

# **VOLUNTECH**

**A Project Presented to  
The Faculty of College of Technology  
Lyceum of The Philippines University - Manila**

**"VolunTech: Empowering Communities Through Technology and Innovation**

**In Partial Fulfillment  
Of the requirements for the course of  
Bachelor of Science in Information Technology  
WSTL31C – Web Systems and Technology**

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**Submitted to:**

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**Date of submission**

# Web Development Documentation Outline

## 1. Title Page

1. Title: Voluntech
2. Members: Rafael Gerolaga, Agather Medina, John Matthew Valdoria
3. Date:
4. Version: V1.0

## 2. Table of Contents

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### 3. Project Overview

1. **Project Description:** Voluntech is a platform designed to bring volunteers and organizers together for meaningful collaboration. Our mission is to support community-driven initiatives by making it easier to find, manage, and participate in volunteer opportunities that align with Sustainable Development Goals (SDGs). Whether you're looking to volunteer or need help organizing a project, Voluntech provides the tools to make an impact.
2. **Type of Website:** Non-profit
3. **Target Audience:** Lyceum of the Philippines University Students, and Employees. (Volunteers)
4. **Project Objectives:**
  - a. **Facilitate Connections:** Bridge the gap between volunteers and organizers by providing a seamless platform to connect and collaborate.
  - b. **Promote SDG-Aligned Volunteering:** Encourage volunteer activities that support SDG 17 (Partnerships for the Goals) and other related sustainable development objectives.
5. **Scope: Features included in the project (and what's excluded)**
  - a. **Home:** Overview of the platform featured events, and benefits for both volunteers.
  - b. **Volunteer Opportunities:** A section to browse and apply volunteering events.
  - c. **Donate:** A page to browse and donate to chosen foundations fundraising.
  - d. **User Dashboard:** Personalized dashboard for volunteers to manage profiles, applications, and project statuses.
  - e. **SDG Focus:** Information on SDG 17 and other relevant goals, along with related opportunities and how volunteering contributes to sustainable development.
  - f. **Get Started / Login:** Entry points for new users to sign up or existing users to log in to their accounts.

### 4. Requirements Specification

#### 4.1 Functional Requirements

1. Core features and functionality (e.g., login, search, contact forms)
  - a) **Login**
    - Allow users to log in with a username and password.
    - Provide an option for "Forgot Password" functionality.
    - Display error messages for incorrect login credentials.
  - b) **Registration**
    - Enable users to create an account with necessary fields (e.g., name, email, password).
    - Validate inputs to ensure strong passwords and unique email addresses.
    - Users can choose their skill areas and causes that they are interested in.
  - c) **Forgot Password**
    - Allow users to reset their password via email.
  - d) **Home Page**
    - Display a welcoming interface with navigation to key sections (e.g., Dashboard, Volunteer Page, Donate Page).
    - Include highlights of recent activities, news, or updates.

e) **Dashboard**

- Provide a personalized view for logged-in users.
- Include quick links to key actions (e.g., view donations, manage account, sign up for volunteer opportunities).
- Display relevant metrics.

f) **Landing Page**

- Offer an engaging overview of the platform's purpose and features.
- Highlight call-to-action buttons (e.g., "Donate Now," "Volunteer" "Learn More").

g) **Volunteer Page**

- Display available volunteer opportunities with descriptions.
- Allow reserve their slot in the volunteering events.
- Include an unjoin button to cancel their participation.

h) **Donate Page**

- Provide options for one-time donations.
- Offer a confirmation receipt and thank-you message after donation.

2. User interactions and workflows

a) **Login Workflow**

- User navigates to the Login Page.
- Enter email and password.
- System validates credentials:
- If valid, the user is redirected to the Home page.
- If invalid, an error message is displayed.

b) **Registration Workflow**

- User navigates to the Registration Page.
- Fills out required fields (e.g., name, email, password).
- System validates inputs
- User is redirected to Home Page

c) **Forgot Password Workflow**

- User clicks "Forgot Password" on the Login Page.
- Enters registered email address.
- System sends a password reset link.
- User clicks the link and sets a new password:
- If successful, a confirmation message is displayed.
- If unsuccessful, an error message is displayed.

d) **Home Page Interaction**

- User lands on the Home Page.
- Navigates to key sections via menu or buttons (e.g., Dashboard, Volunteer Page).

e) **Dashboard Interaction**

- Logged-in user accesses personalized Dashboard.

- Views metrics, recent activities, or update profile.
- Performs actions such as managing accounts.

f) **Volunteer Workflow**

- Users visit the Volunteer Page.
- Click "Volunteer" for a selected opportunity.
- An overlay will open for user verification
- User can click join event or reserve their slot or cancel to go back to volunteer page
- User can click unjoin button to remove their slot

g) **Donation Workflow**

- User navigates to the Donate Page.
- User Clicks Donate
- Enter the amount of donation in PHP
- Select Payment method (not implemented)
- System processes the payment:
- If successful, displays a confirmation and display a receipt.
- If unsuccessful, displays an error message.

## 4.2 Non-Functional Requirements

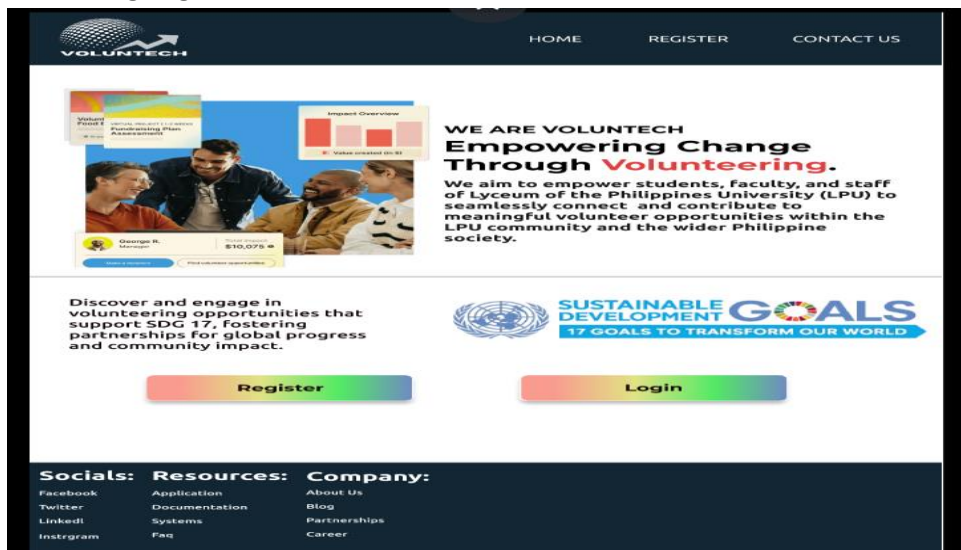
1. Performance requirements (e.g., load time, concurrent users)
2. Security considerations (e.g., data encryption, authentication)
3. Scalability requirements
4. Accessibility standards (e.g., WCAG compliance)
5. SEO guidelines

## 5. Design Documentation

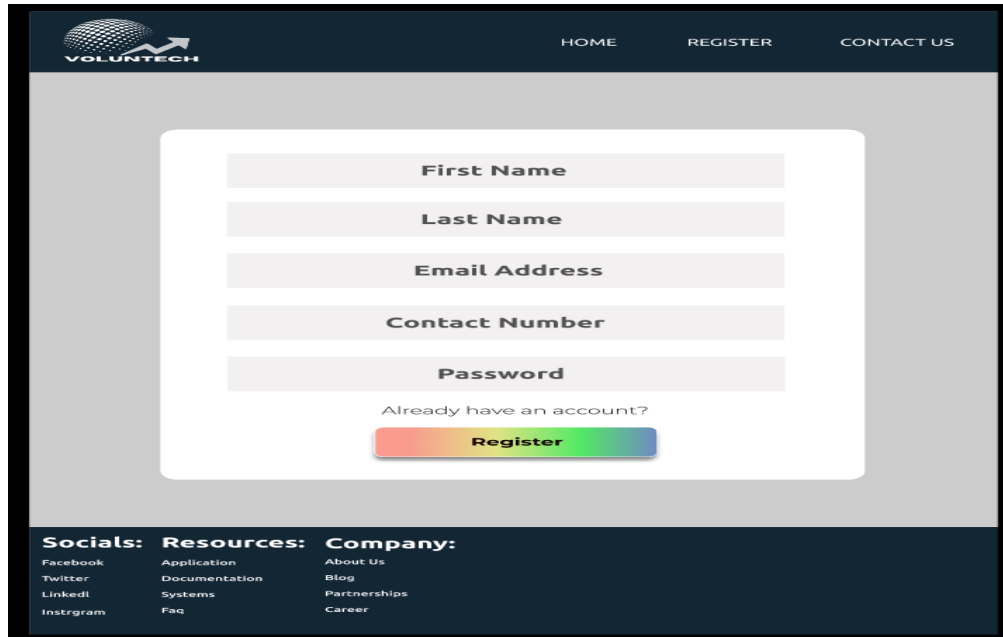
### 5.1 Wireframes and Mockups

1. Low-fidelity wireframes for page layouts

#### 1. Landing Page



## 2. Register Page:



The Register Page features a dark blue header with the VOLUNTECH logo on the left and navigation links for HOME, REGISTER, and CONTACT US on the right. The main content area is a light gray rectangle containing a white registration form. The form has five input fields labeled First Name, Last Name, Email Address, Contact Number, and Password. Below these fields is a link that says "Already have an account?" and a colorful "Register" button. The footer is a dark blue bar with three columns of links: Socials (Facebook, Twitter, LinkedIn, Instagram), Resources (Application, Documentation, Systems, Faq), and Company (About Us, Blog, Partnerships, Career).

**VOLUNTECH** HOME REGISTER CONTACT US

**First Name**

**Last Name**

**Email Address**

**Contact Number**

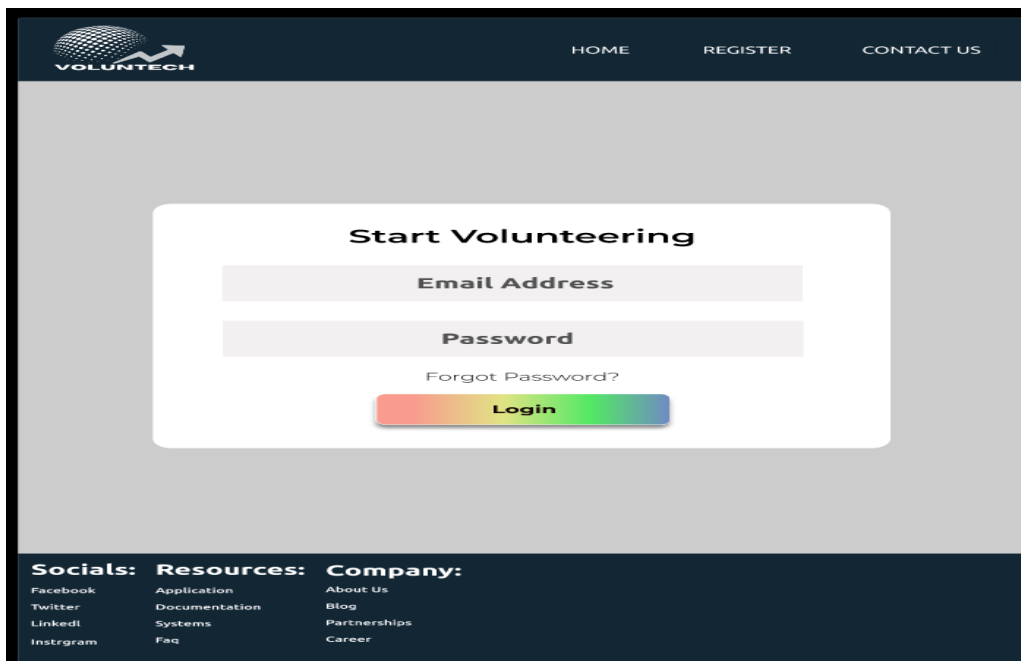
**Password**

Already have an account?

**Register**

**Socials:** Facebook, Twitter, LinkedIn, Instagram  
**Resources:** Application, Documentation, Systems, Faq  
**Company:** About Us, Blog, Partnerships, Career

## 3. Login Page:



The Login Page features a dark blue header with the VOLUNTECH logo on the left and navigation links for HOME, REGISTER, and CONTACT US on the right. The main content area is a light gray rectangle containing a white login form. The form has two input fields labeled Email Address and Password. Below these fields is a link that says "Forgot Password?" and a colorful "Login" button. The footer is a dark blue bar with three columns of links: Socials (Facebook, Twitter, LinkedIn, Instagram), Resources (Application, Documentation, Systems, Faq), and Company (About Us, Blog, Partnerships, Career).

**VOLUNTECH** HOME REGISTER CONTACT US

**Start Volunteering**

**Email Address**

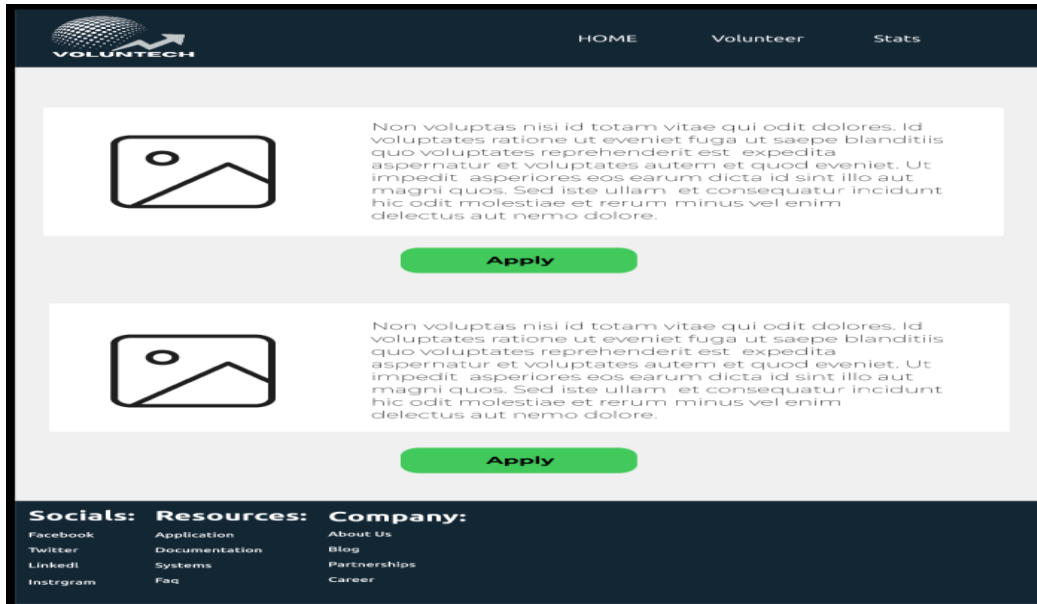
**Password**

Forgot Password?

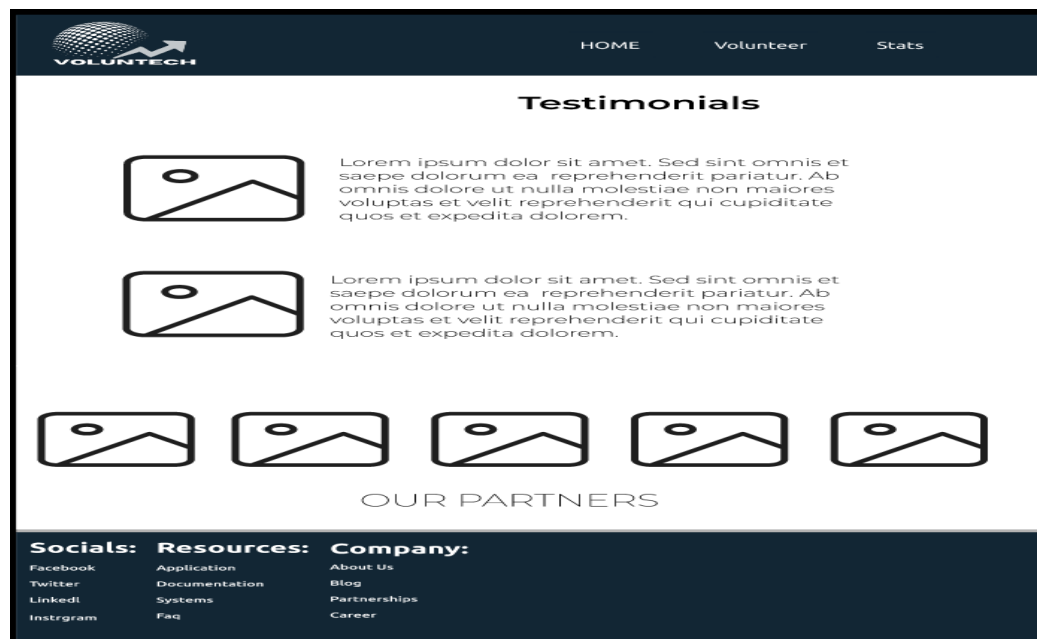
**Login**

**Socials:** Facebook, Twitter, LinkedIn, Instagram  
**Resources:** Application, Documentation, Systems, Faq  
**Company:** About Us, Blog, Partnerships, Career

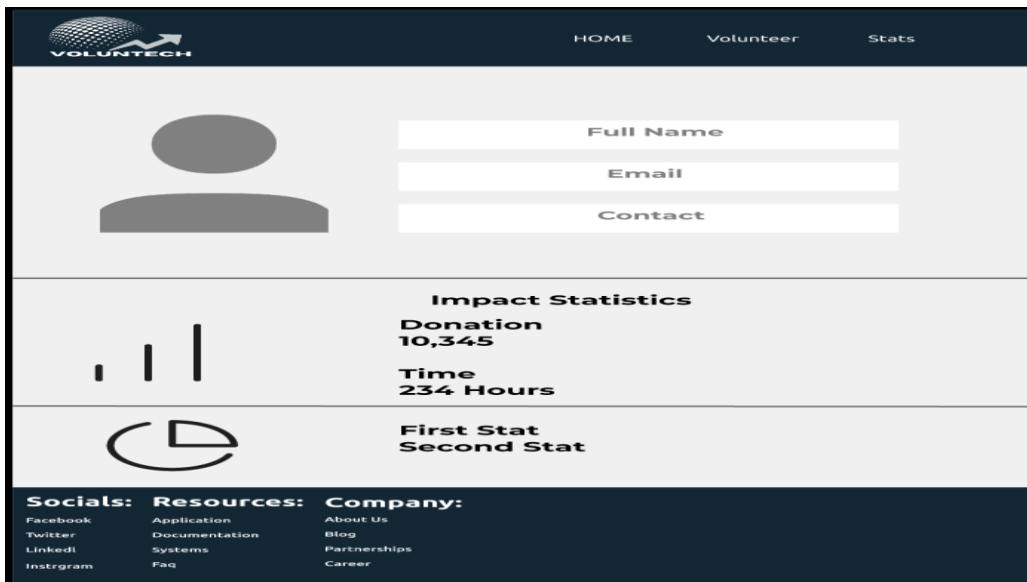
## 4. Volunteer Page



## 5. Home Page

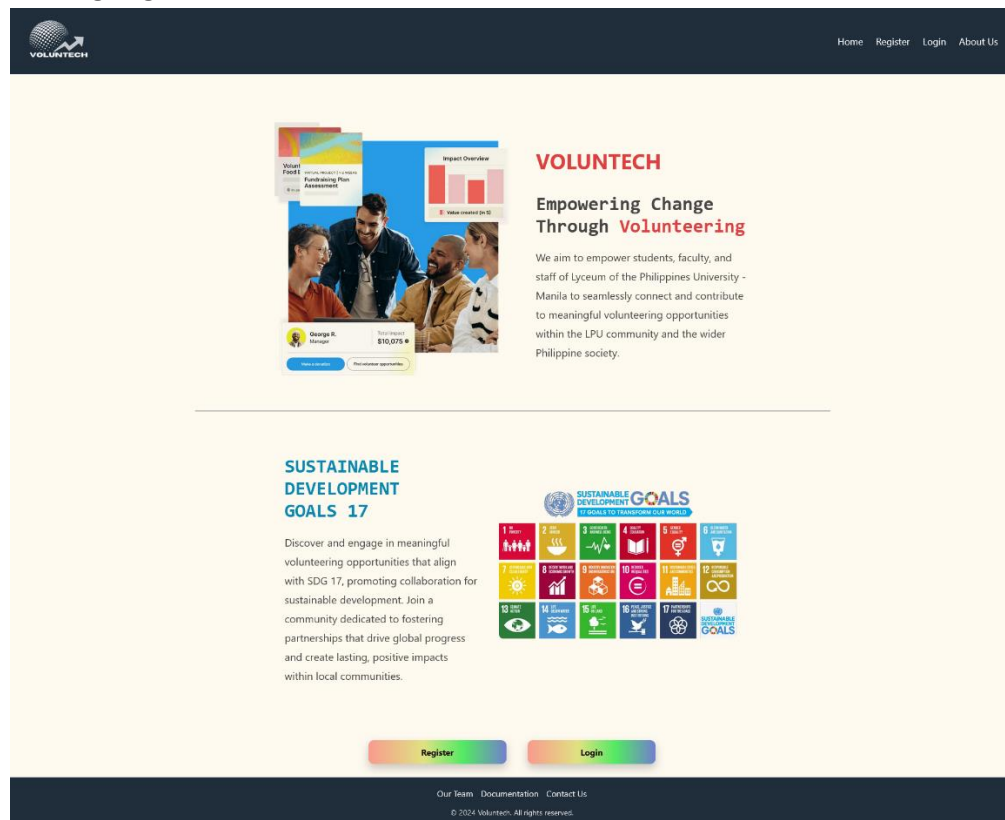


## 6. Stats/ User Dashboard




## 2. High-fidelity mockups with design details

### a. Landing Page





## b. Registration Page



HomeRegisterLoginAbout Us

### Join Our Volunteer Community

Embark on a meaningful journey to **MAKE A DIFFERENCE**

Select your age range

Select your Gender

☐ Show Password


Already have an account?

Submit

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## c. Login Page



HomeRegisterLoginAbout Us

### Already have an account?


Log in to your account

[Forgot Password?](#)

Login

Founded in 2024, we have grown significantly over the years, thanks to our commitment to continuous improvement and customer satisfaction. We believe in building strong relationships with our clients and always strive to exceed their expectations.

## d. About Us

[Home](#) [Register](#) [Login](#) [About Us](#)

### About Us


Welcome to Voluntech! We are dedicated to making a positive impact in our community through various initiatives and events. Our team is passionate about bringing people together to support meaningful causes and create lasting change.

Our mission is to empower individuals and communities by providing resources, support, and opportunities for growth and development. We believe in the power of collaboration and strive to build strong partnerships with like-minded organizations and individuals.

Join us on our journey to make a difference. Whether you are looking to volunteer, donate, or simply learn more about our work, we welcome you to be a part of our community.


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## e. Contact Us

[Home](#) [Register](#) [Login](#) [About Us](#)

### Contact Us

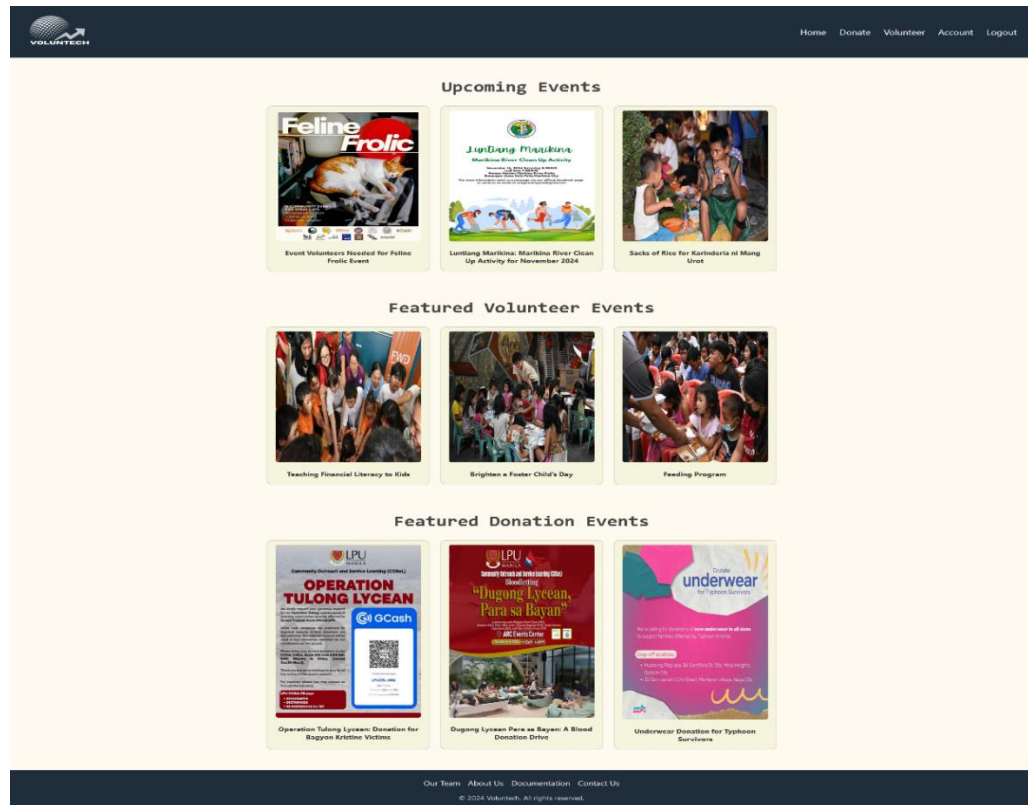
### Get In Touch



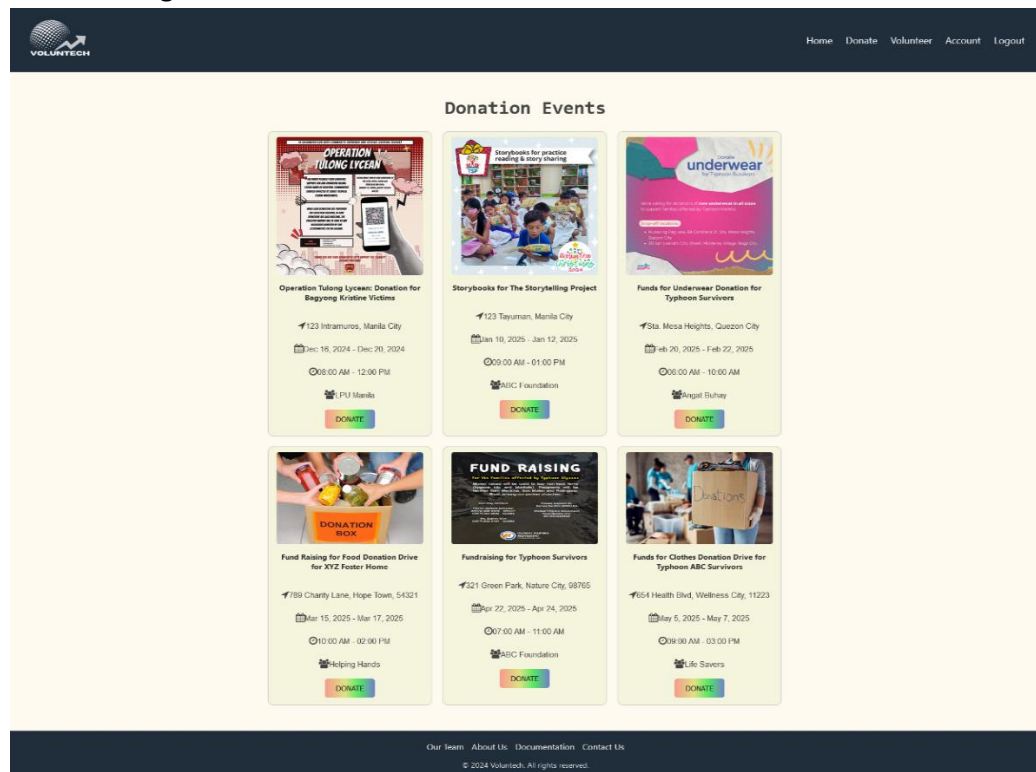
Submit

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## f. Home Page



## g. Donation Page




h. Volunteer Page



HomeDonateVolunteerAccountLogout

Volunteering Events



Event Volunteers Needed for Feline Frolic Event


Communa, Makati City, 56789

Dec 20, 2024

07:00 AM - 11:00 AM

Animal Protectors

Volunteer



Marikina River Clean Up Activity for November 2024


123 Marikina, Marikina City, 12345

Jan 10, 2025

09:00 AM - 01:00 PM

Green Earth Volunteers

Volunteer



Be part of our Forest Restoration Activities


456 Forest Ave, Green City, 67890

Feb 20, 2025

08:00 AM - 10:00 AM

Green Living Org

Volunteer



Library Reading Program


789 Charity Lane, Hope Town, 54321

Mar 15, 2025

10:00 AM - 02:00 PM

Helping Hands

Volunteer



Brighten a Foster Child's Day


321 Green Park, Nature City, 98765

Apr 22, 2025

07:00 AM - 11:00 AM

Happy Foundation

Volunteer



Feeding Program

654 Health Blvd, Wellness City, 11223

May 5, 2025

09:00 AM - 03:00 PM


Life Savers

Volunteer

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i. User Dashboard



HomeDonateVolunteerAccountLogout

User Dashboard

My History

Profile

Account

Logout

Hi, User!

Dashboard

43

Total Volunteer of Hours

23,340

Total Donations (PHP)

13

Total Events Joined

650

Average Contributions

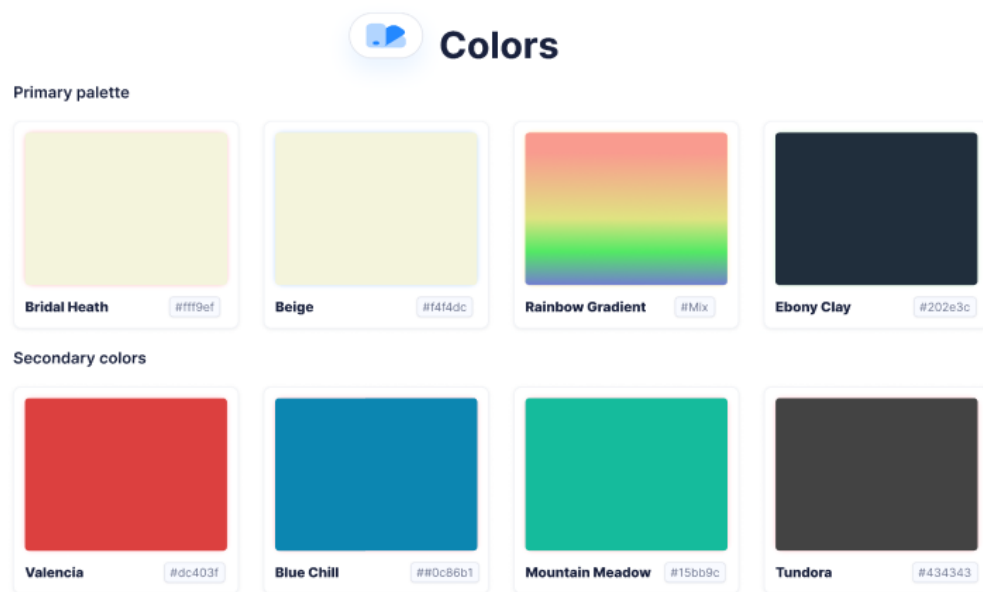
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## 5.2 UI/UX Design

### 1. Color schemes, typography, and branding guidelines

#### a. Color Schemes



#### b. Typography



c. Logo



2. Users experience flows (e.g., navigation)

a. **Guest User Flow**

Landing Page (index.php)



[Navigation Options]



Register Login About Us Home

b. **Authenticated User Flow**

Home (home.php)



[Main Navigation]



Donate Volunteer Account Logout

c. **Account Page Flow**

Dashboard



[Sidebar Navigation]



History Profile Account Logout

## 5.3 Responsive Design

### 1. Layouts for mobile, tablet, and desktop views

#### a. Mobile View

- Use a single-column layout for easy vertical scrolling.
- Optimize navigation with a collapsible menu (hamburger icon).
- Ensure touch-friendly elements (e.g., larger buttons, appropriate spacing).

#### b. Tablet View

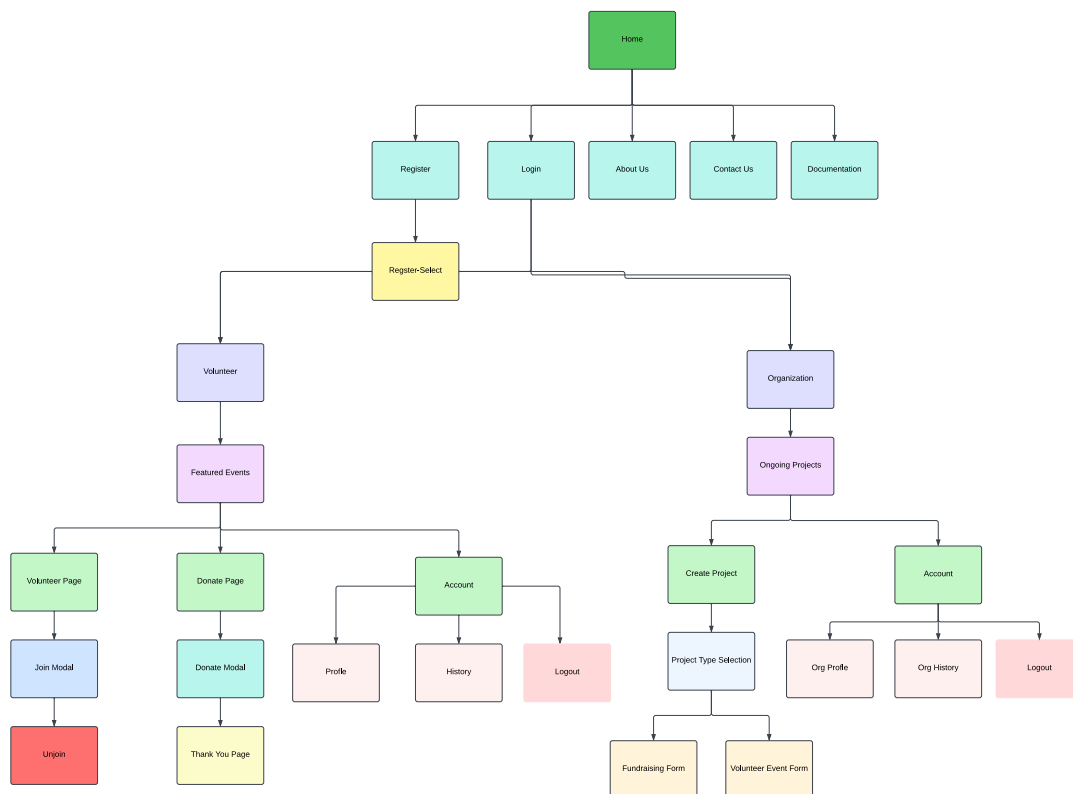
- Use a two-column layout where applicable for better use of screen space.
- Adjust navigation menus to fit wider screens while remaining touch-friendly.
- Optimize images and text sizes for mid-sized displays.

#### c. Desktop View

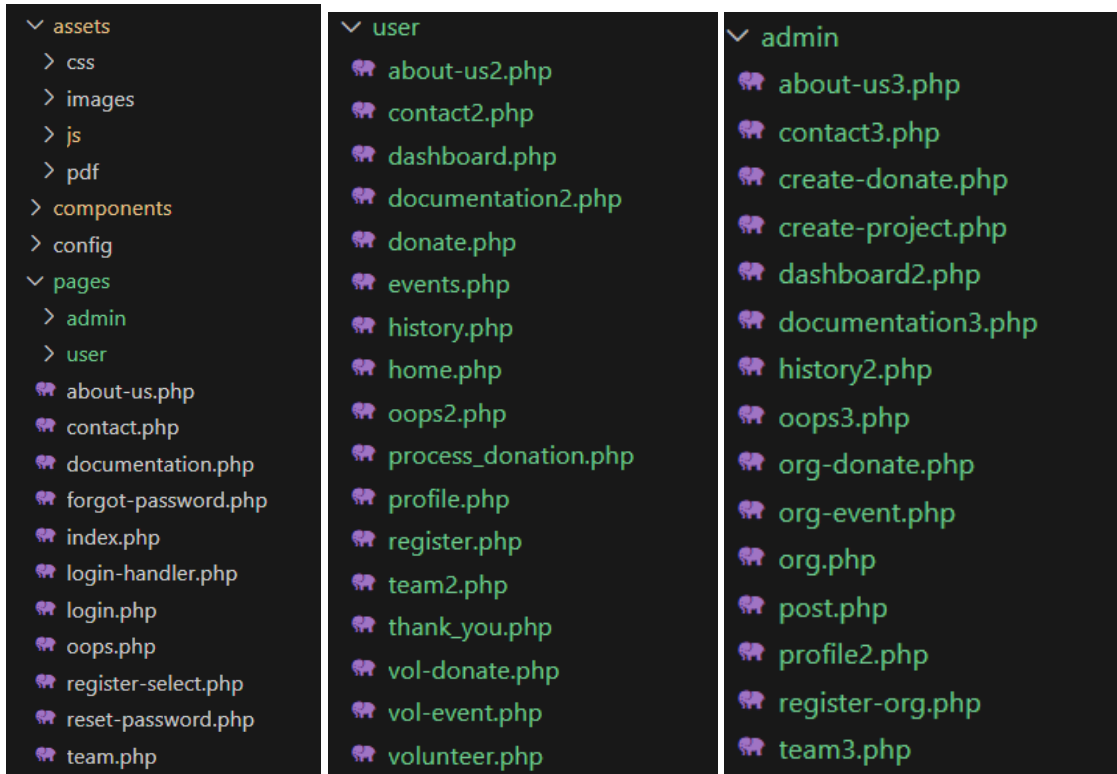
- Use a multi-column layout for complex pages (e.g., Dashboard).
- Display full navigation menus with dropdowns where necessary.
- Leverage larger screen real estate for enhanced visuals and information density.

## 5.4 Information Architecture

### 2. Sitemap (hierarchy of pages)



### 3. Content structure and organization



## 6. Technical Stack

### 6.1 Frontend Technologies

1. HTML5, CSS3, JavaScript frameworks (e.g., React, Angular, Vue.js)
  - a. HTML5
  - b. JavaScript

### 6.2 Backend Technologies

2. Server-side languages (e.g., Node.js, Python, PHP)
  - a. PHP
3. Frameworks (e.g., Express, Django, Laravel)
  - a. None

### 6.3 Database

1. Type (e.g., SQL, NoSQL)
  - a. NoSQL (MongoDB)
2. Schema design

### 6.4 APIs and Integrations

1. Third-party APIs (e.g., payment gateways, social media)
  - a. None
2. Custom API endpoints
  - a. None

### 6.5 Hosting and Deployment

1. Hosting service (e.g., AWS, Netlify, Vercel, GitHub Pages)



- a. None
- 2. Deployment process and CI/CD pipelines
  - a. None

## **7. Development Roadmap**

Milestones and Phases:

- 1. Planning
- 2. Design
- 3. Development
- 4. Testing
- 5. Deployment

**Timeline: Gantt chart or milestone schedule**