



# Lakeshore Misfits

## Website Color Generator App

Final Presentation



01

# Our Team

Meet the team members!

xxx

# Our Team

Our CIS641 Project Team is comprised of:

**Khiem Nguyen**

**Selena Cade**

**Munmi Thakuria**

xxx

xxx

# Team Passion

Our passions were the inspiration our project:

**Khiem Nguyen** - Art, Illustration, and Science

**Selena Cade** - Web Accessibility & Usability

**Munmi Thakuria** - Application Design

xxx



02

# Project Overview

Our Application Goals

xxx

# Our Project

The Website Color Generator App is a web design tool intended to help developer generate and select aesthetically pleasing colors for their website that meets either AA or AAA WCAG Web Accessibility Guidelines.

xxx

# What sets us apart?

## Our App

- + Generate harmonious colors
- + Apply colors to a mock layout
- + **Checks and Accounts for Web Accessibility**
- + **One-Click Color Adjustment Process**
- + **User Friendly and Simple Layout**

## Others

- + Generate harmonious colors
- + Apply colors to a mock layout
- **Ignores Web Accessibility**
- **No (or Manual) Color Adjustments**
- **Not User Friendly**



**03**

# **Application Features**





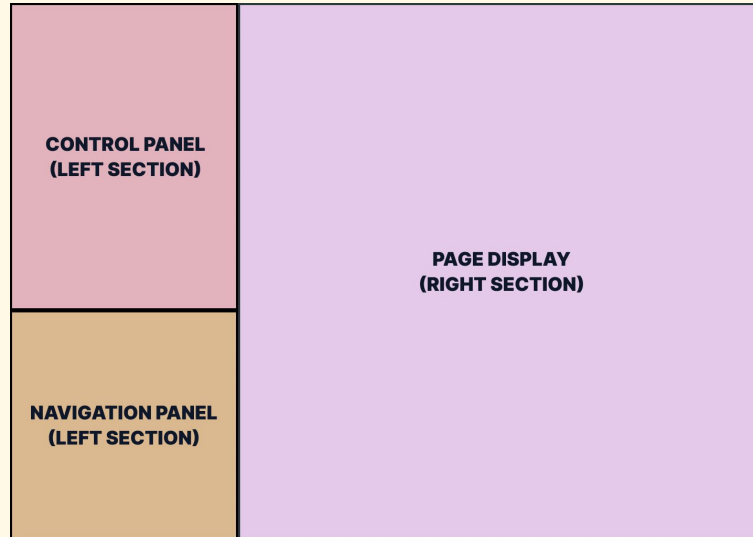
**3A**

# General Layout

Application Layout Structure

# Layout

- **Two Section Layout**
- **Left/Top Section**
  - Control Panel
  - Navigation Panel
- **Right/Bottom Section**
  - Page Display Section





# Control Panel

Control Panel Features

# Control Panel Features

## Adjust

Apply Value (Brightness), Light, and Saturation Shifts in colors to meet accessibility and UX/UI guidelines

## Generate

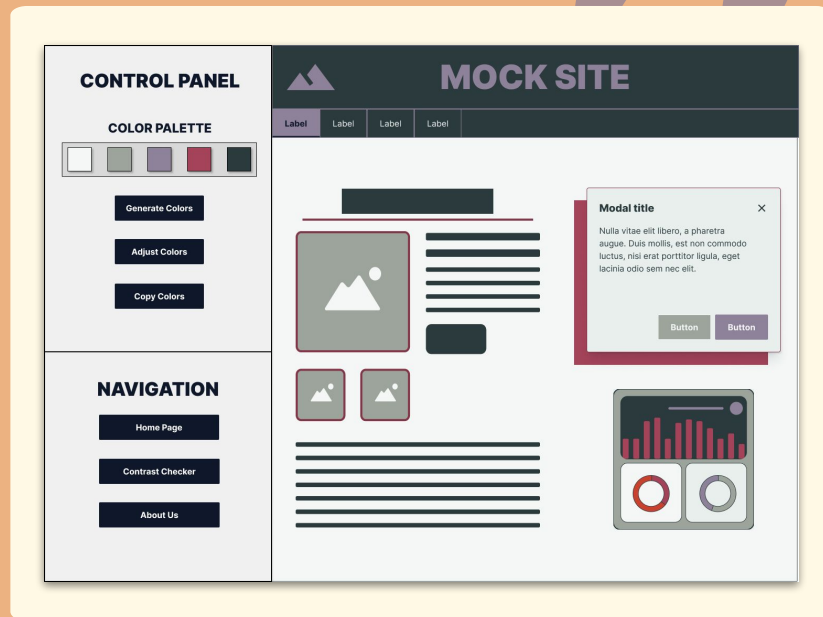
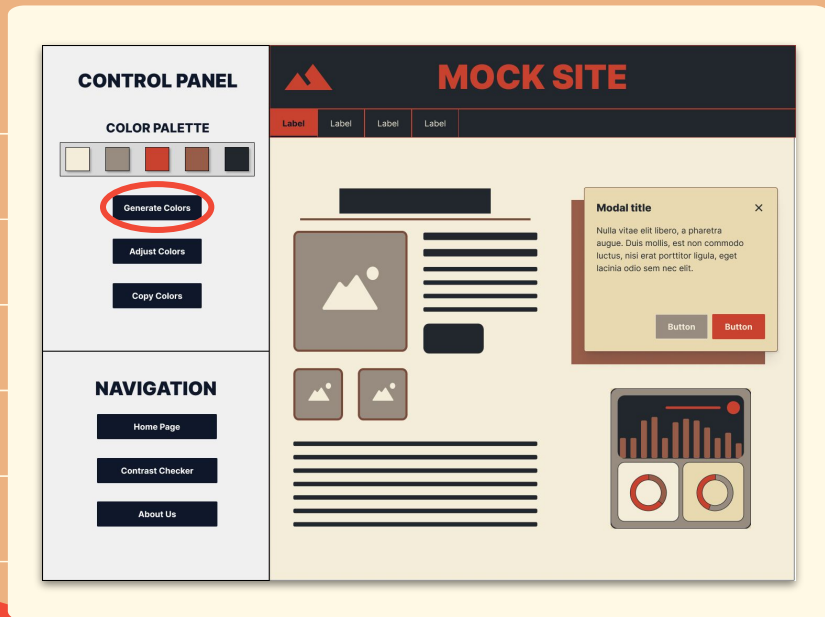
Randomly Generate a New Palette of five (5) Harmonious Colors

## Copy

Copies text of color values to apply to personal project



# Figma Mockup (Midterm)





# Deployed Application (Final)

### Control Panel

#fffff, hsl(0, 0%, 100%), v: 100
#fedede, hsl(0, 0%, 90%), v: 90
#808080, hsl(0, 0%, 50%), v: 50
#191919, hsl(0, 0%, 10%), v: 10
#000000, hsl(0, 0%, 0%), v: 0

[Generate Palette](#)

[Adjust Palette](#)

[Copy Palette](#)

### Navigation Panel


[Mock Site](#)

[Contrast Checker](#)

[About Us](#)

### Mock Site Page

#### Personal Information



**Ms. Lakeshore Misfits**  
Software Engineer  
Programming Languages  
HTML & CSS  
JavaScript  
Python  
SQL  
Interests  
Cats  
Science  
Eldritch Hunting  
Arts & Crafts

#### About Me

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#### Goals and Objective

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### Control Panel

#cfffff, hsl(180, 100%, 90%), v: 100
#fe81d5, hsl(320, 98%, 75%), v: 100
#6b0ced, hsl(260, 84%, 55%), v: 93
#ba001a, hsl(352, 100%, 36%), v: 73
#71b800, hsl(93, 100%, 36%), v: 72

[Generate Palette](#)

[Adjust Palette](#)

[Copy Palette](#)

### Navigation Panel


[Mock Site](#)

[Contrast Checker](#)

[About Us](#)

### Mock Site Page

#### Personal Information



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Software Engineer  
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#### Goals and Objective

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# Deployed Application (Final)

### Control Panel

#c6ffff, hsl(180, 100%, 90%), v: 100
#fe81d5, hsl(320, 98%, 75%), v: 100
#6b2ced, hsl(260, 84%, 55%), v: 93
#ba001a, hsl(352, 100%, 36%), v: 73
#71b8d0, hsl(23, 100%, 36%), v: 72

Generate Palette

Adjust Palette


Copy Palette

### Navigation Panel

[Mock Site](#)  
[Contrast Checker](#)  
[About Us](#)

### Mock Site Page

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### Control Panel

#e3e7e7, hsl(180, 8%, 90%), v: 91
#e5add8, hsl(314, 52%, 79%), v: 90
#d3a0f5, hsl(276, 81%, 79%), v: 96
#913d49, hsl(351, 41%, 40%), v: 57
#073b07, hsl(120, 80%, 14%), v: 25

Generate Palette

Adjust Palette


Copy Palette

### Navigation Panel

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### Mock Site Page

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# Deployed Application (Final)



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#e3e7e7, hsl(180, 8%, 90%), v: 91
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#d3a0f5, hsl(276, 81%, 79%), v: 96
#913d49, hsl(351, 41%, 40%), v: 57
#073f07, hsl(120, 80%, 14%), v: 25

Generate PaletteAdjust Palette

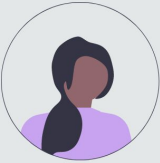
Copy Palette

### Navigation Panel

[Mock Site](#)[Contrast Checker](#)[About Us](#)

### Mock Site Page

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#e5add8, hsl(314, 52%, 79%), v: 90
#d3a0f5, hsl(276, 81%, 79%), v: 96
#913d49, hsl(351, 41%, 40%), v: 57
#073f07, hsl(120, 80%, 14%), v: 25

Generate PaletteAdjust Palette


Copy Palette

### Navigation Panel

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### Mock Site Page

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khnguyen88.github.io

["#e3e7e7", "#e5add8", "#d3a0f5", "#913d49", "#073f07"]

OK

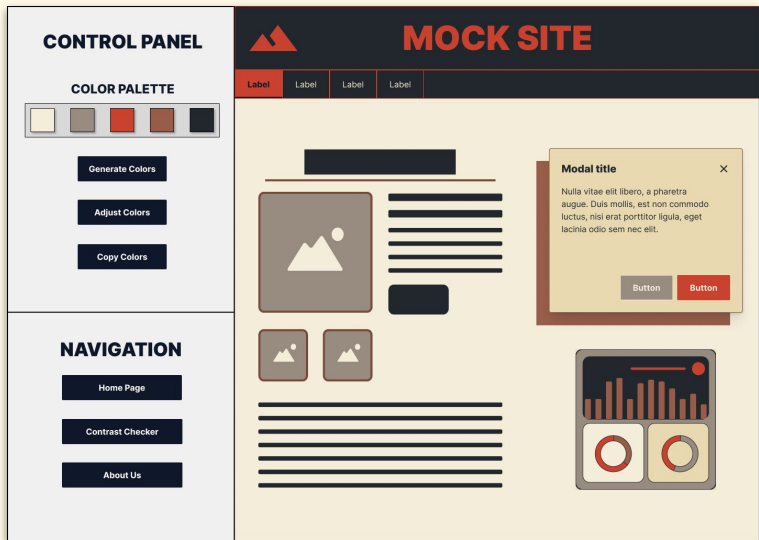






# Navigation & Pages

Navigational Panel and Pages  
Features



\* Figma Mockup

# Mock Site Page

Elements on the mock web page dynamically  
applies the colors of the generated palette.

Default Home Page!



Control Panel

#f0f0f0, hsl(0, 0%, 94%), v: 94
#c3bfed, hsl(245, 56%, 84%), v: 93
#46d6e4, hsl(185, 75%, 58%), v: 89
#693c88, hsl(276, 39%, 38%), v: 53
#711210, hsl(1, 75%, 25%), v: 44

- Generate Palette
- Adjust Palette
- Copy Palette

Navigation Panel

- Mock Site
- Contrast Checker
- About Us

Site at the end of Thanksgiving Week  
(UI Cleanup & Facelift)

Mock Site Page

Personal Information



Ms. Lakeshore Misfits

Software Engineer

Programming Languages

- HTML & CSS
- JavaScript
- Python
- SQL

Interests

- Cats
- Science
- Eldritch Hunting
- Arts & Crafts

About Me

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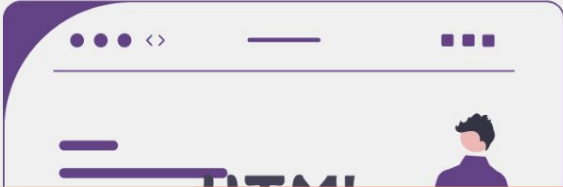
Goals and Objective

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Project Information

Project Vision

Et sint excepturi ut quia quidem ut illo quae. In minus deserunt ab itaque quidem ut internos galisum est tempore repellendus. Et odit quaerat 33 fuga saepe id dolorem veniam hic deserunt ducimus qui repudiandae debitis sed quasi iste id excepturi quos. Nam tempore iusto aut voluptatem nesciunt qui omniss



# Contrast Checker Page

Generate a card collection of paired colors combination in the palette and display their WCAG Accessibility Ratings

CONTROL PANEL

COLOR PALETTE

Generate Colors

Adjust Colors

Copy Colors

NAVIGATION

Home Page

Contrast Checker

About Us

CONTRAST CHECKER

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Pass  
AA-Large: Pass  
AAA: Fail  
AAA-Large: Pass

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Pass  
AA-Large: Pass  
AAA: Fail  
AAA-Large: Fail

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Pass  
AA-Large: Pass  
AAA: Fail  
AAA-Large: Pass

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Fail  
AA-Large: Fail  
AAA: Fail  
AAA-Large: Fail

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Pass  
AA-Large: Pass  
AAA: Pass  
AAA-Large: Pass

Font-Size: 12, Reg  
Font-Size: 12, Bold  
Font-Size: 14, Reg  
Font-Size: 14, Bold

Foreground: #XXXXXX  
Background: #XXXXXX  
AA: Fail  
AA-Large: Fail  
AAA: Fail  
AAA-Large: Fail

\* Figma Mockup

## Control Panel

#d6ffff, hsl(180, 100%, 92%), v: 100
#fc8dd2, hsl(323, 95%, 77%), v: 99
#7b39ea, hsl(262, 81%, 57%), v: 92
#b7061c, hsl(353, 94%, 37%), v: 72
#6ab500, hsl(85, 100%, 35%), v: 71

Generate Palette

Adjust Palette

Copy Palette

## Navigation Panel

[Mock Site](#)



[Contrast Checker](#)

[About Us](#)

## Contrast Checker



Foreground: #d6ffff  
Background: #d6ffff  
Ratio: 1  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #d6ffff  
Background: #fc8dd2  
Ratio: 1.98  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #d6ffff  
Background: #7b39ea  
Ratio: 5.42  
AA: pass  
AA-Large: pass  
AAA: fail  
AAA-large: pass



Foreground: #d6ffff  
Background: #b7061c  
Ratio: 6.41  
AA: pass  
AA-Large: pass  
AAA: fail  
AAA-large: pass



Foreground: #d6ffff  
Background: #6ab500  
Ratio: 2.38  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #fc8dd2  
Background: #d6ffff  
Ratio: 1.98  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #fc8dd2  
Background: #fc8dd2  
Ratio: 1  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #fc8dd2  
Background: #7b39ea  
Ratio: 2.73  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #fc8dd2  
Background: #b7061c  
Ratio: 3.23  
AA: fail  
AA-Large: pass  
AAA: fail  
AAA-large: fail



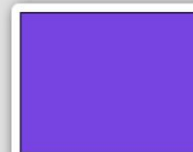
Foreground: #fc8dd2  
Background: #6ab500  
Ratio: 1.20  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #7b39ea  
Background: #d6ffff  
Ratio: 5.42  
AA: pass  
AA-Large: pass  
AAA: fail  
AAA-large: pass



Foreground: #7b39ea  
Background: #fc8dd2  
Ratio: 2.73  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



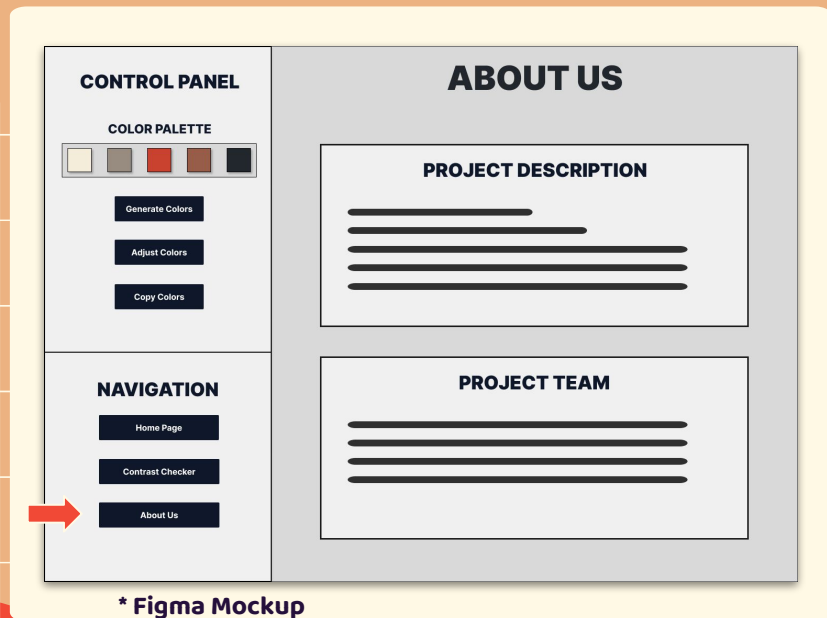
Foreground: #7b39ea  
Background: #7b39ea  
Ratio: 1  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #7b39ea  
Background: #b7061c  
Ratio: 1.18  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



Foreground: #7b39ea  
Background: #6ab500  
Ratio: 2.27  
AA: fail  
AA-Large: fail  
AAA: fail  
AAA-large: fail



# About Us Page

Provides an overview of the project and the team



## Control Panel

#e3e7e7, hsl(180, 8%, 90%), v: 91
#e5add8, hsl(314, 52%, 79%), v: 90
#d3a0f5, hsl(276, 81%, 79%), v: 96
#913d49, hsl(351, 41%, 40%), v: 57
#073f07, hsl(120, 80%, 14%), v: 25

Generate Palette

Adjust Palette

Copy Palette

## Navigation Panel

Mock Site

Contrast Checker

 About Us

# About The Lakeshore Misfits

*Selena Cade, Munmi Thakuria, Khiem Nguyen*

## Project Description

Our website is created for users to generate new colors with a click of a button. This website allows users to generate new color palettes and copy the color values. Users are also able to adjust the color palette to make sure the colors sets is compliant with the AA or AAA website accessibility. In order to have users check this, we have a contrast checker button that tells users if the colors pass or fails the web accessibility guidelines.

## Project Inspiration

This project was inspired by each members interests. We are interested in Web Content Acessibility Guideline, art, science,application design, and illustration.

## Individual Roles

- Selena: Project schedules, mock site layout, contrast checker page layout, and about page layout, and diagram drafting
- Khiem: Project schedules, requirments and task refining, initial app setup, navigation routes, Colormind API service, WebAim Contrast Checker API, integration, diagram drafting, and UI refinement
- Munmi: User acceptance testing, card component, diagram drafting.

xxx

# Demo

- Go to deployed application on team website
  - <https://khnguyen88.github.io/GVSU-CIS641-Lakeshore-Misfits/website/projects/website-color-generator-app/>

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**04**

# **API / Library Custom Services**

# Rest APIs & Custom Services (Midterm)

## WebAim Contrast Checker API\*

Rest API that retrieves GET request of a BG/FG color pair and return JSON object of WCAG Rating Results

## Color Mind API\*

Rest API that retrieves POST request and returns JSON object of colors. Each color is an RGB object.

Replaced with..

## Color Service

Custom Service that provides properties to adjust or convert color values passed into parameter

\* Note: A service was created for each API to handle request and responses to it. Ensures separation of concerns.

# Rest APIs, Key Library, & Custom Services (Final)

..this library

## WebAim Contrast Checker API\*

Rest API that retrieves GET  
request of a BG/FG color pair and  
return JSON object of WCAG  
Rating Results

\* Note: A service was created  
for each API to handle  
request and responses to it.  
Ensures separation of concerns.

## Color Mind API\*

Rest API that retrieves POST  
request and returns JSON object of  
colors. Each color is an RGB object.

## \*\*\*Random Color Generator Service

In-house color generator that uses  
the TinyColor Library. Initially,  
developed & used for prototyping.  
Utilized in deployment version.

## Tiny Color Library/Class\*\*

A JS color library that provides  
methods for color model  
conversation (i.e. RGB, HEX, etc.)  
and color adjustments by  
saturation, brightness, and more.

\*\* If a tool or library exists,  
use it! No need to reinvent  
the wheel!! Saves time &  
effort!

\*\*\* Only used in deployed  
version due ColorMind API bug.



**05**

# **Tasks Delegation**

# (Midterm) Project Responsibilities

## Selena

- Project Schedule / Deadlines
- Mock Site Layout
- Contrast Checker Page Layout
- About Page Layout

## Khien

- Reqs & Tasks Refinement
- Initial App Setup
- Navigation / Routes
- Color Service
- Integration / Assistance

## Munmi

- Colormind API Service
- WebAim Contrast Checker API Service
- User Acceptance Tester
- Integration / Assistance

**Note:** Team members are not limited to these responsibilities, these are just for the initial setup. Team will be involved w/ all tasks.

# (Final) Project Responsibilities

## Selena

- Project Manager / Scheduler
- Analyst (Use Case)
- Task + QA/QC Reviewer
- Mock Site Layout
- Contrast Checker Page Layout
- About Page Layout
- Integration

## Khiem

- Project Manager / Scheduler
- Reqs & Tasks Refinement
- Analyst (Class & Diagram Refin.)
- QA/QC Reviewer
- Initial App Setup & Deployment
- Navigation / Routes
- Async/Await & Promises/Resolve
- Colormind API Service
- Contrast Checker API Service
- Cleanup /Integration / Deployment

## Munmi

- Analyst (Activity)
- Task + QA/QC Reviewer
- Team Website Developer
- Web Admin for Team Project
- Contrast Checker Page Layout
- User Acceptance Tester
- Support / Assistance

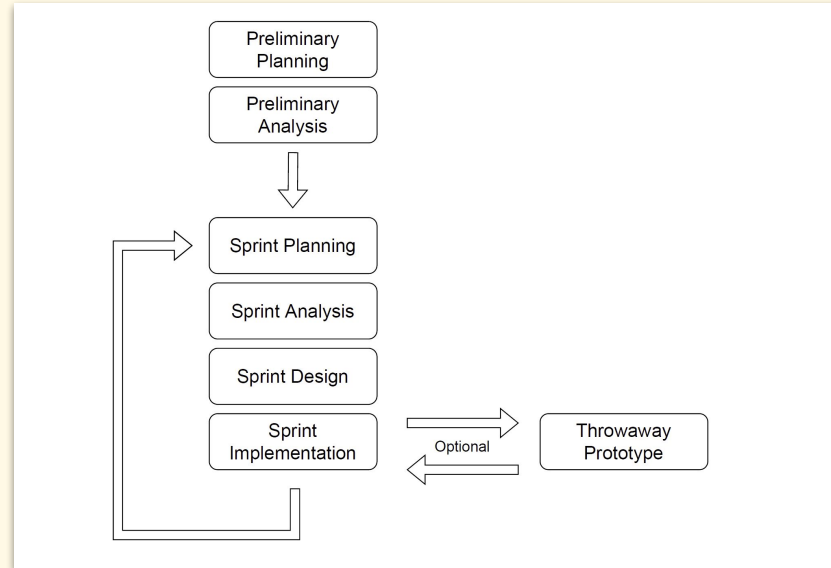
**Note:** Team members were not limited to these responsibilities, but, each member did have key responsibilities in the project.

The background is a vibrant collage of geometric shapes and colors. It features large blocks of orange, red, and purple. There are several white stars with black outlines scattered throughout. A grid pattern is visible in the top-left corner. A large, stylized purple star shape is on the right side. At the bottom, there are vertical stripes in red, white, and purple. The central text is contained within a white rectangular box with a dark purple border.

**06**

# **Project Methodology**

# Modified Agile Methodology



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**07**

# **Project Schedule**

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# (Midterm) Project Schedule

- **Initial Planning and Project Kickoff Started** - 09/13/2023
  - Created system request, repository, proposal, and initial schedule
- **Initial Analysis** - 09/27/2023
- **Initial Design** - Anticipated 10/25/2023 (*After Fall Break*)
- **Initial Implementation / Sprint "1"** - 10/16/2023 (This week!!)
  - Due to short project schedule, **sprint cycle is weekly**
- **Major Timeboxes - Thanksgiving Holiday & Finals Week**
  - **Final Requirements, Analysis & Design Models** - Before Thanksgiving (11/21/2023)
  - **Final Implementations** - Before Thanksgiving (11/21/2023)
  - **Final Presentation** - Before Presentation Date (12/03/2023)
  - **End of PM Responsibilities & Final Deliverables** - Before Finals (12/10/2023)

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# (Final) Project Schedule

- **Initial Planning and Project Kickoff Started** - 09/13/2023
  - Created system request, repository, proposal, and initial schedule
- **Initial Analysis** - 09/27/2023
- **Initial Design** - Anticipated 10/25/2023 (*After Fall Break*)
- **Initial Implementation / Sprint "1"** - 10/16/2023 (This week!!)
  - Due to short project schedule, **sprint cycle is weekly**
- **Major Timeboxes - Post Thanksgiving Week & Finals Week**
  - **Final Requirements, Analysis & Design Models** - Post Thanksgiving, Sprint 7 (12/03/2023)
  - **Final Implementations** - Post Thanksgiving, Sprint 7 (12/03/2023)
  - **Final Presentation** - Before Presentation Date (12/03/2023)
  - **End of PM Responsibilities & Final Deliverables** - Before Finals (12/09/2023)

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# Website Color Generator

Lakeshore Misfits

CIS641

SIMPLE GANTT CHART by Vertex42.com

<https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html>

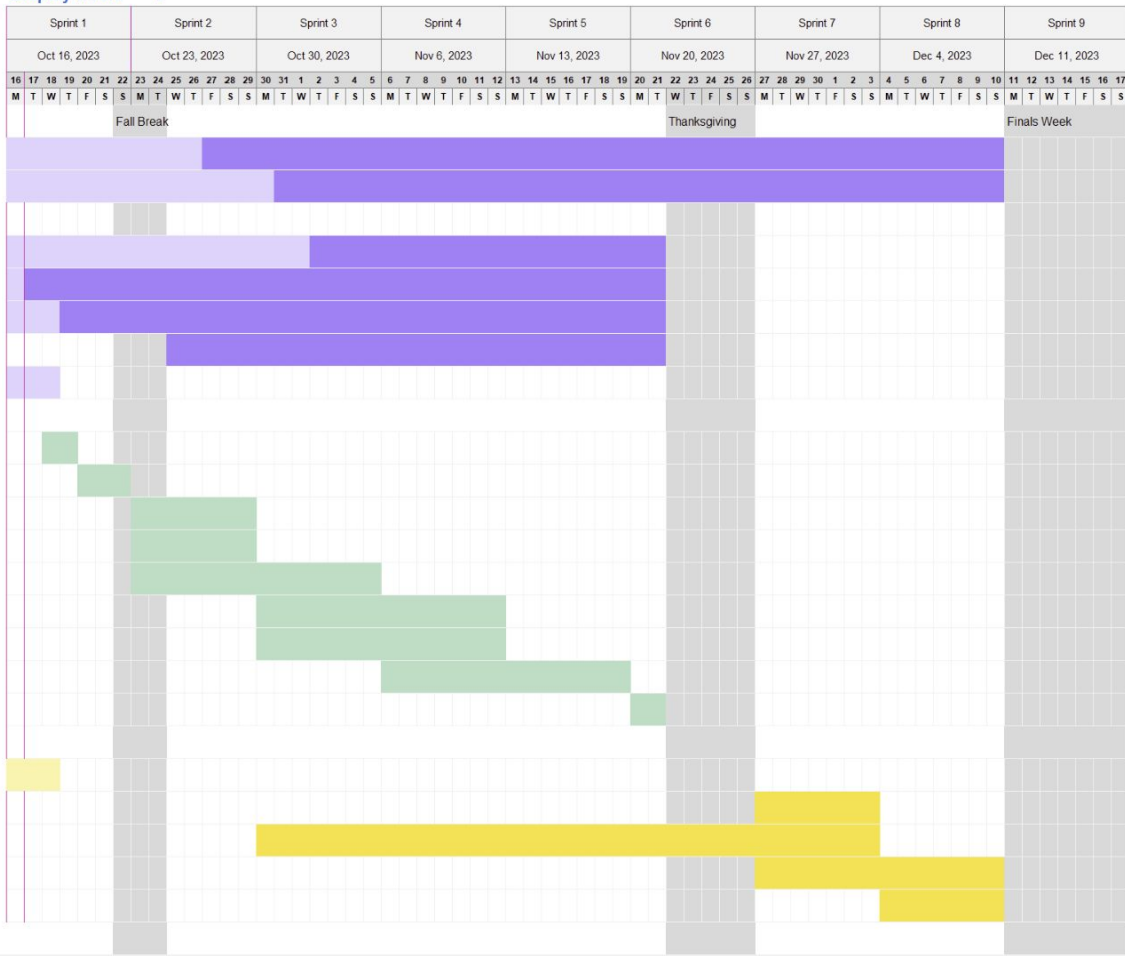
TASK	ASSIGNED TO	PROGRESS	SPRINT	START	END
Planning / Analysis / Design					
Create & Manage Repository	All	<div><div></div></div> 50%	0 - 8	9/13/23	12/10/23
Create & Manage Schedule	All	<div><div></div></div> 50%	0 - 8	9/20/23	12/10/23
Write Proposal	All	<div><div></div></div> 100%	0	9/20/23	9/27/23
Requirements Specification & Refinement	All	<div><div></div></div> 50%	0 - 6	10/13/23	11/21/23
Sprint Tasks Planning & Refinement	All	<div><div></div></div> 5%	1 - 7	10/16/23	11/21/23
Analysis & Refinement	All	<div><div></div></div> 40%	0 - 6	9/27/23	11/21/23
Design & Refinement	All	<div><div></div></div> 0%	1 - 6	10/25/23	11/21/23
UI Mockup Design	All	<div><div></div></div> 100%	0 & 1	10/12/23	10/18/23
Implementation					
Setup and Kickoff Project Application	Khiem	<div><div></div></div> 0%	1	10/18/23	10/19/23
Setup Initial Routes, Layout, and Pages	Khiem	<div><div></div></div> 0%	1	10/20/23	10/22/23
Setup Color Service	Khiem	<div><div></div></div> 0%	2	10/23/23	10/29/23
Create API Services	Munmi	<div><div></div></div> 0%	2	10/23/23	10/29/23
Populate Page Layouts	Selena	<div><div></div></div> 0%	2 & 3	10/23/23	11/5/23
Pass Color Data from Parent to Child Components	All	<div><div></div></div> 0%	3 & 4	10/30/23	11/12/23
Integrate Service Logic To All Components	All	<div><div></div></div> 0%	3 & 4	10/30/23	11/12/23
Acceptance Testing & Major Bug Fixes	All	<div><div></div></div> 0%	4 & 5	11/6/23	11/19/23
Timebox & Wrap-Up	All	<div><div></div></div> 0%	6 & 7	11/20/23	11/21/23
Major Deliverables					
Create & Prepare Midterm Presentation	All	<div><div></div></div> 100%	0 - 1	10/13/23	10/18/23
Create & Prepare Final Presentation	All	<div><div></div></div> 0%	7	11/27/23	12/3/23
Prepare Final Deliverables	All	<div><div></div></div> 0%		10/30/23	12/3/23
Review and Finalize Deliverables	All	<div><div></div></div> 0%	7 - 8	11/27/23	12/10/23
Timebox & Submit Final Deliverables	All	<div><div></div></div> 0%	8	12/4/23	12/10/23

\*\*NOTE: ANYTHING STARTED PRIOR TO 2023-10-16 IS CONSIDERED "SPRINT 0"

Project Start 9/13/2023

Sprint Start: 10/16/2023

Display week: 1



Website Color Generator

Lakeshore Misfits CIS641

SIMPLE GANTT CHART by Vertex42.com  
https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html

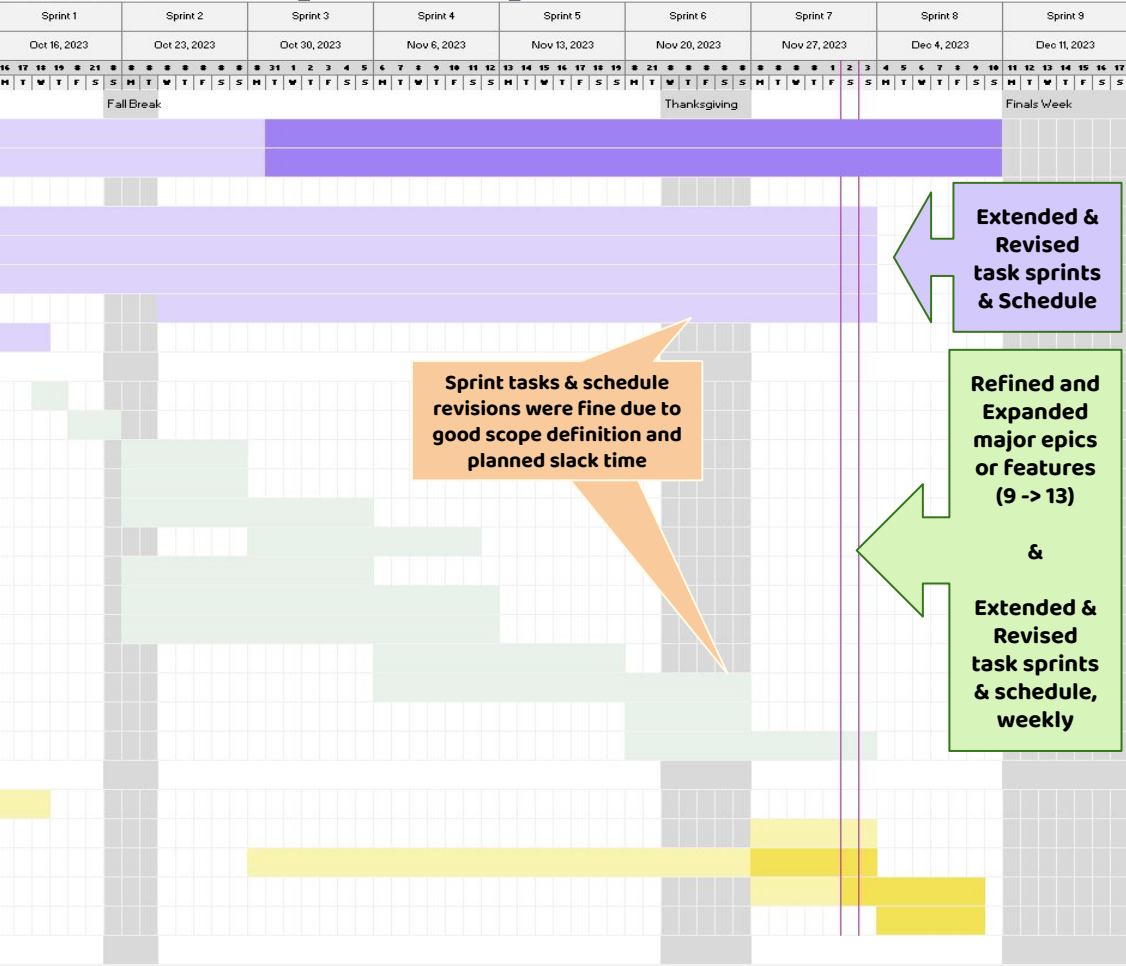
TASK	ASSIGNED TO	PROGRESS	SPRINT	START	END
Planning / Analysis / Design					
Create & Manage Repository	All	55%	0 - 8	9/13/23	12/10/23
Create & Manage Schedule	All	50%	0 - 8	9/20/23	12/10/23
Write Proposal	All	100%	0	9/20/23	9/27/23
Requirements Specification & Refinement	All	100%	0 - 6	10/13/23	12/3/23
Sprint Tasks Planning & Refinement	All	100%	1 - 7	10/16/23	12/3/23
Analysis & Refinement	All	100%	0 - 6	9/27/23	12/3/23
Design & Refinement	All	100%	1 - 7	10/25/23	12/3/23
UI Mockup Design	All	100%	0 & 1	10/12/23	10/18/23
Implementation					
Setup and Kick-off Project Application	Khiem	100%	1	10/18/23	10/19/23
Setup Initial Routes, Layout, and Pages	Khiem	100%	1	10/20/23	10/22/23
Setup Global Color Palette State / Context	Khiem	100%	2	10/23/23	10/29/23
Pass Color Data from Parent to Child Component	Khiem	100%	2	10/23/23	10/29/23
Learn & Utilize TinyColor 2 Library	Khiem	100%	2 & 3	10/23/23	11/5/23
Create API Services	Munmi / Khiem	100%	3 & 4	10/30/23	11/11/23
Populate Page Layouts (Static)	Selena	100%	2 & 3	10/23/23	11/5/23
Create and Implement Model Classes	Khiem	100%	2 - 4	10/23/23	11/12/23
Create and Implement UI Components	Khiem	100%	2 & 4	10/23/23	11/12/23
Integrate Service Logic To All Components	All	100%	4 & 5	11/6/23	11/19/23
Acceptance Testing & Major Bug Fixes	All	100%	4 - 6	11/6/23	11/26/23
UI Cleanup & Facelift	Khiem	100%	6	11/20/23	11/26/23
Timebox & Wrap-Up	All	100%	6 & 7	11/20/23	12/3/23
Major Deliverables					
Create & Prepare Midterm Presentation	All	100%	0 - 1	10/13/23	10/18/23
Create & Prepare Final Presentation	All	100%	7	11/27/23	12/3/23
Prepare Final Deliverables	All	80%	0 - 7	10/30/23	12/3/23
Review and Finalize Deliverables	All	40%	7 - 8	11/27/23	12/9/23
Timebox & Submit Final Deliverables	All	0%	8	12/4/23	12/9/23

\*\*NOTE: ANYTHING STARTED PRIOR TO 2023-10-16 IS CONSIDERED "SPRINT 0"

Project Start 9/13/2023

Sprint Start: 10/16/2023

Display week: 1



xxx

# Was the Extra Time Worth It?

**Yes! More time for diagram refinement, UI  
Cleanup, Bug Fixes, and deployment!**

xxx



**08**

# **Extra Info**



# **8A** Deployment



# Deployment Guidelines

## Local Build

- Clone or fork repository:
  - <https://github.com/khnquyen88/GVSU-CIS641-Lakeshore-Misfits.git>
- Using an IDE (Visual Studio Code) open up project
- From the project root folder, go into the React project directory (subdirectory):
  - `cd src/website-color-generator-app`
- Install dependencies: `npm install`
- Start application: `npm start`
- Close application: `CTRL + C`

## Online Access

- Go to deployed application on team website
  - <https://khnquyen88.github.io/GVSU-CIS641-Lakeshore-Misfits/website/projects/website-color-generator-app/>

## GitHub Pages

- Setup a GitHub page for your repository
- Follow the **Local Build** guide
- In the React's application package.json, add an attribute:
  - `"homepage": "WEBSITE-ROOT-URL/REPOSITORY-DIRECTORY/SUB-DIRECTORY/FOLDER/PATH/YOU/WANT/PLACE/YOUR/APP/IN"`
- Update the **basename** attribute of the Router component in the App.js file
  - `'basename="/REPOSITORY-DIRECTORY/SUB-DIRECTORY/FOLDER/PATH/YOU/WANT/PLACE/YOUR/APP/IN'`
- From root of react folder, build the application: `npm run build`
- Copy contents inside of the build subfolder, and move it to the subdirectory of your repository project folder: `SUB-DIRECTORY/FOLDER/PATH/YOU/WANT/PLACE/YOUR/APP/IN`
- Push changes up to GitHub. Go to Page.

**Note:** For the detailed deployment instructions, please read the repository's README.md file: <https://github.com/khnquyen88/GVSU-CIS641-Lakeshore-Misfits>



# **8B** Challenges

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# Challenges

- Time Availability
- Limited JS & React Experience
  - Context
  - State (Updating complex object)
  - Promise/Resolve
  - Async & Await
  - Build/package.Json Configuration
  - Styles
- Color Mind API Security Issue
- TinyColor Limitations
- React Router configuration for deployment
- Planning & reviews takes up so much time
- Limited to Some GitHub and GitHub Workflow Experience

XXX



**8C**

# **Achievements**

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# Achievements

- Great Team Setup
  - Discord Channel + Bi/Tri Weekly Meeting & Constant Communication
- Improved PM and Scheduling Skills
- Learned UML & tools
- Learned and gained more experience with JS & React
  - Creating and managing components
  - Context
  - State (Updating complex object)
  - Promise/Resolve
  - Async & Await
  - Build/package.Json Configuration
  - Utilizing Styles
- Gained experience in utilizing and handling APIs
- Learned Tiny Color features
- Learned basics of React Router
- Learned how to deploy application to GitHub Pages
- Learned basic UI/UX rules
- Learned Figma

XXX



# **8D** Future Changes?

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# Future Versions

- **Version 1.X - Behind the scene changes**

- **Forgo APIs and API services**

- Expensive. Contrast checker requires 25 consecutive API request calls
    - Already implemented code that provides same feature

- **Clean up React's style-overrides.**

- Use CSS variables to clean up components

- **Breakout out Palette Class into separate classes**

- PaletteColors & PaletteColorPairs classes

- **Extend / Preserve Palette Colors by URL params**

- **Add PageStyles class** - Manages and organize color implementation

- **Add Unit Tests**

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# Future Versions

- **Version 2.X - Adding UI/UX Features**

- **More Optional Control Panel Features**

- Basic / Advance Panel Options
- Brand Color Selector + Dialog
- UI's 60-30-10 Drag-drop containers
  - Color Tones selection for the 60-30-10 sub category

- **Different Web Layout Options**

- Page Types - *Business, News/ Blog, Social Media, Product, Portfolio, etc.*
- UI/Design Page Style - *Minimalism, Brutalism, Bauhaus, Neumorphism, etc.*
- Hero Layout + Hero Image Configurations

- **Undo Change Button + Palette List State**

- **Balance ease-of-use/simplicity and features**

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# Future Versions

- **Version 3.X - User Account + Palette Persistence Features**

- **Backend**

- **Server**
- **Database**
- **Application + Rest API**

- **Frontend**

- **User Sign Up / Login Page**
- **State Management System**
- **Save / Delete Palette Buttons**

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**8E**

# **Project Tools & More!**

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# Project Tools

Here's a list of notable project tools and dependencies to be used for this project and application:

- **GitHub / GitHub Projects** - Version Control / Tasks Management
- **Excel / Gantt Chart** - Project Scheduling
- **Markdown** - Project Documentations
- **React** - Web Application Base
- **Axios** - React Dependency needed to talk to Rest API
- **React Router** - React Dependency to emulate page navigation
- **Bootstrap** - CSS Framework for coherent layout style
- **TinyColor** - A JavaScript Color Library. Contains useful features

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The logo consists of the characters '8F' in a bold, white, sans-serif font, centered within a dark blue square. The background of the entire slide is a vibrant, abstract collage of orange, red, and grey shapes, including stars, stripes, and a grid pattern.

**8F**

# **Extra Resources**

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# Extra Resources

Here's some personal resource documents for you to use:

- **UX/UI Rules (Recommended!) -**  
<https://github.com/khnguyen88/GVSU-CIS641-Lakeshore-Misfits/blob/main/docs/ux-ui-rules/UX-UI-Rules.md>
- **React Project Setup (From Scratch) -**  
<https://github.com/khnguyen88/GVSU-CIS641-Lakeshore-Misfits/blob/main/docs/react-startup-guide/react-startup-guide.md>
- **General Resource Hub -**  
<https://github.com/khnguyen88/GVSU-CIS641-Lakeshore-Misfits/blob/main/docs/resource-hub/resource-document.md>

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