

Project Report for Fruit Supply Chain Management System

Contributors:

Student-1

Name : Bhensdadia Rahil R.
Roll no. : CE013
College ID : 18CEUON021
Batch : C1
Semester : 4
Subject: Software Engineering

Student-2

Name : Bhingradiya Zalak
Roll no. : CE014
College ID : 18CEUOG096
Batch : C1
Semester : 4
Subject: Software Engineering

• Project Description

Fruit Supply Chain are one of the most dynamic supply chain in supply chain industry. This supply chain supplies connects the vastly distributed consumption nodes with the non-uniformly distributed production farms.

The supply chain faces a major challenge in gathering information about the supply and conveying it to the warehouse storage administrators. This Inventory management, gathering information about the supply and conveying information over the network of employees when done manually results into the time delay.

The Fruit Supply Chain Management system provides a web based platform for all the users associated with the supply chain network to provide the enter and collect information about their concerned objectives with minimum delay in time.

• Users

The major users of the Fruit Supply Chain Management system are :

- The Collection Managers
- The Storage Administrators
- The Field Transport Staff
- The Whole Sale Buyer of Fruits

• Features

The major features of The Fruit Supply Chain Management system is to provide:

- Web based Application Platform
- Provide real time synchronized data and secured role based logins
- Prevent data inconsistency and redundancy
- Provide easy user enabling user with all the required data within few clicks

• List of Requirements

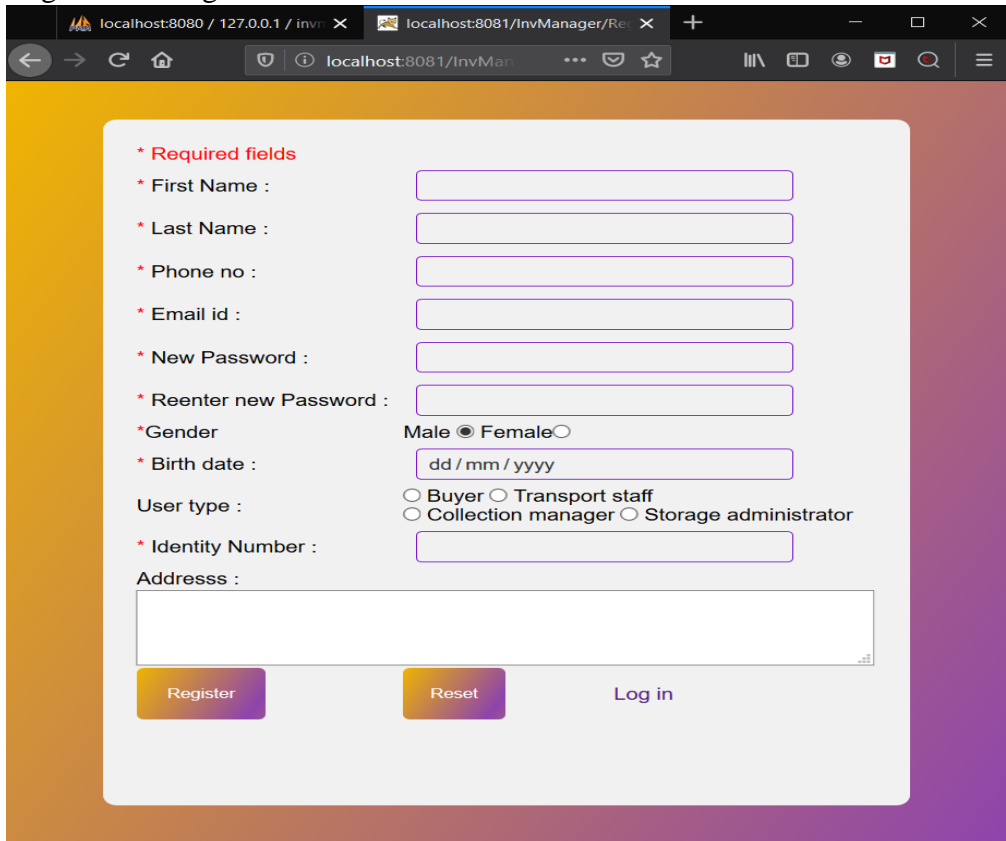
- Functionality for Collection Managers
 - Get themselves Registered
 - Secure login and logout
 - Create supply requests
 - View list of upcoming approved supplies
 - View List of fulfilled supply requests
- Functionality for Storage Administrator
 - Get themselves Registered
 - Secure login and logout
 - View Product list
 - View Supply Requests list
 - Accept or reject supply request
 - View quantity of available products
- Functionality for Buyers

- Get themselves Registered
- Secure login and logout
- View Available products and available quantity
- Place order
- View order list
- Functionality for field Transport staff
 - Get themselves Registered
 - Secure login and logout
 - View transport schedule
 - View completed task

- **Technologies Used**

- Java Server Pages
 - It is a collection of technologies that helps software developers create dynamically generated web pages based on HTML, XML, or other document types.
- Hibernate 4.3
 - Hibernate ORM is an object-relational mapping tool for the java programming language
- HTML5
 - HTML5 is a mark-up language used for structuring and presenting content for the World Wide Web and a core technology of the Internet.
- Bootstrap
 - Provides frontend technologies using CSS and JavaScript
- MySQL
 - MySQL, the most popular Open Source SQL database management system (DBMS), is developed, distributed, and supported by Oracle Corporation.
- JavaScript
 - JavaScript (JS) allows client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed

- Screenshots of the project
- Registration Page



A screenshot of a web browser displaying a registration form. The browser's address bar shows two tabs: 'localhost:8080 / 127.0.0.1 / invr' and 'localhost:8081/InvManager/Re...'. The form is titled '* Required fields' in red. It contains several input fields: First Name, Last Name, Phone no, Email id, New Password, and Reenter new Password. There are also radio buttons for Gender (Male, Female) and User type (Buyer, Transport staff, Collection manager, Storage administrator). A birth date field is labeled 'dd / mm / yyyy'. An Identity Number field is also present. Below the form is a large text area for the Address. At the bottom, there are three buttons: 'Register' (orange), 'Reset' (orange), and 'Log in' (purple).

* Required fields

* First Name :

* Last Name :

* Phone no :

* Email id :

* New Password :

* Reenter new Password :

* Gender Male ☒ Female ☐

* Birth date :

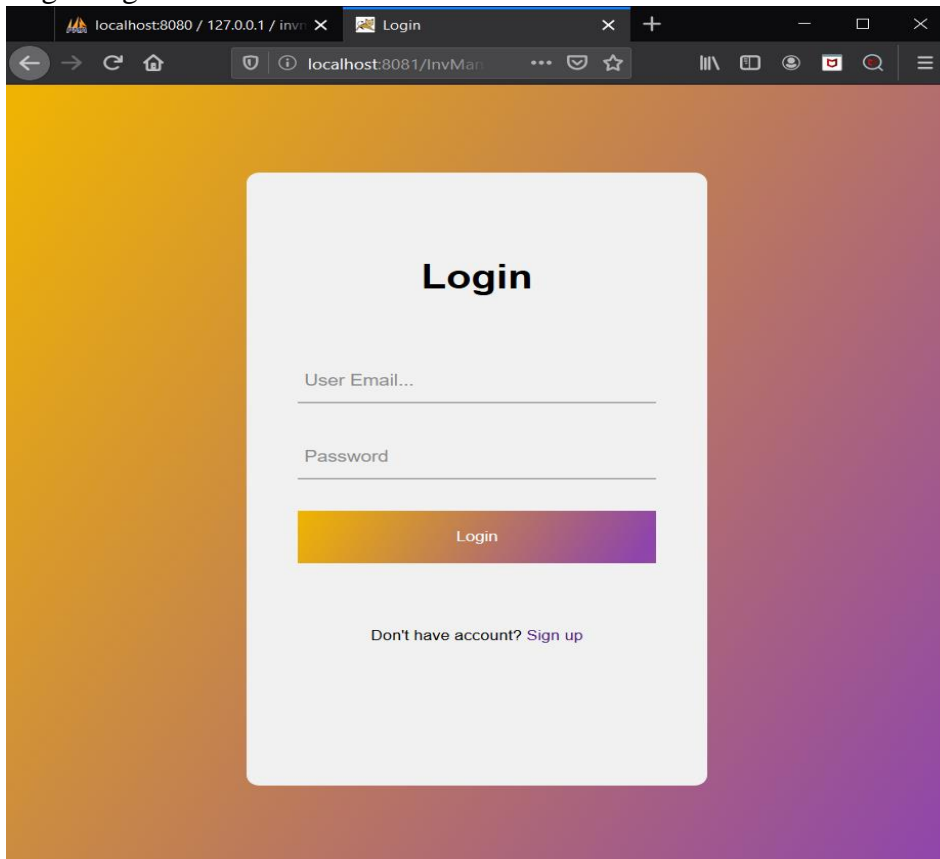
User type : ☐ Buyer ☐ Transport staff ☐ Collection manager ☐ Storage administrator

* Identity Number :

Address :

Register Reset Log in

- Login Page



A screenshot of a web browser displaying a login page. The browser's address bar shows two tabs: 'localhost:8080 / 127.0.0.1 / invr' and 'Login'. The page has a large white box in the center with the title 'Login' in bold. Below the title are two input fields: 'User Email...' and 'Password'. A large orange button labeled 'Login' is positioned below the password field. At the bottom of the white box, there is a link that says 'Don't have account? Sign up'.

Login

User Email...

Password

Login

Don't have account? Sign up

- Collection Managers Home Page

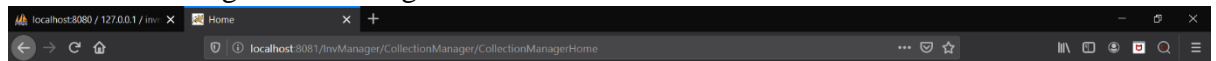


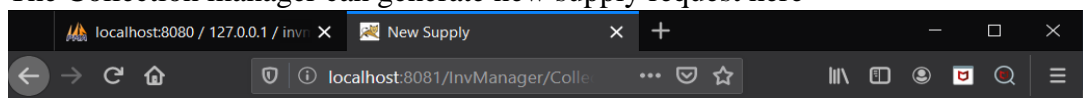
Table for upcoming supplies //which are approved

Supply no.	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
S2001240001	Mangoe	30	F0100100001	24/01/2020	30/01/2020	Generate receipt



- Page to create a supply request:

The Collection manager can generate new supply request here



Generate new supply request

New Supply

Fruit:
Mangoe

Quantity:
0

Source
F1

Supply date
dd / mm / yyyy

Submit

- Page to view all the upcoming Supplies :

Table for upcoming requests

Supply no.	Status	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
S2001230001	Pending Static	Apple	30	F0100100001	23/01/2020	30/01/2020	Generate receipt

2020-04-21

1	Accepted	Mangoe	1	11234	2020-04-21	2020-04-25	Generate Receipt
3	Accepted	Mangoe	5	11234	2020-04-21	2020-04-30	Generate Receipt
4	Accepted	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
5	Accepted	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
6	Accepted	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
7	Accepted	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
8	Accepted	Mangoe	5	11234	2020-04-21	2020-05-10	Generate Receipt

- View Supply History:

Supply History

Supply no.	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
2020-04-21						
1	Mangoe	1	11234	2020-04-21	2020-04-25	Generate Receipt
2	Apple	5	11234	2020-04-21	2020-04-21	Generate Receipt
3	Mangoe	5	11234	2020-04-21	2020-04-30	Generate Receipt
4	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
5	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
6	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
7	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
8	Mangoe	5	11234	2020-04-21	2020-05-10	Generate Receipt

- Storage Administrations Home Page:
Admin can select the warehouse from the dropdown and respected data will be displayed on change

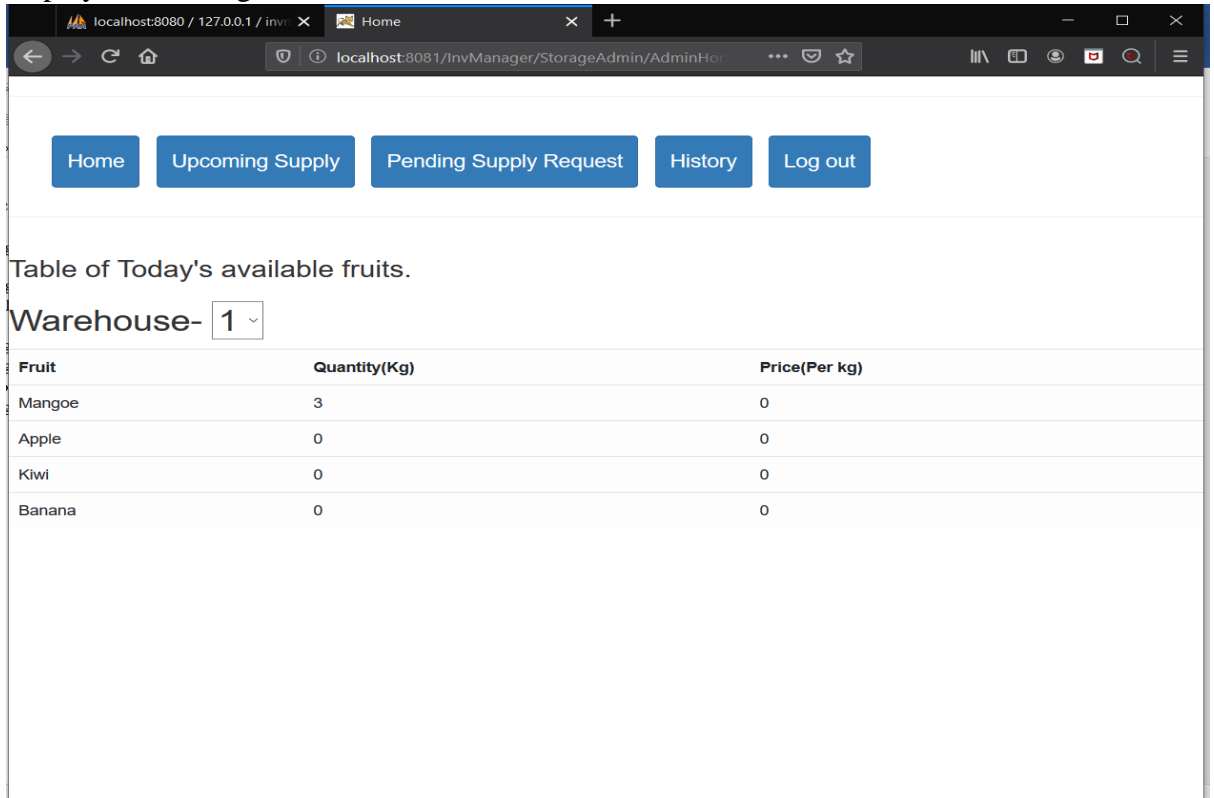


Table of Today's available fruits.

Warehouse- 1

Fruit	Quantity(Kg)	Price(Per kg)
Mangoes	3	0
Apple	0	0
Kiwi	0	0
Banana	0	0

- View Upcoming accepted supplies:

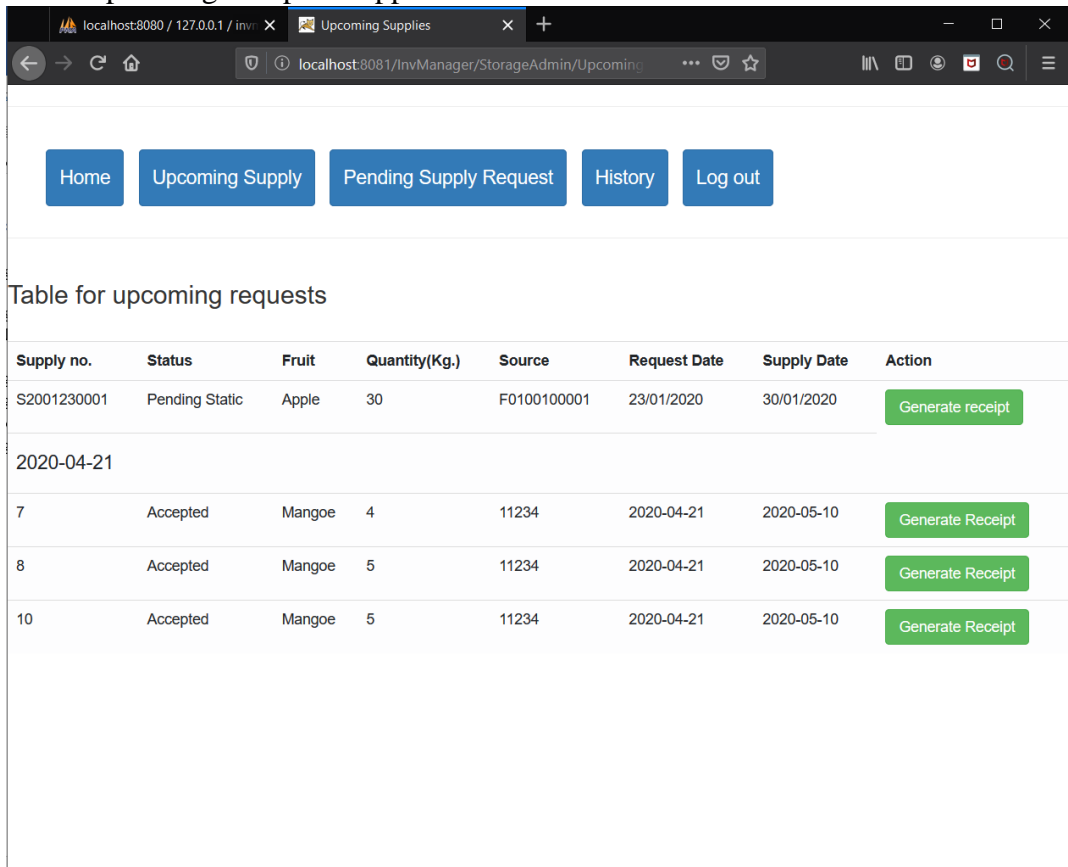


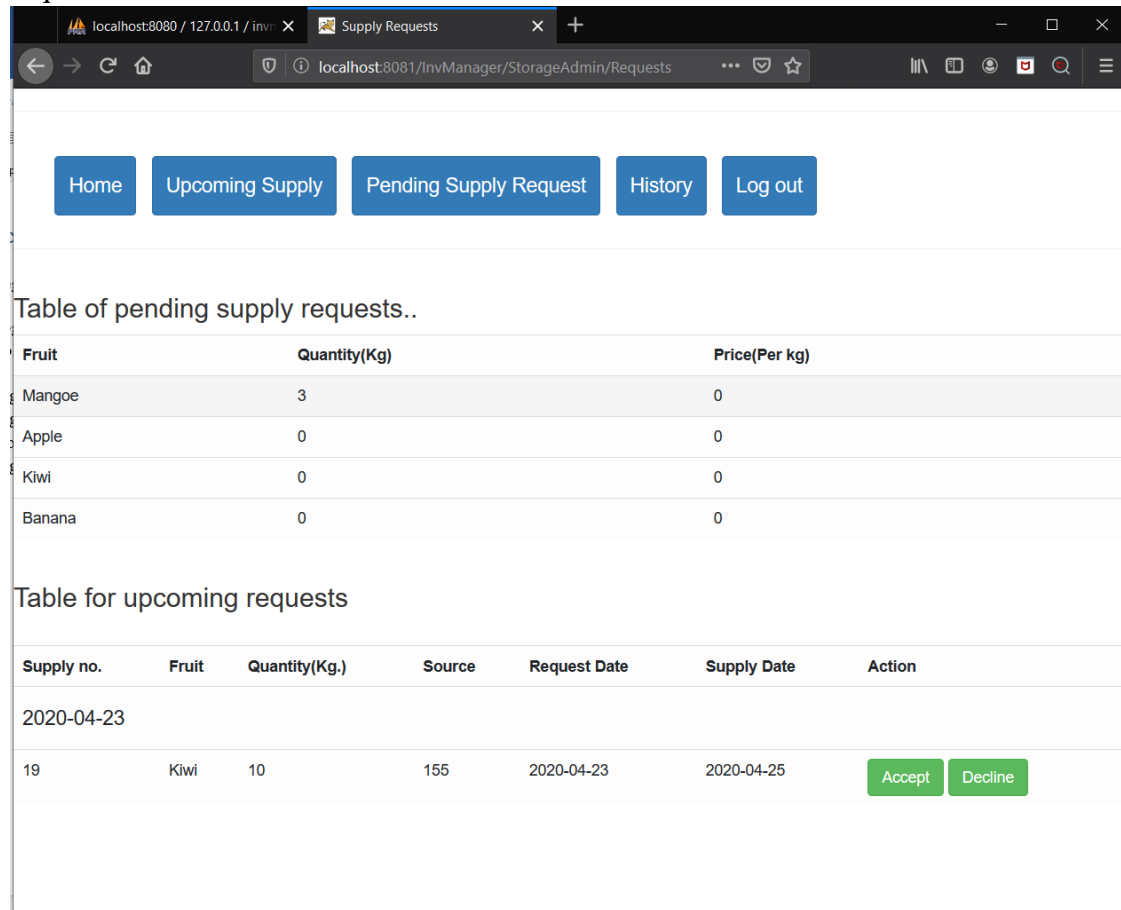
Table for upcoming requests

Supply no.	Status	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
S2001230001	Pending Static	Apple	30	F0100100001	23/01/2020	30/01/2020	<button>Generate receipt</button>
2020-04-21							
7	Accepted	Mangoes	4	11234	2020-04-21	2020-05-10	<button>Generate Receipt</button>
8	Accepted	Mangoes	5	11234	2020-04-21	2020-05-10	<button>Generate Receipt</button>
10	Accepted	Mangoes	5	11234	2020-04-21	2020-05-10	<button>Generate Receipt</button>

- Pending supply requests :

Page to View the pending supply requests made by collection manager

Admin can view the current status of storage and accordingly accepts or denies the request



Home Upcoming Supply Pending Supply Request History Log out

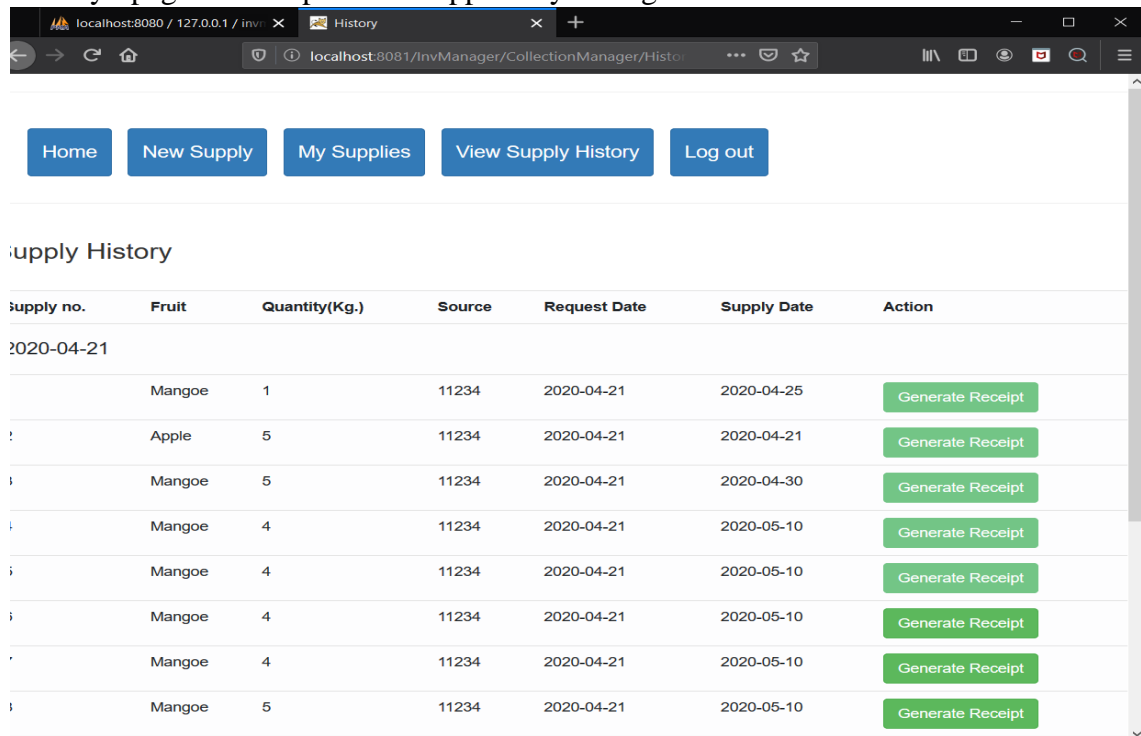
Table of pending supply requests..

Fruit	Quantity(Kg)	Price(Per kg)
Mangoe	3	0
Apple	0	0
Kiwi	0	0
Banana	0	0

Table for upcoming requests

Supply no.	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
2020-04-23						
19	Kiwi	10	155	2020-04-23	2020-04-25	Accept Decline

- History : page to view previous supplies by Storage Admin

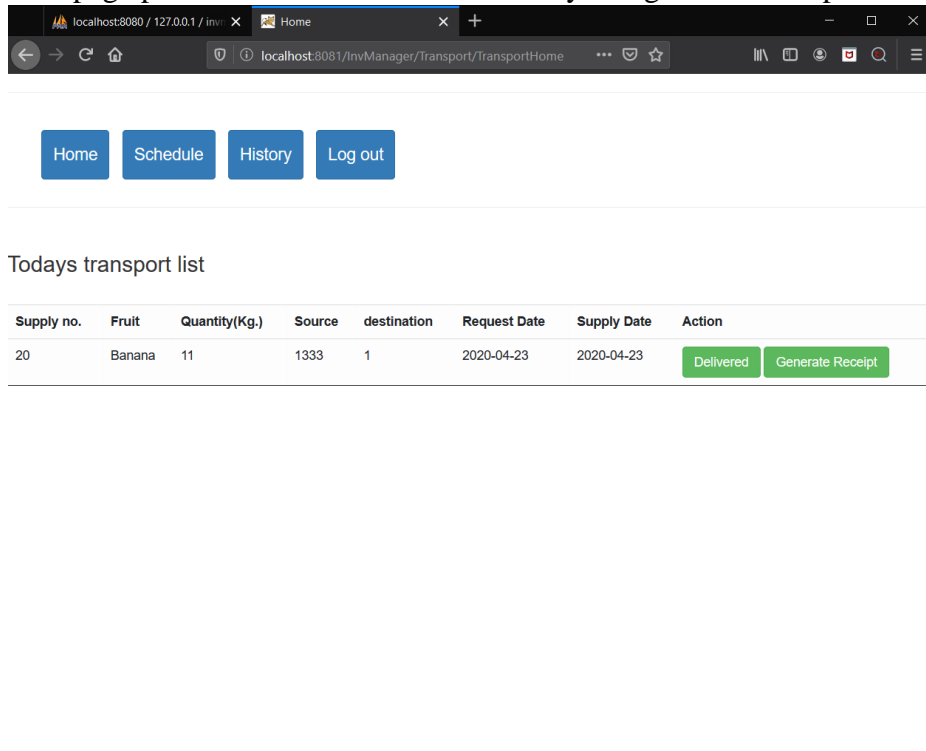


Home New Supply My Supplies View Supply History Log out

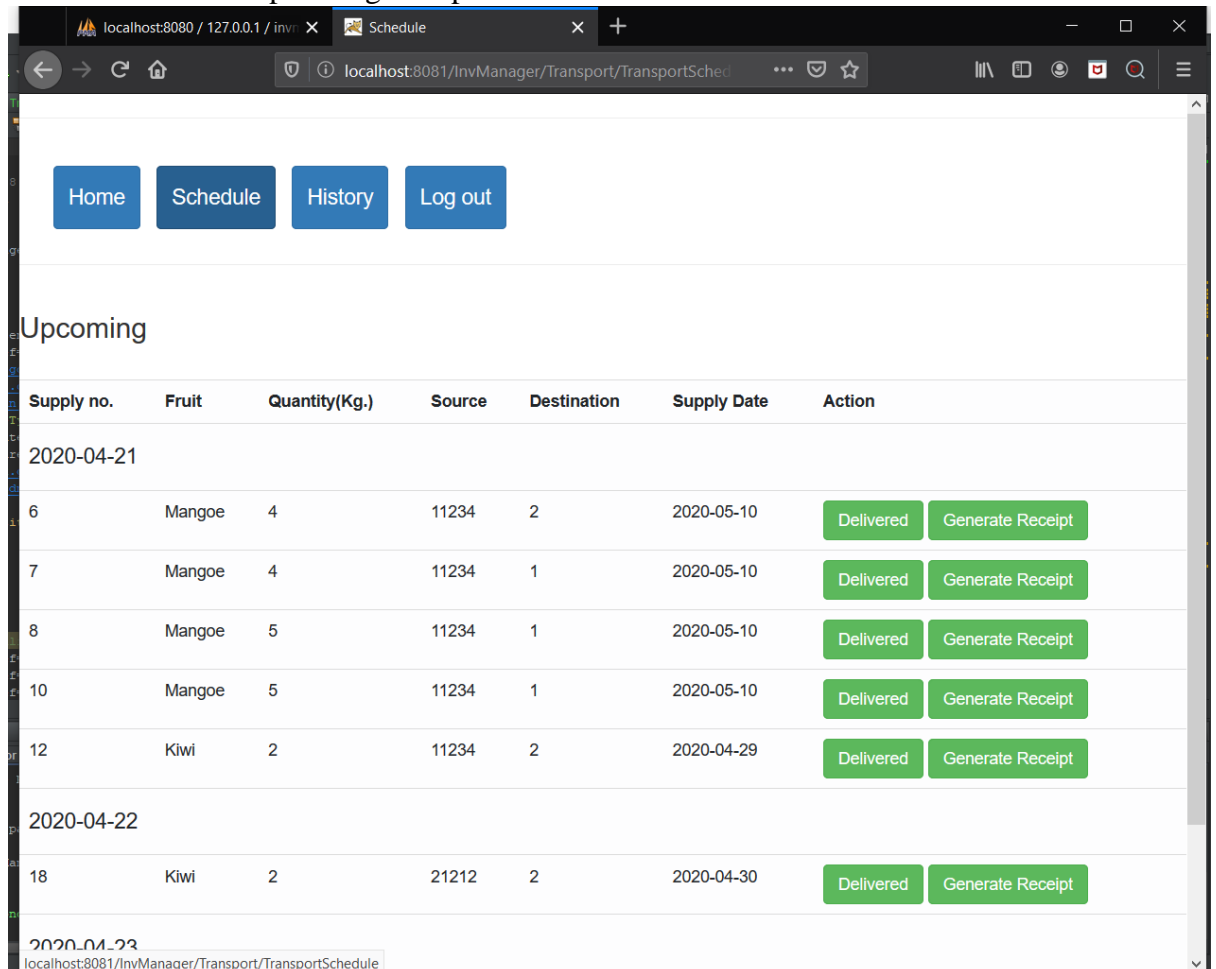
Supply History

Supply no.	Fruit	Quantity(Kg.)	Source	Request Date	Supply Date	Action
2020-04-21						
	Mangoe	1	11234	2020-04-21	2020-04-25	Generate Receipt
	Apple	5	11234	2020-04-21	2020-04-21	Generate Receipt
	Mangoe	5	11234	2020-04-21	2020-04-30	Generate Receipt
	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
	Mangoe	4	11234	2020-04-21	2020-05-10	Generate Receipt
	Mangoe	5	11234	2020-04-21	2020-05-10	Generate Receipt

- Transport Home page: lists today's transport list
This page provides buttons for done delivery and generate receipt of delivery



- Schedule : to view upcoming transport schedule



- History : to view delivery history

History of Transport

Supply no.	Fruit	Quantity(Kg.)	Source	Supply Date	Action
2020-04-21					
6	Mangoe	4	11234	2020-05-10	Generate Receipt
7	Mangoe	4	11234	2020-05-10	Generate Receipt
8	Mangoe	5	11234	2020-05-10	Generate Receipt
10	Mangoe	5	11234	2020-05-10	Generate Receipt
12	Kiwi	2	11234	2020-04-29	Generate Receipt
13	Mangoe	8	11234	2020-04-22	Generate Receipt
14	Mangoe	8	11234	2020-04-22	Generate Receipt
15	Mangoe	8	11234	2020-04-22	Generate Receipt

- Buyers Home:

Table of available fruits.

Fruit	Quantity available(Kg)	Price	Required quantity(Kg)	
Mango	1500	100	01	Add to cart
Apple	30	80	01	Add to cart
Kiwi	50	150	01	Add to cart
Banana	50	40	01	Add to cart

- Buyers Order: list of orders placed

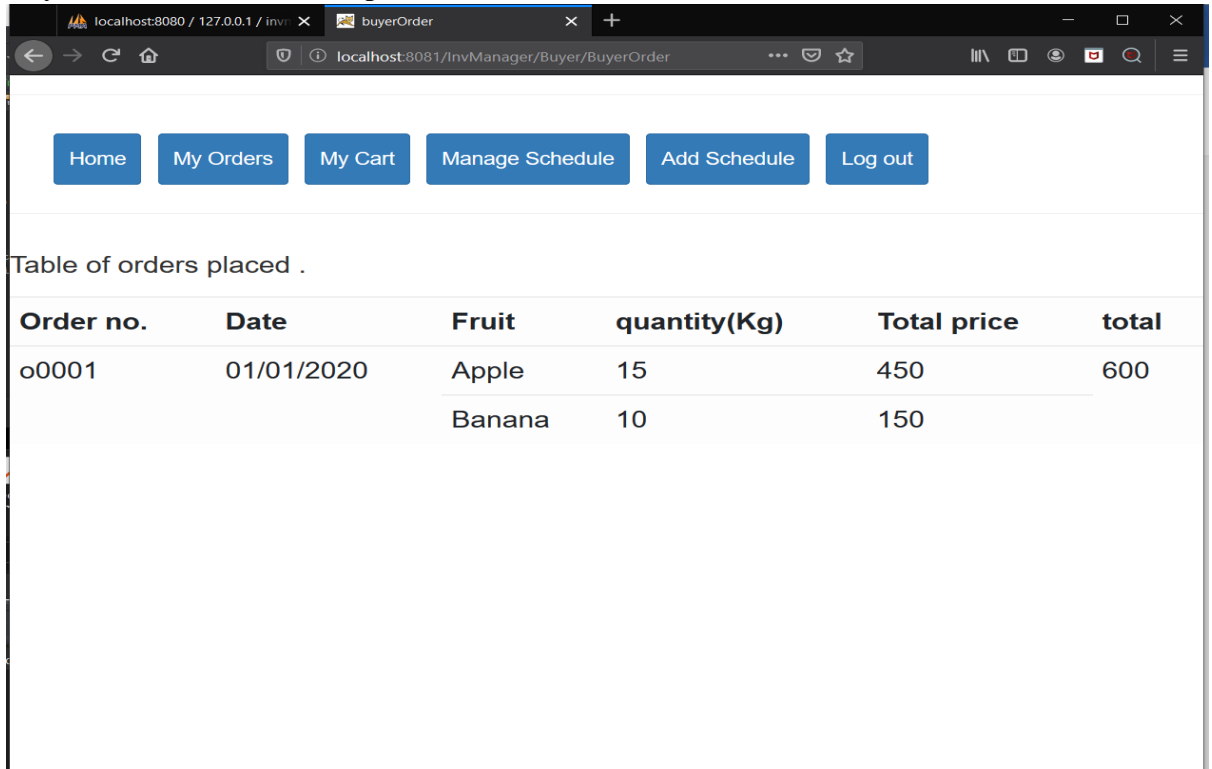


Table of orders placed .

Order no.	Date	Fruit	quantity(Kg)	Total price	total
o0001	01/01/2020	Apple	15	450	600
		Banana	10	150	

- Buyers Cart: to add items before checking out for purchase

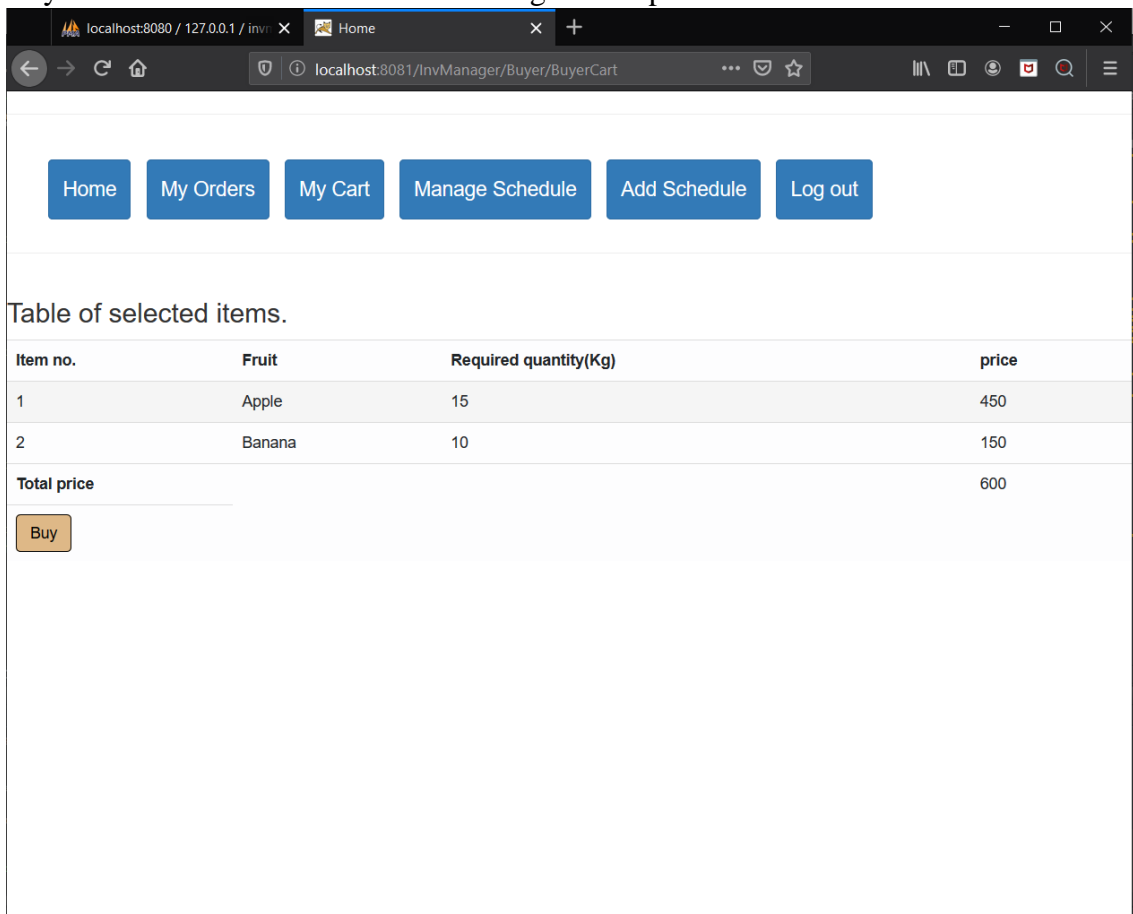


Table of selected items.

Item no.	Fruit	Required quantity(Kg)	price
1	Apple	15	450
2	Banana	10	150
Total price			600

Buy