Charitable Organization Project Manual

## Project Proposal:

### Motivation:

- 100+ Women Who Care Naperville is a local chapter of a global network of giving circles that meet four times a year to donate to various charities.

- The current website of 100+ Women Who Care Naperville is outdated, unappealing and hard to navigate.

- A website revision would likely improve the online presence and outreach of the organization.

Challenges:

- The current website lacks a clear and consistent design, branding and layout.

- The current website does not have a user-friendly interface for members to register, donate, nominate charities, and vote.

- The current website does not have a social media integration to engage with the community and potential donors.

- The current website is not consistent across all devices.

### New Features:

- A Design that is easily viewable on any device.

- Content that showcases the organization's history, achievements, testimonials, and stories.

- Functionality that allows members to easily sign up, make payments, submit nominations, and cast votes online.

- Integration that connects with the organization's Facebook page and Instagram account

Goals:

- To create a new website that will meet the goals of the external organization and the organization's members.

- To increase the visibility, credibility, and attractiveness of the organization to potential donors and charities.

- To enhance the user experience, satisfaction, and loyalty of the organization's members.

Approach:

- Conduct a user research and analysis to understand the needs, preferences, and behaviors of the target audience.

- Apply the principles of user-centered design, usability testing and accessibility guidelines to create a user-friendly website.

User Scenario:

- A user who wants to join 100 Women Who Care Naperville visits the new website and finds a clear and inviting homepage that explains the organization's mission, vision, and values.

- The user clicks on the "Join Us" button and fills out a simple online form with their name, and email address.

- The user receives a confirmation email with their membership details and a link to access the members-only area of the website.

- The user logs in to the members-only area and sees a dashboard that displays their profile, nomination status and voting options.\*

- The user can easily nominate a charity of their choice by filling out another online form with the charity's name, description and contact information.\*

- The user can also view the nominations of other members and vote for their favorite one by clicking on a "Vote Now" button.\*

- The user can also access other features of the website such as social media links, blog posts and newsletter subscriptions.

User Type:

- The user type for this website is a woman who lives in Naperville or nearby areas, who cares about giving back to the community and who wants to be part of a network of like-minded women.

## Requirements

In this section, we will specify the requirements for setting up the project, including the necessary tools, their purpose, integration within the project, and installation instructions.

### 1. Tools and Technologies

#### 1.1. HTML5 and CSS3

Purpose: To create the structure and layout of the webpage, as well as style the visual presentation.

Integration: HTML5 will be used to create the markup for the newsletter sign-up form, while CSS3 will be used to style the form, making it visually appealing and user-friendly.

#### 1.2. JavaScript

Purpose: To add interactivity and client-side validation to the newsletter sign-up form.

Integration: JavaScript will be used to validate user inputs, display error messages, and ensure that the form is submitted only when all inputs are valid.

#### 1.3. Web Browser

Purpose: To render and display the newsletter sign-up form to end-users.

Integration: The form will be compatible with modern web browsers such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge.

#### 1.4. Text Editor or Integrated Development Environment (IDE)

Purpose: To write, edit, and manage the source code for the project.

Integration: Any text editor or IDE can be used, such as Visual Studio Code, Sublime Text, or Atom.

### 2. Installation and Setup

#### 2.1. Installing a Text Editor or IDE

Choose a text editor or IDE suitable for your needs (e.g., Visual Studio Code, Sublime Text, or Atom).

Download and install the text editor or IDE according to the instructions provided on their respective websites.

#### 2.2. Setting Up the Project

Create a new directory for the project on your local machine.

In the project directory, create three files: index.html, styles.css, and script.js.

Copy the provided HTML code into the index.html file.

Copy the provided CSS code (found within the <style> tags in the HTML file) into the styles.css file.

Create the necessary JavaScript code for form validation and interactivity, then add it to the script.js file.

Open the index.html file in your preferred web browser to preview the newsletter sign-up form.

By following these steps, you will have successfully set up the project and installed the necessary tools.

Database: This section should specify the database and the tables used for the project. An Entity-relational diagram is to be included in this section to show the relations between all the data entities. Identify any data consumed or produced by your application.

Some potential Tables we could use

users

id (Primary Key)

first\_name

last\_name

email

password (hashed)

join\_date

role (admin, member)

last\_login

donations

id (Primary Key)

user\_id (Foreign Key from users table)

amount

date

charity\_id (Foreign Key from charities table)

payment\_status

charities

id (Primary Key)

name

description

contact\_info

website

nominated\_by (Foreign Key from users table)

nomination\_date

nominations

id (Primary Key)

user\_id (Foreign Key from users table)

charity\_id (Foreign Key from charities table)

nomination\_date

votes

id (Primary Key)

user\_id (Foreign Key from users table)

charity\_id (Foreign Key from charities table)

vote\_date

events

id (Primary Key)

title

description

date

location

event\_attendance

id (Primary Key)

user\_id (Foreign Key from users table)

event\_id (Foreign Key from events table)

attendance\_status (attended, not\_attended, pending)

Application Workflow: Provide professional looking diagrams detailing the application workflow, for example producing a flow diagram that shows how each web page connects to other web pages. You must have at least 15 diagram boxes modeling your workflow. Also, supply screenshots of your project with documentation so others (application users) can better understand the application workflow.

Features table: Create a table showing the features of your project. Describe the feature. Specify the software software(s) you used. Mark if the feature was an added feature, improved upon feature, a feature that already existed (for projects that were taken on from the previous Capstone semester) and for a feature that can be added later. An example of a feature would be adding a secure login system using role authentication, or it can be a development feature such as migrated from just a php, css project to a Laravel, or Node.js framework in order to organize the project better and provide easier client installation and maintenance.

| Feature | Description | Software/Framework | Status |
| --- | --- | --- | --- |
| Responsive Web Design | A design that adapts to different screen sizes and devices. | HTML5, CSS3, Flexbox | Added Feature |
| Consistent Design and Branding | A unified visual identity and layout throughout the website. | CSS3 | Improved Feature |
| User-friendly Registration | Easy registration process for new members. | HTML5, CSS3, JavaScript | Added Feature |
| Charity Nomination & Voting System | A user-friendly interface for members to nominate and vote for charities | JavaScript, PHP, MySQL | Added Feature |
| Member Dashboard | A dashboard that displays the user's profile, and voting options. | HTML5, CSS3, JavaScript, PHP, MySQL | Added Feature |
| Social Media Integration | Connect the website with the organizations Facebook and Instagram accounts. | PHP, JavaScript, Facebook/Instagram API | Added Feature |

Project Planning: You can use GitHub issues and projects to manage your project. This section will summarize these issues as the project tasks are to be completed during the semester and identify who is responsible for carrying out the tasks throughout the duration of the semester.

## Test Planning

### Introduction

The purpose of the test plan is to ensure that the website meets the required functionality and usability standards. This test plan covers various testing strategies, including unit testing, integration testing, and user acceptance testing. We will also create a test database to demonstrate different scenarios during the final demo.

### Test Objectives

Ensure the website's functionality works as expected.

Identify and fix any bugs or defects.

Validate the user experience and ensure it meets the project requirements.

Verify that the website is responsive and works across different devices and screen sizes.

### Test Strategies

Unit Testing: Test individual components of the website (e.g., functions, modules) in isolation.

Integration Testing: Test the interaction between components to ensure they work together correctly.

User Acceptance Testing (UAT): Verify that the website meets the project requirements and is user-friendly.

### Test Case 1: User Registration

Test valid user input and ensure successful registration.

Test invalid user input and verify that the system displays appropriate error messages.

Test duplicate email addresses and verify that the system rejects them.

### Test Case 2: Charity Nomination & Voting System

Test the nomination process, including valid and invalid input.

Test the voting process, ensuring that votes are correctly recorded and tallied.

Test the system's handling of multiple simultaneous nominations or votes.

### Test Case 3: Member Dashboard

Test that the dashboard displays accurate information for the user.

Test the functionality of the voting options within the dashboard.

Test the user's ability to update their profile information.

### Test Case 4: Social Media Integration

Test the integration with Facebook and Instagram APIs.

Test the display of social media content on the website.

Test sharing features, such as sharing a charity nomination or voting results.

### Test Data and Database

Generate test data for the database to support the test scenarios.

Create a test database with realistic data, including user profiles, charity nominations, and voting records.

Use the test database during the final demo to show the different scenarios in which the data is populated on the website.

### Test Environment

Set up a test environment that replicates the production environment as closely as possible.

Ensure that all necessary software, frameworks, and tools are installed and configured correctly.

Establish version control and deployment processes for testing purposes.

### Test Schedule

Allocate sufficient time for each testing phase (unit, integration, and user acceptance testing).

Allow time for bug fixing and retesting.

Establish a timeline for testing and final demo preparation.

By following this test plan, we will ensure that the website is fully functional, user-friendly, and meets the project requirements.

Were you able to accomplish all that you planned? This section should provide a final summary of the project and suggest a list of future features.

Member Contributions: