Charitable SDF

Table of Contents

- 1.0 Preliminary Status Sheets
- 2.0 Project Proposal Documents and Presentation Slides
- 4.0 Software Development Plan
 - 4.1 Plan Introduction
 - 4.1.1 Project Deliverables
 - 4.2 Project Resources
 - 4.2.1 Hardware Resources
 - 4.2.2 Software Resources
 - 4.3 Project Organization
 - 4.4 Project Schedule
 - 4.4.1 Task Table
 - 4.4.2 PERT Chart
 - 4.4.3 Class Schedule

5.0 Requirements Specification

- 5.1 Introduction
- 5.2. CSCI Component Breakdown
- 5.3 Functional Requirements
 - 5.3.1 Web-app Front-end Functionality
 - 5.3.2 Server Functionality
 - 5.3.3 Database Functionality
- 5.4 Performance Requirements
 - 5.4.1 Performance Requirement 1
- 5.5 Project Environment Requirements
 - 5.5.1 Development Environment Requirements
 - 5.5.2 Execution Environment Requirements

4.0 Software Development Plan

4.4 Project Schedule

PERT Document

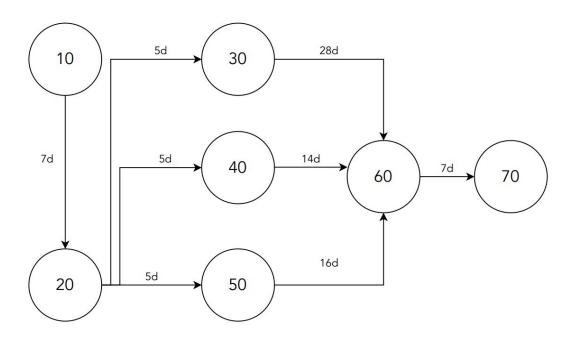
This document intends to outline the development schedule for the web application, Charitable, and its optimistic timeline for development. On the next two pages, you will find a table that lists the milestones, activities, and tasks necessary to complete development. Each milestone, activity, and task has an associated number. These numbers are used to represent its corresponding milestone, activity, or task in the PERT charts that follow the table. Overall, this application is aimed to be completed in 47 days, or roughly 7 weeks.

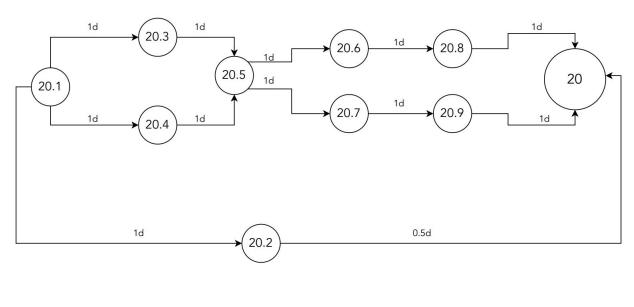
4.4.1 Task Table

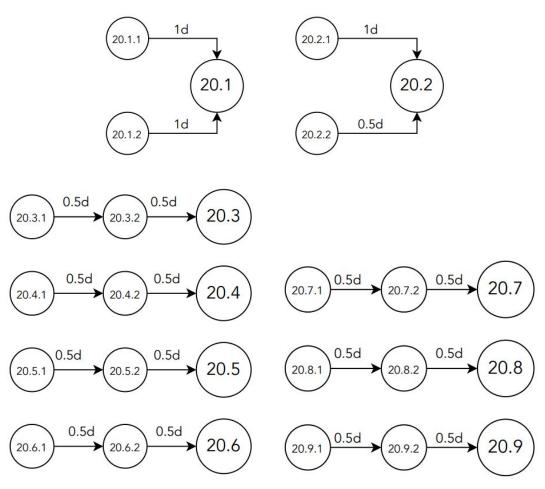
PERT Table					
Milestones		Activities		Tasks	
Project Proposal	10				
Create Art/	20				
		Pick global styles	20.1	Pick site font	20.1.1
		,		Pick site colors	20.1.2
		Create Logo	20.2	Draw Logo	20.2.1
		3		Create Favicon.ico	20.2.2
		Create Login Page Prototype	20.3	Create Adobe XD Mockup	20.3.1
		3 3 1		Connect to other mockups	20.3.2
		Create Signup Page Prototype	20.4	Create Adobe XD Mockup	20.4.1
				Connect to other mockups	20.4.2
		Create Navigation Bar	20.5	Create Adobe XD Mockup	20.5.1
				Connect to other mockups	20.5.2
		Create Trending Page Prototype	20.6	Create Adobe XD Mockup	20.6.1
				Connect to other mockups	20.6.2
		Create Search Page Prototype	20.7	Create Adobe XD Mockup	20.7.1
	-	Create Timeline Base Breatens	20.0	Create Adobe XD Mockup	20.7.2
		Create Timeline Page Prototype	20.8	Connect to other mockups	20.8.2
	- 7	Create User Profile Page Prototype	20.9	Create Adobe XD Mockup	20.9.1
		Create oser Frome rage Prototype	20.7	Connect to other mockups	20.9.2
Build Website	30			Connect to other mockups	20.7.2
diid Website	30	Puild Login Page	20.1	Sat up third party AuthO	30.1.1
		Build Login Page	30.1	Set up third party Auth0	
		Build Cianus Bana	20.2	Customize Login Page	30.1.2
		Build Signup Page	30.2	Set up third party Auth0	30.2.1
		B III III	20.0	Customize Signup Page	30.2.2
		Build Navigation Bar	30.3	Create charitable logo compo	
				Create search bar component	
				Create trending icon compon	
				Create home icon component	
				Create profile icon componer	
				Connect icon buttons to redir	
				Modify for dynamic browser s	30.3.7
		Build Trending Page		Create Scroll View	30.4.2
				Create Scroll View	30.4.4
				Create Display box	30.4.3
				Modify for dynamic browser	30.4.5
	6	Build Search Page	30.5	Create Web Page	30.5.1
				Create Scroll View	30.5.2
				Create Scroll View	30.5.4
				Create Display Box	30.5.3
				Modify for dynamic browser	30.5.5
		Build Timeline Page	30.6	CreateWeb Page	30.6.1
		Service district and the control of		Create Scroll View	30.6.2
				Create Scroll View	30.6.3
				Create Individual Post	30.6.4
				Create "Create a Post"	30.6.5
				Add options to attach	30.6.6
				Create Join Friend	30.6.7
				Create profile photo	30.6.8

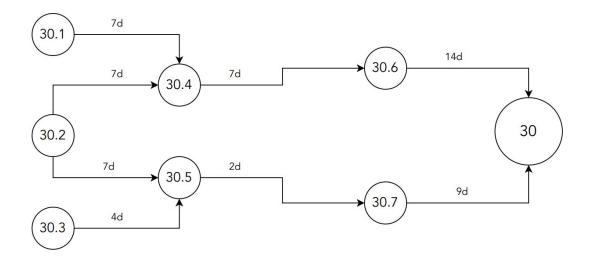
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		Build User Profile Page	30.7	Create Web Page	30.7.1
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				Create Scroll View	30.7.3
				Create Individual Post	30.7.4
				Create "Create a Post"	30.7.5
				Add options to attach	30.7.6
				Create Join Friend	30.7.7
				Create profile photo	30.7.8
				Create Banner Component	30.7.9
				Add user information	30.7.10
8 8 8 8 8 8 8				Create edit profile button	30.7.11
				Modify for dynamic browser	30.7.12
Build Database	40				
		Build Organization Entity	40.1	Obtain organization data	40.1.1
		19 (4 509 5 63 2003) 500 5 9		Create organizations table	40.1.2
				Parse data dump	40.1.3
				Add organizations to table	40.1.4
		Build Activity and Event Entity	40.2	Obtain activity data dump	40.2.1
				Create activity table	40.2.2
				Parse data dump	40.2.3
				Add activites to table	40.2.4
				Allow for user created events	
		Build User Entity	40.3	Create user table	40.3.1
		Duna oser Erritty	40.5	Add users when they sign up	
				Allow for user data to be	40.3.3
Build Server	50				10.0.0
				Connect frontend to server	
		100 gs 100 000 000 0000		api so that it can display the	
		Make API Calls	50.1	data	50.1.1
				API call to database when	
				user does a search	50.1.2
				API call to database to add	
				user data specific to	
				database	50.1.3
				API call to get user data	
				specific data from the	EO 1 4
				database API call to database to add	50.1.4
				events	50.1.5
				API call to database to get	30.1.3
				events	50.1.6
				Configure API to make calls	20.1.0
		Deploy Server	50.2	in non-localhost env	50.2.1
ntegrate	60			Transfer of the second	
		Test		Run site on server to check	60.1.1
		Debug	60.2	Fix issues and text again until	
Deploy Site	70				
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PERT Charts



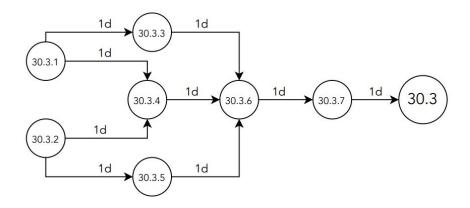


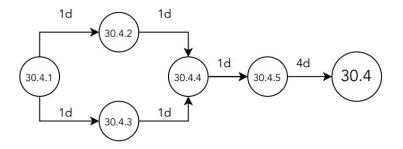


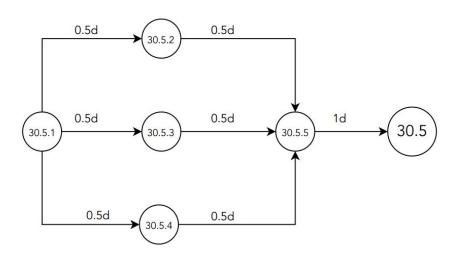


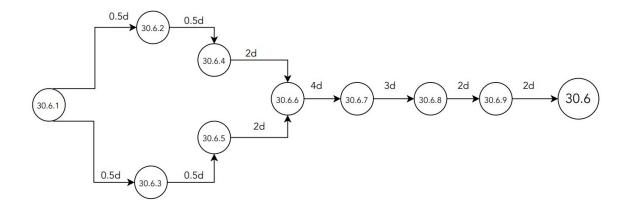


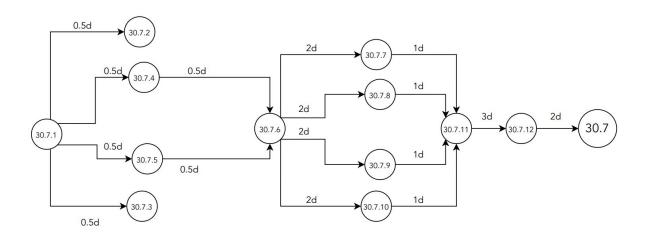


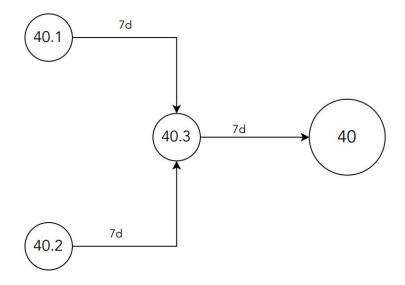


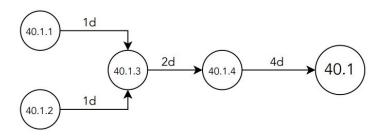


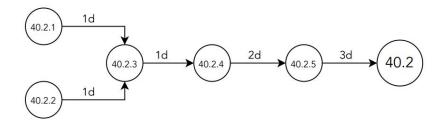


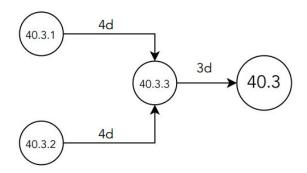


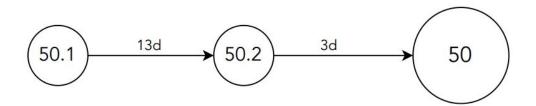


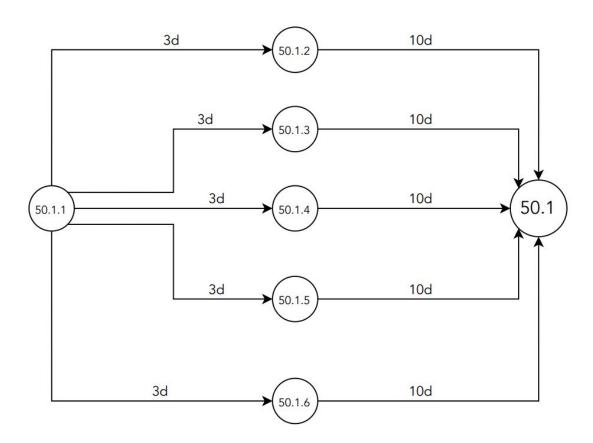


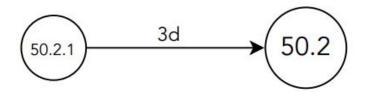


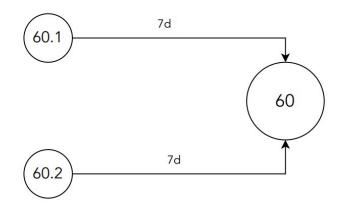




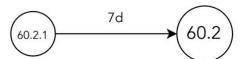


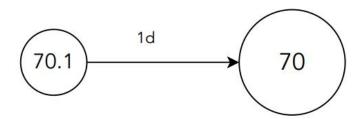


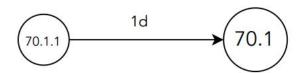












5.0 Requirements Specification

5.1 Introduction

This system is built as a web application using React. The system is composed of a web application front-end, a server, and a database back-end that holds datasets for the registered users of the app as well as organizations the app can access. The diagram below illustrates the components of this system. The system will be using an API to perform get and post operations within the application. The system will also use queries to parse the back-end database. This document will

- 1. List and describe the components of this system.
- 2. Discuss the functionality requirements of the system and its components.
- 3. Discuss the performance requirements of the system.
- 4. Discuss the project environment requirements for the system.

Charitable: High Level Diagram

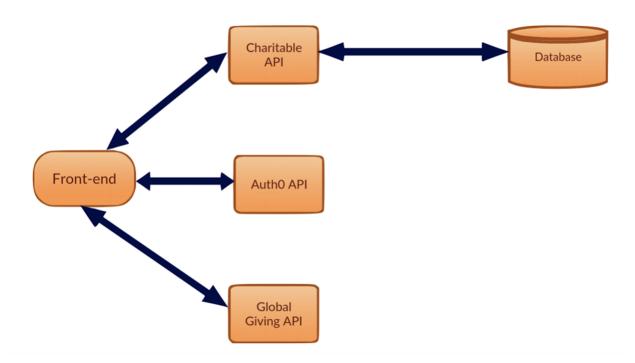


Figure 1.0

5.2 CSCI Component Breakdown

5.2.1 Web Application Front-End CSC

-- Front-end web page interface for user interaction with the system.

5.2.1.1 Login Page CSU

-- Web page for logging into system.

5.2.1.2 Signup Page CSU

-- Web page for registering in system.

5.2.1.3 Timeline Page CSU

-- Web page to display the user and user's friend activity.

5.2.1.4 Trending Page CSU

-- Web page to display trending organizations in the nation.

5.2.1.5 User Profile Page CSU

-- Web page for editing and maintaining user information.

5.2.1.6 Search Results Page CSU

-- Web page to display user search results.

5.2.1.7 Navigation Bar CSU

-- UI element used to navigate between web pages in application.

5.2.2 Server CSC

-- Backend server to allow the front-end web page to interact with the database.

5.2.3 Database CSC

-- Backend database to hold datasets for the system.

5.2.3.1 User Dataset

-- Data table to hold registered user information.

5.2.3.2 Organization Dataset

-- Data table to hold registered organization information.

5.2.3.3 Activities and Events Dataset

-- Data table to hold registered activities and events.

5.3 Functional Requirements

5.3.1 Web Application Front-End CSC

- 5.3.1.1 The web application front-end shall be displayed in a web browser.
- 5.3.1.2 The web application front-end shall react to mouse clicks on displayed buttons.
- 5.3.1.3 The web application front-end shall be composed of 6 web pages.
- 5.3.1.4 The web application front-end shall have one page for logging into the system.

This page will be known as the Login Page.

5.3.1.4.1 The Login Page shall display the Charitable Logo.

This logo will require no action.

- 5.3.1.4.2 The Login Page shall provide an option for Google login.
- 5.3.1.4.3 The Login Page shall provide 2 text entry fields.
- 5.3.1.4.4 The Login Page shall provide one text entry field for an email address entry.

This text entry field will be known as the Login Email Field.

5.3.1.4.5 The Login Page shall provide a second text entry field for a password entry.

This text entry field will be known as the Login Password Field. This Login Password Field will hide the text entered by replacing each character typed with a dot.

5.3.1.4.6 The Login Page shall provide a link to reset a password.

This link will be known as the Password Reset Link.

- 5.3.1.4.7 The Password Reset Link shall redirect to a third party account service called Auth0 upon a mouse click.
- 5.3.1.4.8 The Login Page shall display a button to complete the login.

This button will be known as the Login Button.

- 5.3.1.4.9 The Login Button shall redirect the web page to the user account tied to the login credentials upon mouse click.
- 5.3.1.4.10 The Login Page shall provide an option to a signup page.

This link will be known as the Signup Link.

- 5.3.1.4.10 The Signup Link shall redirect the web page to a third party account service called Auth0 upon mouse click.
- 5.3.1.5 The web application front-end shall have one page for registering in the system.

This page will be known as the Signup Page.

5.3.1.5.1 The Signup Page shall display the Charitable Logo.

This logo will require no action.

- 5.3.1.4.2 The Signup Page shall provide options for Google login.
- 5.3.1.5.3 The Signup Page shall provide 2 text entry fields.

5.3.1.5.4 The Signup Page shall provide one text entry field for an email address entry.

This text entry field will be known as the Signup Email Field.

5.3.1.5.5 The Signup Page shall provide one text entry field for a password entry.

This text entry field will be known as the Signup Password Field. This Signup Password Field will hide the text entered by replacing each character typed with a dot.

This Signup Password Field will provide a button to reveal the text entered.

- 5.3.1.5.6 The Signup Page shall state that by signing up you agree to the terms and policies.
- 5.3.1.5.7 The Signup Page shall display a button to complete the account registration.

This button will be known as the Signup Button.

- 5.3.1.5.8 The Signup Button shall redirect the webpage to the Login Page upon mouse click.
- 5.3.1.5.9 The Signup Page shall provide a link to the Login Page.

This link will be known as the Login Link.

- 5.3.1.5.10 The Login Link shall redirect the webpage to the Login Page upon mouse click.
- 5.3.1.6 The web application front-end shall have one page for displaying the user and user's friend activity.

 This page will be known as the Timeline Page.
 - 5.3.1.6.1 The Timeline Page shall display a scroll view.

5.3.1.6.2 The scroll view shall display rectangular text boxes stacked vertically.

These rectangular text boxes will be known as Posts.

5.3.1.6.3 The scroll view's first element above the Posts shall display a rectangular box for creating a new post to the timeline.

This rectangular box will be known as the Create New Post Box.

5.3.1.6.4 The Create New Post Box shall provide a text entry field.

This text entry field will be known as the Caption Text Box.

5.3.1.6.5 The Create New Post Box shall provide a button to attach a file.

This button will be known as the Attach File Button.

5.3.1.6.6 The Attach File Button shall open a popup upon mouse click.

This popup will be known as the Attach File Popup.

- 5.3.1.6.7 The Attach File Button shall access the files of the computer system the application is being used on.
- 5.3.1.6.8 The Attach File Popup shall display the files on the computer system the application is being used on.
- 5.3.1.6.9 The Attach File Popup shall display a button to complete the file attachment.

This button will be known as the Open File Button.

5.3.1.6.10 The Open File Button shall attach the chosen file from the popup to the text entered in the Caption Text Box upon mouse click.

5.3.1.6.11 The Attach File Popup shall display a button to close the file popup.

This button will be known as the Cancel File Attachment Button.

- 5.3.1.6.12 The Cancel File Attachment Button shall close the file popup upon mouse click.
- 5.3.1.6.13 The Create New Post Box shall provide a button to attach an image.

This button will be known as the Attach Image Button.

5.3.1.6.14 The Attach Image Button shall open a popup upon mouse click.

This popup will be known as the Attach Image Popup.

- 5.3.1.6.15 The Attach Image Button shall access the files of the computer system the application is being used on.
- 5.3.1.6.16 The Attach Image Popup shall display the files on the computer system the application is being used on.
- 5.3.1.6.17 The Attach Image Popup shall display a button to complete the image attachment.

This button will be known as the Open Image Button.

- 5.3.1.6.18 The Open Image Button shall attach the chosen image from the popup to the text entered in the Caption Text Box upon mouse click.
- 5.3.1.6.19 The Attach Image Popup shall display a button to close the file popup.

This button will be known as the Cancel Image Attachment Button.

- 5.3.1.6.20 The Cancel Image Attachment Button shall close the file popup upon mouse click.
- 5.3.1.6.21 A Post shall display the profile picture of the user creating the Post.
- 5.3.1.6.22 A Post shall display the name of the user creating the Post.
- 5.3.1.6.23 A Post shall display the date the Post was created.
- 5.3.1.6.24 A Post shall display the location the user creating the Post specifies.
- 5.3.1.6.25 A Post shall display any text message entered in the Create New Post Box.
- 5.3.1.6.26 A Post shall display any attachments of images attached to the Post.
- 5.3.1.6.27 The scroll view shall display any posts created by the user or the user's connections on the application in the order of date created.
- 5.3.1.7 The web application front-end shall have one page for displaying trending organizations.

This page will be known as the Trending Page.

- 5.3.1.7.1 The Trending Page shall display a scroll view. This scroll view will be displayed on the left half of the page.
- 5.3.1.7.2 The Trending Page shall display a text box.

This text box will be displayed on the right half of the page.

5.3.1.7.3 The scroll view shall display rectangular text boxes stacked vertically.

These rectangular boxes will be known as Trending Listings.

- 5.3.1.7.4 Each Trending Listing shall display the name of a trending organization in the nation.
- 5.3.1.7.5 Each Trending Listing shall display the logo of a trending organization in the nation.
- 5.3.1.7.6 Each Trending Listing shall display the mission statement of a trending organization in the nation.
- 5.3.1.7.7 The Trending Listing shall respond to a mouse click.

The mouse click on a Trending Listing in the scroll view will create a new selection in the scroll view.

- 5.3.1.7.8 A selected Trending Listing from the scroll view shall be outlined in the color blue.
- 5.3.1.7.9 The text box shall display information about the organization that is selected from the scroll view.
- 5.3.1.7.10 The default selection in the scroll view shall be the first Trending Listing.
- 5.3.1.7.11 The text box shall display a button to save the organization.

This button will be known as the Save Trending Organization Button.

The Save Trending Organization Button will be the shape of a heart.

- 5.3.1.7.12 The Save Trending Organization Button shall display the outline of a heart when the organization is not saved.
- 5.3.1.7.13 The Save Trending Organization Button shall display a filled heart when the organization is saved.
- 5.3.1.7.14 The Save Trending Organization Button shall respond to a mouse click.

The mouse click on the Save Trending Organization Button will change the outline of the heart to a filled heart if the organization had not been saved.

The mouse click on the Save Trending Organization Button will change the filled heart to an outline of a heart if the organization had been saved.

5.3.1.8 The web application front-end shall have one page for displaying a user profile.

This page will be known as the User Profile Page.

5.3.1.8.1 The User Profile Page shall display a profile photo.

This profile photo will be displayed in the shape of a circle. This profile photo will be displayed at the top of the left side of the web page.

5.3.1.8.2 The User Profile Page shall display a banner photo.

This banner photo will be displayed in the shape of a rectangle. This banner photo will begin where the profile photo is placed. This banner photo will extend across the page.

5.3.1.8.3 The User Profile Page shall display the user first name.

This first name will be displayed on the banner photo.

This first name will be displayed to the right of the profile photo.

5.3.1.8.4 The User Profile Page shall display the user last name.

This last name will be displayed to the right of the first name on the banner photo.

5.3.1.8.5 The User Profile Page shall display a user biography.

This biography will be displayed under the name on the banner photo.

5.3.1.8.6 The User Profile Page shall display the user's location if specified.

This location will be displayed to the right of the biography

- 5.3.1.8.7 The User Profile Page shall display 2 scroll views.
- 5.3.1.8.8 The User Profile Page shall display one scroll view on the majority of the left side of the web page. This scroll view will be known as the Timeline Scroll View.
- 5.3.1.8.9 The Timeline Scroll View shall be displayed under the profile photo and banner photo.
- 5.3.1.8.10 The Timeline Scroll View shall display rectangular text boxes stacked vertically. These rectangular text boxes will be known as Posts.

5.3.1.8.11 The Timeline Scroll View's first element above the Posts shall always be a rectangular box for creating a new post to the timeline.

This rectangular box will be known as the Create New Post Box.

5.3.1.8.12 The Create New Post Box shall provide a text entry field.

This text entry field will be known as the Caption Text Box.

5.3.1.8.13 The Create New Post Box shall provide a button to attach a file.

This button will be known as the Attach File Button.

5.3.1.8.14 The Attach File Button shall open a popup upon mouse click.

This popup will be known as the Attach File Popup.

- 5.3.1.8.15 The Attach File Button shall access the files of the computer system the application is being used on.
- 5.3.1.8.16 The Attach File Popup shall display the files on the computer system the application is being used on.
- 5.3.1.8.17 The Attach File Popup shall display a button to complete the file attachment.

This button will be known as the Open File Button.

- 5.3.1.8.18 The Open File Button shall attach the chosen file from the popup to the text entered in the Caption Text Box upon mouse click.
- 5.3.1.8.19 The Attach File Popup shall display a button to close the file popup.

This button will be known as the Cancel File Attachment Button.

- 5.3.1.8.20 The Cancel File Attachment Button shall close the file popup upon mouse click.
- 5.3.1.8.21 The Create New Post Box shall provide a button to attach an image.

This button will be known as the Attach Image Button.

5.3.1.8.22 The Attach Image Button shall open a popup upon mouse click.

This popup will be known as the Attach Image Popup.

- 5.3.1.8.23 The Attach Image Button shall access the files of the computer system the application is being used on.
- 5.3.1.8.24 The Attach Image Popup shall display the files on the computer system the application is being used on.
- 5.3.1.8.25 The Attach Image Popup shall display a button to complete the image attachment.

This button will be known as the Open Image Button.

- 5.3.1.8.26 The Open Image Button shall attach the chosen image from the popup to the text entered in the Caption Text Box upon mouse click.
- 5.3.1.8.27 The Attach Image Popup shall display a button to close the file popup.

This button will be known as the Cancel Image Attachment Button.

5.3.1.8.28 The Cancel Image Attachment Button shall close the file popup upon mouse click.

- 5.3.1.8.29 A Post shall display the name of the user creating the Post.
- 5.3.1.8.30 A Post shall display the date the Post was created.
- 5.3.1.8.31 A Post shall display the location the user creating the Post specifies.
- 5.3.1.8.32 A Post shall display any text message entered in the Create New Post Box.
- 5.3.1.8.33 A Post shall display any attachments of images attached to the Post.
- 5.3.1.8.34 The Timeline Scroll View shall display any posts created by the user in the order of date created.
- 5.3.1.8.35 The User Profile Page shall display a second scroll view on the right side of the web page.

 This scroll view will be known as the Saved Scroll View.
- 5.3.1.8.36 The Saved Scroll View shall be displayed under the profile photo and banner photo.
- 5.3.1.8.37 The Saved Scroll View shall display rectangular text boxes vertically.

These rectangular text boxes will be known as Saved Listings.

5.3.1.8.38 Each Saved Listing shall display the name of a trending organization in the nation.

- 5.3.1.8.39 Each Saved Listing shall display the logo of a trending organization in the nation.
- 5.3.1.8.40 Each Saved Listing shall display the mission statement of a trending organization in the nation.
- 5.3.1.8.41 The Saved Listing shall respond to a mouse click.

The mouse click on a Saved Listing in the scroll view will create a new selection in the scroll view.

- 5.3.1.8.42 A selected Saved Listing from the scroll view shall be outlined in the color blue.
- 5.3.1.8.43 Selecting a Saved Listing from the scroll view shall open a popup.

This popup will be known as the Saved Listing Information Popup.

- 5.3.1.8.44 The Saved Listing Popup shall display information about the selected Saved Listing.
- 5.3.1.8.45 The Saved Listing Popup shall display a scroll view if the information does not fit on the popup.
- 5.3.1.8.46 The Saved Listing Popup shall provide a button in the shape of an 'x' at the top right of the popup.

This button will be known as the Close Saved Button.

- 5.3.1.8.47 The Close Saved Button shall close the Saved Listing Popup upon mouse click.
- 5.3.1.9 The web application front-end shall have one page for displaying search results.

This page will be known as the Search Results Page.

5.3.1.9.1 The Search Results Page shall display a scroll view.

This scroll view will be displayed on the left half of the page.

5.3.1.9.2 The Search Results Page shall display a text box.

This text box will be displayed on the right half of the page.

5.3.1.9.3 The scroll view shall display rectangular text boxes vertically.

These rectangular boxes will be known as Search Result Listings.

- 5.3.1.9.4 Each Search Result Listing shall display the name of an organization or person that matches the search query.
- 5.3.1.9.5 Each Search Result Listing shall display the logo or profile photo of the organization or person.
- 5.3.1.9.6 Each Search Result Listing shall display the mission statement or biography of the organization or person.
- 5.3.1.9.7 The Search Result Listing shall respond to a mouse click.

The mouse click on a Search Result Listing in the scroll view will create a new selection in the scroll view.

5.3.1.9.8 A selected Search Result Listing from the scroll view shall be outlined in the color blue.

5.3.1.9.9 The text box shall display information about the organization that is selected from the scroll view.

5.3.1.9.10 The default selection in the scroll view shall be the first Search Result Listing.

5.3.1.9.11 The text box shall display a button to save the organization.

This button will be known as the Save Searched Organization Button.

The Save Searched Organization Button will be the shape of a heart.

5.3.1.9.12 The Save Searched Organization Button shall display the outline of a heart when the organization is not saved.

5.3.1.9.13 The Save Searched Organization Button shall display a filled heart when the organization is saved.

5.3.1.9.14 The Save Searched Organization Button shall respond to a mouse click.

The mouse click on the Save Searched Organization Button will change the outline of the heart to a filled heart if the organization had not been saved.

The mouse click on the Save Searched Organization Button will change the filled heart to an outline of a heart if the organization had been saved.

5.3.1.10 The web application front-end shall display a bar to navigate between web pages in the application. This element will be known as the Navigation Bar.

5.3.1.10.1 The Navigation Bar shall display the Charitable Logo at the left.

This logo will require no action.

5.3.1.10.2 The Navigation Bar shall provide a text entry field to enter a search query.

This text entry field will be known as the Search Bar.

The Search Bar will be displayed to the left of the Charitable Logo.

5.3.1.10.3 The Search Bar shall be required to respond to the Key press of the keyboard 'Enter' key.

This response will redirect the web page to the Search Results Page.

The Search Results page will be populated with the search results of the search query.

5.3.1.10.4 The Navigation Bar shall display a button to navigate to the Trending Page.

This button will be known as the Trending Button.

The Trending Button will be in the shape of an upward pointing trendline.

The Trending Button will be displayed to the left of the Search Bar.

5.3.1.10.5 The Navigation Bar shall display a button to navigate to the Timeline Page.

This button will be known as the Home Button.

The Home Button will be in the shape of a house.

The Home Button will be displayed to the left of the Trending Button.

5.3.1.10.6 The Navigation Bar shall display a button to navigate to the User Profile Page.

This button will be known as the Profile Button.

The Profile Button will be in the shape of the outline of a person's head and shoulders.

The Profile Button will be displayed to the left of the Home Button.

5.3.1.10.7 The Navigation Bar shall appear on all web pages in the application with the exception of the Login and Signup Pages.

5.3.2 Server CSC

- 5.3.2.1 The server shall be built using Next.js and Flask.
- 5.3.2.2 The server shall communicate actions on the web page to the database back-end.

5.3.3 Database CSC

- 5.3.3.1 The database shall be composed of 3 data entities.
- 5.3.3.2 The database shall host a user entity.
 - 5.3.3.2.1 The user entity shall store a primary key id attribute.

This attribute will be a unique identifier for each user.

- 5.3.3.2.2 The user entity shall store a user first name attribute.
- 5.3.3.2.3 The user entity shall store a user last name attribute.
- 5.3.3.2.4 The user entity shall store a user password attribute.
- 5.3.3.3 The database shall host an organization entity.
 - 5.3.3.3.1 The organization entity shall store a primary key id attribute.
 - 5.3.3.2 The organization entity shall store an organization name attribute.
 - 5.3.3.3 The organization entity shall store a mission statement attribute.
 - 5.3.3.4 The organization entity shall store a website url attribute.
- 5.3.3.4 The database shall host an activity and event entity.

- 5.3.3.3.1 The activity and event entity shall store an organization id attribute.
- 5.3.3.2 The organization entity shall store a user id attribute.
- 5.3.3.3 The organization entity shall store a description attribute.
- 5.3.3.4 The organization entity shall store a website url attribute.

5.4 Performance Requirements

- 5.4.1 This product shall be based on the web.
 - -- This product must be used on a web browser.
- 5.4.2 This product shall take its initial load time based on internet connection strength.
 - -- This product must be used on a web browser.
- 5.4.3 This product's web application front-end shall be intuitive.
 - -- Users shall feel comfortable navigating the web app front-end, for it shall be reflective of other social media platform's functionalities.
- 5.4.4 The first signup shall be processed in 5 seconds.
 - -- When a user clicks on the Signup Button after entering their credentials into the text entry fields, it should take no more than 5 seconds for the system to register the new user and redirect the web page to the login page.
- 5.4.5 The first login shall be processed in 5 seconds.
 - -- When a user clicks on the Login Button after entering their credentials into the text entry fields, it should take no more than 5 seconds for the system to access the users account and log them into the system.
- 5.4.6 The first search request results shall be returned in 15 seconds.

--When a user enters a search query into the Search Bar, it should take no more than 15 seconds for the system to send the query to the database and return the first matching search result.

5.4.9 A post shall be completed in 10 seconds.

--When a user creates a new post, it should take no more than 10 seconds for the system to send the post to the server and have the post appear on the user timeline.

5.4.10 A friend request shall be completed in 10 seconds.

--When a user requests to connect with another user, it should take no more than 5 seconds for the system to process the request and notify the other user.

5.4.12 Trending page shall load trending results in 20 seconds.

-- When a user navigates to the trending web page, the results for trending organizations should take no more than 10 seconds.

5.4.13 Trending organizations shall update every hour.

-- The Global Giving API should update trending organizations every hour.

5.4.14 Profile picture updates shall be processed in 10 seconds.

-- Updates made to a user's profile photo should take no more than 10 seconds.

5.4.15 Profile banner updates shall be processed in 10 seconds.

-- Updates made to a user's banner should take no more than 10 seconds.

5.4.16 Profile biography updates shall be processed in 10 seconds.

-- Updates made to a user's biography should take no more than 10 seconds.

5.4.17 Loading Timeline results shall be processed in 10 seconds.

-- When visiting your own timeline, the general timeline should load in no more than 10 seconds.

- 5.4.18 Timeline updates shall be processed in 15 seconds.
 - -- Updates made to a user's timeline, new posts from user's, new posts from other users, should take no more than 10 seconds.
- 5.4.19 Loading a user's profile photo shall be processed in 10 seconds.
 - -- When visiting a user's profile, the profile photo should load in no more than 10 seconds.
- 5.4.20 Loading a user's banner shall be processed in 10 seconds.
 - -- When visiting a user's profile, the banner should load in no more than 10 seconds.
- 5.4.21 Loading a user's biography shall be processed in 10 seconds.
 - -- When visiting a user's profile, the biography should load in no more than 10 seconds.
- 5.4.22 Saving an organization shall add the organization to the user's saved list in 15 seconds.
 - -- When a user saves an organization to their profile, the organization should be added to their saved list in no more than 15 seconds.
- 5.4.23 Selecting a different trending or search result shall render the information in the display box in 10 seconds.
 - -- When a user selects a trending or search result, the information about the selected result should take no more than 10 seconds to render in the display box.

5.5 Project Environment Requirements

5.5.1 Development Hardware Requirements

Following are the hardware requirements for Charitable:

Category	Requirement
Processor	1.8 GHz Intel Core i5
Display	13.3-inch (1440 x 900)

Hard Drive Space	500MB
Memory	8 GB 1600 MHz DDR3

Following are the software requirements for Charitable:

Category	Requirement
Operating System	Mac, Windows, Linux
Compiler	Babel
Graphics	Adobe XD Figma Material UI
Collaboration and Version Control	GitHub VS Code
Front-End Framework	React.js Next.js
Server	Flask
Database	PostgreSQL
Development Framework	Agile SCRUM
SCRUM Manager	Jira
Web Browser	Any web browser that can run JavaScript

5.5.2 Execution Hardware Requirements

Following are the hardware requirements for Charitable:

Category	Requirement
Processor	1.8 GHz Intel Core i5
Memory	8 GB 1600 MHz DDR3

Following are the software requirements for Charitable:

Category	Requirement		
Operating System	Mac, Windows, Linux		
Web Browser	Any web browser that can run JavaScript		