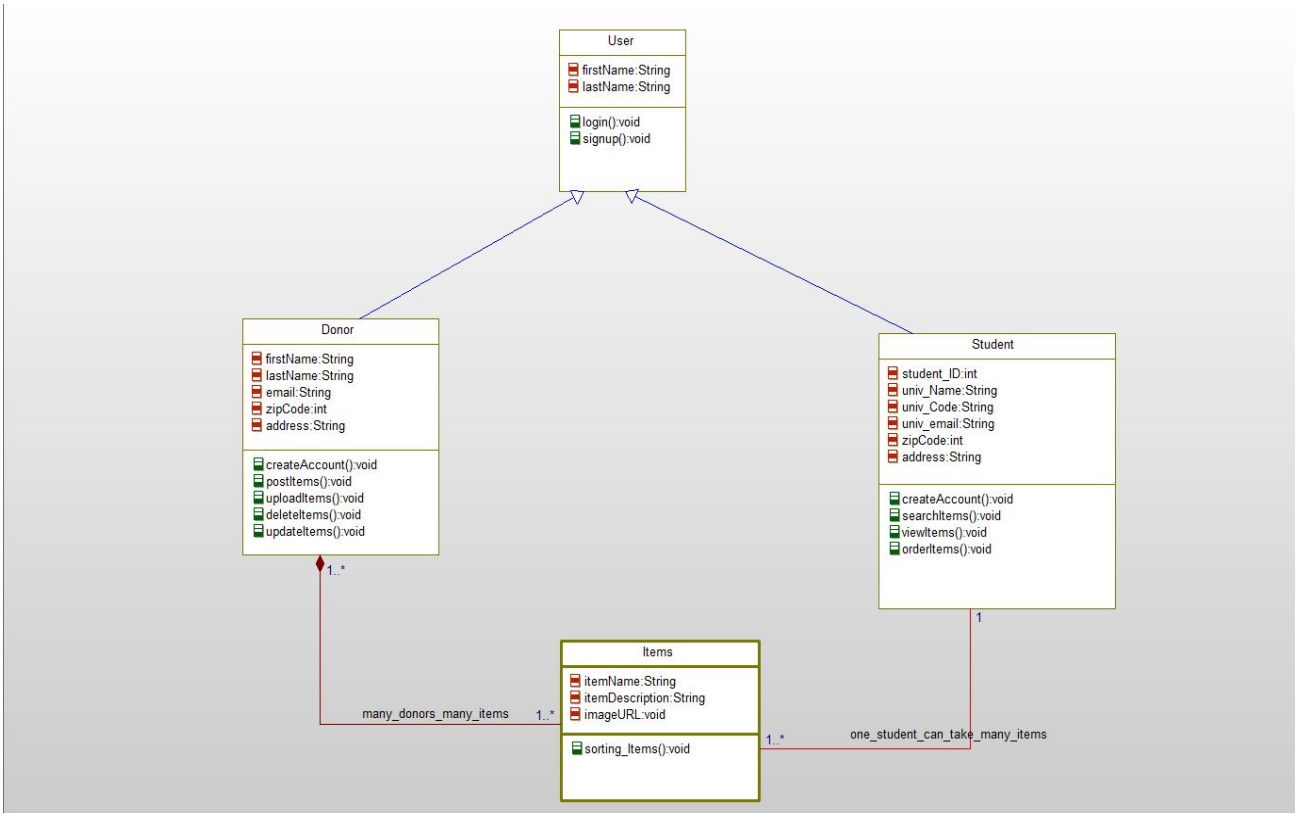
I. Sequence Diagram for User Login/Registration:



II. Sequence Diagram for adding/updating/retrieval of an Item:



- **Class Diagram:**



- **Design of Mobile Client Interface:**

a) Hardware Requirements:
   I. 1GHz processor
   II. SD card – 512 MB
   III. RAM – 512 MB
   IV. LED screen with touch enabled.

b) Software Requirements:
   I. Operating system: Android
   II. Version: Gingerbread (2.3) or advanced.

- **Design of Unit Test Cases:**

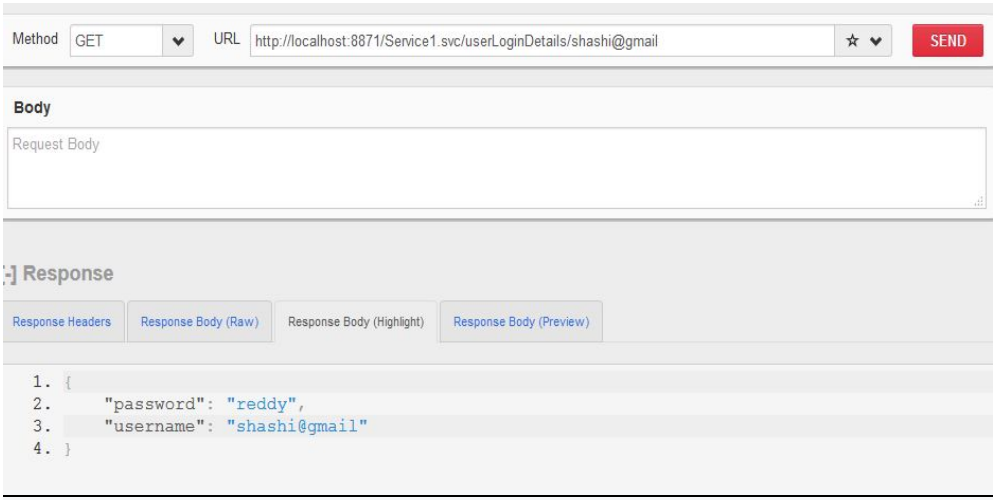
Test Case Id	Module	Description	Expected Result	Status
1	Registration	Click signup button without entering user details.	Message showing mandatory fields required	**Pass**
2	Registration	Numeric in First name ,Last name	Message showing numeric are not accepted.	**Pass**
3	Registration	Entering different passwords in password and retype password fields.	Message showing passwords should be same	**Pass**
4	Login	Click on submit with blank username and passwords.	Message showing mandatory fields required	**Pass**
5	Login	Entering unregistered username and password.	Application should not allow to login.	**Pass**
6	Login	Entering a valid username and Password	System should allow the user to login and a welcome page should be displayed.	**Pass**
7	Adding Items	Click Add Item button without entering the item details.	Message showing mandatory fields required	**Pass**
8	Adding Items	Numeric in item name	Message showing numeric are not accepted.	**Pass**
9	Adding Items	Alphabets and special characters in Quantity and Years used fields.	Message showing alphabets and special characters are not accepted.	**Pass**
10	Adding Items	Enter valid details.	System should allow the user to add the item.	**Pass**

Implementation:

- **Implementation of Rest Services:**
  - **I. User Login Service:**

    In this service, we are implementing User Login as a service, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

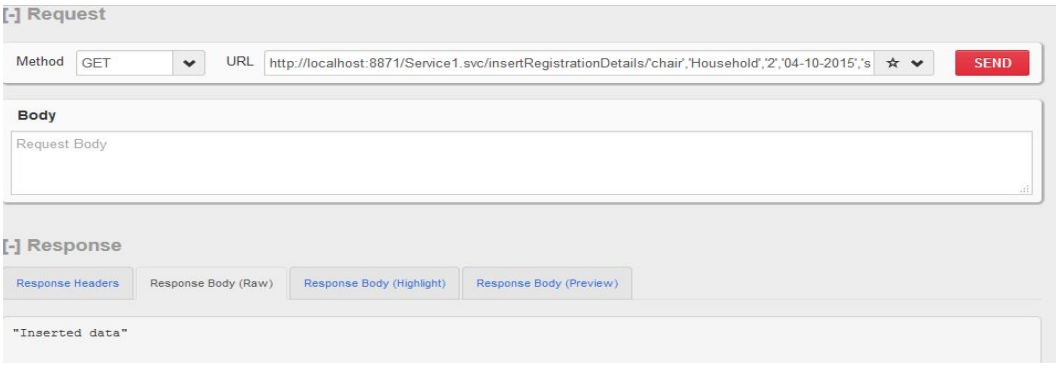
    URL: http://10.0.2.2:8871/Service1.svc/userLoginDetails/shashi@gmail



  - **II. User Registration Service:**

    We are implementing the User Registration Service with the fields like First Name, Last Name, User Name, Password, Email ID, Mobile Number, Date of Birth, Address and Zip Code, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

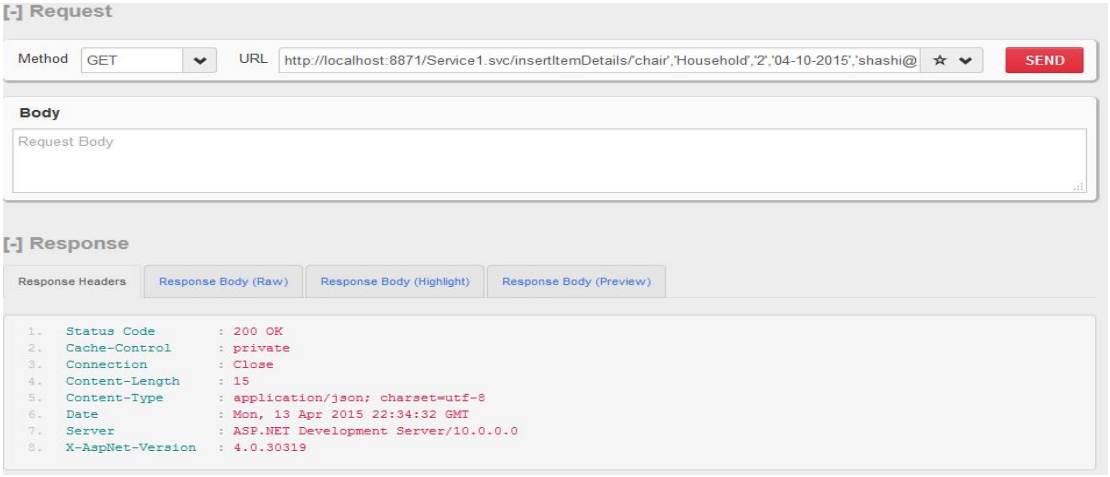
    URL: http://10.0.2.2:8871/Service1.svc/insertRegistrationDetails/'shashi','reddy','sashi','reddy','com','123','08-20-1990','kansas','64112'



III. Item Addition Service:

This service is used to add an item into the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

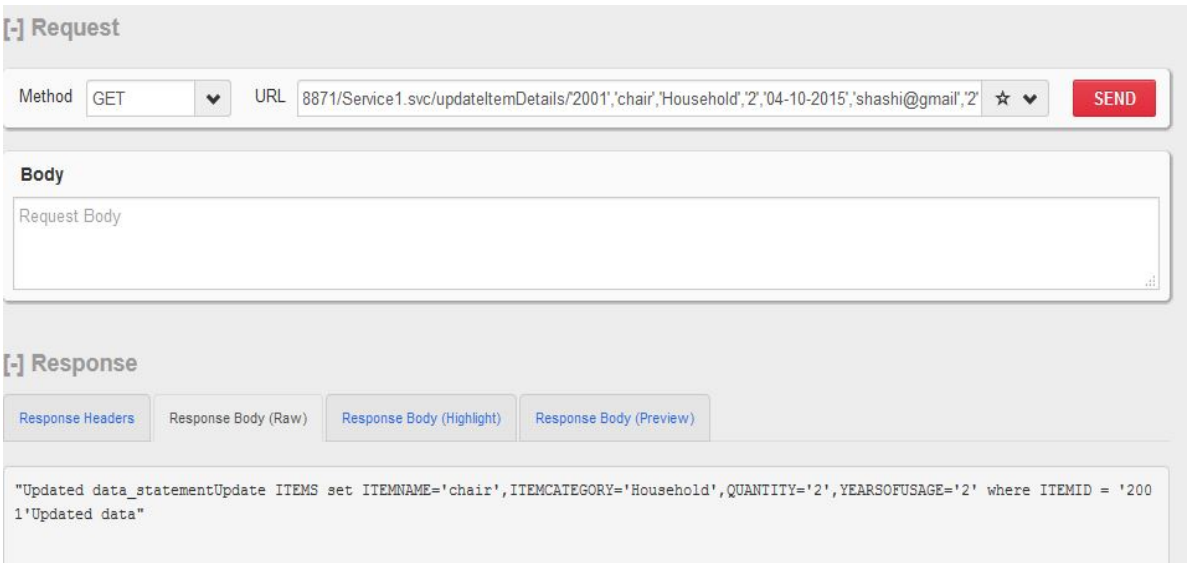
URL: http://10.0.2.2:8871/Service1.svc/insertItemDetails/'chair','Household','2','04-10-2015','shashi@gmail','4'



IV. Item Updating Service:

This service is used to update the details of an item in the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and the required input parameters.

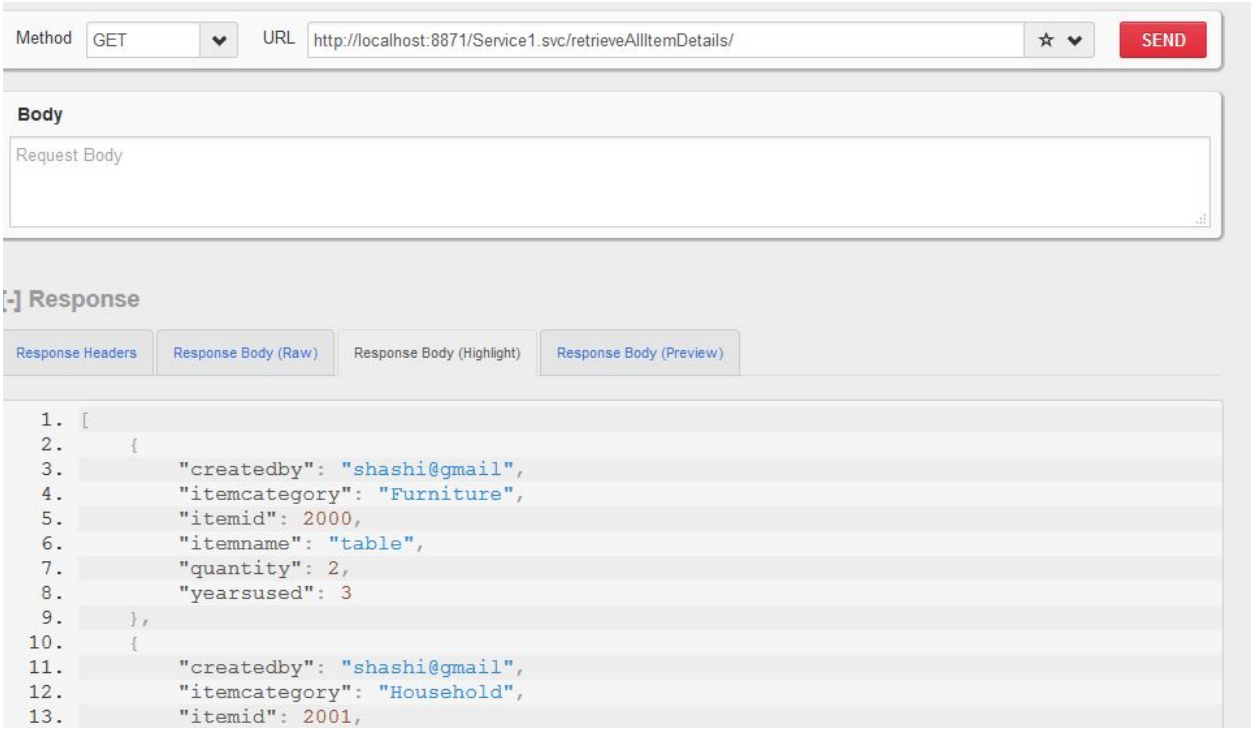
URL: http://10.0.2.2:8871/Service1.svc/extractItemDetails/shashi@gmail



V. Item Retrieval Service:

This service is used to retrieve the list of items from the Database, in which we hit the SQL Server Database using the corresponding IP Address, Port Number, Method Name and get the required details.

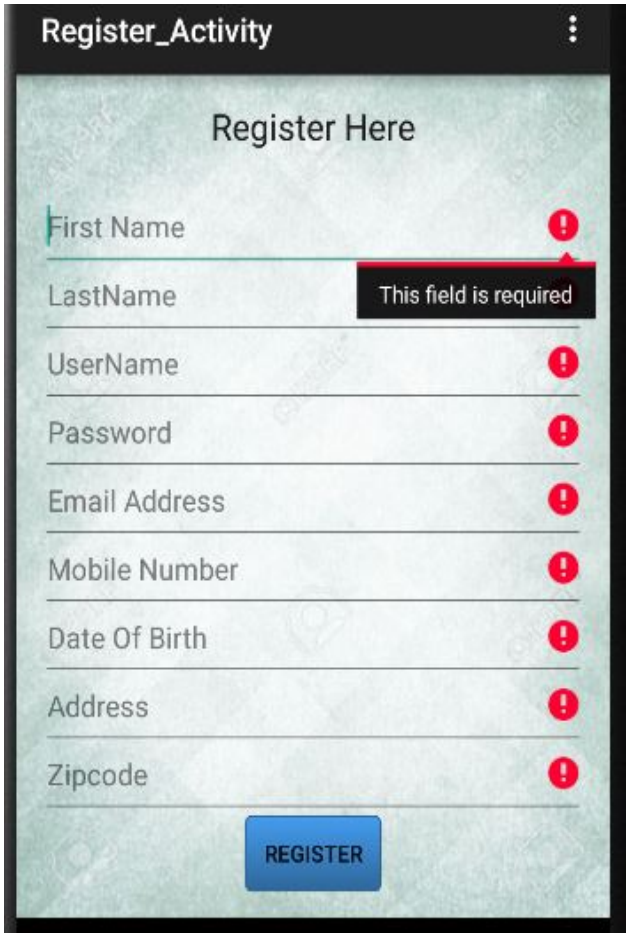
URL: http://10.0.2.2:8871/Service1.svc/retrieveAllItemDetails/



- **Implementation of User Interface:**

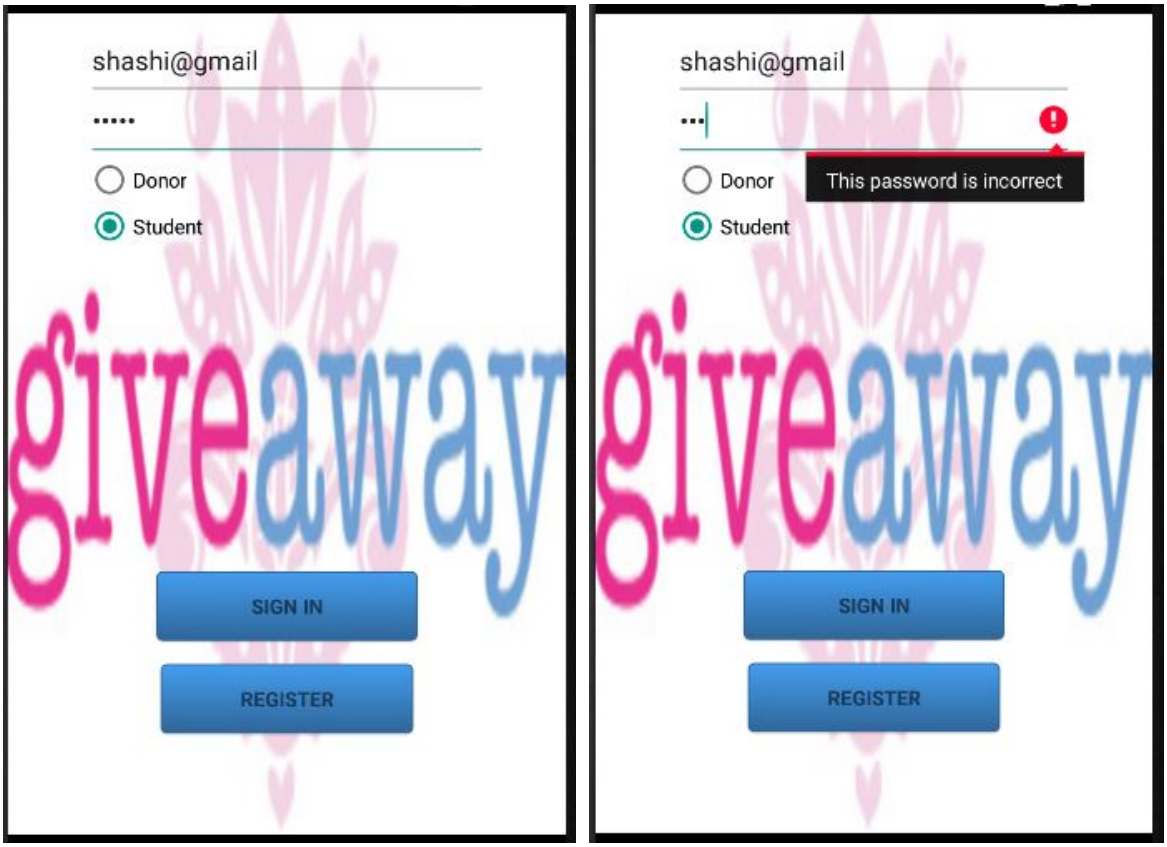
  I. User Registration Screen:

  The user has to first register to the application by giving the required data like First Name, Last Name, User Name, Password, Email ID, Mobile Number, Date of Birth, Address and Zip Code.



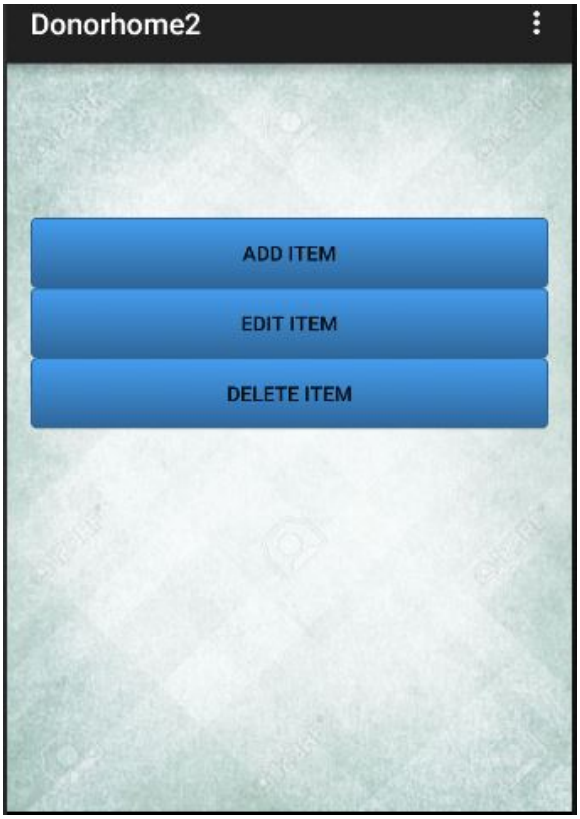
II. Login Screen:

The user after the successful registration has to login to the application by using his/her credentials. He has to select one of the options between the donor and the student.



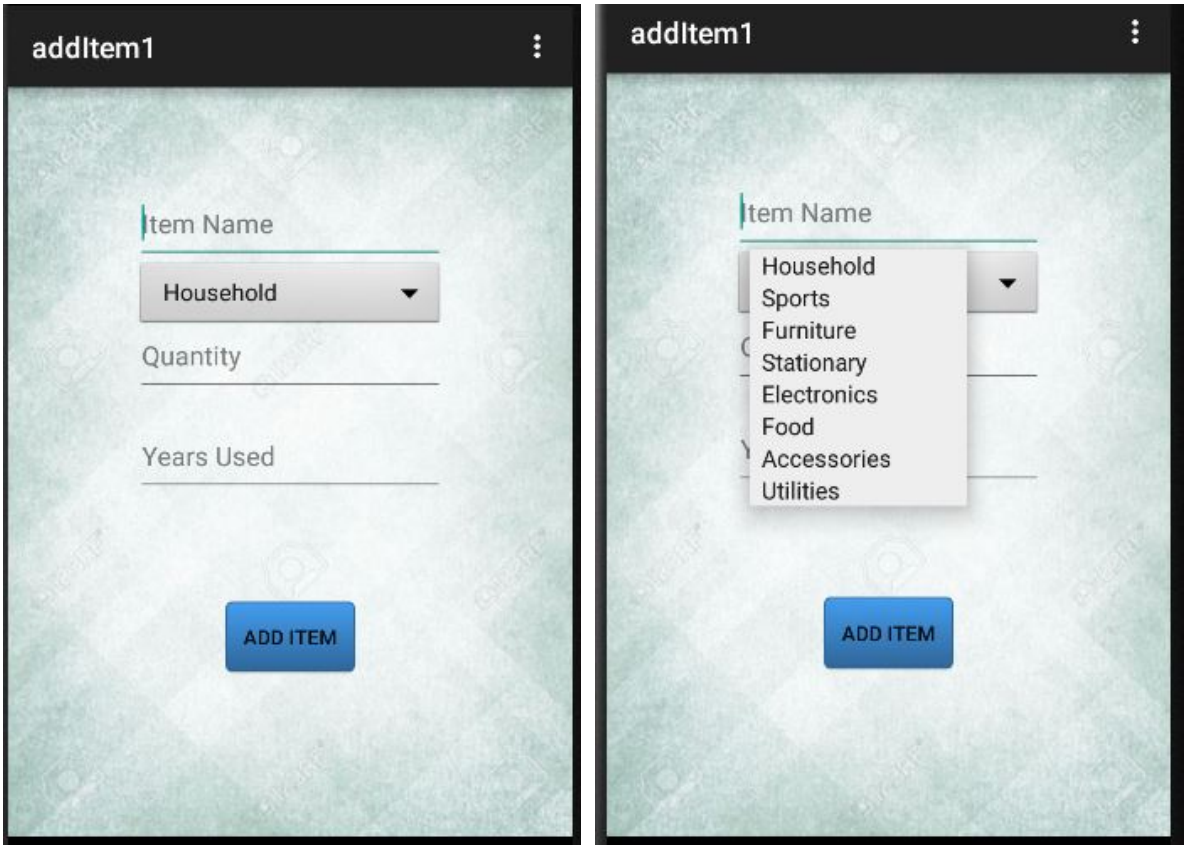
III. Donor Home Screen:

This screen contains the tabs for selecting the next operation. It has Add Item, Edit Item and Delete Item Tabs.



IV. Item Addition Screen:

The user uses this screen for adding an item for Giveaway. He has to give the details like Item Name, Item Category, Quantity and the number of years used.

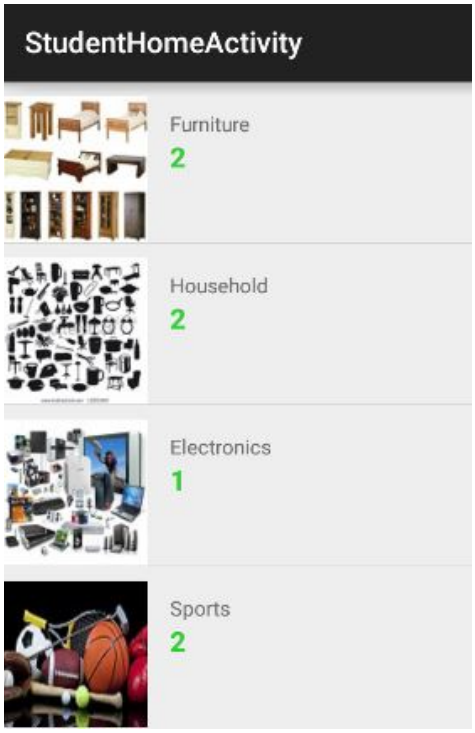


V. Item Updating Screen:

If the user wants to update the information of the items which he/she has posted, he can use this screen.

VI. Student Home Screen:

After the successful login, the student will be redirected to this screen, where the list of all items will be populated.



VII. Item Selection Screen:

The student can select any item using this screen.

VIII. Subscription Screen:

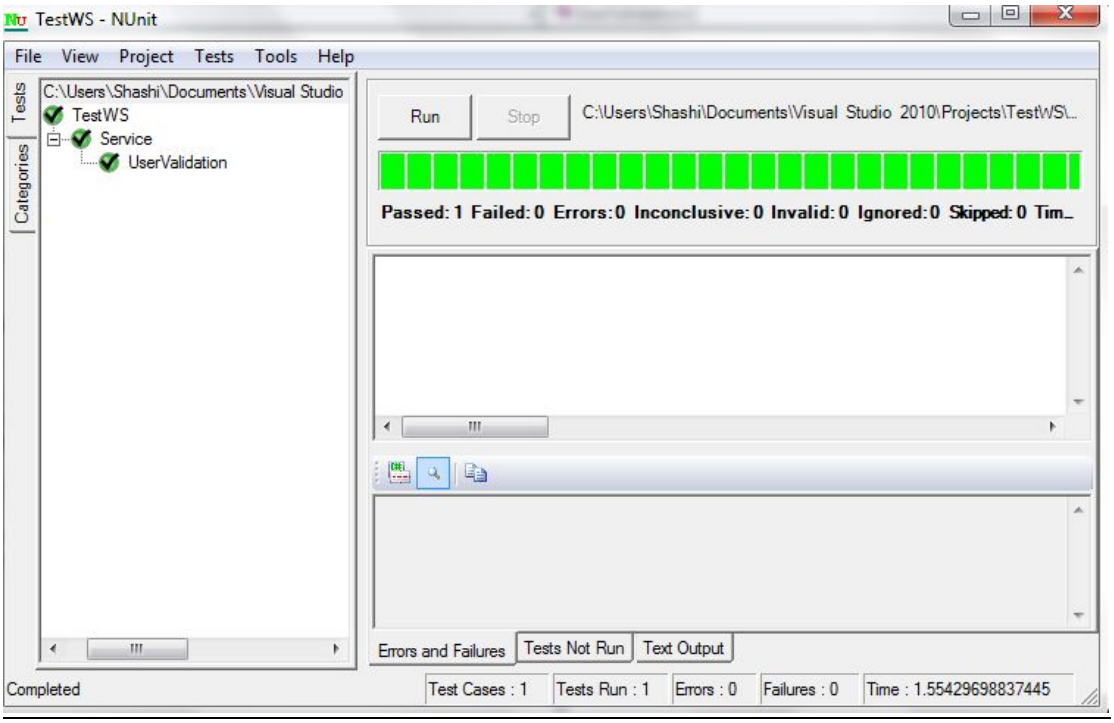
The Student can subscribe to any item which he likes using this screen.

Testing:

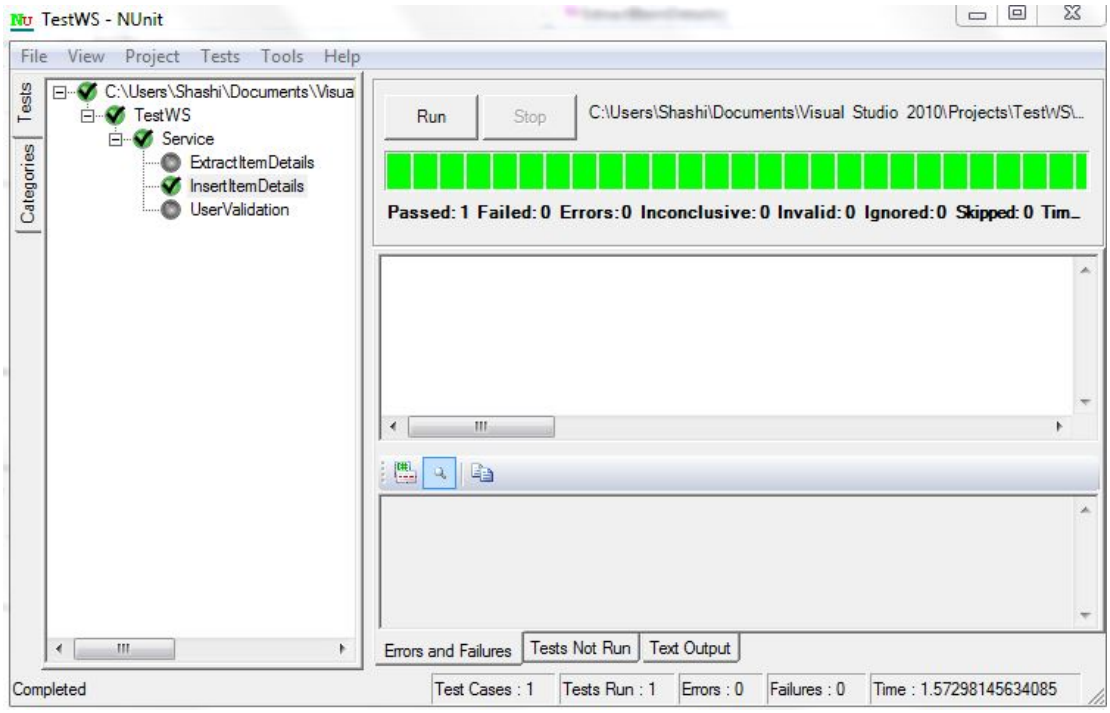
Functional Testing

NUnit Test Cases:

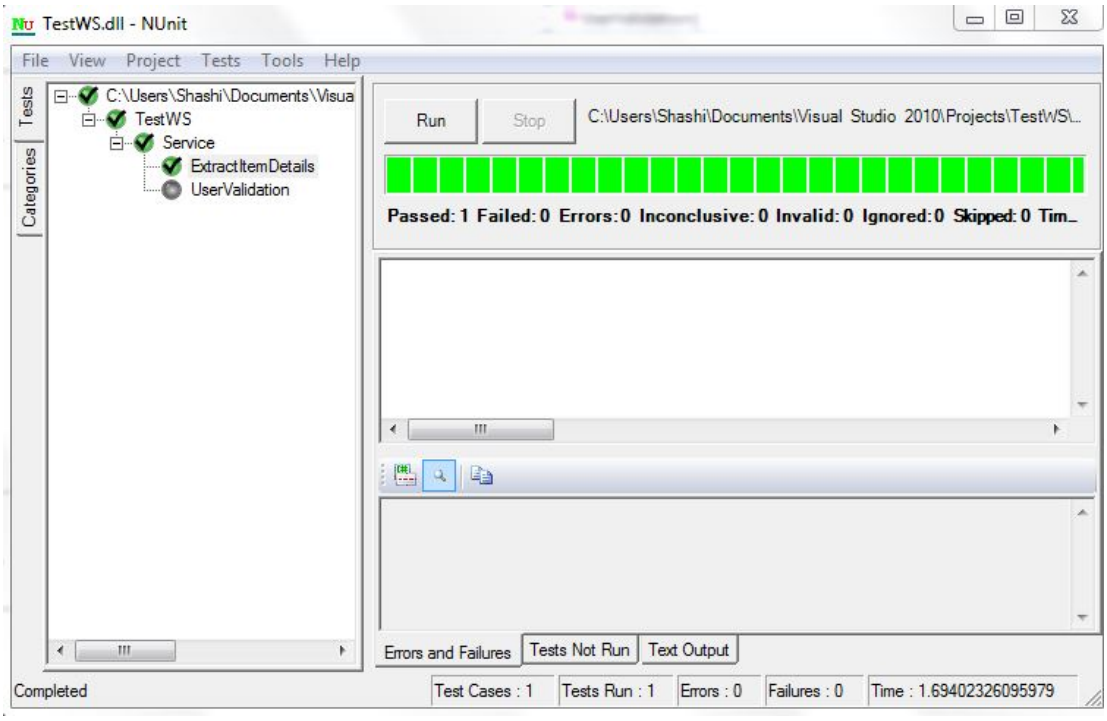
a. User Login:



b. Item Addition:



c. Item List Retrieval:



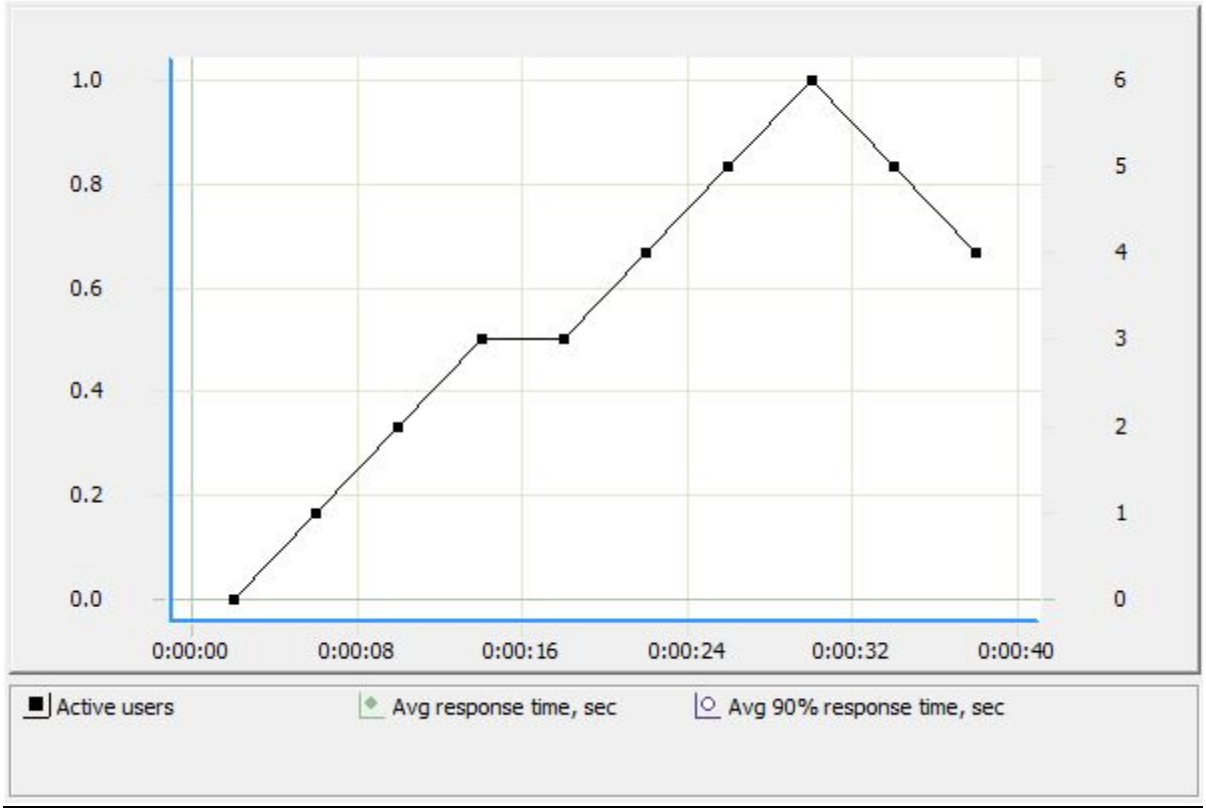
Deployment Testing:

Wapt Tool:

WAPT provides the most affordable and easy to configure load testing solution. It works as a single application that includes test design and load generation features. We can record tests using any desktop or mobile browser, design and optimize them with help of a convenient product GUI and run test scenarios with up to approximately 2,000 concurrent virtual users. Our target web site can run under any OS, including all UNIX and Windows platforms. It can be implemented with any web technology and have a distributed architecture consisting of multiple servers and databases. The only requirement is the availability of a web interface through which WAPT can simulate the activity of real site visitors. Here we have tested one of our service in the Wapt tool and the plotted graph shows the results.

itemretrieve.page_77: http://localhost:8871/Service1.svc/userLoginDetails/shashi@gmail

http://localhost:8871/Service1.svc/userLoginDetails/shashi@gmail



Deployment:

- **SrumDo:**

https://www.scrumdo.com/projects/project/giveaway/iteration/121737

- **GitHub:**

https://github.com/sashi987/ASE/tree/master/Increment3

Report:

The Give Away application is being developed as an Android application using Android SDK framework and SQL Server Database for data.

The following are the screens that we are using as part of our project,

I. **User Registration Screen:**

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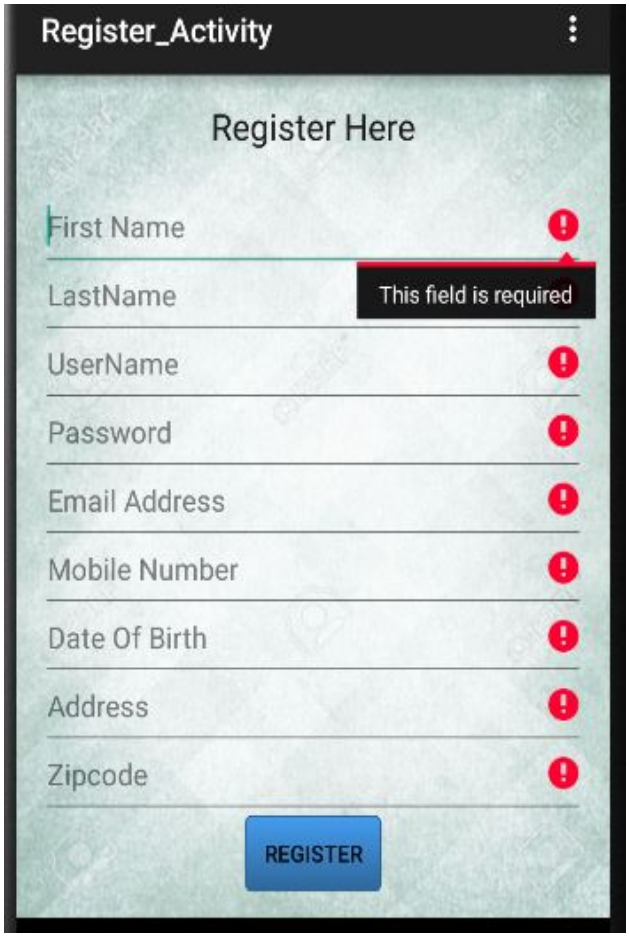

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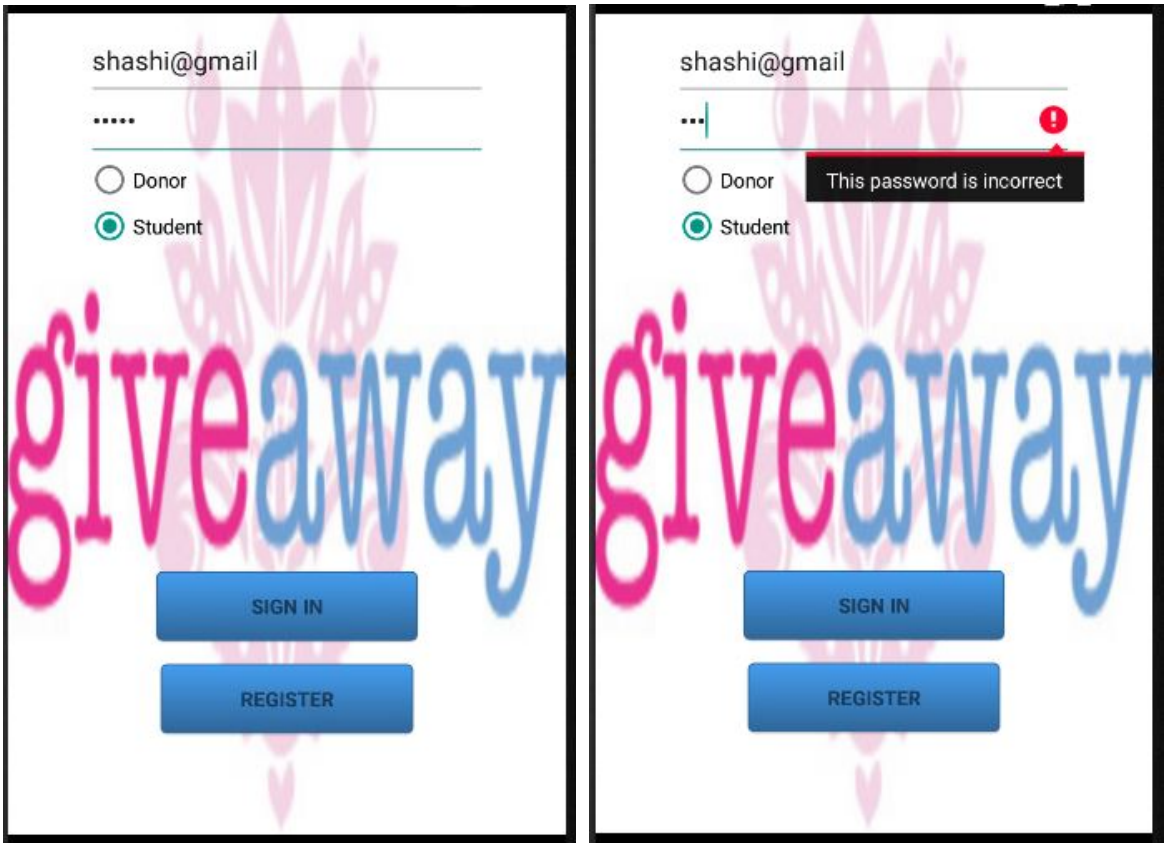

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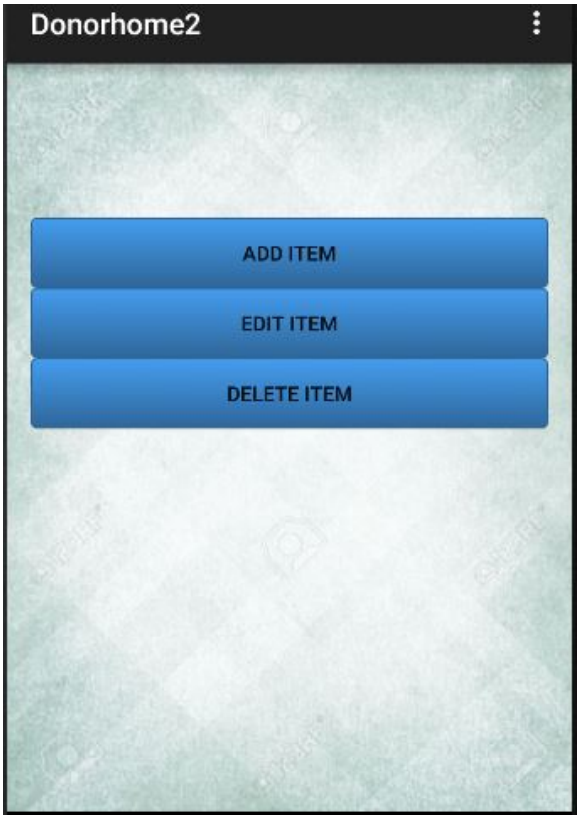

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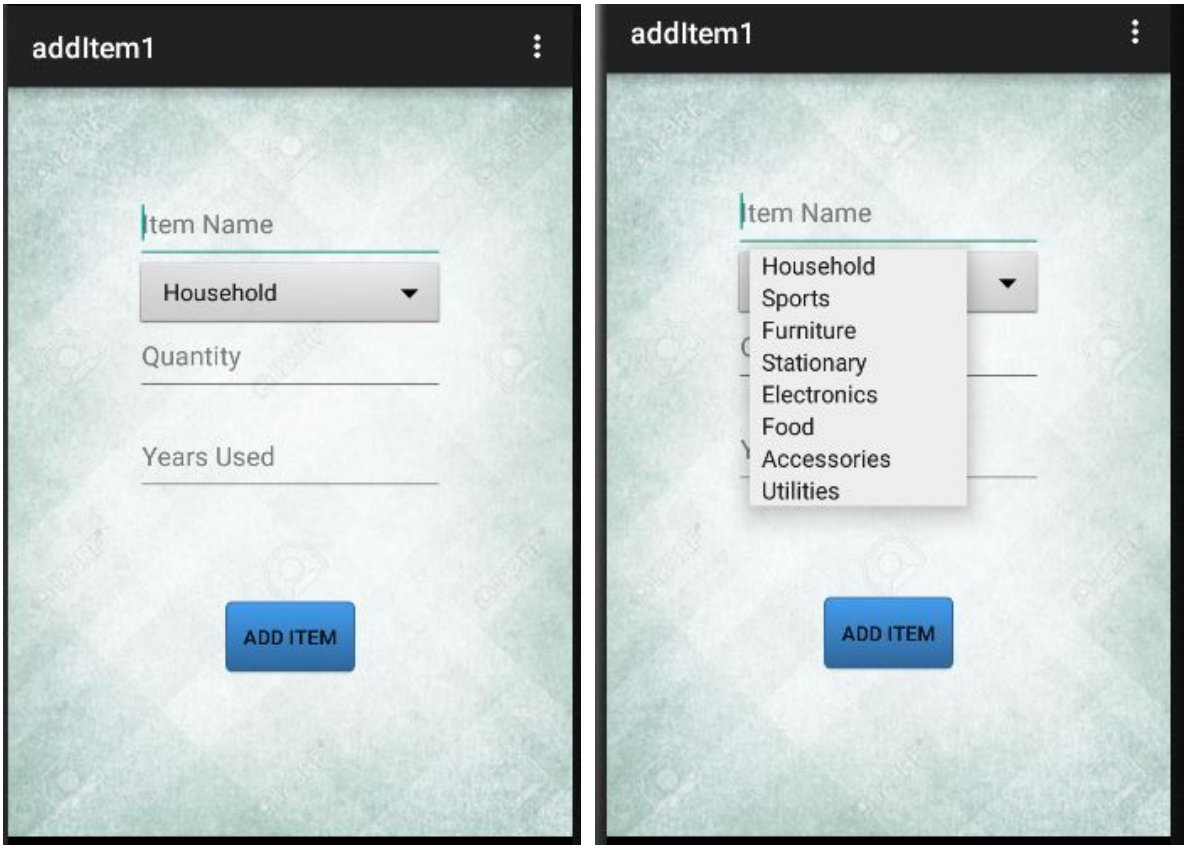

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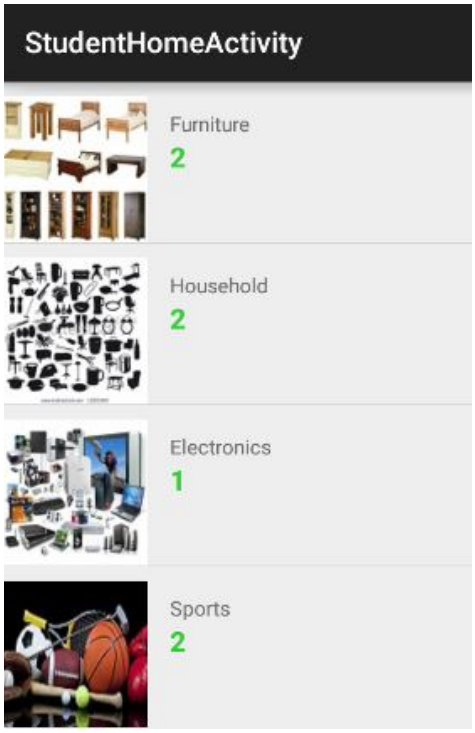

Project Management:

Work completed:

- Description:
    a. Registration and Login Services for Users
    b. Adding/Updating/Deleting an Item
    c. Retrieval of the list of Items

- Responsibility (Task, Person):

    a. **Sashidhar Reddy Gowra**: Creation of Services for User Login, User Registration, Item Addition, Item Updating and Item retrieval.

    b. **Venkataramana Yashwant Kumar Palisetty**: Creation of UI Screens for User Login and Registration and the corresponding validations.

    c. **Ravikanth Devanaboyina**: Creation of UI Screen for Displaying the Item list.

    d. **Anudeep Reddy Gujjula**: Creation of UI Screens for Item Addition, Item Updating and Item Deletion.

- Time taken (#hours):
    UI Design, Service Creation and Client Validations: 80 hrs.

- Contributions (members/percentage):
    a. Sashidhar Reddy Gowra - 50%
    b. Venkataramana Yashwant Kumar Palisetty - 20%
    c. Ravikanth Devanaboyina - 10%
    d. Anudeep Reddy Gujjula - 20%.

Work to be completed:

- Description: Using the already existing Google maps API for sharing the address location of a user, Unit Testing, System Testing, Testing the application on Android Devices
- Responsibility (Task, Person):
  Creating Web services, Hash Functions: Sashidhar Reddy Gowra, Ravikanth Devanaboyina.
  Populating screens, UI alignments: Venkataramana Yashwant Kumar Palisetty, Anudeep Reddy Gujjula.
- Time to be taken (estimated #hours) 100 hrs.

Issues/Concerns: Image insertion using service and using Hash functions to store user details in Database.