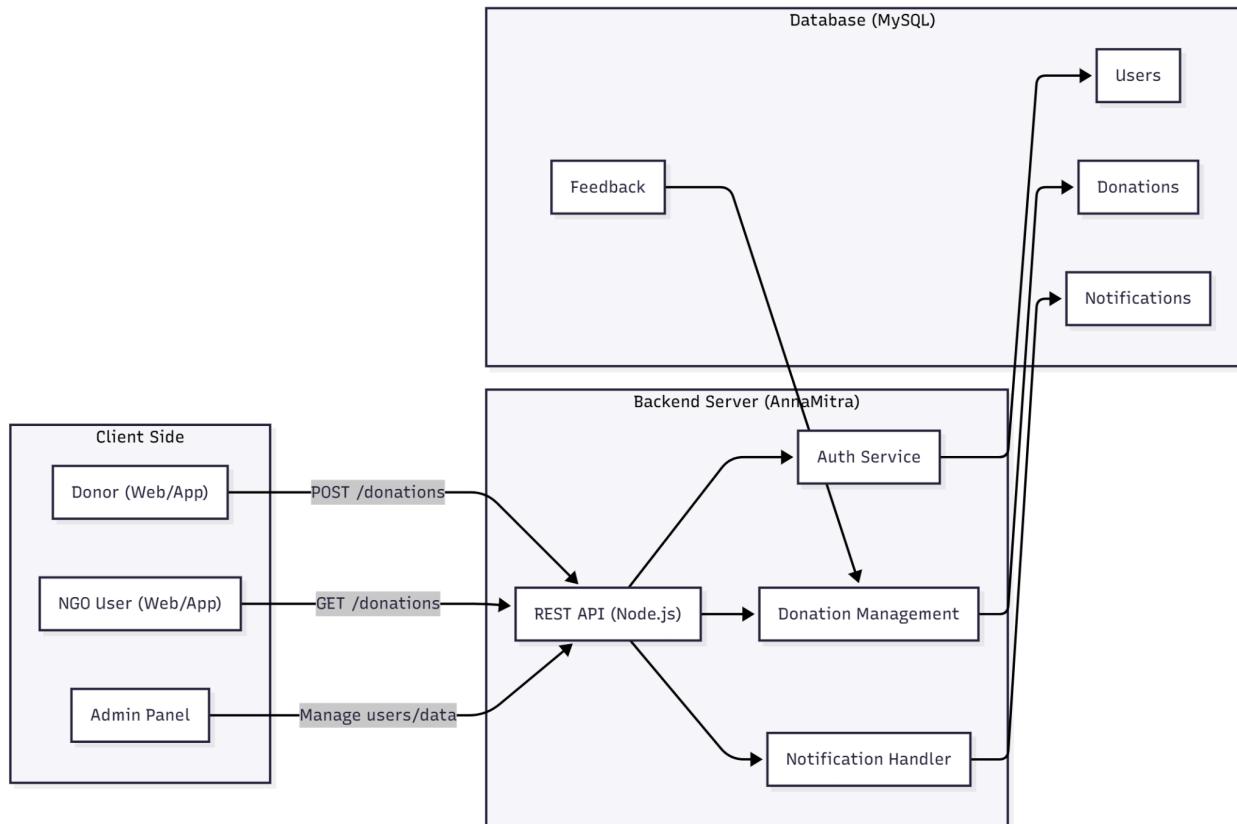


System Design Document

(Group : 6)

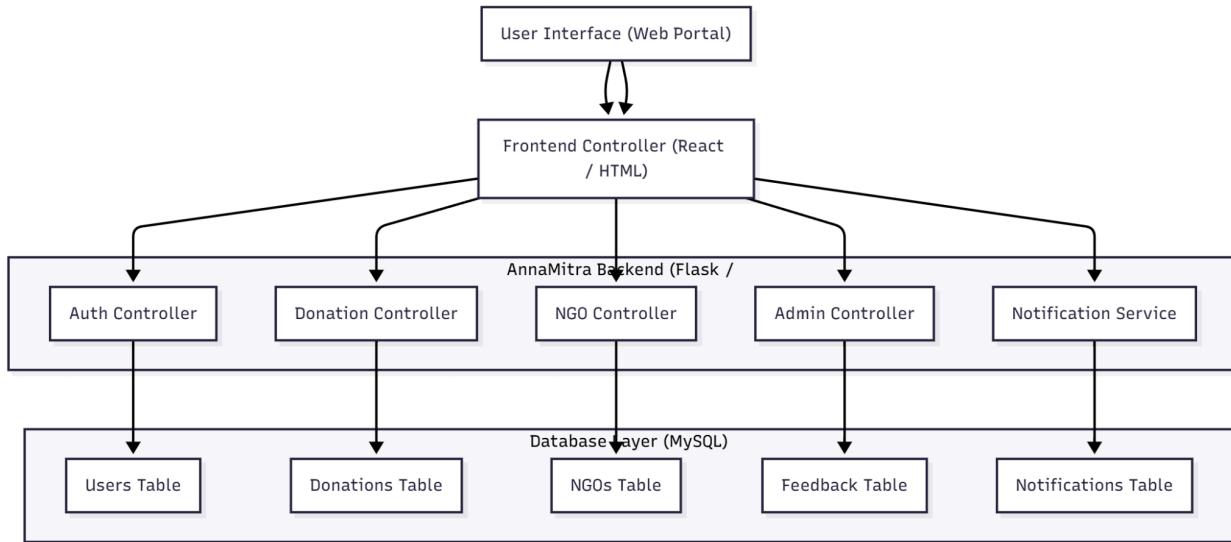
Annamitra

SYSTEM ARCHITECTURE DIAGRAM:



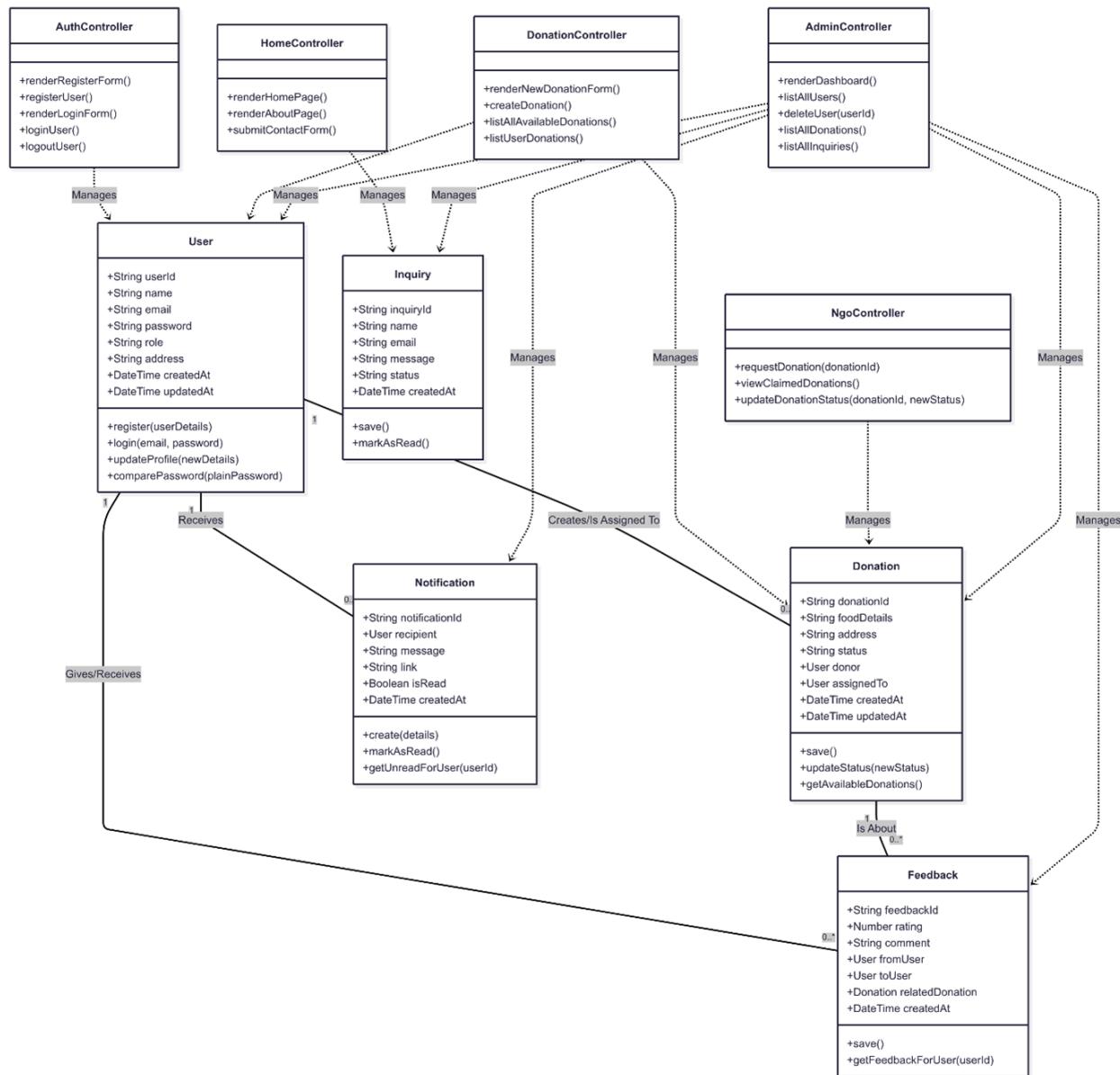
System Design Document - Annamitra

COMPONENT DIAGRAM:

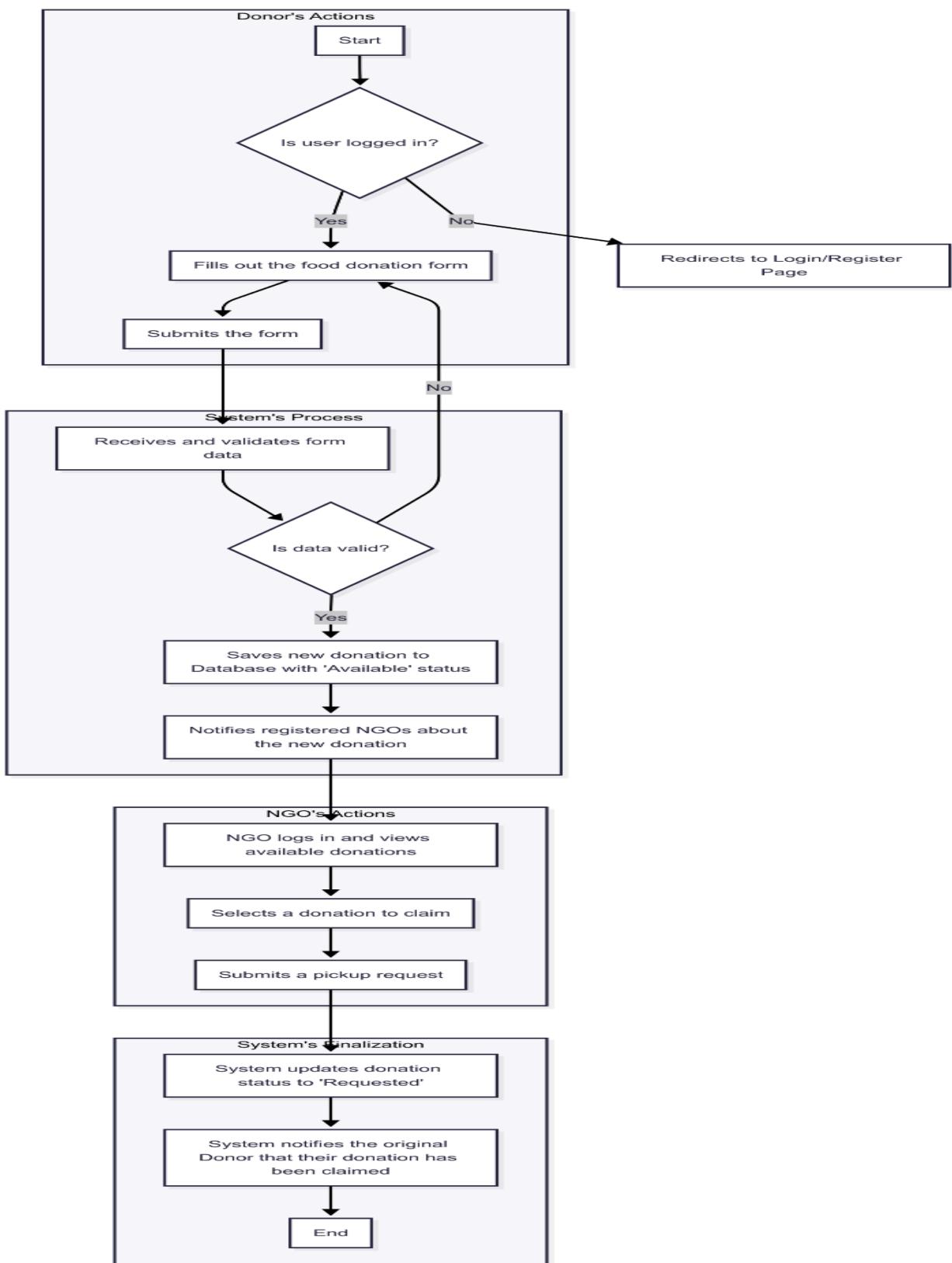


System Design Document - Annamitra

CLASS DIAGRAM:



ACTIVITY DIAGRAM:



REST API Contracts (Swagger / OpenAPI Style)

Auth APIs

Method	Endpoint	Description	Request Body	Response
POST	/api/auth/register	Register new user (Donor/NGO/Volunteer)	{ email, contact, role, password }	201 Created , { success, message, user }
POST	/api/auth/login	Login existing user	{ email, password }	200 OK , { success, user }
GET	/api/auth/logout	Logout current session	–	200 OK , { success, message }

Donation APIs

Method	Endpoint	Description	Request Body	Response
POST	/api/donations	Create new donation (Donor only)	{ title, description, images[], items[], pickupAddress, pickupWindow, contact, email, personName }	201 Created , { success, message, donationId }
GET	/api/donations	Get all donations (list with pagination/filter)	–	200 OK , { success, data: [donations] }

GET	/api/donations/{id}	Get donation details	–	200 OK, { success, donation }
PUT	/api/donations/{id}	Update donation details	{ title, description, items[], pickupWindow, contact }	200 OK, { success, message }
DELETE	/api/donations/{id}	Delete a donation	–	200 OK, { success, message }
POST	/api/donations/{id}/cancel-pickup	Cancel scheduled pickup	–	200 OK, { success, message }

Donation Request APIs

Method	Endpoint	Description	Request Body	Response
POST	/api/donations/{id}/requests	NGO requests/claims a donation	{ message }	200 OK, { success, message }
POST	/api/donations/{id}/requests/{requestId}/approve	Donor approves NGO request	–	200 OK, { success, message }

POST	/api/donations/{id}/requests/{requestId}/reject	Donor rejects NGO request	-	200 OK, { success, message }
-------------	---	---------------------------	---	-------------------------------------

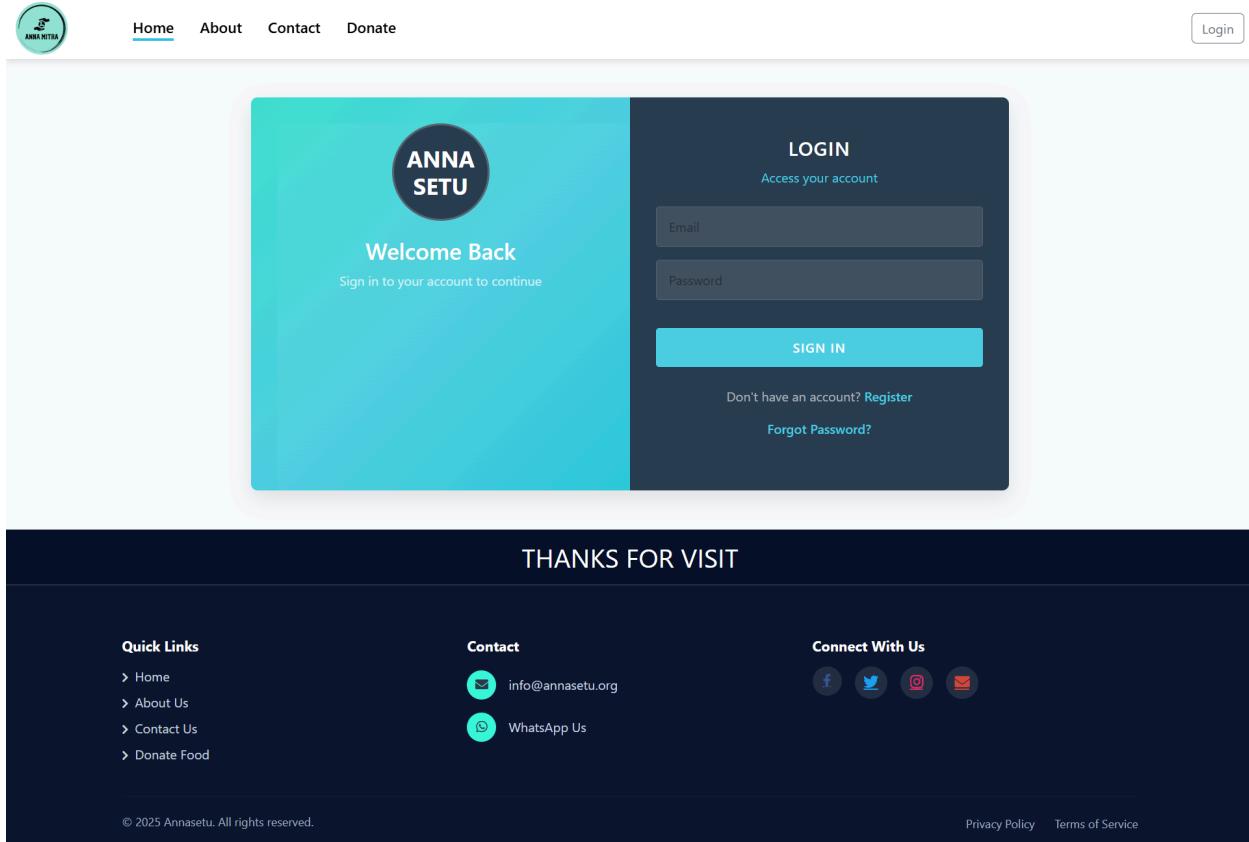
OTP APIs

Method	Endpoint	Description	Request Body	Response
POST	/api/donations/{id}/send-otp	Generate & send OTP to donor for pickup verification	-	200 OK, { success, message, otp (for testing) }
POST	/api/donations/{id}/verify-otp	Verify OTP and mark donation as picked	{ otp }	200 OK, { success, message }

Wireframes / UI Mockups (Final Overview)

Final Pages (UI/UX):

Login Page:



The image shows a wireframe of a login page for a website called "ANNA SETU". The header features a logo with the text "ANNA SETU" and navigation links for "Home", "About", "Contact", and "Donate". A "Login" button is located in the top right corner. The main content area is divided into two sections: a teal-colored "Welcome Back" section on the left and a dark blue "LOGIN" section on the right. The "Welcome Back" section contains the "ANNA SETU" logo, the text "Welcome Back", and a sub-instruction "Sign in to your account to continue". The "LOGIN" section has fields for "Email" and "Password", a "SIGN IN" button, and links for "Don't have an account? Register" and "Forgot Password?". Below the main content is a dark footer bar with the text "THANKS FOR VISIT". The footer also contains "Quick Links" (Home, About Us, Contact Us, Donate Food), "Contact" information (info@annasetu.org, WhatsApp Us), and "Connect With Us" social media icons for Facebook, Twitter, Instagram, and Email. At the bottom of the footer, there are links for "Privacy Policy" and "Terms of Service".

System Design Document - Annamitra

Home Page:

The screenshot displays the homepage of the Annamitra website. At the top, there is a navigation bar with links for Home, About, Contact, Donate, and a Login button. The main banner features a photograph of several smiling children and the text "One Meal, One Hope" followed by a subtitle: "Every meal you donate can inspire hope and provide nourishment to those who need it most." Below the banner, the "What We Do" section is introduced with a heading and a photograph of two children eating. The "Connecting Food Donors with Those in Need" section includes a brief description of the organization's mission and a photograph of children. The "Reducing Food Waste, Fighting Hunger" section also includes a brief description and a photograph of children. The "Recent Donations" section shows four categories: Cooked Meals (Vegetarian), Fresh Produce (Fruits & Vegetables), Packaged Food (Non-perishable), and Bakery Items (Bread & Pastries). The "Our Impact" section displays four metrics: 34+ Meals Donated, 2 Active Volunteers, 2 Partner NGOs, and 2 Regular Donors. The footer contains a "THANKS FOR VISIT" message, quick links, contact information, social media links, and legal links.

What We Do

Connecting Food Donors with Those in Need

AnnaSetu serves as a bridge between food donors and recipients. We collect surplus food from restaurants, events, and individuals, and distribute it to shelters, community kitchens, and families facing food insecurity. Our network of dedicated volunteers ensures that good food doesn't go to waste and instead reaches those who need it most, creating a more sustainable and compassionate community.

Reducing Food Waste, Fighting Hunger

Every day, tons of perfectly good food is wasted while many go hungry. AnnaSetu works to solve both problems simultaneously by redirecting surplus food to where it's needed most. Through our technology platform, we make food donation simple, efficient, and impactful. Donors can easily schedule pickups, and our volunteers ensure timely collection and distribution, maintaining food safety standards.

Recent Donations

See how people are making a difference through food donations

Cooked Meals
Vegetarian
Quantity: Multiple servings

Fresh Produce
Fruits & Vegetables
Quantity: Multiple servings

Packaged Food
Non-perishable
Quantity: Multiple servings

Bakery Items
Bread & Pastries
Quantity: Multiple servings

Our Impact

Meals Donated
34+

Active Volunteers
2

Partner NGOs
2

Regular Donors
2

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

- info@annasetu.org
- WhatsApp Us

Connect With Us

Privacy Policy Terms of Service

System Design Document - Annamitra

About Page:

The screenshot shows the 'About' section of the Annamitra website. At the top, there's a navigation bar with links for Home, About (which is underlined), Contact, and Donate. To the right of the navigation is a 'Login' button. The main content area has a heading 'Who We Are' followed by two columns of text. The left column discusses the mission of Annasetu to combat food waste through technology and community-driven efforts. The right column features a photograph of a hand reaching into a blue plastic bag filled with various food scraps like carrots, onions, and leafy greens. Below this, there are two more sections: 'Our Mission' and 'Our Vision', each with its own descriptive text and a corresponding photograph.

Who We Are

Annasetu, we believe that no one should go hungry while perfectly good food goes to waste. Our platform is dedicated to bridging the gap between surplus food and those in need by connecting donors, NGOs, and volunteers. With the power of technology and a community-driven approach, we ensure that excess food is collected, redistributed, and delivered to the right hands. By streamlining the donation process, we aim to foster a culture of sharing, responsibility, and sustainability, ultimately making a real difference in the fight against hunger.

The journey began when we witnessed firsthand the impact of food wastage at large events, restaurants, and households. Seeing untouched, nutritious meals being thrown away while people nearby suffered from hunger was heartbreaking. What if there was a way to rescue, repurpose, and redistribute this surplus? We realized that technology could serve as a powerful bridge, linking donors, NGOs, and volunteers in a seamless process that ensured no food went to waste. And thus, Annasetu was born—not just as a solution to food wastage, but as a movement to spread kindness, reduce hunger, and create a more sustainable world.

With the power of technology and a community-driven approach, we ensure that excess food is collected, redistributed, and delivered to the right hands. By streamlining the donation process, we aim to foster a culture of sharing, responsibility, and sustainability, ultimately making a real difference in the fight against hunger.

Our Mission

Our mission is to create a world where food is valued and shared, not wasted. We are committed to reducing food wastage by facilitating seamless connections between food donors and organizations that serve the underprivileged. Through our platform, we aim to simplify and optimize food donation logistics, making it easier for individuals, businesses, and institutions to contribute to hunger relief efforts.

Our Vision

We envision a future where every individual has access to nutritious food, and no meal goes to waste. Our goal is to create a sustainable ecosystem that transforms food surplus into an opportunity to nourish the underprivileged. By raising awareness, building strong partnerships, and leveraging technology, we aim to reshape the way people think about food waste and hunger.

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

- info@annasetu.org
- WhatsApp Us

Connect With Us

-
-
-
-

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Account Page:

The screenshot shows the 'My Profile' section of the Annamitra website. At the top left is a circular profile placeholder with the text '@Hardas'. To the right is a 'Personal Information' form with fields for Full Name (Hardas), Email (hardas@gmail.com), Phone Number, and Address. A blue 'Edit' button is located at the top right of the form. At the bottom of the page, there's a dark footer bar with 'THANKS FOR VISIT' centered above three columns: 'Quick Links', 'Contact', and 'Connect With Us'. The 'Quick Links' column includes links to Home, About Us, Contact Us, and Donate Food. The 'Contact' column has links for email (info@annasetu.org) and WhatsApp. The 'Connect With Us' column features icons for Facebook, Twitter, Instagram, and Email.

ANNA MITRA

Home About Contact Donate

Login

My Profile

@Hardas

Personal Information

Edit

Full Name
Hardas

Email
hardas@gmail.com

Phone Number

Address

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

info@annasetu.org

WhatsApp Us

Connect With Us

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Contact page:

The screenshot shows the contact page of the Annamitra website. At the top, there is a navigation bar with links for Home, About, Contact (which is underlined to indicate it's the current page), and Donate. There is also a Login button. The main content area has a light blue background. On the left, there is a white rounded rectangular form titled "Contact us". It contains three input fields: "Name", "Email", and "Message", followed by a large blue "Send Message" button. On the right side of the page, there is a light blue rectangular box containing a colorful illustration of people interacting with various communication icons like a phone, a laptop, and social media symbols.

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

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System Design Document - Annamitra

Donation Details Page:

Bakery surplus - Cakes and Pastries

Description: Delightful items from our popular bakery in Khan Market, includes cakes, pastries, and savory snacks.

#	Name	Type	Condition	Quantity	Cooked Date & Time	Expiry Date & Time	Images
1	Chocolate Truffle Pastries	Select Product	Fresh	40 Pieces	22/6/2023 09:00	N/A	
2	Pineapple Cake (1kg)	Select Product	Fresh	5 Pieces	22/6/2023 10:00	N/A	

Pickup Location

22 Khan Market
New Delhi, Delhi - 110001

[\[Open in Google Maps\]](#)

Pickup Requests from NGOs

Request ID	Organization	Date
F	Food Bank	22/6/2023
C	Caritas India	22/6/2023
G	Green Hope	22/6/2023
B	Bright Future	22/6/2023
S	Save World	22/6/2023
H	Hope Charity	22/6/2023
I	Food Relief	23/6/2023
J	Majlis Welfare	23/6/2023
K	Food Fund	23/6/2023
L	Life Saver	23/6/2023
M	Annamitra Trust	23/6/2023
N	Human Care	23/6/2023

Donate Food

Your contribution can make someone's day brighter

Food details:

Food Title:

Food Source:

Food Items:

#	Name	Type	Condition	Quantity	Cooked Date & Time	Expiry Date & Time	Images	Action
No food items available								
[Add More Items]								

Estimated people can be fed:

Description:

Food Image:
Upload an image of the food you're donating

Contact details:

Pickup Address:

You can also click on the map to set your address and coordinates

Contact person name:

Contact Number:

Email Address:

SUBMIT DONATION

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

info@annamitra.org

<https://www.linkedin.com/company/annamitra-foundation/>

Connect With Us

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate food

Contact

info@annamitra.org

[WhatsApp Us](https://www.whatsapp.com/65051440101)

Connect With Us

Donation Page - New item

Add new food item

X

Name

Your food title

Quantity

e.g., 5kg, 10 packets

Unit

Select Unit



Type

Select Food Type



Condition

Select Condition



Expiry Date (if applicable)

dd-mm-yyyy



Expiry Time (if applicable)

--:-- --



Cooked Date

dd-mm-yyyy



Cooked Time

--:-- --



Food Image

Choose Files

No file chosen

Upload an image of the food you're donating

Add now

Close

System Design Document - Annamitra

Donation - List Page:

The screenshot shows the 'Available Donations' section with 29 items found. The items are categorized and displayed in a grid:

- Street Food Vendor ... (New)**: Other category, Chandni Chowk, +91 9855556677, 3 items, Expires: 22/08/2025. View button.
- Donation of Package... (New)**: Corporate category, Cyber City, DLF Phase 2, +91 9855556677, 3 items, Expires: 01/09/2025. View button.
- Bakery surplus - Cak... (New)**: Bakery category, 22 Khan Market, +91 9855556677, 3 items, Expires: 22/08/2025. View button.
- Leftover Punjabi Cui... (New)**: Event category, 15 Connaught Place, +91 9855556677, 4 items, Expires: 22/08/2025. View button.
- Seasonal Fruit Donat... (New)**: Home category, Satellite Road, +91 9844445566, 2 items, Expires: 22/08/2025. View button.
- Hostel Mess Surplus ... (New)**: Hostel category, Navrangpura University Area, +91 9844445566, 4 items, Expires: 22/08/2025. View button.

THANKS FOR VISIT

Quick Links

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Contact

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- WhatsApp Us

Connect With Us



System Design Document - Annamitra

Donor Dashboard Page:

The screenshot displays the 'Donor Dashboard' page. At the top, there is a navigation bar with links for Home, About, Contact, Donate, and Login. Below the navigation bar, a banner says 'Welcome back! Thank you for making a difference in reducing food waste and helping those in need.' Four summary boxes are shown: Pending Donations (12), Assigned Donations (8), Completed Donations (25), and Total Donations (45). The main section, 'Donation Records', contains a table with 8 rows of data. Each row includes a number, title, food items, type, cook date & time, status, images, and actions (Edit and Delete).

#	Title	Food Items	Type	Cook Date & Time	Status	Images	Actions
1	Fresh Vegetables and Fruits	Carrots, Beans, Apples	Raw	2024-06-12 12:30	New		View all Edit Delete
2	Cooked Rice and Dal	Rice, Dal	Cooked	2024-06-13 12:30	Pending		View all Edit Delete
3	Packaged Snacks	Chips, Biscuits	Packaged	2024-06-10 12:30	Picked		View all Edit Delete
4	Bread and Bakery Items	Bread, Croissants	Bakery	2024-06-09 12:30	Completed		View all Edit Delete
5	Fruit Juices	Orange Juice, Apple Juice	Beverage	2024-06-13 12:30	New		View all Edit Delete
6	Leftover Pizza	Pizza Slices	Cooked	2024-06-12 12:30	Pending		View all Edit Delete
7	Dairy Products	Milk, Cheese	Dairy	2024-06-11 12:30	Picked		View all Edit Delete
8	Sweet Boxes	Laddu, Barfi	Packaged	2024-06-08 12:30	Completed		View all Edit Delete

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

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 WhatsApp Us

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System Design Document - Annamitra

Admin Dashboard Page:

The screenshot displays the Admin Dashboard Page for Annamitra. The top navigation bar includes links for Home, About, Contact, Donate, and Logout. The left sidebar, titled "AnnaMitra Admin Panel", contains links for Dashboard, Donations, Inquiries, Donors, NGOs, Volunteers, Admins, Manage Account, and Log Out. The main content area features a "Recent Donations" section with three rows of data. Each row includes a thumbnail image, the donation title, food items, type, cook date & time, status, and actions. A "View all" link is also present. Below this is a "THANKS FOR VISIT" message. At the bottom, there are "Quick Links", "Contact" information, and "Connect With Us" social media icons.

#	Title	Food Items	Type	Cook Date & Time	Status	Images	Actions
1	Fresh Vegetables and Fruits	Carrots, Beans, Apples	Raw	2024-06-12 12:30	New		View all Edit Delete
2	Cooked Rice and Dal	Rice, Dal	Cooked	2024-06-13 12:30	Pending		View all Edit Delete
3	Packaged Snacks	Chips, Biscuits	Packaged	2024-06-10 12:30	Picked		View all Edit Delete

THANKS FOR VISIT

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

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System Design Document - Annamitra

NGO Dashboard Page:

The screenshot displays the NGO Dashboard Page for Annamitra. The top navigation bar includes links for Home, About, Contact, Donate, and Logout. The left sidebar, titled "Annamitra NGO Panel", contains links for Dashboard, My Donations, Staff, Requests, Notifications, Manage Account, and Log Out. The main dashboard area shows four key metrics: Available Donations (53), Active Donations (3), Completed Donations (27), and Total Volunteers (18). Below these, a section titled "Active Donations" lists four items with images and details:

Item	Description	Status
Fresh Vegetables and Fruits	Local Restaurant	Pending
Cooked Rice and Dal	Community Kitchen	Pending
Packaged Snacks	Corporate Event	Picked
Bread and Bakes	Local Baker	Pending

The bottom of the page features a "THANKS FOR VISIT" message and a footer with Quick Links, Contact information, and social media links.

Quick Links

- > Home
- > About Us
- > Contact Us
- > Donate Food

Contact

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System Design Document - Annamitra

Volunteer Dashboard Page:

The screenshot displays the Volunteer Dashboard Page for the Annamitra system. The page has a dark blue header with the logo "ANNA MITRA" and navigation links for Home, About, Contact, and Donate. A Logout button is located in the top right corner. The main content area features a sidebar on the left with a navigation menu including Dashboard, My Assignments, Donations History, Notifications, NGOs, Manage Account, and Log Out. The main dashboard area shows a summary of tasks: 53 Pending Pickups, 3 Pending Deliveries, 27 Completed Donations, and 18 Total Tasks Completed. Below this is a section titled "Recent Donations" with a table listing three entries:

#	Title	Food Items	Type	Cook Date & Time	Status	Images	Actions
1	Fresh Vegetables and Fruits	Carrots, Beans, Apples	Raw	2024-06-12 12:30	New		View all Edit Delete
2	Cooked Rice and Dal	Rice, Dal	Cooked	2024-06-13 12:30	Pending		View all Edit Delete
3	Packaged Snacks	Chips, Biscuits	Packaged	2024-06-10 12:30	Picked		View all Edit Delete

A "View all" link is located at the top right of the donation table. Below the table, a "THANKS FOR VISIT" message is displayed. At the bottom of the page, there are sections for Quick Links, Contact information, and Connect With Us, along with copyright and legal links.

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