



**UNIVERSITI TEKNOLOGI MARA**

**CS240 BACHELOR OF INFORMATION TECHNOLOGY (HONS.)**

**CSC584 ENTERPRISE PROGRAMMING**

**GROUP: NBCS2404B**

**GROUP PROJECT**

**PROJECT TITLE: AIDCONNECT – E-COMMERCE DISASTER RELIEF  
PRODUCT DISTRIBUTION & COORDINATION SYSTEM**

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## **1.0 PROJECT OVERVIEW**

In recent years, the frequency and intensity of natural disasters such as floods, earthquakes, landslides, and fires have significantly increased. During such crises, timely distribution of relief supplies is crucial to minimizing suffering and loss. AidConnect is a web-based system designed to act as a centralized platform to coordinate and manage the distribution of disaster relief supplies. The platform enables the public to donate items, allows organizations to track donations, and provides a communication bridge between donors and relief agencies. By digitizing the donation process, AidConnect aims to eliminate common issues in traditional manual coordination, such as duplicated items, slow delivery, and lack of transparency.

### **1.1 Project Description**

AidConnect is a Java-based e-commerce platform that facilitates the donation, sale, and dispatch of essential supplies during disaster situations. The system enables user registration, product listing, donation tracking, and administrative control. It features a user-friendly interface that allows both individual donors and organization representatives to contribute to relief efforts by listing and monitoring the status of donations. At the same time, the admin side of the system can approve, update, or delete donations and manage supply dispatch operations. All components of the system are built using Java EE technologies and follow the MVC (Model-View-Controller) design pattern for maintainability and scalability.

### **1.2 Key Features**

- **Login and Session Management:** Allows users to securely log in and log out, maintaining their sessions throughout their use of the application.
- **User Registration with Validation:** Enables new users to sign up with proper validation to ensure accurate and complete information is entered.
- **CRUD Operations:** Supports creating, reading, updating, and deleting donation and dispatch records through an easy-to-use interface.
- **Dynamic Dashboard:** Provides an overview of donation status, product distribution, and user activities with simple visual summaries.

### **1.3 Purpose**

The purpose of AidConnect is to improve the efficiency and transparency of disaster relief operations by automating the coordination of donations and product dispatch. It reduces manual paperwork and communication delays, enabling quicker response times. Ultimately, AidConnect supports communities in need by providing a reliable platform for managing critical supplies during emergencies.

### **1.4 Technologies Used**

- Java Servlet: Handles user requests and controls the flow of the application.
- JavaServer Pages (JSP): Creates dynamic web pages for user interaction.
- JavaBeans: Represents the data and business logic within the application.
- JDBC (Java Database Connectivity): Connects the application to the database for storing and retrieving data.
- MySQL Database: Stores all user information, donation records, and dispatch details.
- Apache Tomcat: Runs the Java web application on the server.
- HTML/CSS: Builds and styles the web pages for a clear and user-friendly interface.

## **2.0 PROBLEM STATEMENT**

- Disaster relief efforts often suffer from inefficient coordination of donations and product distribution.
- Many organizations rely on manual record-keeping and communication, which causes delays and errors.
- Lack of a centralized system results in poor tracking of donations and inventory management.
- Critical supplies may not reach affected areas on time, reducing the effectiveness of relief efforts.
- Transparency and accountability are limited, leading to possible mismanagement of resources.
- There is a need for an easy-to-use platform that improves communication and streamlines donation and dispatch processes during disasters.

## **3.0 OBJECTIVES**

The main goal of AidConnect is to build a reliable and user-friendly web application that supports disaster relief efforts by simplifying donation management and product distribution. The system aims to improve communication, transparency, and efficiency during emergency situations.

### **3.1 Objectives**

- Enable secure user registration and login with session management.
- Allow users to perform CRUD operations on donation and dispatch records.
- Provide a dashboard for real-time monitoring of donations and relief product distribution.
- Enhance coordination between donors, volunteers, and administrators.
- Ensure data accuracy and security through proper database management.
- Follow MVC architecture for scalability and maintainability.

### **3.2 Features**

- User authentication (login/logout and registration).
- Donation and dispatch record management (add, edit, delete, view).
- Interactive dashboard displaying key information and statistics.
- Responsive and intuitive user interface.

### **3.3 Target Audience**

- Disaster relief organizations and administrators.
- Individual and corporate donors.
- Volunteers involved in product distribution.
- Community members seeking to contribute to disaster aid.

### **3.4 Expected Outcomes**

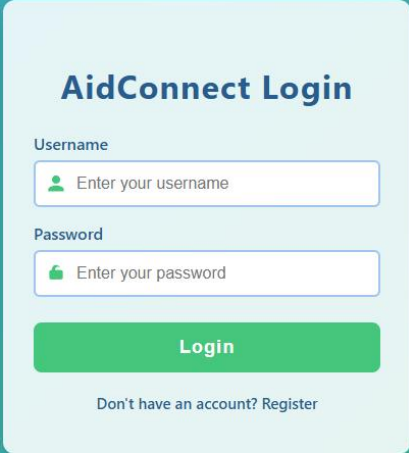
- Streamlined donation and distribution processes during disasters.
- Increased transparency and accountability in managing relief supplies.
- Faster response times due to improved coordination.
- Better record-keeping and real-time tracking of resources.

### **3.5 Future Improvements**

- Integration with mobile applications for easier access.
- Automated notifications for donation status and dispatch updates.
- Advanced reporting and analytics features.
- Multi-language support to cater to diverse users.

## 4.0 DESIGN / STORYBOARD / USER INTERFACE

1. Sign Up / Login Page: Secure access for users and admins.



The login form is centered on a teal gradient background. It features a light blue rounded rectangle with a shadow. The title 'AidConnect Login' is in bold blue text. Below it are two input fields: 'Username' with a person icon and 'Password' with a lock icon. A green 'Login' button is at the bottom, followed by a link 'Don't have an account? Register'.

**AidConnect Login**

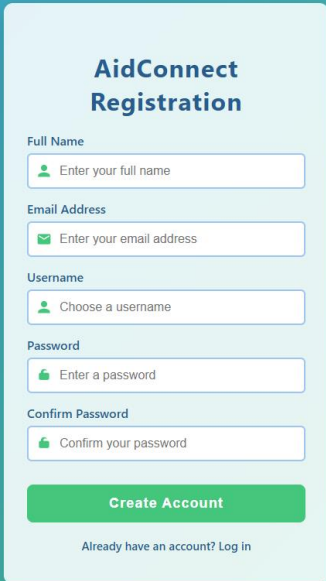
Username  
Enter your username

Password  
Enter your password

**Login**

[Don't have an account? Register](#)

2. Registration Page



The registration form is centered on a teal gradient background. It features a light blue rounded rectangle with a shadow. The title 'AidConnect Registration' is in bold blue text. Below it are five input fields: 'Full Name' (person icon), 'Email Address' (envelope icon), 'Username' (person icon), 'Password' (lock icon), and 'Confirm Password' (lock icon). A green 'Create Account' button is at the bottom, followed by a link 'Already have an account? Log in'.

**AidConnect Registration**

Full Name  
Enter your full name

Email Address  
Enter your email address

Username  
Choose a username

Password  
Enter a password

Confirm Password  
Confirm your password

**Create Account**

[Already have an account? Log in](#)



### 3. Donation Page: Submit and track donations.

[Back to Dashboard](#)

## Make a Donation

**Select Product**  

-- Select Product --

**Quantity**

**Donation Date**  

dd/mm/yyyy

Submit Donation

### 4. Dispatch Page: Manage supply distribution

[Back to Dashboard](#)

## Dispatch Relief Supplies

**Dispatch ID**  

e.g. D12345

**Related Donation**  

-- Select Donation --

**Destination**  

Relief center / shelter name

**Dispatched To**  

NGO, person in charge, etc.

**Status**  

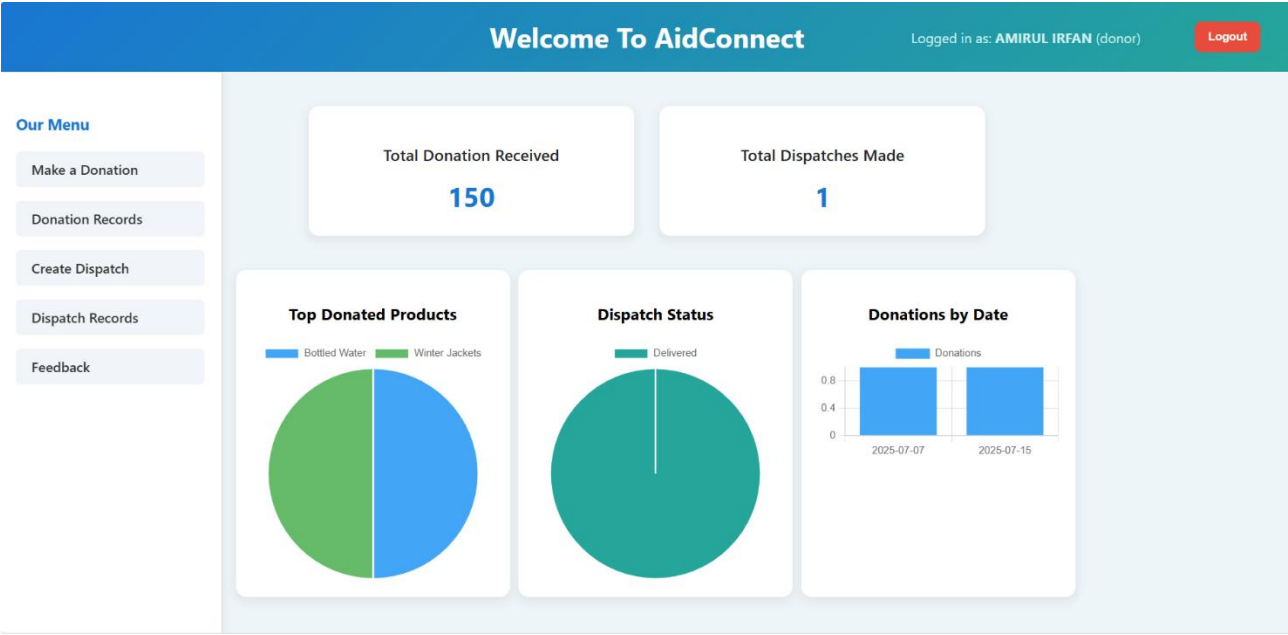
-- Select Status --

**Dispatch Date**  

dd/mm/yyyy

Submit Dispatch

5. **Dashboard Page:** Overview of donations, dispatches, and user activity.



## 7. View Dispatch Page

Dispatch Records						
Dispatch ID	Destination	Item	Quantity	Dispatch Date	Status	Actions
DP001	Kuala Krai	Blankets	50	2025-05-16	Dispatched	<a href="#">Edit</a> <a href="#">Delete</a>

## 8. Feedback Form

[Back to Dashboard](#)

## Feedback Form

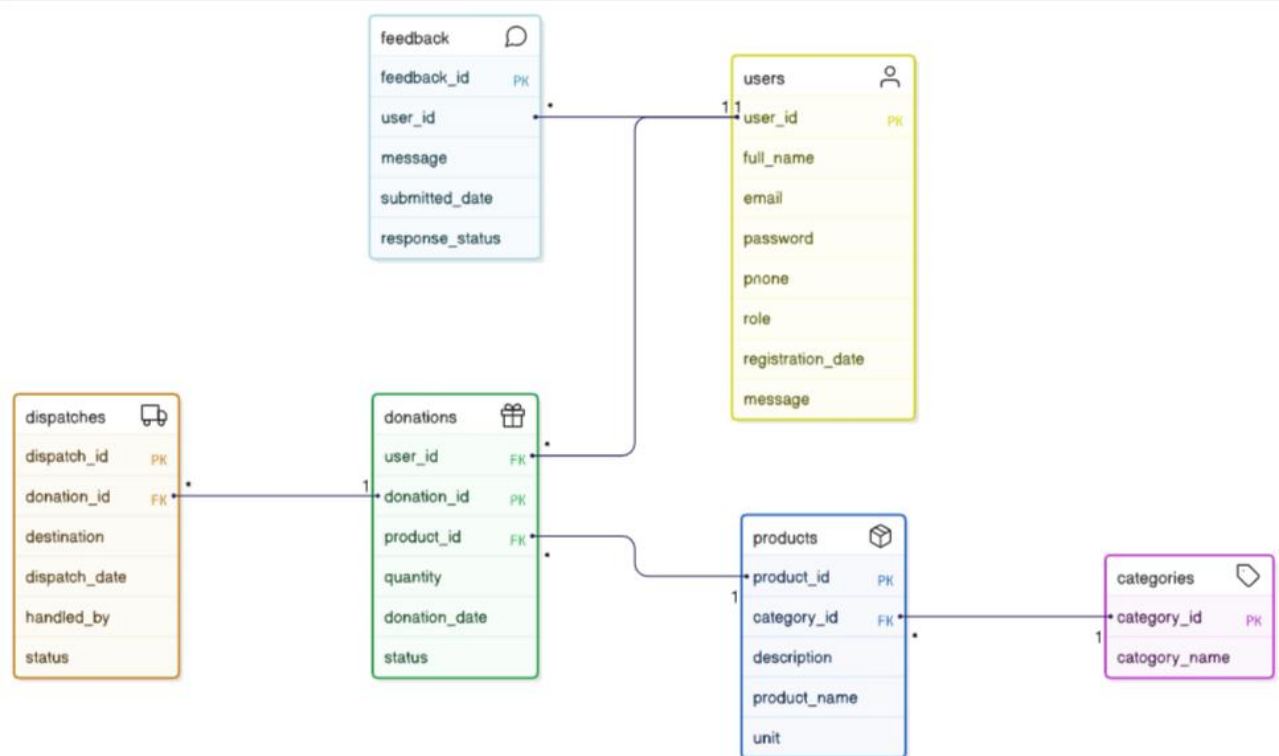
Hello **AMIRUL IRFAN**, we value your feedback!

### Your Feedback

[Submit Feedback](#)

## 5.0 DATABASE DESIGN

The AidConnect system consists of six main entities: **User**, **Donation**, **Product**, **Dispatch**, **Category**, and **Feedback**. Each User can make many Donations, and each Donation is linked to a specific Product. The Product belongs to a Category, such as food or medicine. When a donation is ready to be delivered, it is recorded in the Dispatch table, which connects back to the related Donation. Additionally, the system includes a Feedback module, allowing users to submit feedback or comments regarding their donation or delivery experience. This helps gather valuable insights to improve the effectiveness and transparency of disaster relief efforts. Overall, this structure helps manage donations, organize products, collect user feedback, and track where items are sent during a disaster.



### 5.1 Essential ERD Components of AidConnect

#### 1. User

- **Attributes:**
  - user\_id (Primary Key)
  - full\_name
  - email
  - password
  - phone
  - role (e.g., Donor, Organization, Admin)
  - registration\_date
- **Relationships:**
  - One user can create multiple Donations
  - One user can submit multiple Feedbacks

## 2. Donation

- **Attributes:**
  - donation\_id (Primary Key)
  - user\_id (Foreign Key)
  - product\_id (Foreign Key)
  - quantity
  - donation\_date
- **Relationships:**
  - Each donation belongs to one user
  - Each donation is for one product
  - Each donation may have one dispatch record

## 3. Product

- **Attributes:**
  - product\_id (Primary Key)
  - product\_name
  - description
  - unit (*e.g., kg, box, bottle*)
  - category\_id (Foreign Key)
- **Relationships:**
  - One product belongs to one category
  - One product can be linked to multiple donations

## 4. Category

- **Attributes:**
  - category\_id (Primary Key)
  - category\_name (*e.g., Food, Medicine, Water*)
- **Relationships:**
  - One category can contain multiple products

## 5. Dispatch

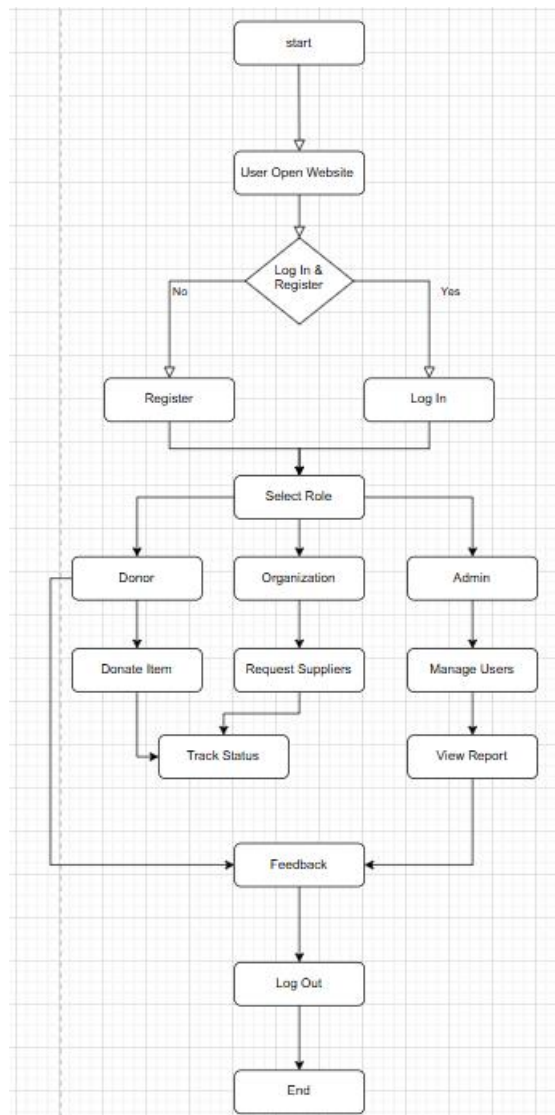
- **Attributes:**
  - dispatch\_id (Primary Key)
  - donation\_id (Foreign Key)
  - destination
  - dispatch\_date
  - handled\_by
  - status
- **Relationships:**
  - One dispatch is associated with one donation only

## 6. Feedback

- **Attributes:**
  - feedback\_id (Primary Key)
  - user\_id (Foreign Key)
  - message
  - feedback\_date
- **Relationships:**
  - One user can submit multiple feedbacks

## 6.0 FLOW OF APPLICATION

AidConnect is a Java-based e-commerce platform designed to streamline disaster relief efforts by centralizing the donation and distribution of essential supplies. The system begins with user authentication, directing donors, organizations, and administrators to role-specific dashboards where they can create, track, or manage donations and dispatches. Through features like real-time inventory tracking, CRUD operations, and automated coordination, AidConnect enhances transparency and efficiency in relief operations, ensuring timely aid delivery during emergencies. Built with Java EE technologies (Servlets, JSP, JDBC) and following MVC architecture, the platform bridges gaps between donors and relief agencies, replacing manual processes with a scalable digital solution.



## 7.0 User Manual

### Step by Step for Administration

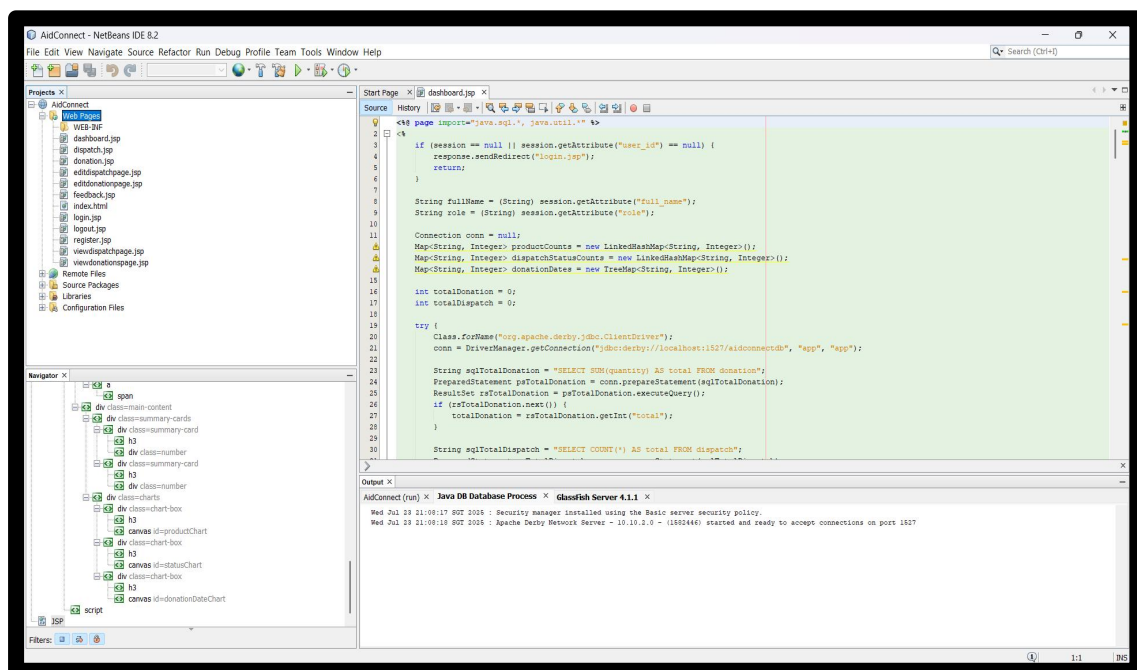
#### STEP 1 :

Open **NetBeans** IDE.



#### STEP 2 :

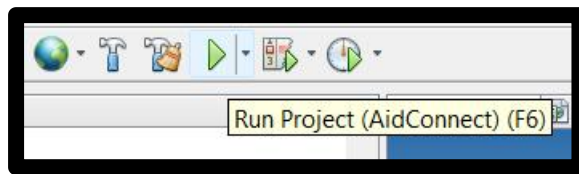
Make sure the **AidConnect** project file is opened in NetBeans IDE.





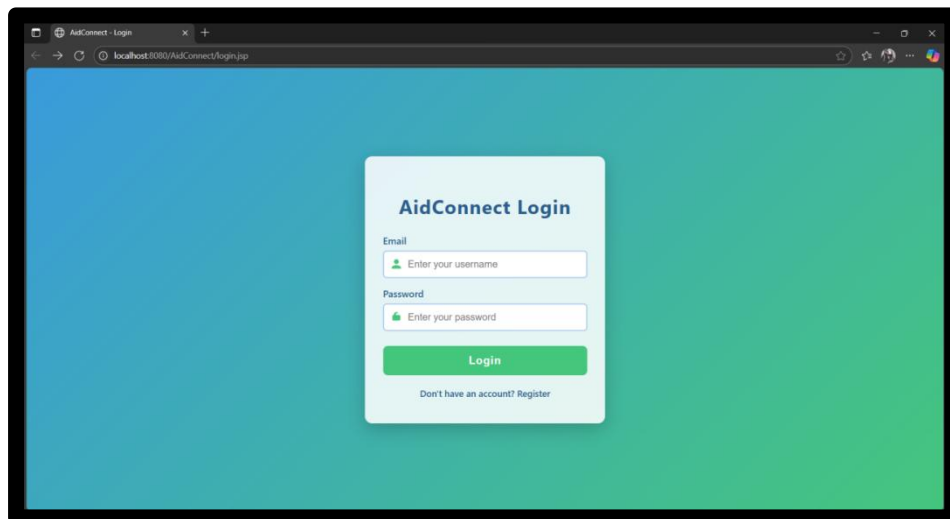
### STEP 3 :

Click the **Run Project** button.



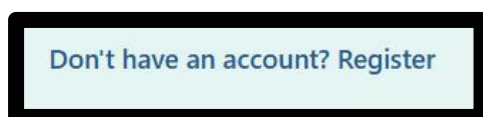
### STEP 4 :

Once the project runs successfully, it will open the **AidConnect Login Page**. If the user already has an account, enter your Email and Password to log in.



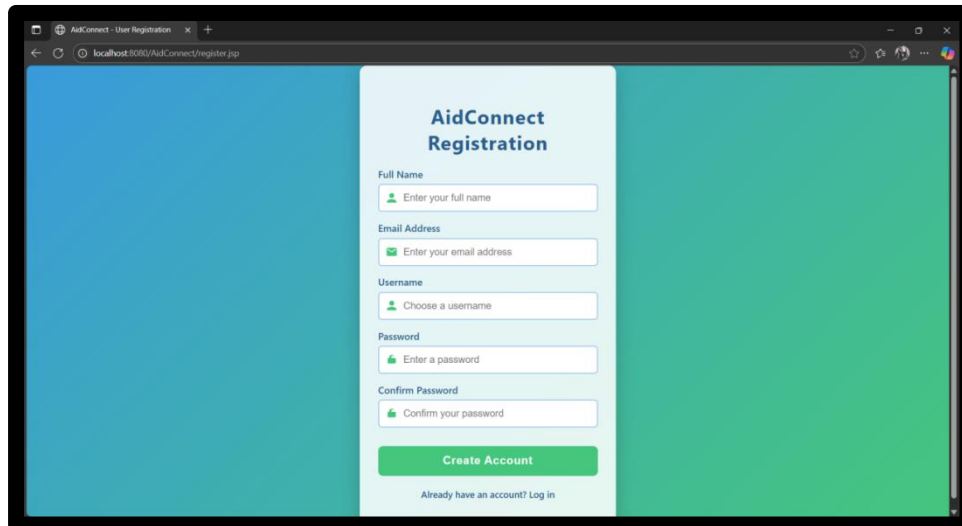
### STEP 5 :

If you do not have an account yet, you need to **Register** for an account first.



## STEP 6 :

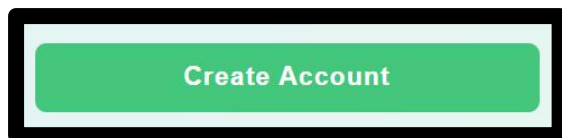
On the **AidConnect Registration Page**, the user must fill in their **Full Name**, **Email Address**, **Username**, **Password**, and **Confirm Password** as a verification step.



The screenshot shows a web browser window with the title "AidConnect - User Registration". The address bar shows "localhost:5050/AidConnect/register.jsp". The page has a light blue header with the "AidConnect Registration" title. Below the header, there are five input fields with green icons: "Full Name" (with a person icon), "Email Address" (with an envelope icon), "Username" (with a person icon), "Password" (with a lock icon), and "Confirm Password" (with a lock icon). Each field has a placeholder text: "Enter your full name", "Enter your email address", "Choose a username", "Enter a password", and "Confirm your password". Below these fields is a green "Create Account" button. At the bottom, there is a link that says "Already have an account? Log in".

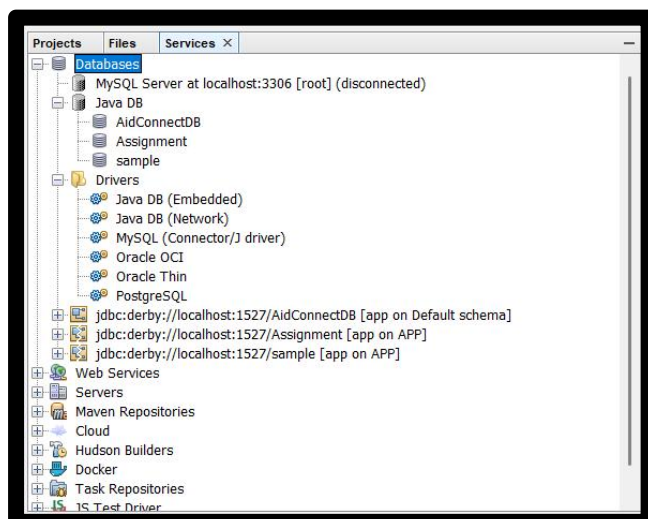
## STEP 7 :

Once all the information has been filled in, click the **"Create Account"** button.



## STEP 8 :

The user needs to open **NetBeans IDE** again and click on **"Services"**.

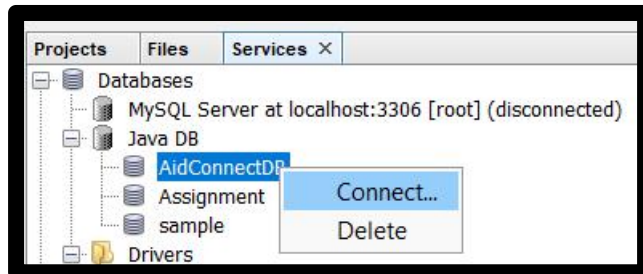


## STEP 9 :

In the "**Services**" section, navigate to:

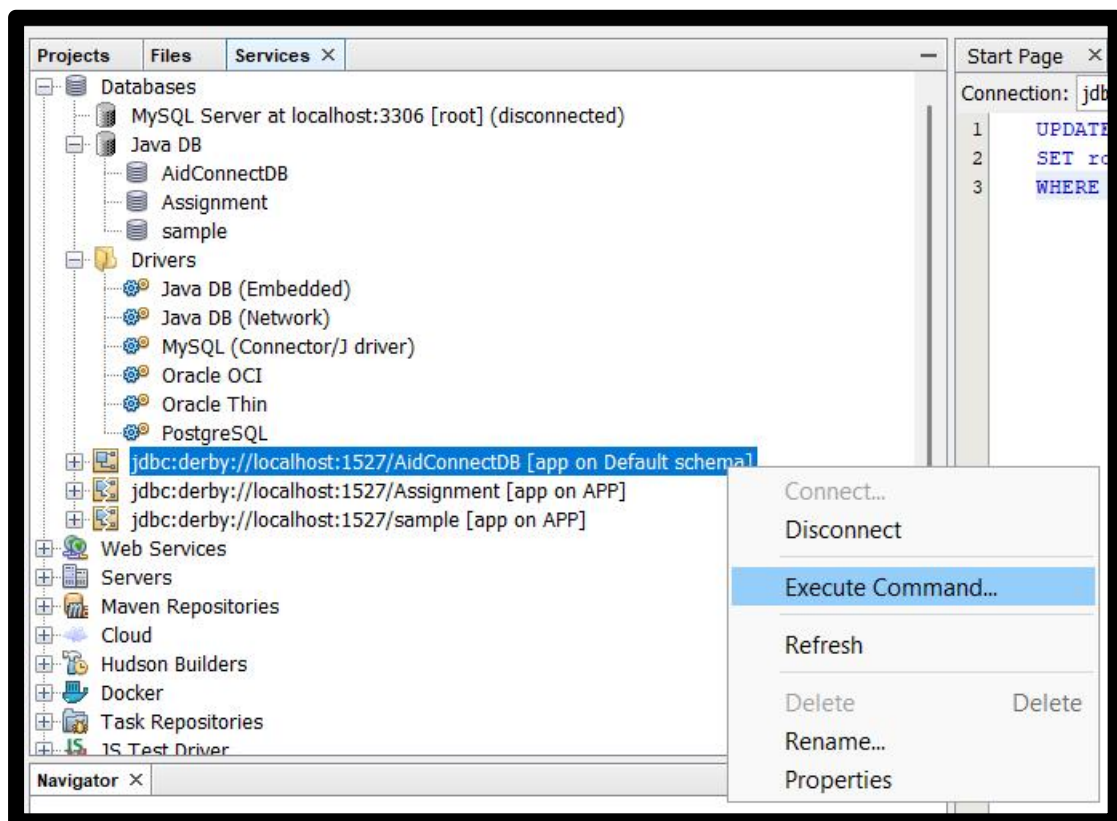
**Databases > Java DB > AidConnectDB**

Then, **right-click** on **AidConnectDB** and **select "Connect"**.



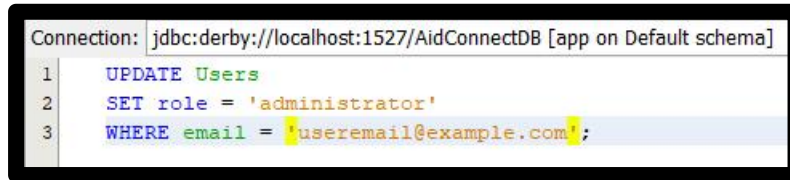
## STEP 10 :

Go to the section as shown in the display below, then **right-click** and select "**Execute Command**".



### STEP 11 :

The user needs to type the command as shown in the display.  
Enter the **same email used during registration** to assign the user as an **Admin**.

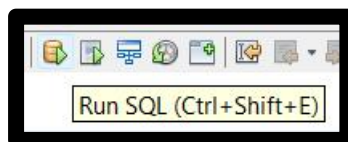


Connection: jdbc:derby://localhost:1527/AidConnectDB [app on Default schema]

```
1  UPDATE Users
2  SET role = 'administrator'
3  WHERE email = 'useremail@example.com';
```

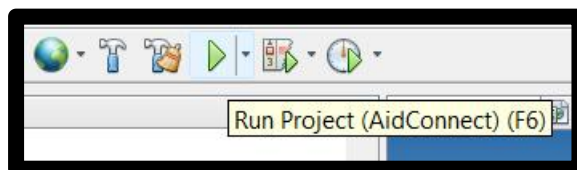
### STEP 13 :

Then, click "**Run SQL**".



### STEP 14 :

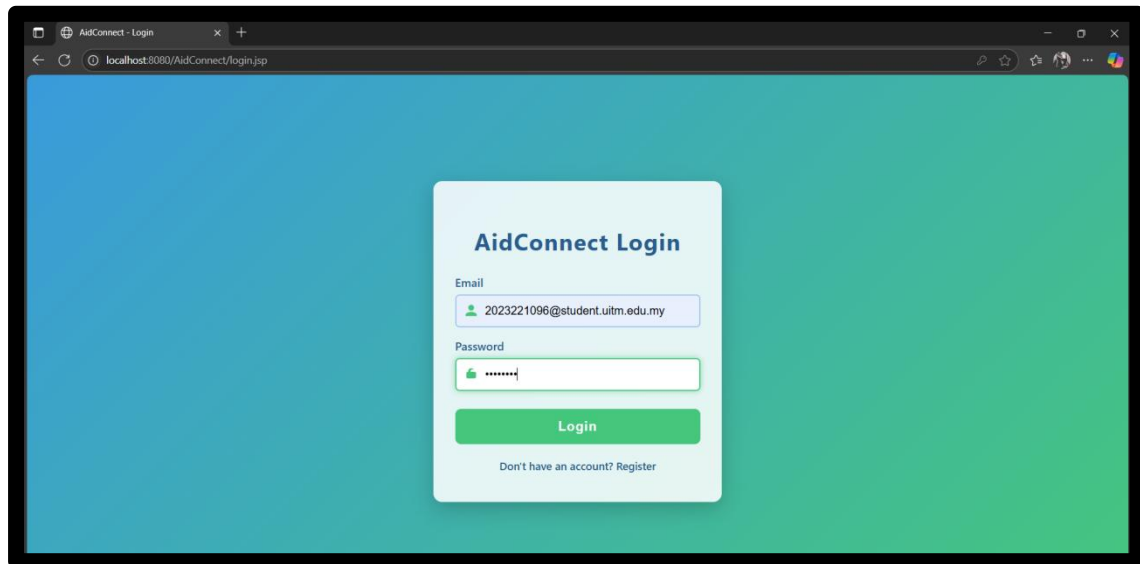
Then, click "**Run Project**".



## STEP 15 :

After returning to the **Login Page**, enter the **Email** and **Password** you registered with.

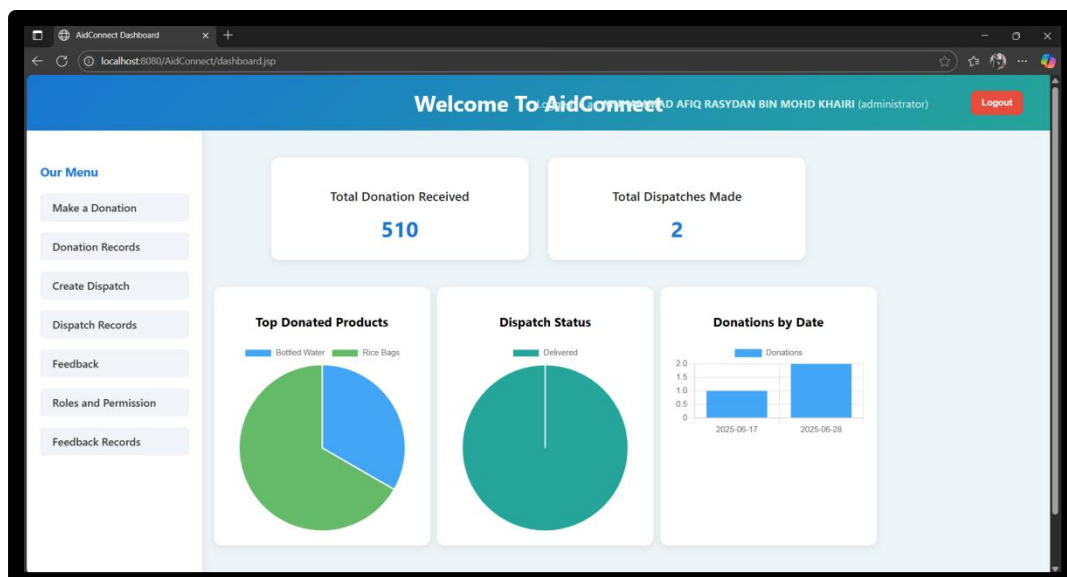
Then, click the "**Login**" button.



## STEP 16 :

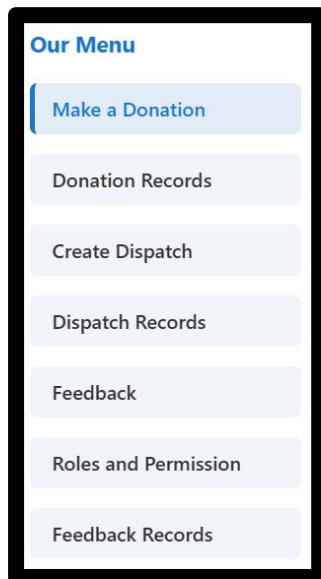
After logging in, the user will be directed to the **Main Dashboard** page. On this page, you can view the following information:

- i. **Total Donation Received**
- ii. **Total Dispatches Made**
- iii. **Top Donated Products**
- iv. **Dispatch Status**
- v. **Donations by Date**



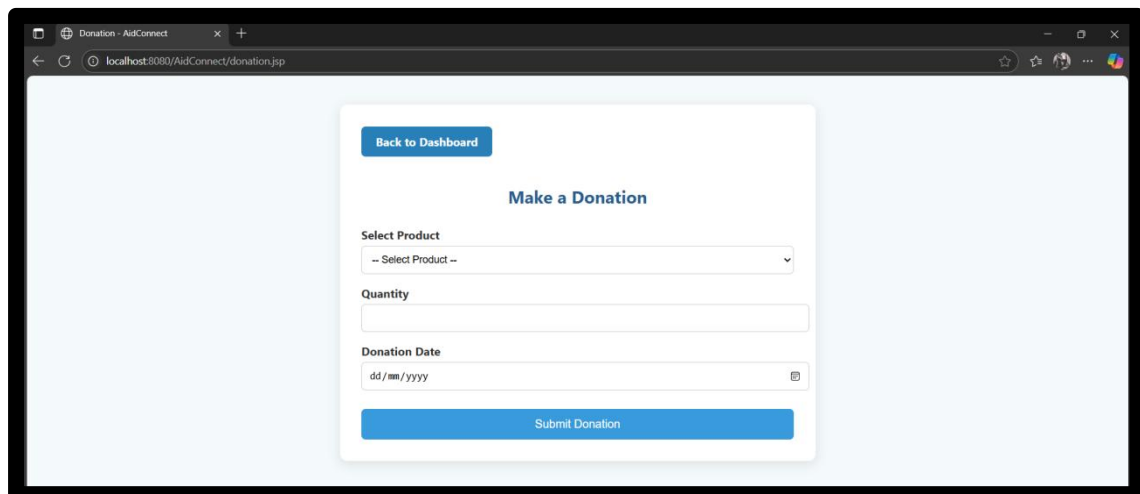
### STEP 17 :

To make a donation, the user needs to click the "**Make a Donation**" button on the Main Dashboard.



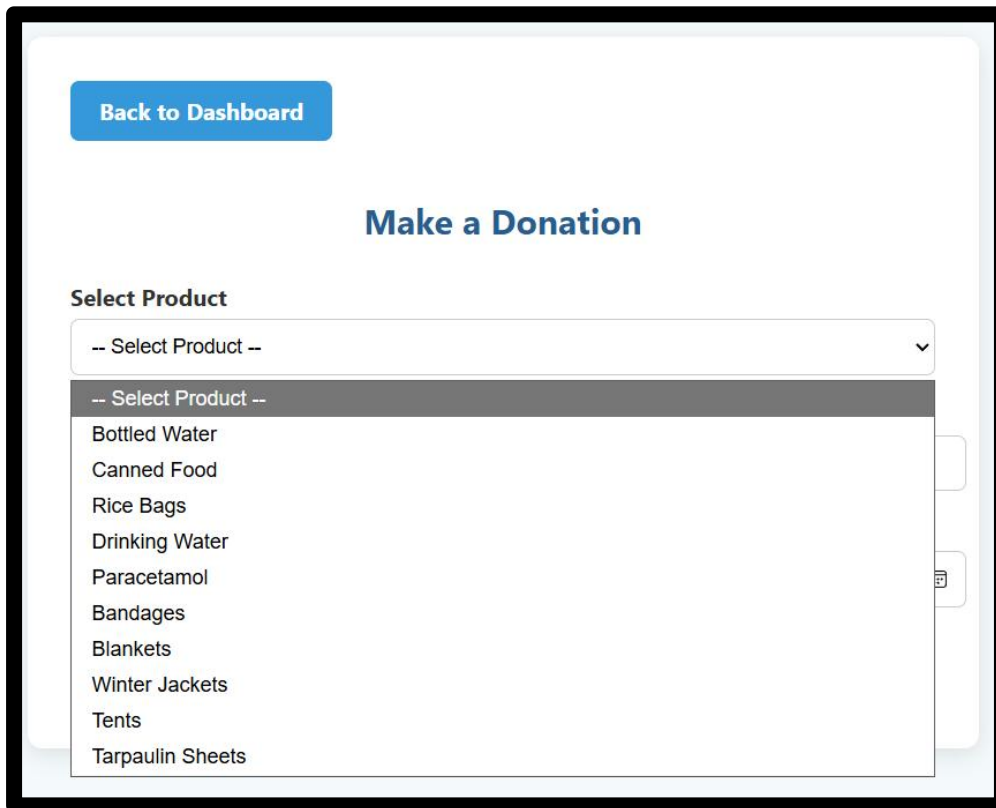
### STEP 18 :

After navigating to the "Make a Donation" page, **fill in all the required information.**

A screenshot of a web browser window showing the "Make a Donation" form. The browser's address bar displays "localhost:8080/AidConnect/donation.jsp". The form is titled "Make a Donation" and includes a "Back to Dashboard" button at the top left. The form fields are: "Select Product" (a dropdown menu with "-- Select Product --" selected), "Quantity" (a text input field), and "Donation Date" (a date picker showing "dd/mm/yyyy"). A blue "Submit Donation" button is located at the bottom of the form.

STEP 19 :

**Select a product** from the available options in the list.



The screenshot shows a web interface for making a donation. At the top left, there is a blue button labeled "Back to Dashboard". Below this, the heading "Make a Donation" is displayed in a bold, dark blue font. Underneath the heading, the text "Select Product" is followed by a dropdown menu. The dropdown menu is currently open, showing a list of product options. The first option in the list is "-- Select Product --", which is highlighted with a dark grey background. Below this, the following products are listed in a standard black font: Bottled Water, Canned Food, Rice Bags, Drinking Water, Paracetamol, Bandages, Blankets, Winter Jackets, Tents, and Tarpaulin Sheets. The entire form is enclosed in a light blue border with rounded corners.

[Back to Dashboard](#)

## Make a Donation

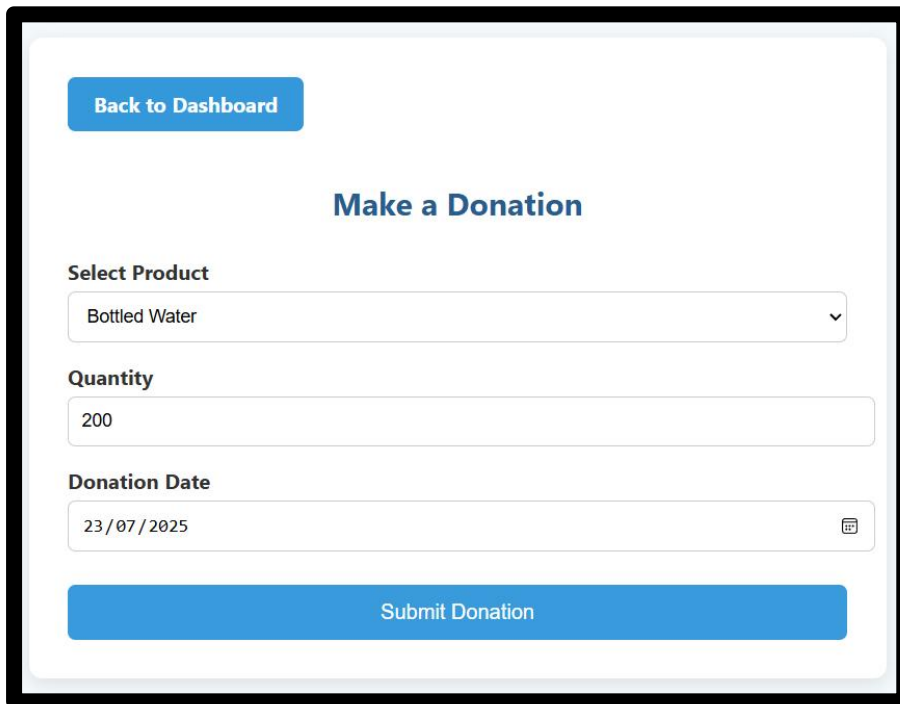
Select Product

-- Select Product --

- Select Product --
- Bottled Water
- Canned Food
- Rice Bags
- Drinking Water
- Paracetamol
- Bandages
- Blankets
- Winter Jackets
- Tents
- Tarpaulin Sheets

STEP 20 :

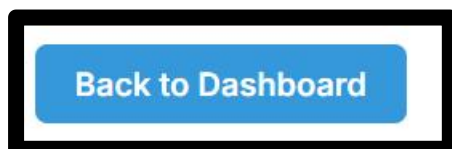
Once all the information has been filled in, click the "**Submit Donation**" button.



The screenshot shows a web form titled "Make a Donation". At the top left is a blue button labeled "Back to Dashboard". Below the title, there are three input fields: "Select Product" with a dropdown menu showing "Bottled Water", "Quantity" with the value "200", and "Donation Date" with the value "23/07/2025". At the bottom is a wide blue button labeled "Submit Donation".

STEP 21 :

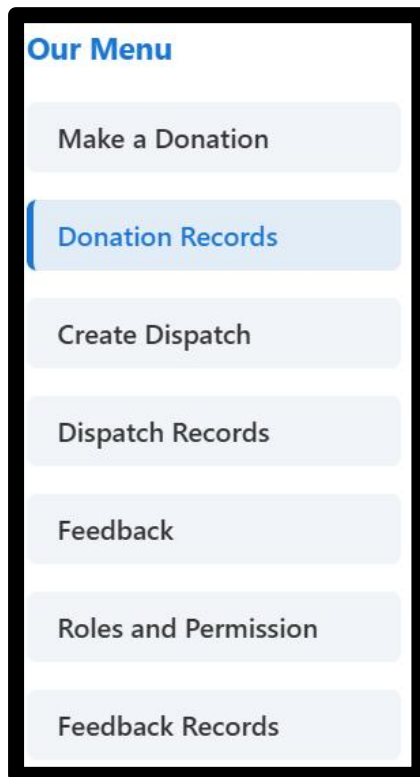
Then, click the "**Back to Dashboard**" button.





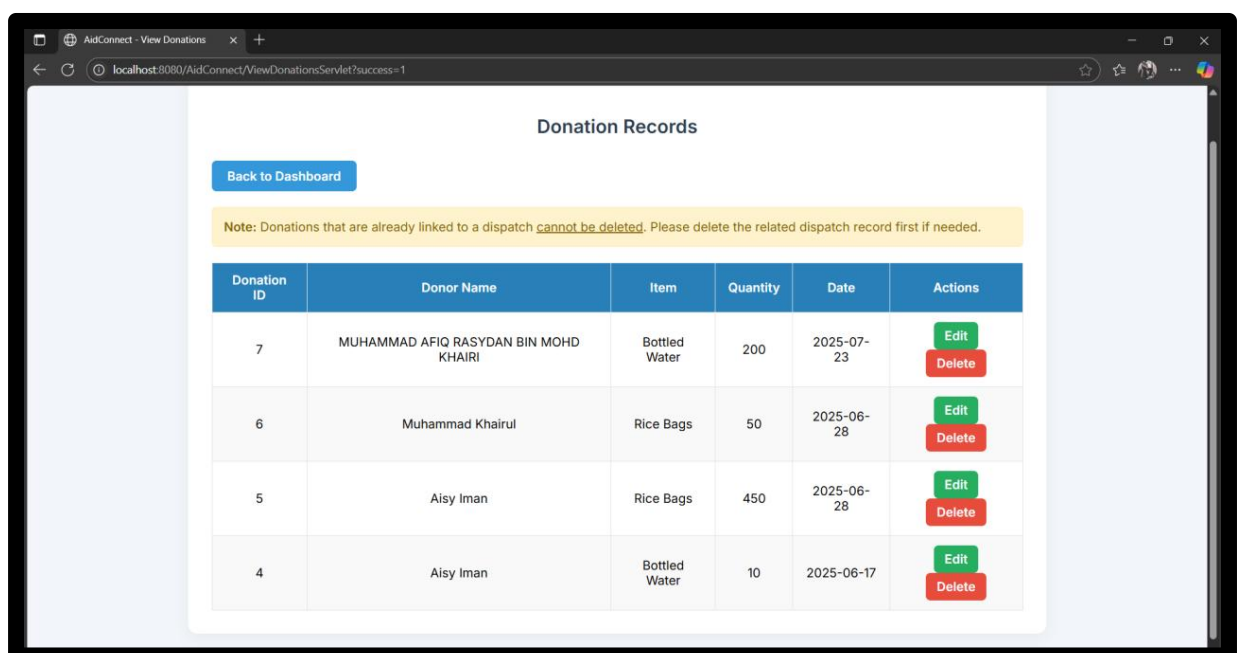
## STEP 22 :

Select "**Donation Records**" to verify that your donation details have been successfully recorded.



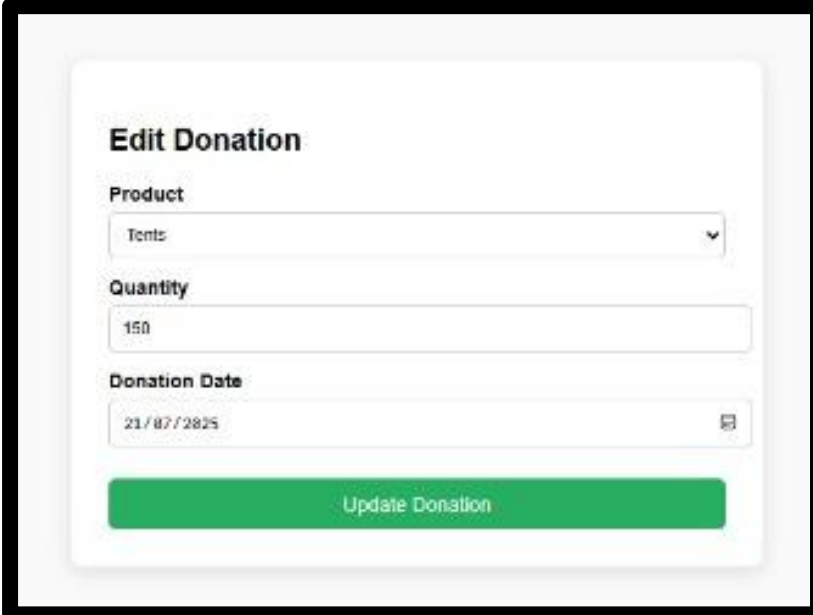
## STEP 23 :

The user can **Edit** or **Delete** the submitted information through this page.



## STEP 24 :

To edit, the user can update the **Product**, **Quantity**, and **Donation Date** fields. Then , click the **“Update Donation”** button .



**Edit Donation**

**Product**

Tents

**Quantity**

150

**Donation Date**

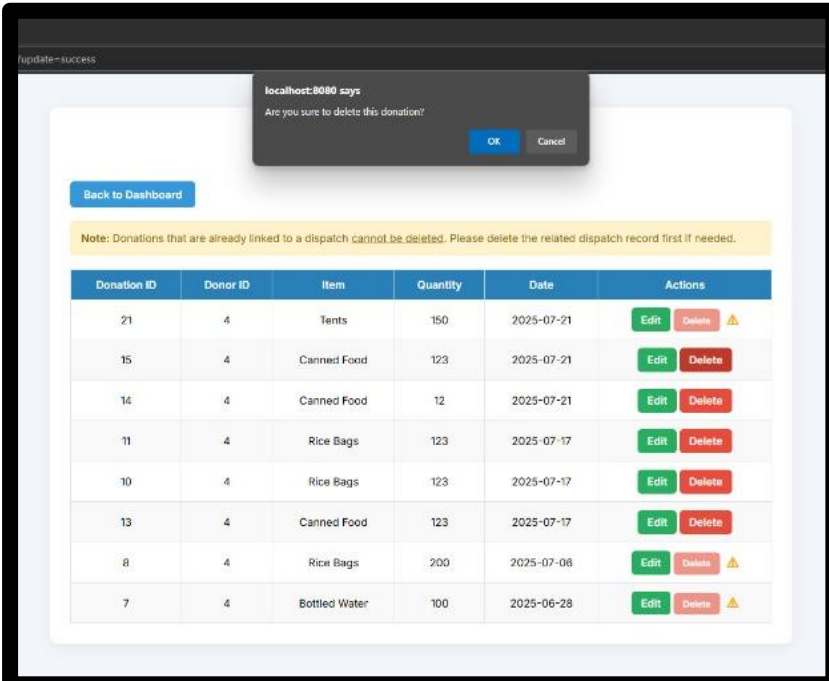
21/07/2025

Update Donation

## STEP 25 :

To Delete, the user needs to click the **"Delete"** button. A **pop-up** confirmation will appear.

If you wish to proceed, click **"OK"**. Otherwise, click **"Cancel"**.



localhost:8080 says  
Are you sure to delete this donation?

OK Cancel

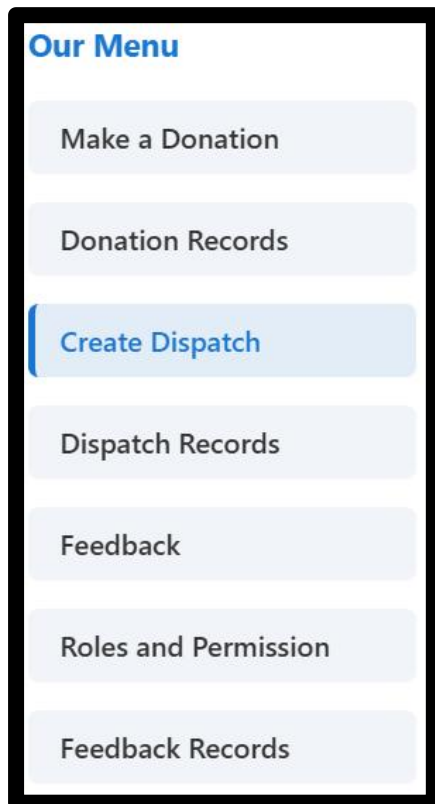
Back to Dashboard

Note: Donations that are already linked to a dispatch cannot be deleted. Please delete the related dispatch record first if needed.

Donation ID	Donor ID	Item	Quantity	Date	Actions
21	4	Tents	150	2025-07-21	Edit Delete ⚠
15	4	Canned Food	123	2025-07-21	Edit Delete
14	4	Canned Food	12	2025-07-21	Edit Delete
11	4	Rice Bags	123	2025-07-17	Edit Delete
10	4	Rice Bags	123	2025-07-17	Edit Delete
13	4	Canned Food	123	2025-07-17	Edit Delete
8	4	Rice Bags	200	2025-07-06	Edit Delete ⚠
7	4	Bottled Water	100	2025-06-28	Edit Delete ⚠

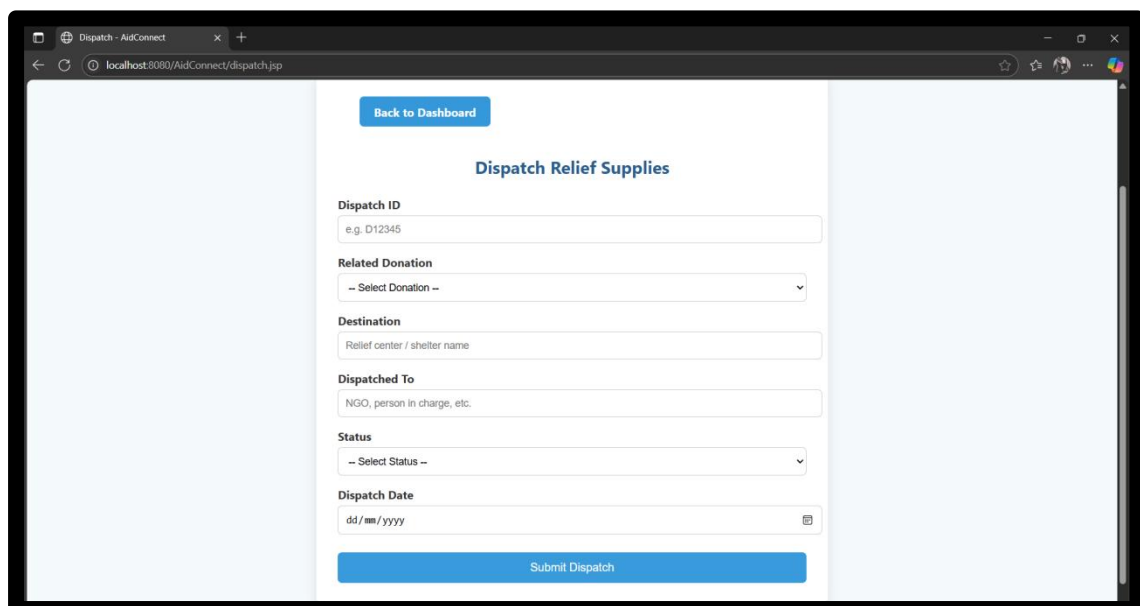
## STEP 26 :

To create dispatch information, the user can click the "**Create Dispatch**" button on the Main Dashboard.



## STEP 27 :

Ensure that **all required information is filled** in on the "**Dispatch Relief Supplies**" page.

A screenshot of a web browser window showing a form titled "Dispatch Relief Supplies". At the top left of the form is a blue button labeled "Back to Dashboard". The form fields are: "Dispatch ID" (text input with placeholder "e.g. D12345"), "Related Donation" (dropdown menu with "-- Select Donation --"), "Destination" (text input with placeholder "Relief center / shelter name"), "Dispatched To" (text input with placeholder "NGO, person in charge, etc."), "Status" (dropdown menu with "-- Select Status --"), and "Dispatch Date" (text input with placeholder "dd / mm / yyyy" and a calendar icon). A blue "Submit Dispatch" button is at the bottom of the form. The browser's address bar shows "localhost:8080/AidConnect/dispatch.jsp".

STEP 28 :

**Select** the "**Related Donation**" based on the available information.

### Dispatch Relief Supplies

**Dispatch ID**

A2023221096

**Related Donation**

-- Select Donation --

-- Select Donation --

Donation #4 - Bottled Water by Aisy Iman

Donation #7 - Bottled Water by MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI

Donation #5 - Rice Bags by Aisy Iman

Donation #6 - Rice Bags by Muhammad Khairul

STEP 29 :

**Select** the appropriate "**Status**" for the donated items. The options are provided in the dropdown menu.

### Dispatch Relief Supplies

**Dispatch ID**

A2023221096

**Related Donation**

Donation #7 - Bottled Water by MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI

**Destination**

RUMAH KITAR SEMULA SHAH ALAM

**Dispatched To**

NGO

**Status**

-- Select Status --

-- Select Status --

Preparing

In Transit

Delivered

Submit Dispatch

### STEP 30 :

Select the "Dispatch Date" using the calendar provided in the dropdown field.

### Dispatch Relief Supplies

**Dispatch ID**

A2023221096

**Related Donation**

Donation #7 - Bottled Water by MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI

July, 2025

↑

↓

S	M	T	W	T	F	S	
29	30	1	2	3	4	5	SHAH ALAM
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	31	1	2	
3	4	5	6	7	8	9	

Clear

Today

dd/mm/yyyy

Submit Dispatch

### STEP 31 :

Once all the information has been filled in, click the "Submit Dispatch" button.

### Dispatch Relief Supplies

**Dispatch ID**

A2023221096

**Related Donation**

Donation #7 - Bottled Water by MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI

**Destination**

RUMAH KITAR SEMULA SHAH ALAM

**Dispatched To**

NGO

**Status**

In Transit

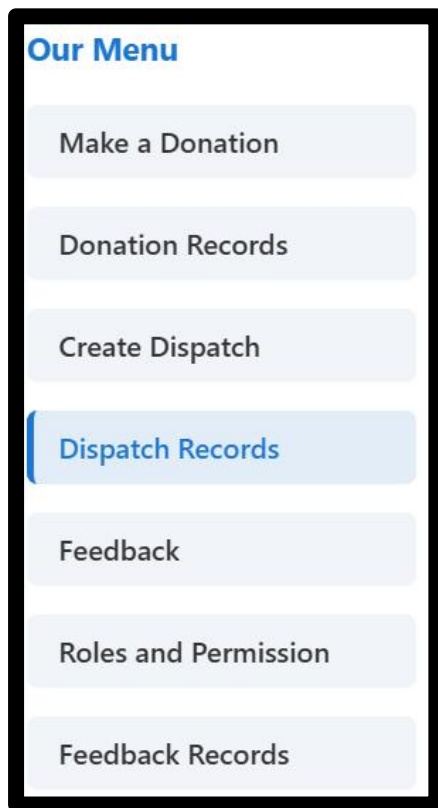
**Dispatch Date**

23/07/2025

Submit Dispatch

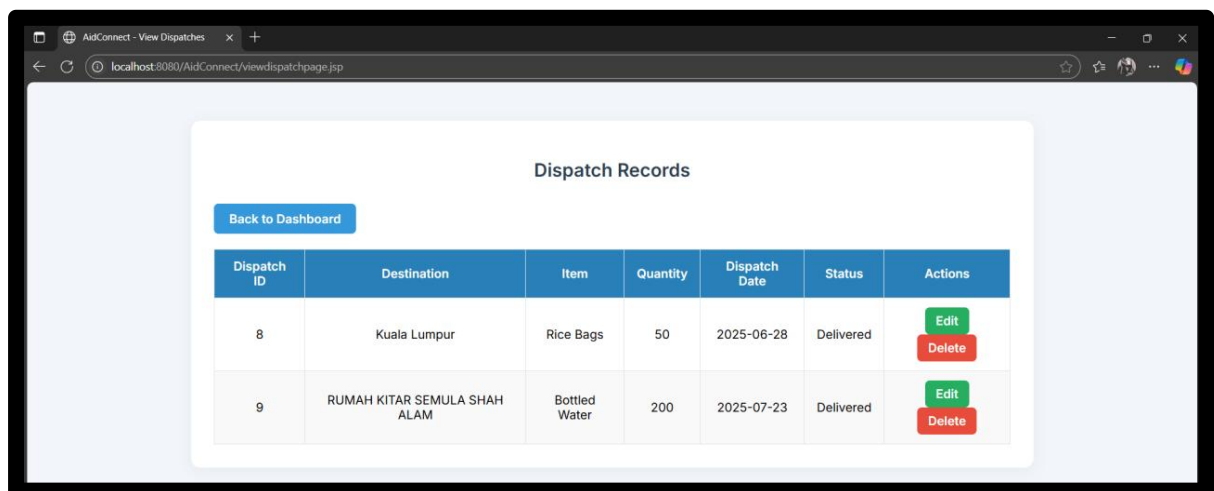
### STEP 32 :

To view the dispatch records, click the "**Dispatch Records**" button.



### STEP 33 :

On the "**Dispatch Records**" page, the user can **edit** or **delete** existing records.



### STEP 34 :

To **edit**, the user can **modify** the **Destination**, **Dispatched To**, **Status**, and **Dispatch Date** fields.

Once editing is complete, **click** the **"Update Dispatch"** button.

### Edit Dispatch

**Destination**  
RUMAH KITAR SEMULA SHAH ALAM

**Dispatched To**  
NGO

**Status**  
In Transit

**Dispatch Date**  
23 / 07 / 2025

Update Dispatch

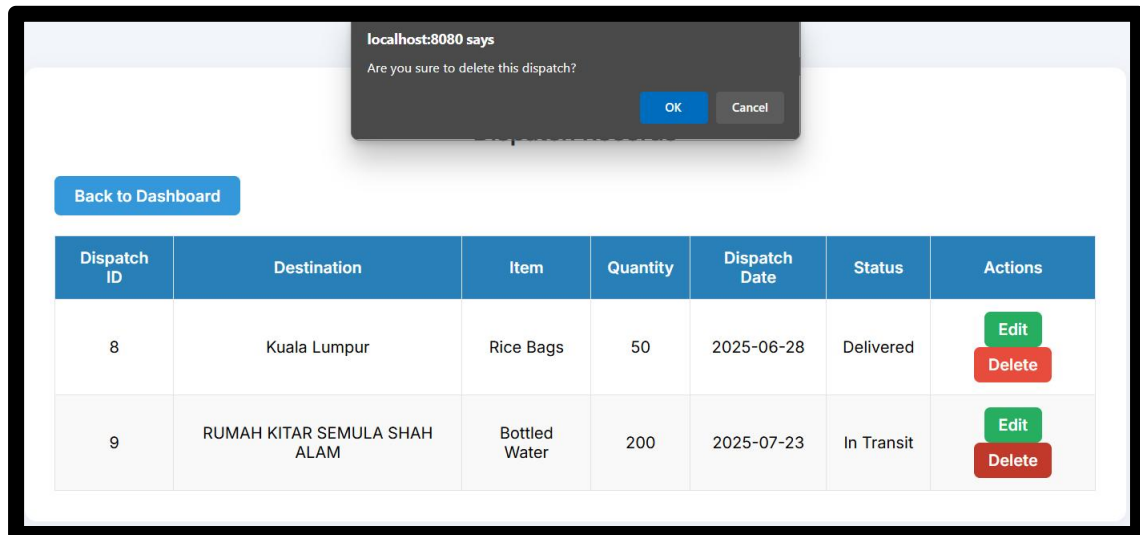
Dispatch Records						
<a href="#">Back to Dashboard</a>						
Dispatch ID	Destination	Item	Quantity	Dispatch Date	Status	Actions
8	Kuala Lumpur	Rice Bags	50	2025-06-28	Delivered	<a href="#">Edit</a> <a href="#">Delete</a>
9	RUMAH KITAR SEMULA SHAH ALAM	Bottled Water	200	2025-07-23	In Transit	<a href="#">Edit</a> <a href="#">Delete</a>

*\*Example after editing a Dispatch Record .*

### STEP 35 :

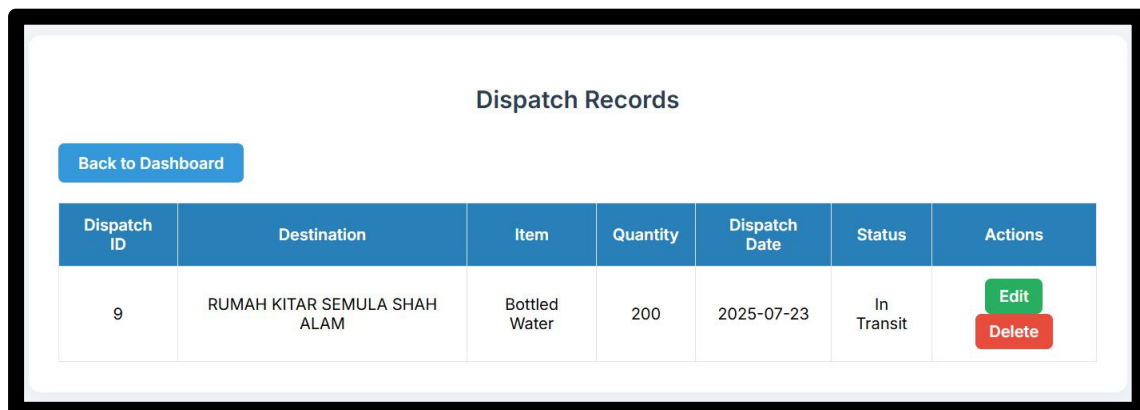
To **delete**, the user needs to click the "**Delete**" button. A confirmation **pop-up** will appear.

If you want to proceed, click "**OK**". If not, click "**Cancel**".



### STEP 36 :

Then, the user can click the "**Back to Dashboard**" button.

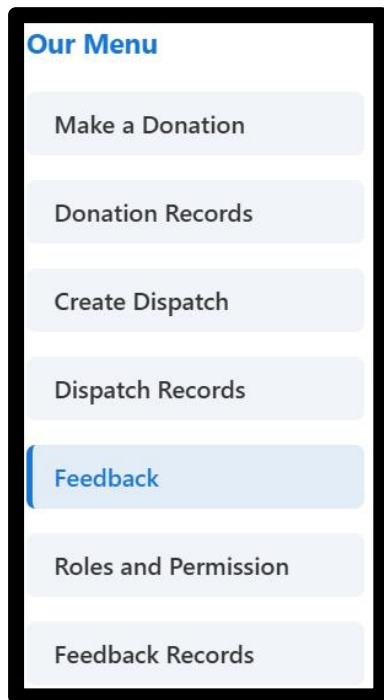


*\*Example after the user deletes a Dispatch Record .*



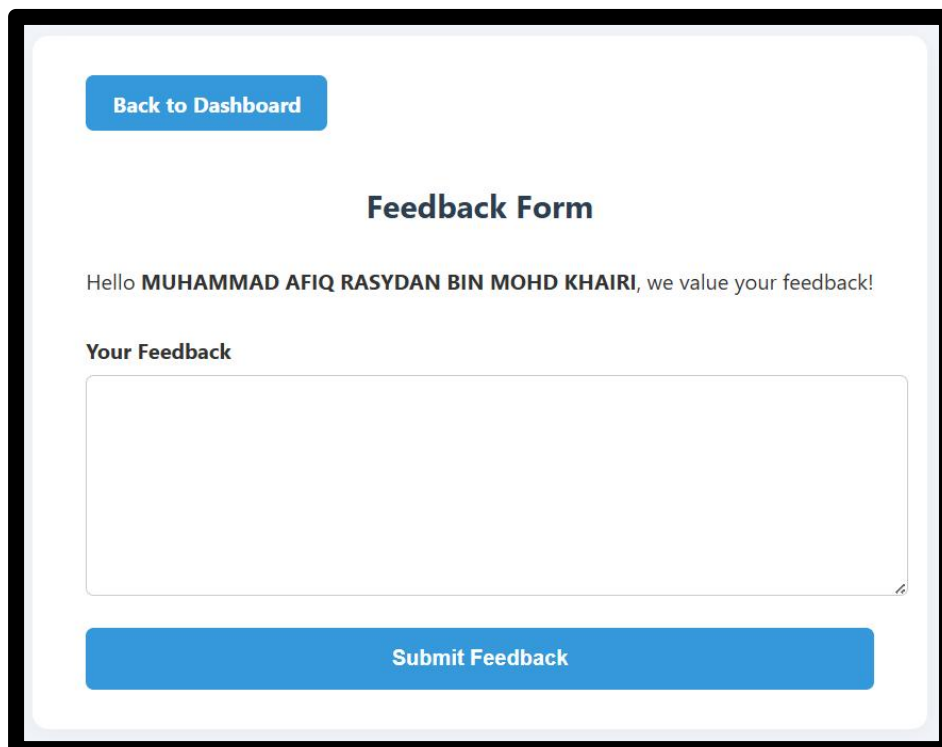
### STEP 37 :

To provide **feedback**, the user needs to click the "**Feedback**" button on the Main Dashboard.



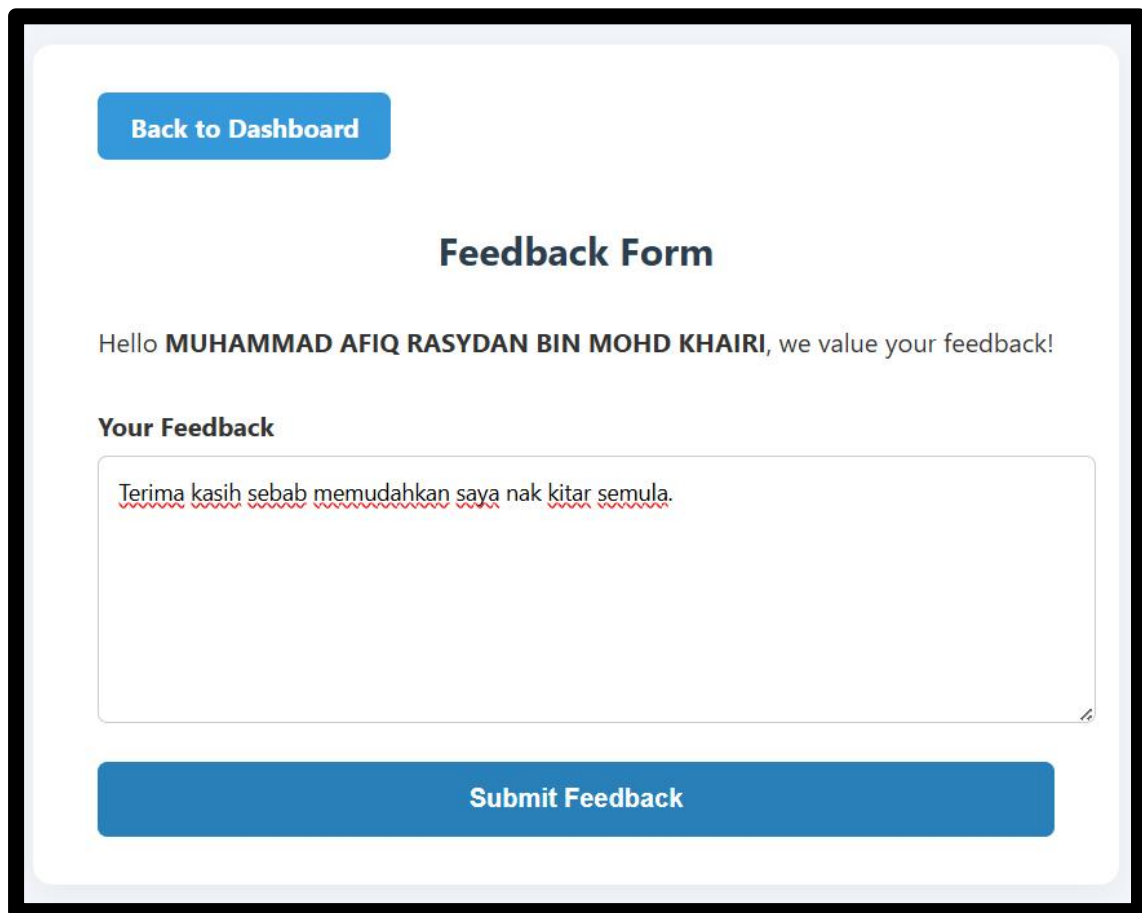
### STEP 38 :

On the **Feedback Form**, the user can enter any feedback they wish to provide.

A screenshot of a "Feedback Form" page. At the top left is a blue button labeled "Back to Dashboard". The title "Feedback Form" is centered. Below it, a message reads "Hello MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI, we value your feedback!". Under the heading "Your Feedback", there is a large, empty text area for input. At the bottom is a wide blue button labeled "Submit Feedback".

STEP 39 :

Once **fill completed**, the user needs to click the "**Submit Feedback**" button.



The screenshot shows a feedback form interface. At the top left is a blue button labeled "Back to Dashboard". Below it is the title "Feedback Form" in bold. A personalized greeting reads: "Hello **MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI**, we value your feedback!". Under the heading "Your Feedback", there is a text input area containing the text "Terima kasih sebab memudahkan saya nak kitar semula." with red wavy lines underneath. At the bottom is a wide blue button labeled "Submit Feedback".

STEP 40 :

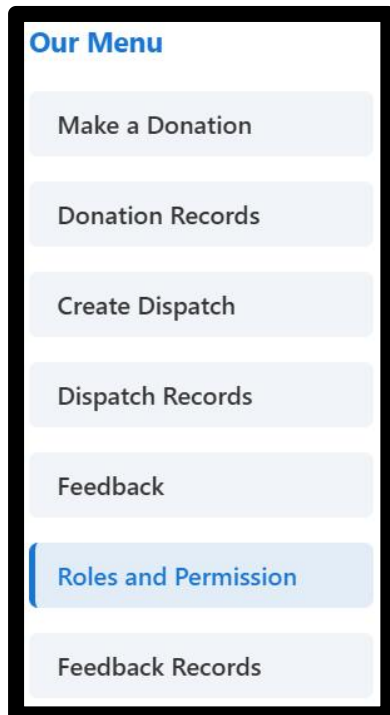
Then, the user needs to click the "**Back to Dashboard**" button to return to the Main Dashboard.



A close-up of the "Back to Dashboard" button, which is blue with white text, enclosed in a black rectangular border.

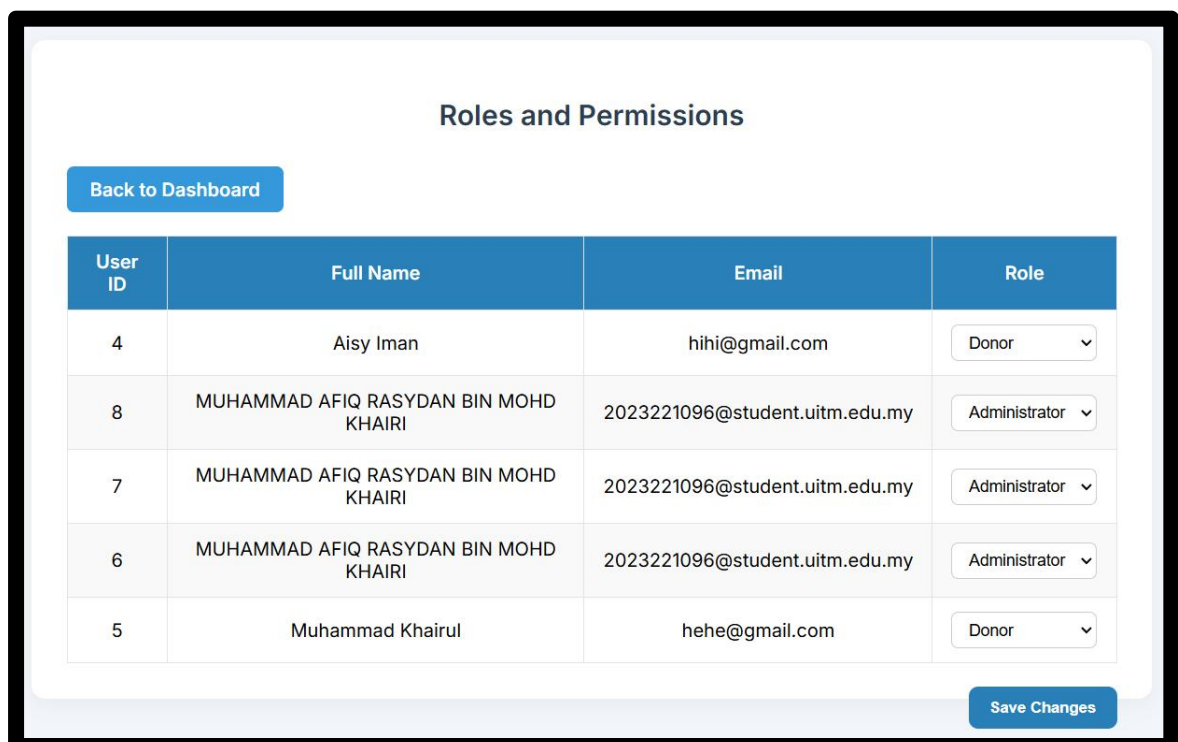
#### STEP 41 :

To change the user's role, click the "**Roles and Permission**" button on the **Main Dashboard**.



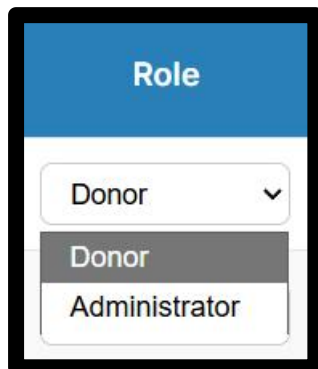
#### STEP 42 :

On this page, the user can **edit** the **Roles** of all registered users.



### STEP 43 :

The user can choose between two role options : **Donor** and **Administrator**.



Role

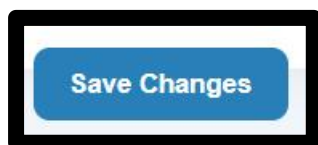
Donor ▼

Donor

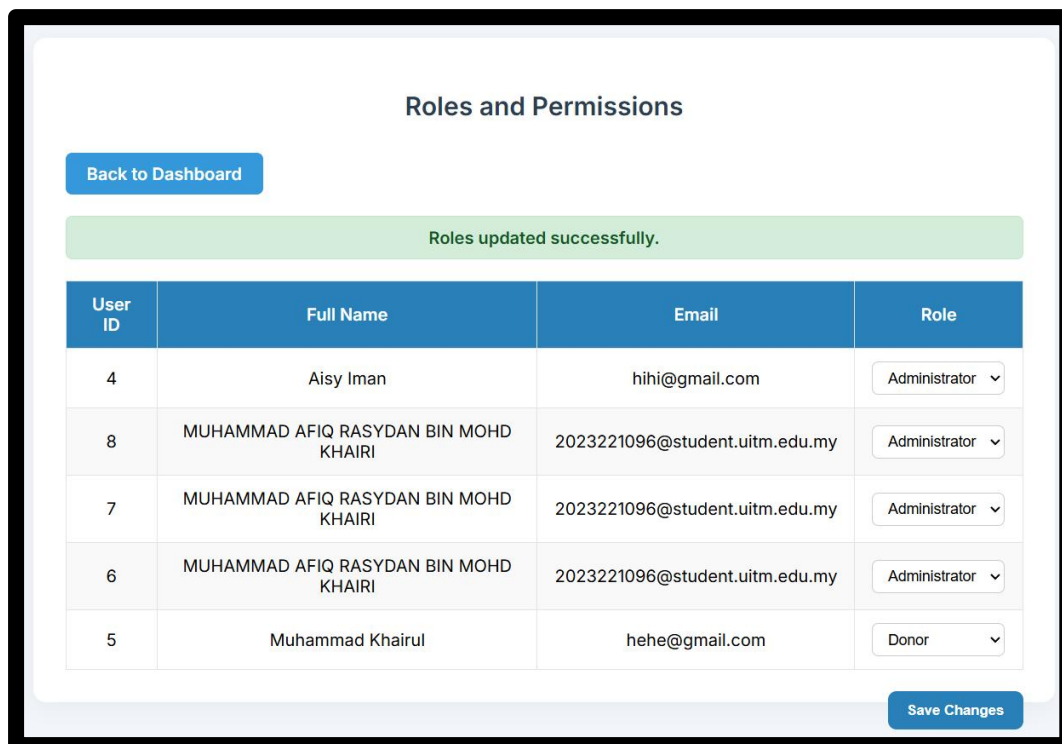
Administrator

### STEP 44 :

Then , click “Save Changes”.



Save Changes



Roles and Permissions

Back to Dashboard

Roles updated successfully.

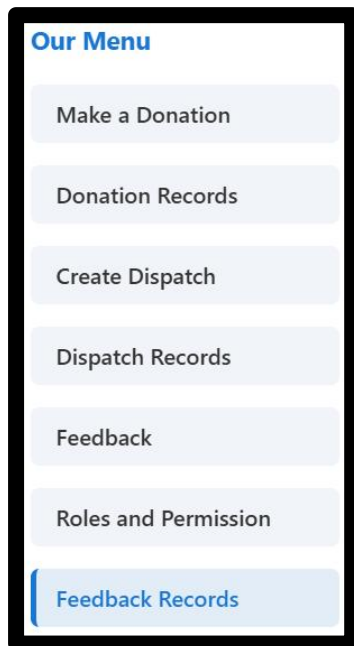
User ID	Full Name	Email	Role
4	Aisy Iman	hihi@gmail.com	Administrator ▼
8	MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI	2023221096@student.uitm.edu.my	Administrator ▼
7	MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI	2023221096@student.uitm.edu.my	Administrator ▼
6	MUHAMMAD AFIQ RASYDAN BIN MOHD KHAIRI	2023221096@student.uitm.edu.my	Administrator ▼
5	Muhammad Khairul	hehe@gmail.com	Donor ▼

Save Changes

*\*Example after editing a Role.*

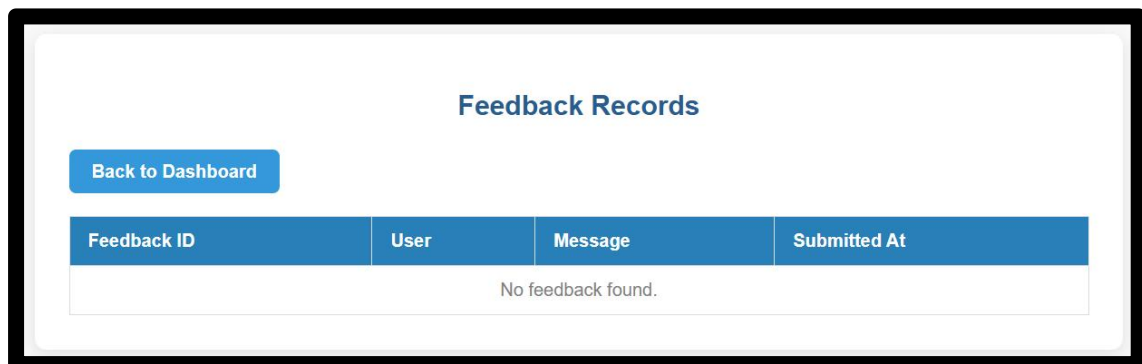
#### STEP 46 :

To **check** feedback records, the user can click on "**Feedback Records**".



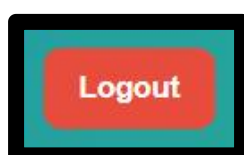
#### STEP 47 :

On this page, all feedback from both **Donors** and **Admins** will be displayed. Then, **click "Back to Dashboard"**.



#### STEP 48 :

After returning to the **Main Dashboard** , the user can click the "**Logout**" button to exit the page.



## Step by Step for Donor

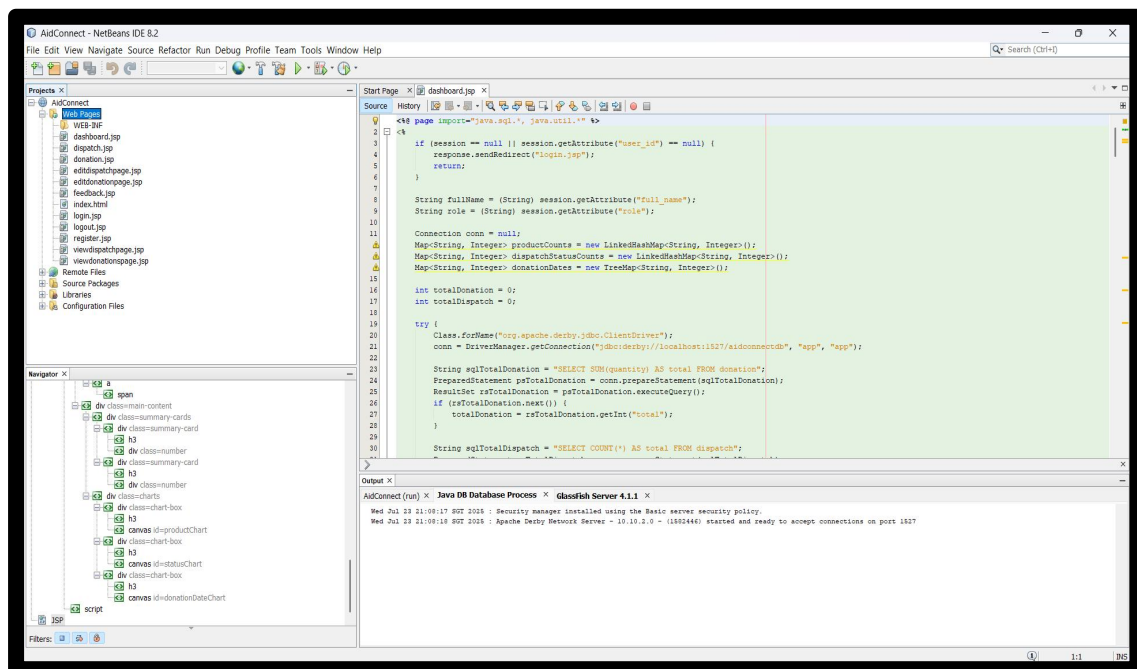
### STEP 1:

Open **NetBeans IDE**.



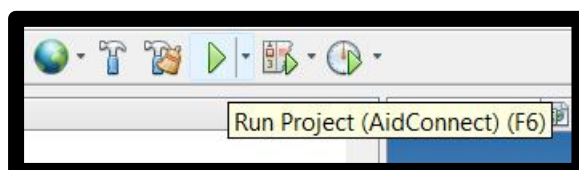
### STEP 2:

Make sure the **AidConnect** project file is opened in NetBeans IDE.



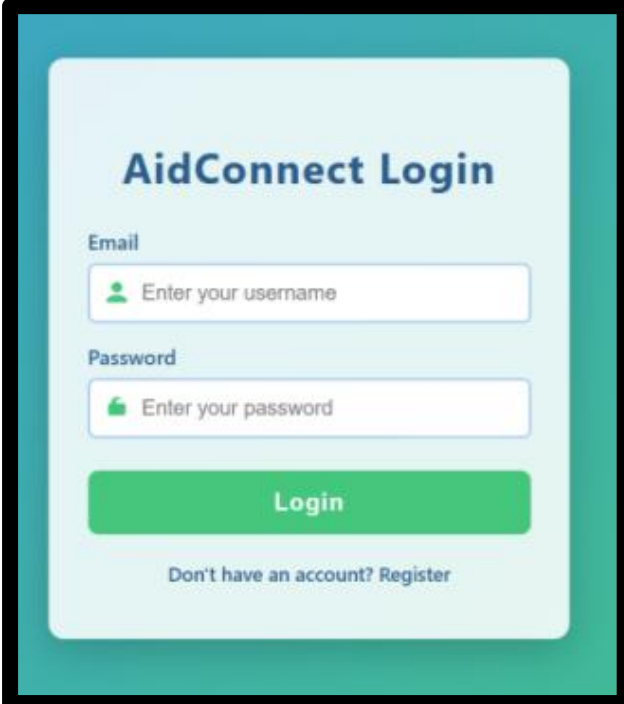
### STEP 3:

Click the **Run Project** button.



#### STEP 4 :

Once the project runs successfully, it will open the **AidConnect Login Page**. If the user already has an account, enter your Email and Password to log in.

The image shows a login form titled "AidConnect Login" in a teal-colored box. The form has a light blue background. It contains two input fields: "Email" with a placeholder "Enter your username" and "Password" with a placeholder "Enter your password". Both fields have a small green icon of a person. Below the fields is a green "Login" button. At the bottom, there is a link that says "Don't have an account? Register".

**AidConnect Login**

Email  
Enter your username

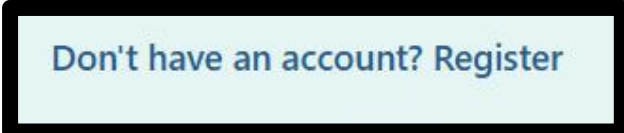
Password  
Enter your password

**Login**

Don't have an account? Register

#### STEP 5 :

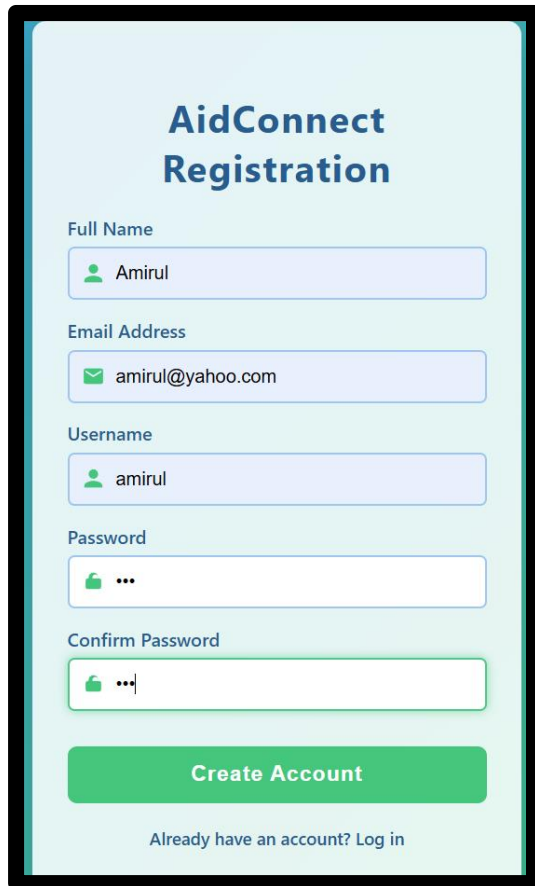
If you do not have an account yet, you need to **Register** for an account first.

The image shows a rectangular button with a light blue background and a black border. The text on the button is "Don't have an account? Register" in a dark blue font.

Don't have an account? Register

## STEP 6 :

On the **AidConnect Registration Page**, the user must fill in their **Full Name**, **Email Address**, **Username**, **Password**, and **Confirm Password** as a verification step.

A screenshot of the AidConnect Registration page. The page has a light blue background. At the top, the title "AidConnect Registration" is displayed in a bold, dark blue font. Below the title, there are five input fields, each with a label and a small icon: "Full Name" with a person icon, "Email Address" with an envelope icon, "Username" with a person icon, "Password" with a lock icon, and "Confirm Password" with a lock icon. The "Full Name" field contains the text "Amirul". The "Email Address" field contains the text "amirul@yahoo.com". The "Username" field contains the text "amirul". The "Password" and "Confirm Password" fields contain three dots, indicating they are masked. Below the input fields is a green button with the text "Create Account". At the bottom of the form, there is a link that says "Already have an account? Log in".

**AidConnect  
Registration**

Full Name  
Amirul

Email Address  
amirul@yahoo.com

Username  
amirul

Password  
...

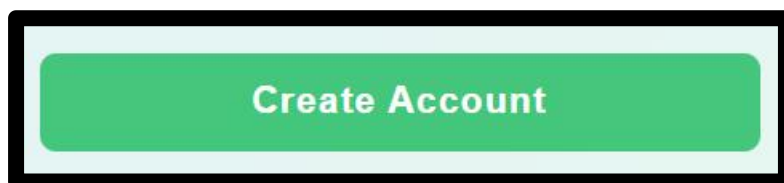
Confirm Password  
...

**Create Account**

Already have an account? Log in

## STEP 7 :

Once all the information has been filled in, click the **"Create Account"** button.

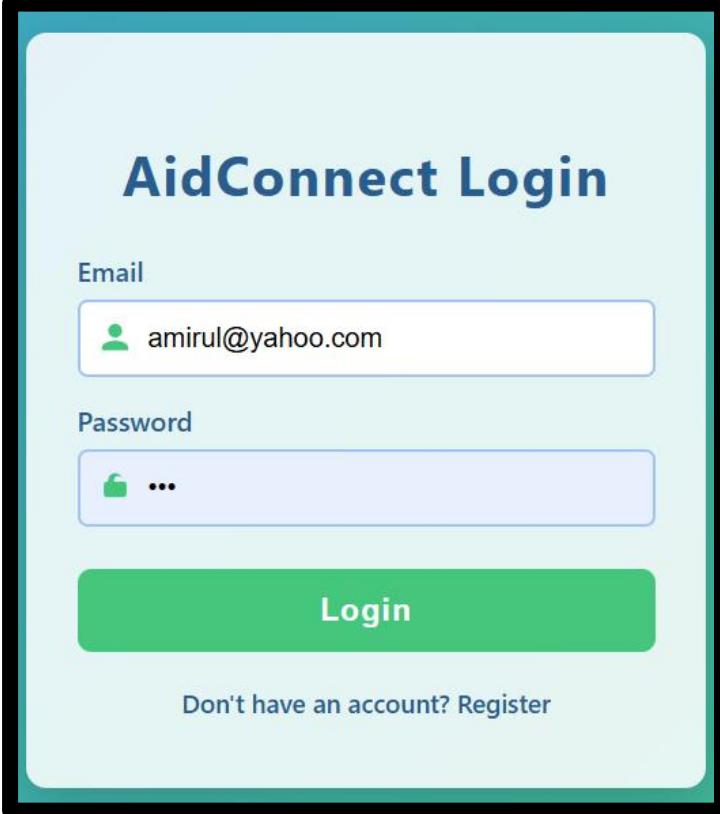




### STEP 8 :


After returning to the **Login Page**, enter the **Email** and **Password** you registered with.

Then, click the "**Login**" button.


The image shows a login form titled "AidConnect Login" in a dark blue font. Below the title, there are two input fields. The first is labeled "Email" and contains the text "amirul@yahoo.com" next to a green user icon. The second is labeled "Password" and contains three dots next to a green lock icon, indicating a password field. Below these fields is a large green button with the word "Login" in white. At the bottom of the form, there is a link that says "Don't have an account? Register".

**AidConnect Login**

Email

 amirul@yahoo.com

Password

 ...

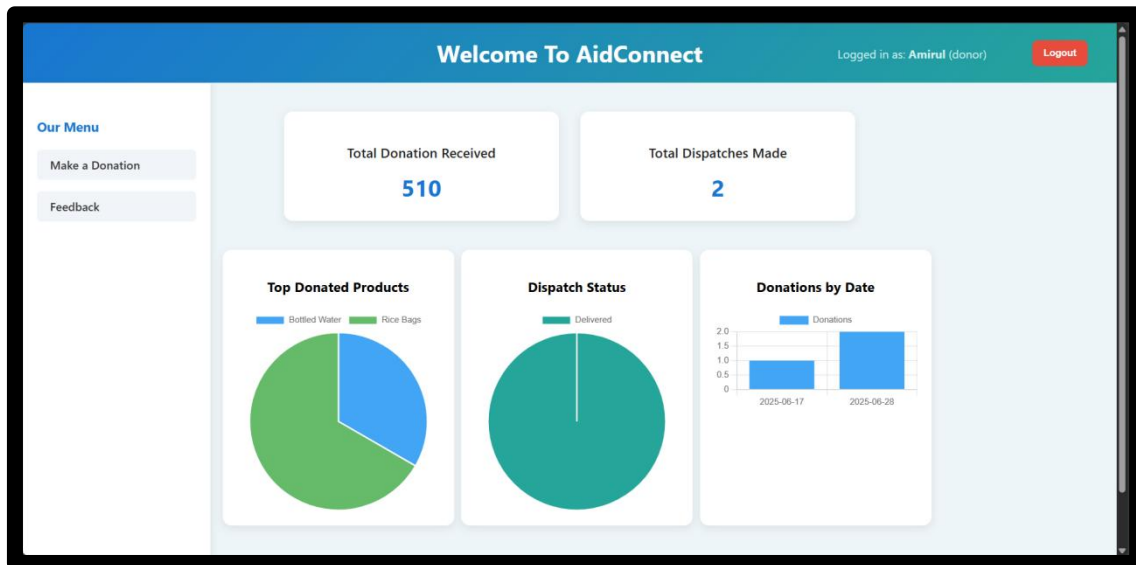
**Login**

[Don't have an account? Register](#)

## STEP 9 :

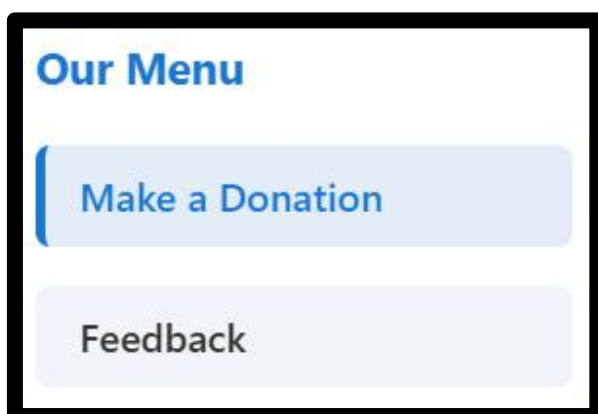
After logging in, the user will be directed to the **Main Dashboard** page. On this page, you can view the following information:

- i. **Total Donation Received**
- ii. **Total Dispatches Made**
- iii. **Top Donated Products**
- iv. **Dispatch Status**
- v. **Donations by Date**



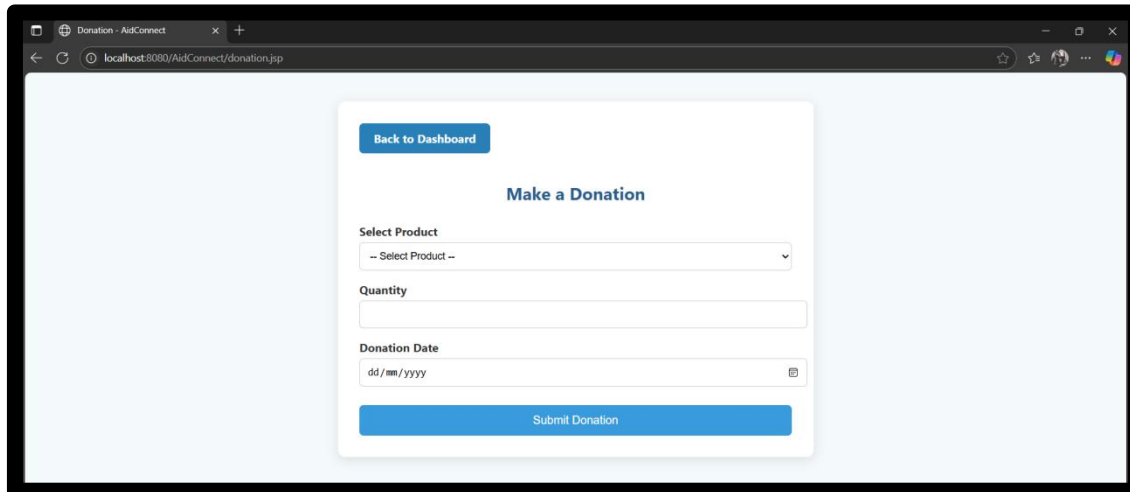
## STEP 10 :

To make a donation, the user needs to click the "**Make a Donation**" button on the Main Dashboard.



### STEP 11 :

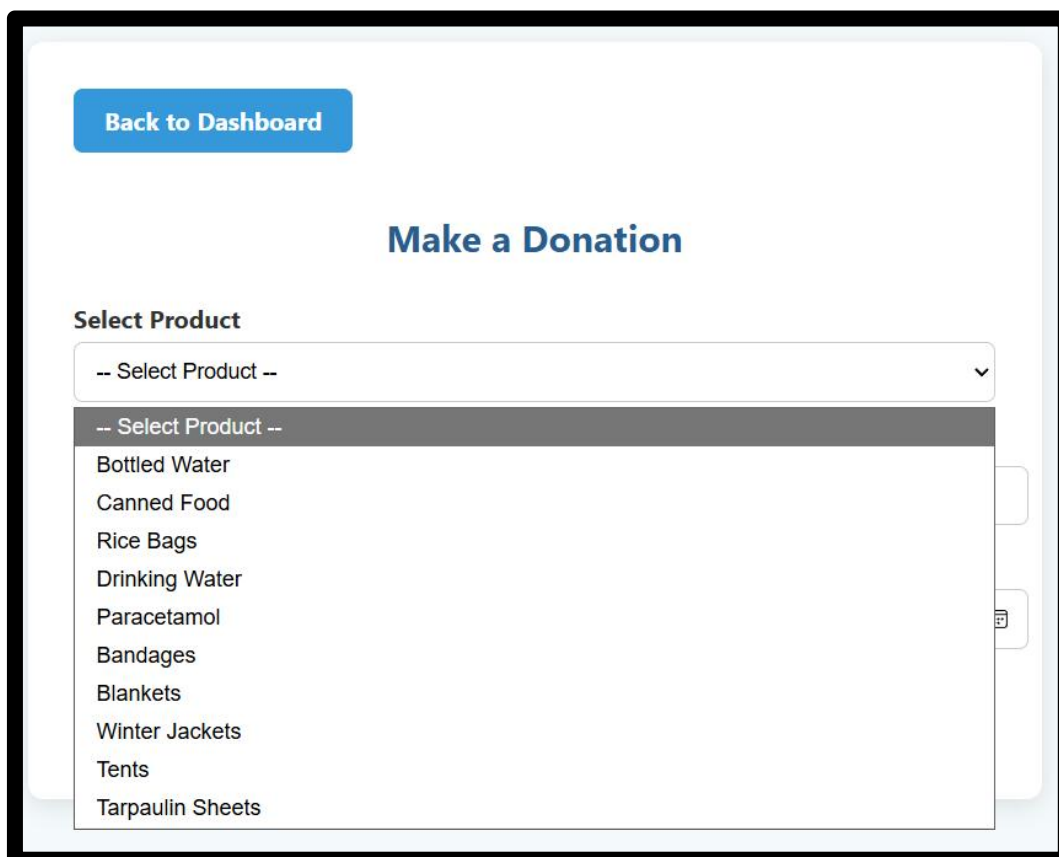
After navigating to the "Make a Donation" page, **fill in all the required information.**



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/AidConnect/donation.jsp'. The page features a 'Back to Dashboard' button at the top left. The main heading is 'Make a Donation'. Below this, there are three input fields: 'Select Product' (a dropdown menu showing '-- Select Product --'), 'Quantity' (a text input field), and 'Donation Date' (a date picker showing 'dd/mm/yyyy'). At the bottom of the form is a blue 'Submit Donation' button.

### STEP 12 :

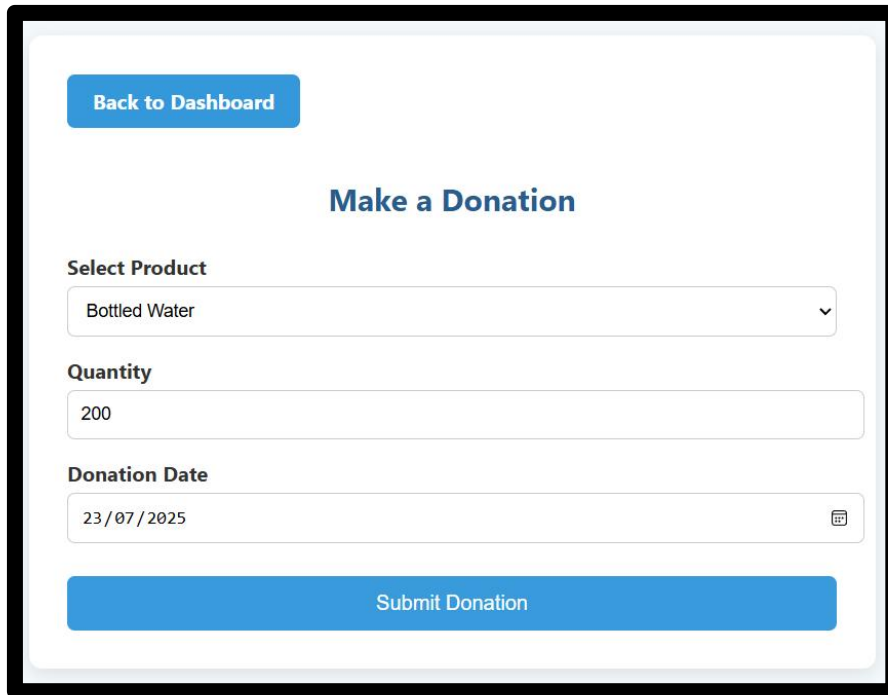
**Select a product** from the available options in the list.



This screenshot shows the 'Make a Donation' page with the 'Select Product' dropdown menu open. The dropdown list displays the following options: Bottled Water, Canned Food, Rice Bags, Drinking Water, Paracetamol, Bandages, Blankets, Winter Jackets, Tents, and Tarpaulin Sheets. The 'Back to Dashboard' button is visible at the top left, and the 'Submit Donation' button is at the bottom right of the form area.

### STEP 13 :

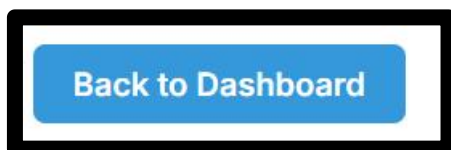
Once all the information has been filled in, click the "**Submit Donation**" button.



The screenshot shows a web form titled "Make a Donation". At the top left is a blue button labeled "Back to Dashboard". Below the title, there are three input fields: "Select Product" with a dropdown menu showing "Bottled Water", "Quantity" with a text input containing "200", and "Donation Date" with a date picker showing "23 / 07 / 2025". At the bottom is a wide blue button labeled "Submit Donation".

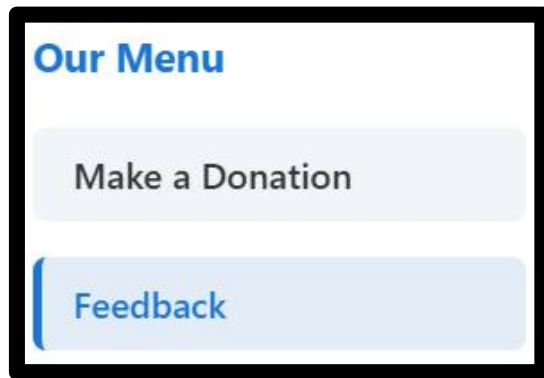
### STEP 14 :

Then, click the "**Back to Dashboard**" button.



### STEP 15 :

To provide **feedback**, the user needs to click the "**Feedback**" button on the Main Dashboard.



STEP 16 :

On the **Feedback Form**, the user can enter any feedback they wish to provide.

A screenshot of a web application's feedback form. It has a white background with a black border. At the top left, there is a blue button with the text "Back to Dashboard" in white. Below this, the title "Feedback Form" is centered in bold black text. Under the title, a message reads "Hello **Amirul**, we value your feedback!". Below this message, the label "Your Feedback" is positioned above a large, empty text input area. The input area contains the text "Thank You !" and has a small cursor at the end. At the bottom of the form, there is a blue button with the text "Submit Feedback" in white.

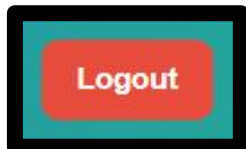
STEP 17 :

Then, the user needs to click the "**Back to Dashboard**" button to return to the Main Dashboard.



STEP 18 :

After returning to the **Main Dashboard** , the user can click the "**Logout**" button to exit the page.



## 8.0 Conclusion

In conclusion, the AidConnect web application aims to streamline the process of managing disaster relief supplies through effective coordination of donations and dispatches. By using Java EE technologies such as JSP, Servlets, and JDBC, the system ensures dynamic functionality and secure data handling. The modules developed, including registration, login, dashboard, donation management, and dispatch tracking, provide a complete solution to support relief operations. This project not only enhances our understanding of enterprise application development but also demonstrates how technology can contribute meaningfully in times of crisis. With future improvements, AidConnect can be expanded further to support real-world disaster relief efforts on a larger scale.

## Appendix

Codes: [GitHub](#)