

# Project-II

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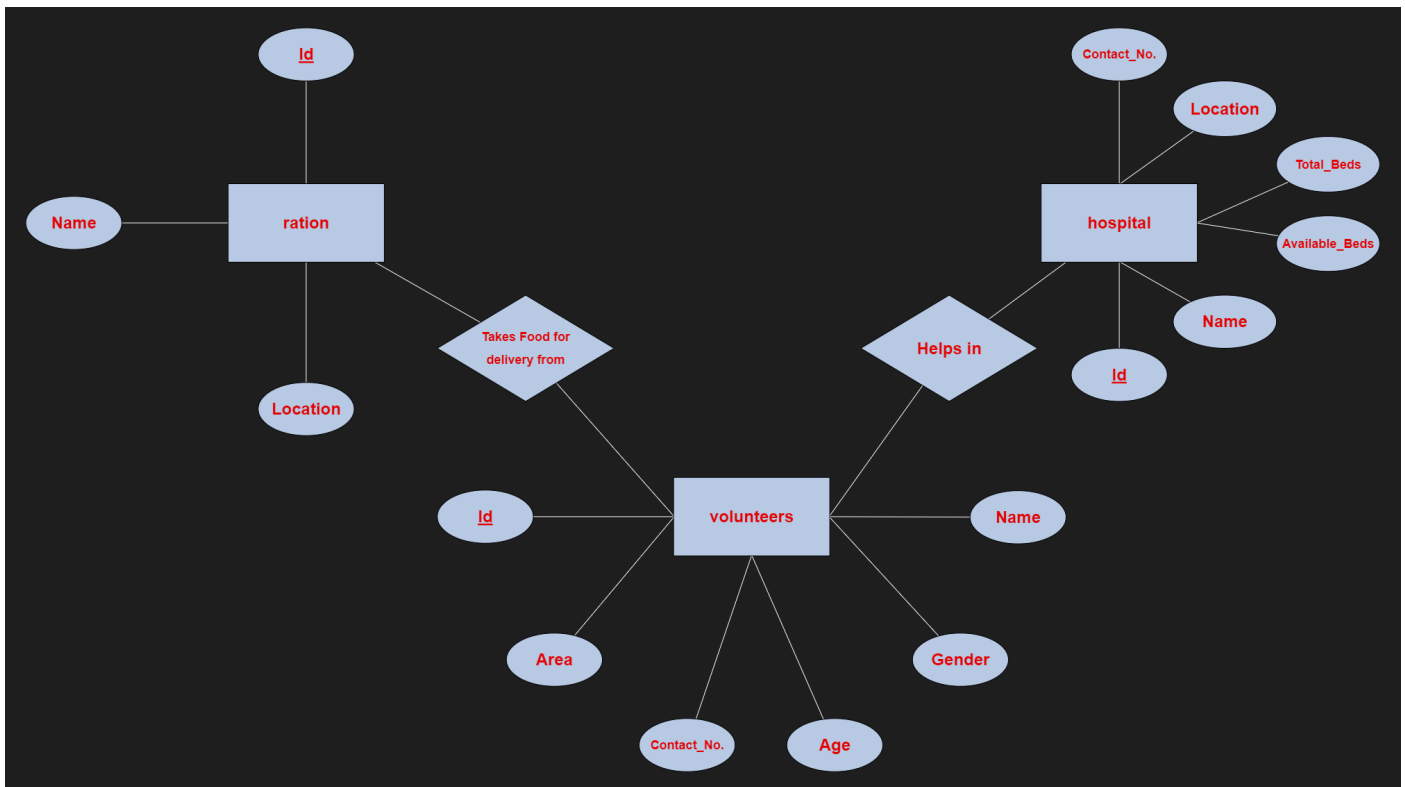
30th October 2022

## 1 Overview of the Project

Our Project **Disaster-Management-System** is built to help people getting access to *Hospitals, food, Volunteer* and Emergency Contact no. in a particular region. In this project we have focused on making the information for ‘total beds’ and ‘available beds’ in a particular hospital be available to the victim of Disaster, so that the time of the patient/victim is saved. He/She can directly go to the hospital which has empty bed, instead of searching for beds in every hospitals. The information of Ration centres is also available which is very useful to get food supplies during any disaster. People can also register themselves as volunteers to help others during the disaster, also people can contact volunteers to get help. The admin can add, edit, delete the details of hospitals and ration centres.

## 2 E-R Model

We came up with the following E-R model for our Disaster Management System.



A brief explanation of each entity is as follows:

### 3 Views and Users

Our system has two views, one for a site visiting user which can see the list of hospitals, ration centre, volunteers and their details.

A user can also register his/herself as a volunteer to provide service during pandemic.

Another view is for Admin who can add, edit delete the details of Hospitals, ration centre. Hence, our system has two kind of users, one is Admin and the other are the people who wants the service during disasters.

#### Hospital

The *hospital* entity has the hospitals which are registered on the system and are operational during the disaster. The attributes of the hospitals include *Id*, *Name*, *Available\_Beds*, *Total\_Beds*, *Location*, *Contact\_No*.. The victims of Disasters can thus watch out for the hospitals which has available beds and books a bed for their treatment in that hospital via *contact\_no* or directly visiting the hospital using the given location.

#### Ration

The *ration* entity has details of the shops, centres from where food resources are distributed during the Disaster, the attributes of the ration includes *Id*, *Name*, *Location*. People can go to the ration shops, centres for food during Disasters.

#### Volunteers

The *volunteers* entity has attributes such as *Id*, *Area*, *Contact\_no*., *Age*, *Gender*, *Name* of the volunteers. People who need help can contact the volunteers, also people who want to help others can get themselves registered as volunteers.

### 4 Integrity Constraints

1. For the entity set **hospital**, the primary key is *Id*, hence the Id attribute will distinguish two hospitals.
2. For the entity set **ration**, the primary key is *Id*, hence this attribute will differentiate two entities in the ration table.
3. For the entity set **volunteer**, the primary key is *Id*, hence the Id attribute will distinguish two volunteers in the entity set.

### 5 Relational Database Design

#### Hospital:

```
create table hospital(  
  Id numeric(5,0) NOT NULL,  
  Name varchar(50),  
  Available_Beds numeric(5,0),  
  Total_Beds numeric(5,0),  
  Location varchar(200),  
  Contact_No numeric(10,0),  
  Primary Key (Id)  
);
```

#### Ration:

```
create table ration(  
  Id numeric(5,0) NOT NULL,  
  Name varchar(50),  
  Location varchar(200),  
  Primary Key (Id)  
);
```

#### Volunteer

```
create table volunteer(  
  Id numeric(5,0) NOT NULL,  
  Name varchar(50),
```

```
Age numeric(2,0) check (Age > 18),
Gender varchar(10),
Contact_No varchar(20),
Area varchar(50),
Primary Key (Id)
);
```

## 6 Languages and Technologies used

We have used the following technologies:

1. Java
2. JDBC
3. J2EE
4. MySQL
5. CSS
6. Bootstrap
7. HTML
8. Apache Tomcat Server

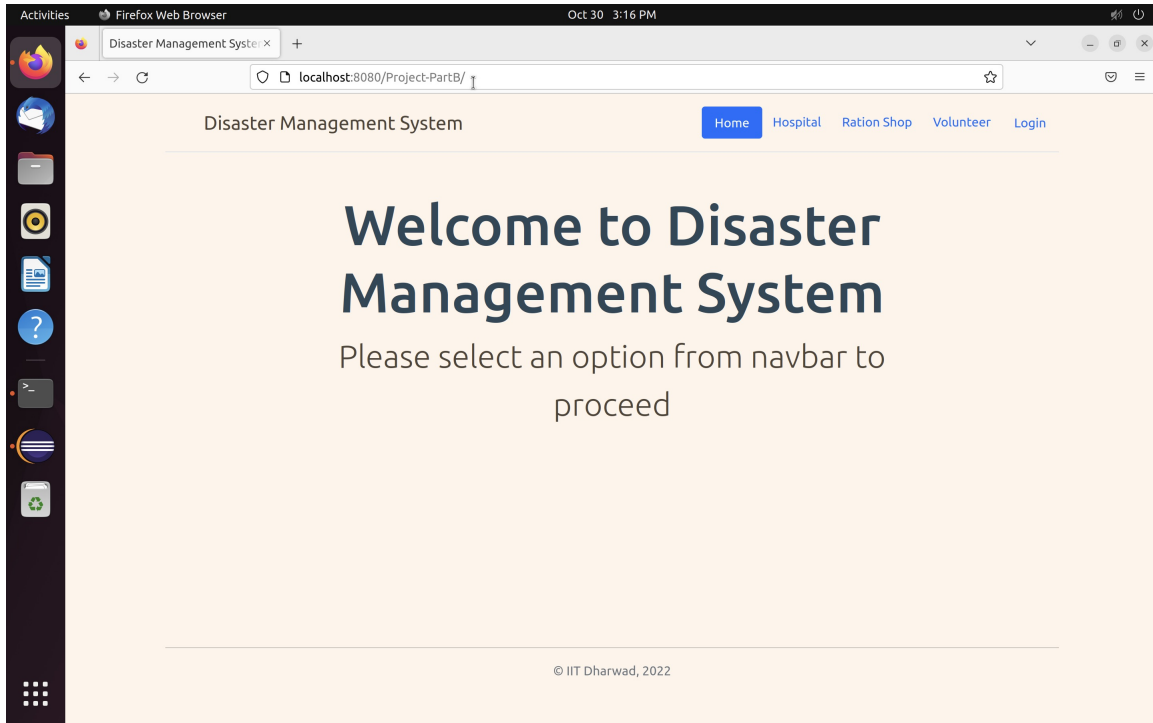
## 7 Interface Designs

We have used Bootstrap for creating the Navigation bar, which is used for Navigating between various pages, also the admin has to click on the **Login** button in the Navigation bar to login as an Admin and add the Hospitals, Ration centres in the database.

Whereas the users can Navigate between the Hospital and Ration Pages to see the information regarding the registered Hospitals and Ration centres on our Disaster Management System.

## 8 Workflow and Pages

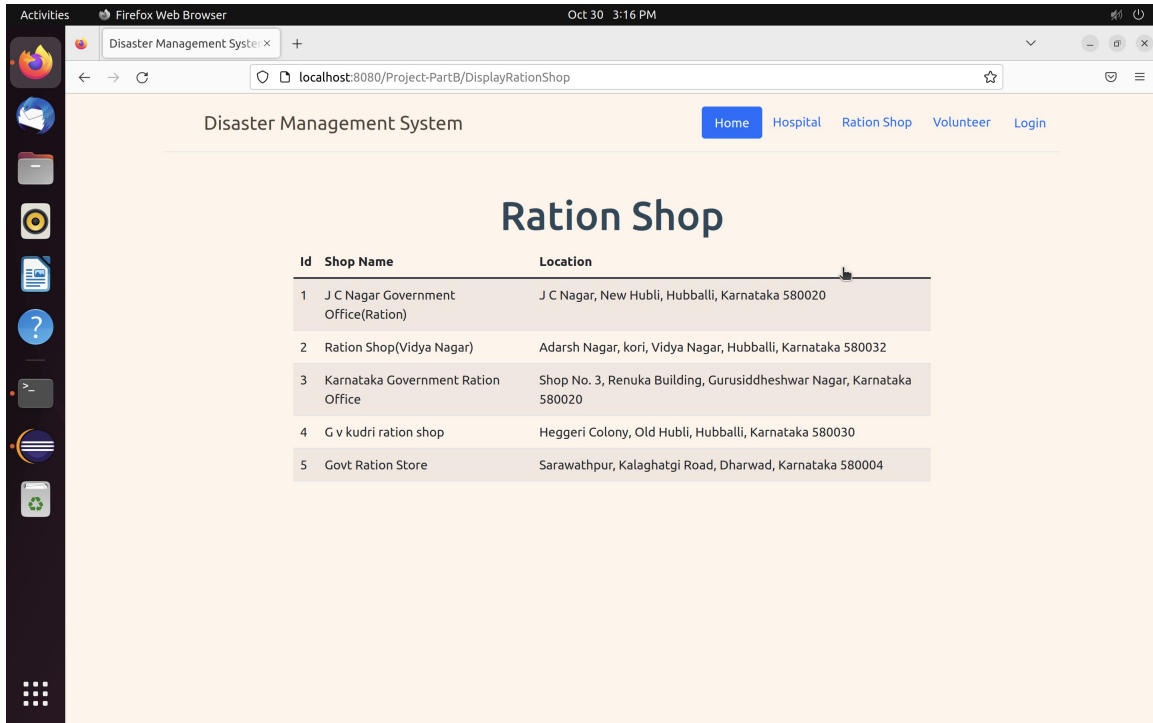
**Homepage** This is the first page that a user sees when he/she visits the website. The Navigation bar has option. All this functionalities are present in *Home.jsp* file.



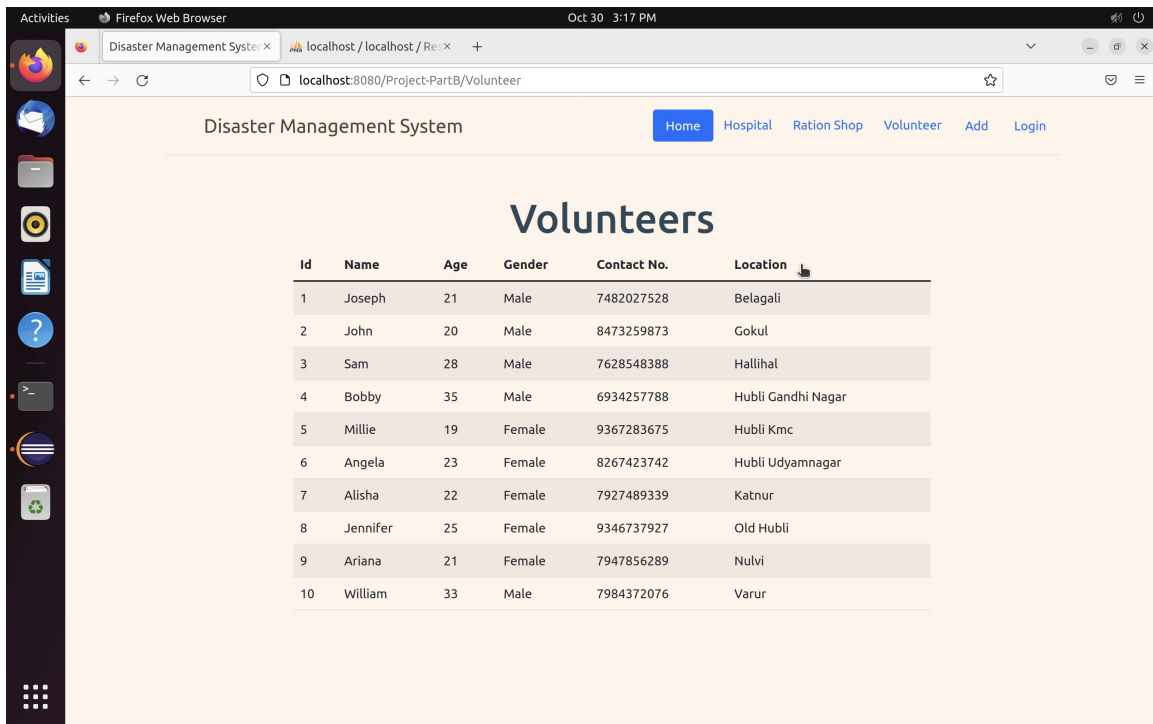
**Hospital** This page gives the list of Hospitals that are registered on our system, this view is available to every user that open the site, It also has certain information regarding every hospital.

Id	Hospital Name	Available Beds	Total Beds	Location	Contact No.
1	Spandana Hospital	55	120	41/2, Road, UB Hills, Saptapur, Dharwad, Karnataka 580008	8362771191
2	Shravya Hospital	69	150	Sadhankeri Road, near Government Printing Press, Dharwad, Karnataka 580008	8362443620
3	Shreya Hospital	45	130	NH 4 p.b road, opp new civil court, Dharwad, Karnataka 580008	8362443515
4	Bijapur Hospital	15	90	Karwar Rd, Opposite ESI Hospital, Heggeri Colony, Arvind Nagar, Hubballi, Karnataka 580024	8362305459
5	Pandurangi Hospital	25	80	Michgan Compound Ground Rd, Saptapur, Dharwad, Karnataka 580001	8362776158
6	KLE Suchirayu Hospital	30	120	Gokul Road, KRTSC Bus Depot, Kallur Layout, Hubballi, Karnataka 580030	8362239000
7	Vivekananda General Hospital	45	160	Backside Chadda Showroom, Deshpande Nagar, Hubballi, Karnataka 580029	8362251002
8	Central Railway Hospital	78	100	South Western Railways, Gadag Road, Hubballi, Karnataka 580020	8362363472

**Ration Shop** This page gives the list of Ration shops that are registered on our system, this view is available to every user that open the site, It also has certain information regarding every ration shops.



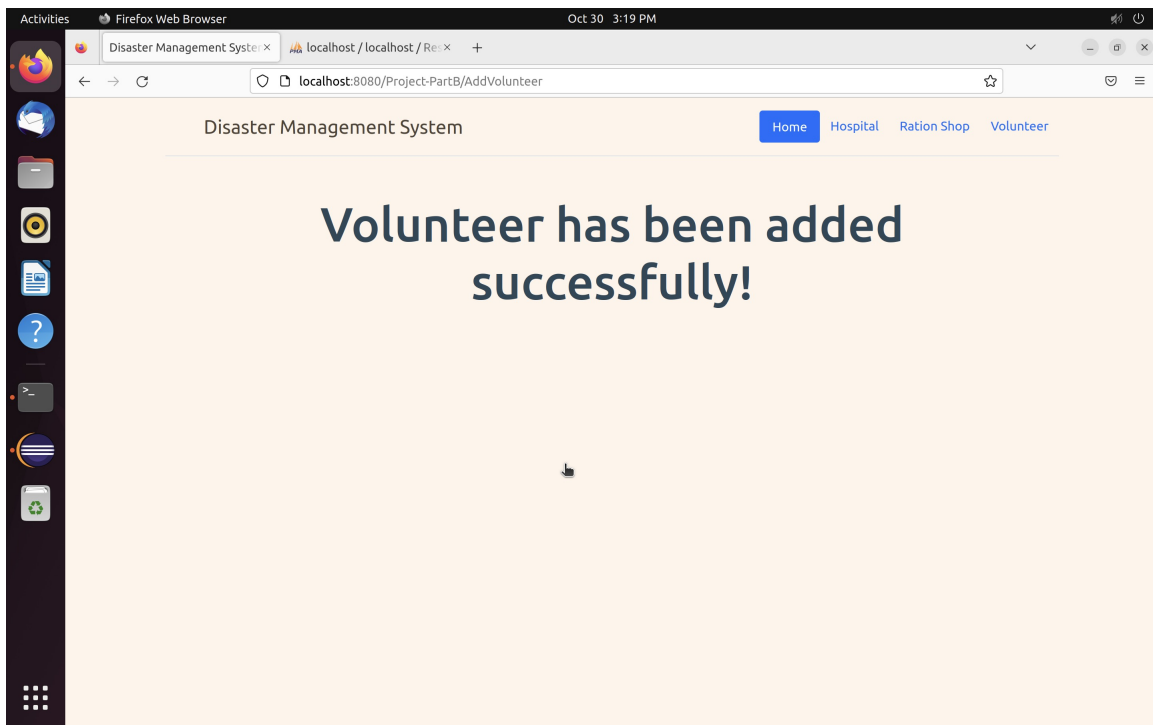
**Volunteers** This page gives the list of volunteers that are registered on our system, this view is available to every user that open the site, It also allows every user to get themselves register as volunteers if they wish to help others.



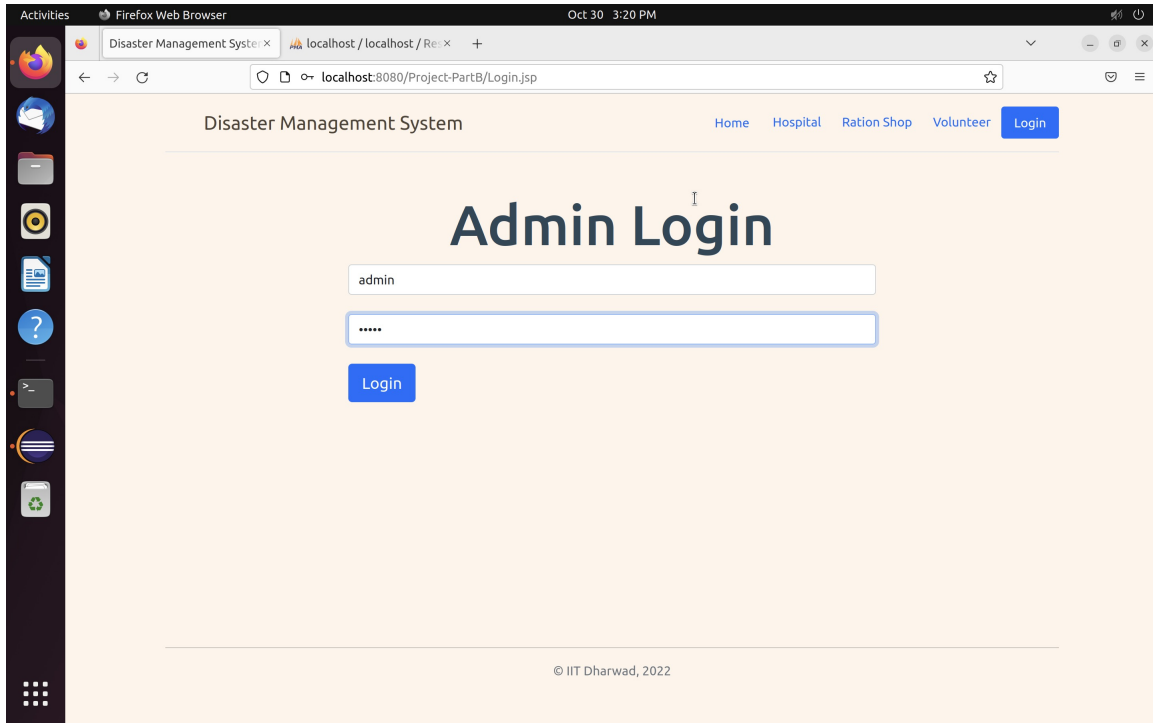
**Volunteer Registration Form** If a person wants him/herself registered as a volunteer he/she can register using this form.

The screenshot shows a web browser window with the title "Disaster Management System". The address bar shows "localhost:8080/Project-PartB/AddVolunteer.jsp". The page has a navigation bar with links: Home, Hospital, Ration Shop, Volunteer, and Login. The main content area is titled "Volunteer Registration Form" and includes the instruction "Please fill the form to proceed". The form contains the following fields: Id, Name, Age, Gender, Area, and Contact Number. Each field is represented by a text input box with a small icon on the right side.

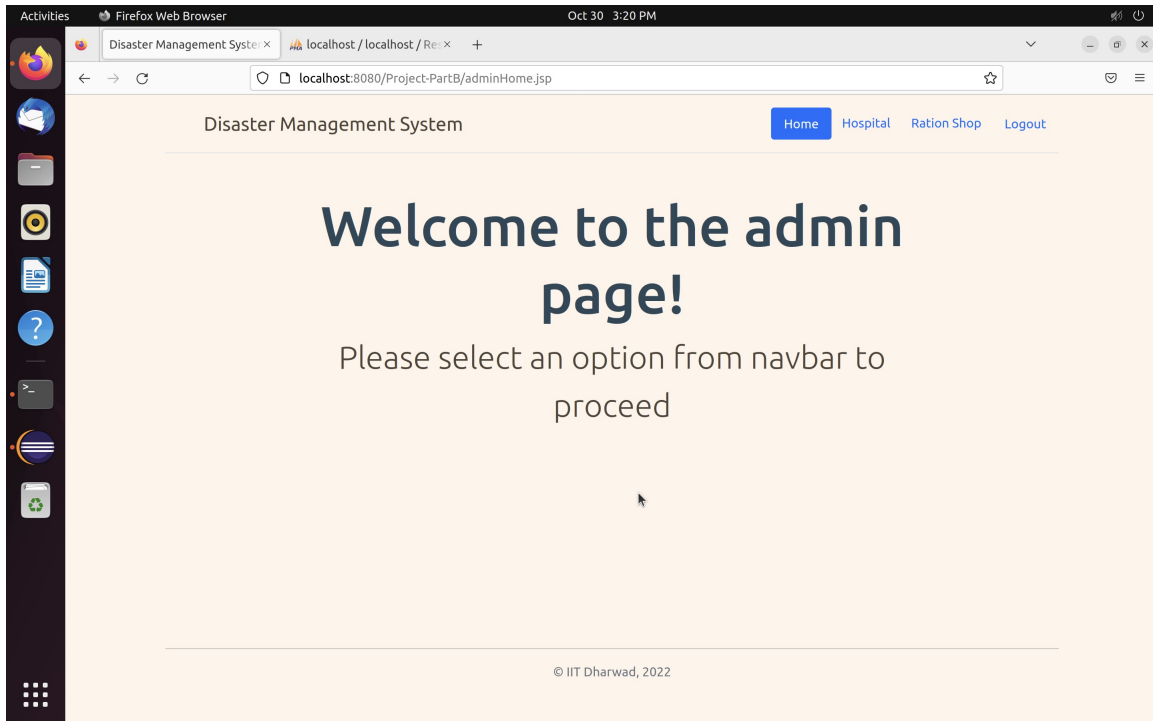
**Success message for volunteer registration** If the person fills every detail correctly in Volunteer registration form then this page is shown.



**Admin Login** This page is for Admin log in, the Admin has access to add, edit and delete the Hospitals, ration shops.



**Admin Home Page** Once the admin signs in with correct credentials, this page is shown up.



**Admin Hospitals** Hospital view for Admin

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Disaster Management System

Home Hospital Ration Shop Add Logout

## Hospitals

Id	Hospital Name	Available Beds	Total Beds	Location	Contact No.	Delete
1	Spandana Hospital	55	120	41/2, Road, UB Hills, Saptapur, Dharwad, Karnataka 580008	8362771191	Delete
2	Shravya Hospital	69	150	Sadhankeri Road, near Government Printing Press, Dharwad, Karnataka 580008	8362443620	Delete
3	Shreya Hospital	45	130	NH 4 p.b road, opp new civil court, Dharwad, Karnataka 580008	8362443515	Delete
4	Bijapur Hospital	15	90	Karwar Rd, Opposite ESI Hospital, Heggeri Colony, Arvind Nagar, Hubballi, Karnataka 580024	8362305459	Delete
5	Pandurangi Hospital	25	80	Michgan Compound Ground Rd, Saptapur, Dharwad, Karnataka 580001	8362776158	Delete
6	KLE Suchirayu Hospital	30	120	Gokul Road, KRTSC Bus Depot, Kallur Layout, Hubballi, Karnataka 580030	8362239000	Delete
7	Vivekananda	45	160	Backside Chadda Showroom,	8362251002	Delete

**Hospital Registration Form** The Admin has the access to register a new Hospital using this form.

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Hospital Registration

Disaster Management System

Home Hospital Ration Shop Logout

## Hospital Registration Form

Please fill the form to proceed

Hospital Id

Hospital Name

Available Beds

Total Beds

Location

Contact Number

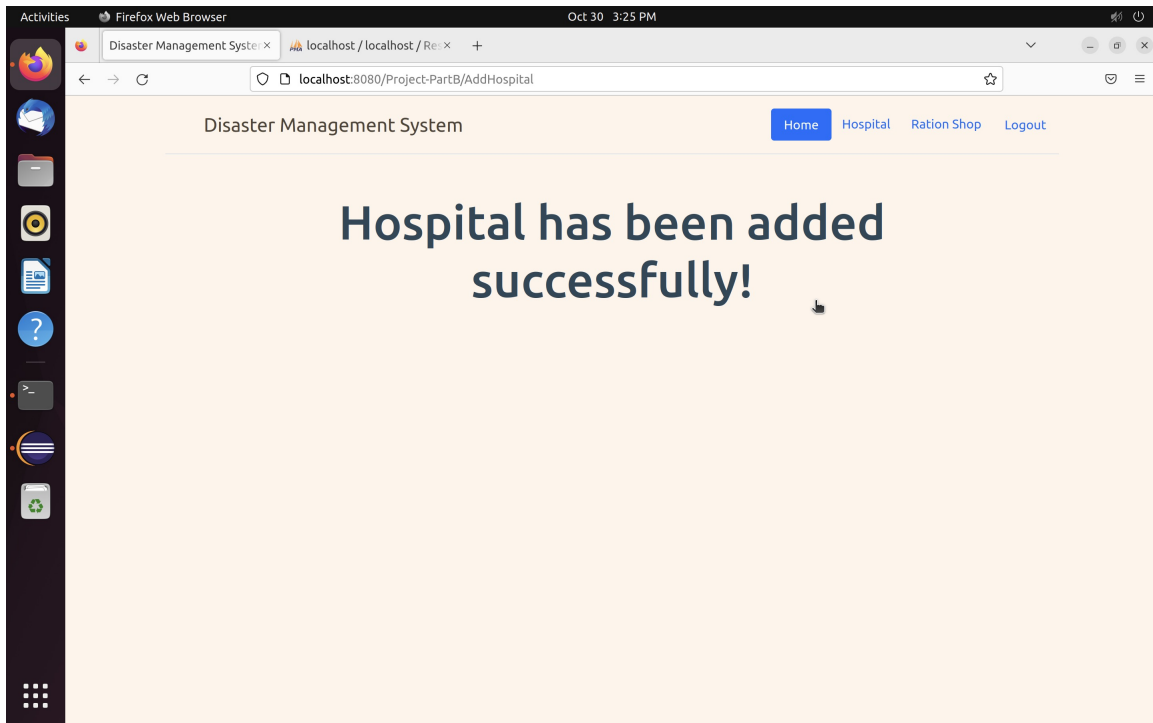


The screenshot shows a web browser window with the title "Disaster Management System". The address bar shows "localhost:8080/Project-PartB/AddHospital.jsp". The page has a navigation bar with links: "Home", "Hospital", "Ration Shop", and "Logout". The main content area is titled "Hospital Registration Form" with the instruction "Please fill the form to proceed". The form contains the following fields:

- Hospital Id: 210
- Hospital Name: Sancheti Hospital
- Available Beds: 25
- Total Beds: 75
- Location: Belur, Dharwad, Karnataka
- Contact Number: 8899775566

A "Submit" button is located at the bottom of the form.

**Hospital Addition successful page** This page is shown once the hospital is added successfully in the database.



**Updated Hospital List** New Hospital is added in the list.

ID	Hospital Name	Capacity	Beds	Location	Phone Number	Action
8	Central Railway Hospital	78	100	South Western Railways, Gadag Road, Hubballi, Karnataka 580020	8362363472	Delete
9	SeCURE Hospital	7	135	Gokul Road, beside new bus stand, Dollars colony, Chaitanya Nagar, Rajendar Nagar, Hubballi, Karnataka 580030	8364252020	Delete
10	SDM Hospital	48	220	Manjushree Nagar, Sattur Colony, Karnataka 580009	8364252020	Delete
11	Kalghatgi Hospital	32	65	Chitaguppi Park, Pinto Rd, near Central Telegraph Office, Hubballi, Karnataka 580020	8362228334	Delete
12	Hebsur Hospital	16	75	Narayan, Deshpande Nagar, Hubballi, Karnataka 580029	8362355699	Delete
13	Tatwadarsha Hospital	26	85	Gokul Rd, Shreya Nagar, Industrial Estate, Hubballi, Karnataka 580030	836223444	Delete
14	Konnur Hospital	7	65	Fort Rd, Diddi Oni, Old Hubli, Hubballi, Karnataka 580024	9449004650	Delete
15	Moon Maternity	12	40	Akshay Plaza, Akshay Colony, 4th Phase, Vidya Nagar, near Chetana College, Hubballi, Karnataka 580021	8364850077	Delete
210	Sancheti Hospital	25	75	Belur, Dharwad, Karnataka	8899775566	Delete

**Admin Ration Ration Shops view for Admin.**

Disaster Management System

Home Hospital Ration Shop Add Logout

## Ration Shops

Id	Shop Name	Location	Delete
1	J C Nagar Government Office(Ration)	J C Nagar, New Hubli, Hubballi, Karnataka 580020	Delete
2	Ration Shop(Vidya Nagar)	Adarsh Nagar, kori, Vidya Nagar, Hubballi, Karnataka 580032	Delete
3	Karnataka Government Ration Office	Shop No. 3, Renuka Building, Gurusiddheshwar Nagar, Karnataka 580020	Delete
4	G v kudri ration shop	Heggeri Colony, Old Hubli, Hubballi, Karnataka 580030	Delete
5	Govt Ration Store	Sarawathpur, Kalaghatgi Road, Dharwad, Karnataka 580004	Delete

**Ration Shop Registration Form** The Admin has the access to register a new Ration shop using this form.

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localhost:8080/Project-PartB/AddShop.jsp

Disaster Management System Home Hospital Ration Shop Logout

## Shop Registration Form

Please fill the form to proceed

Shop Id

Shop Name

Location

Submit

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localhost:8080/Project-PartB/AddShop.jsp

Disaster Management System Home Hospital Ration Shop Logout

## Shop Registration Form

Please fill the form to proceed

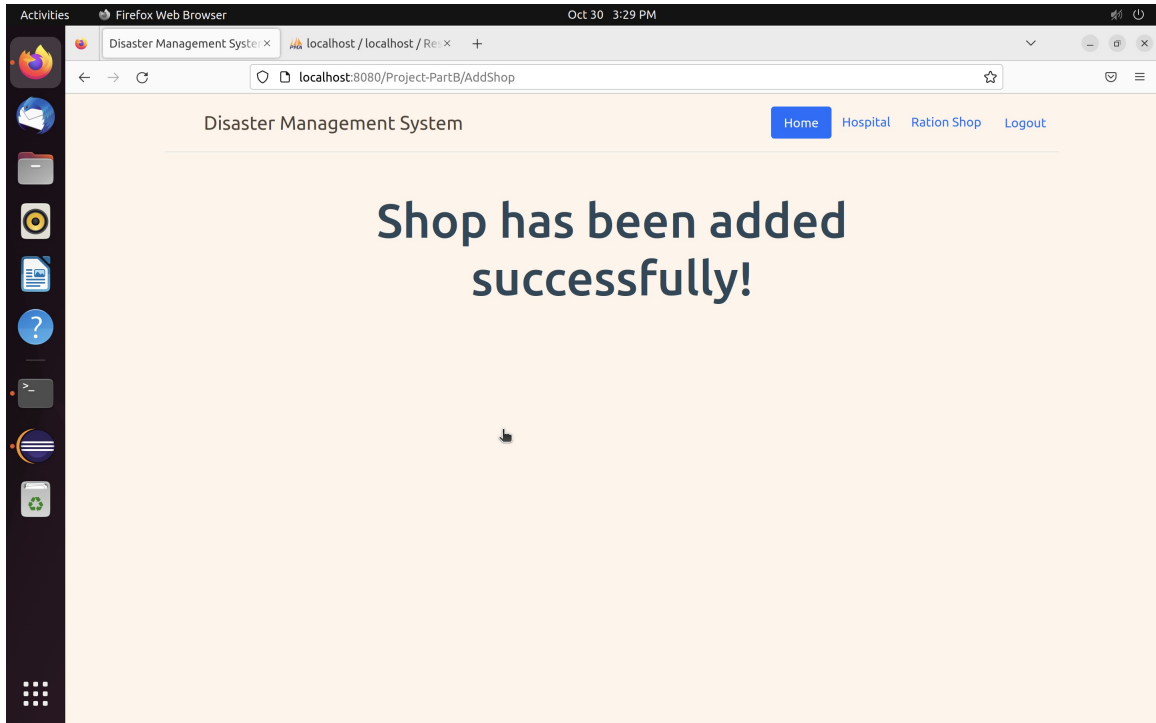
Shop Id

Shop Name

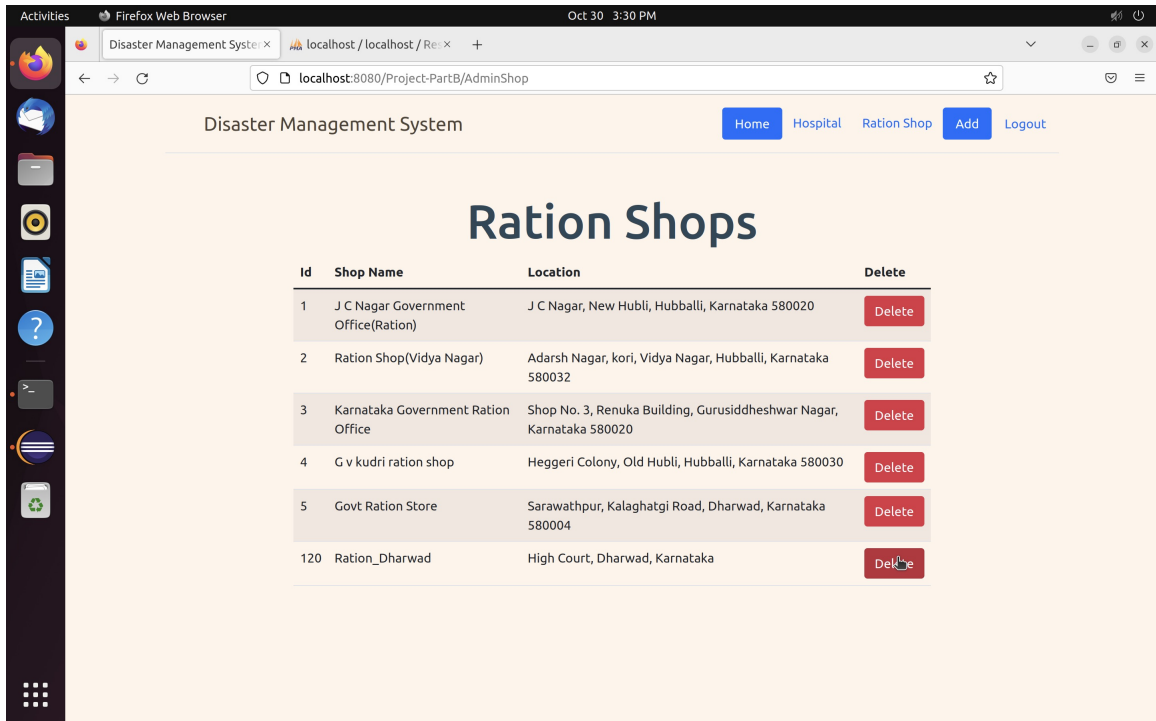
Location

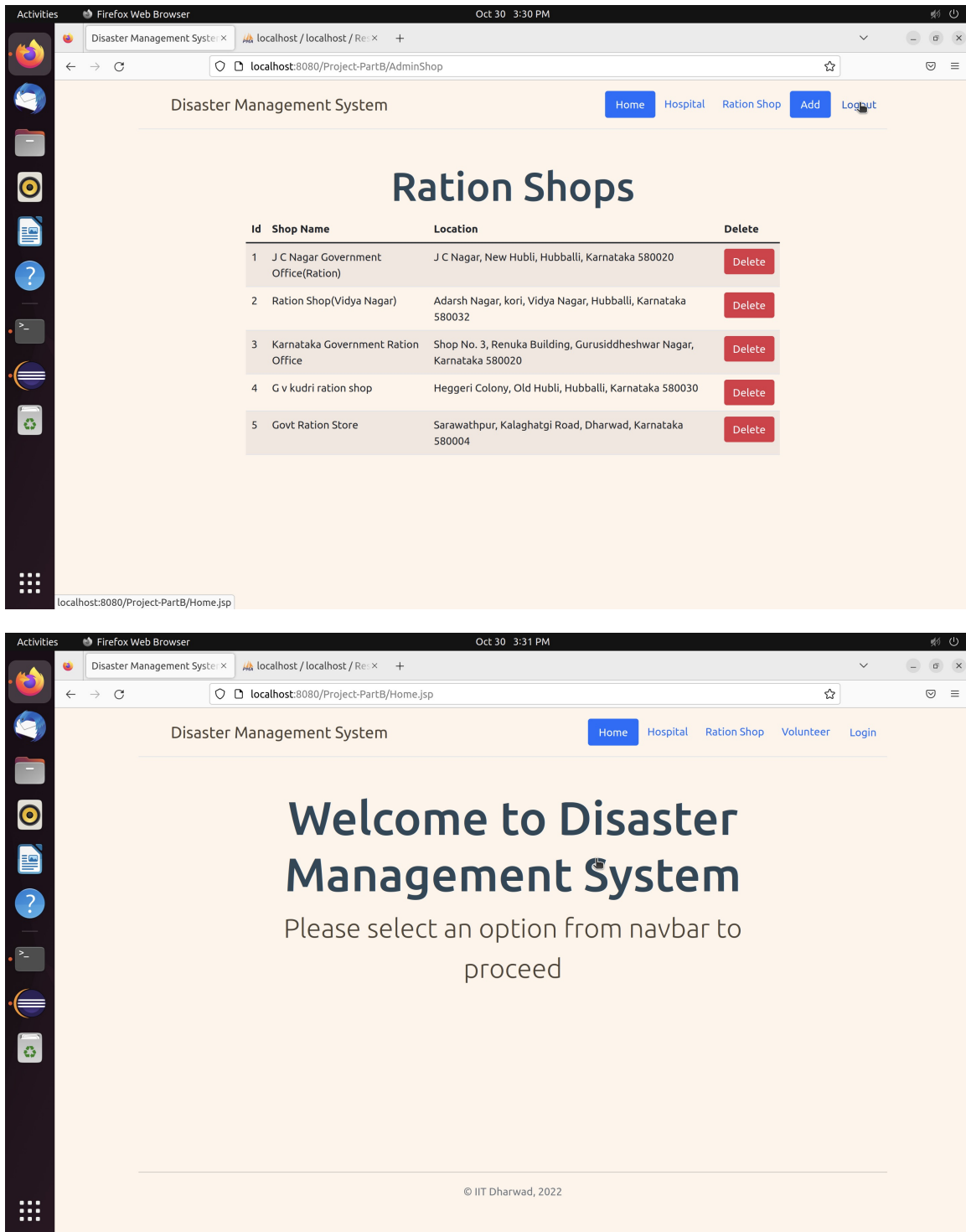
Submit

**Ration Shop Addition successful page** This page is shown once the Ration shop is added successfully in the database.



**Deletion in the Ration Shop list** The existing Ration Shop is deleted by clicking on the delete button.





## 9 Conclusion

The project gave us very good experience working with **J2EE** and gave us a glimpse of what can be created using the frameworks taught to us in this course.

Hands on experience was given with **J2EE**, **JDBC**, **Java**, **MySQL**, **HTML**, **CSS**, and **Apache Tomcat Server** as well as with using all of these frameworks together to achieve various goals that could prove useful in design various website and software systems.