



# Color Blind Buddy

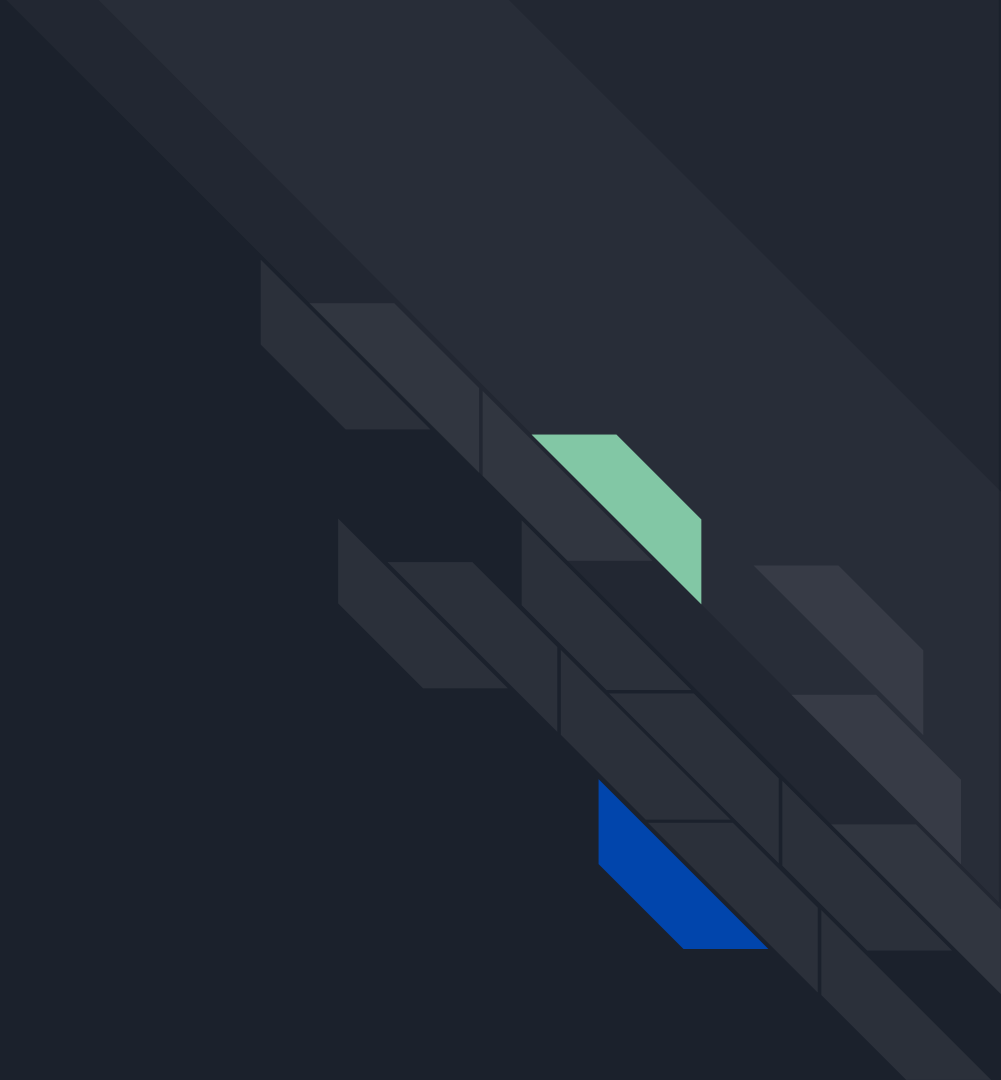
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# Introduction

In this project, we make a **web software** that attempt to be an **aid for people with color blind** so they can detect and classify colors. Color spaces that will be used in this program is **RGB** (Red Green Blue).



Features





# Features

## ★ Find A Color

Finding the color that the user desires from uploaded pictures.

## ★ Specify This Color

Specifying all colors in a picture.

## ★ Articles About Color Blind

Shows all articles related to color blind.

## ★ Color Blind Test

A test to see if user is color blind or not.

## ★ Mini Quizzes

Some quizzes about color blind facts.

## ★ Find Nearest Eye Doctor

Finding eye doctor near the user.

## ★ Clothing Guide

Guidance to make sure user wear clothes with matching colors.

## ★ Color Harmonies

A tool to generate tonal colors.

# Software and Framework in Use



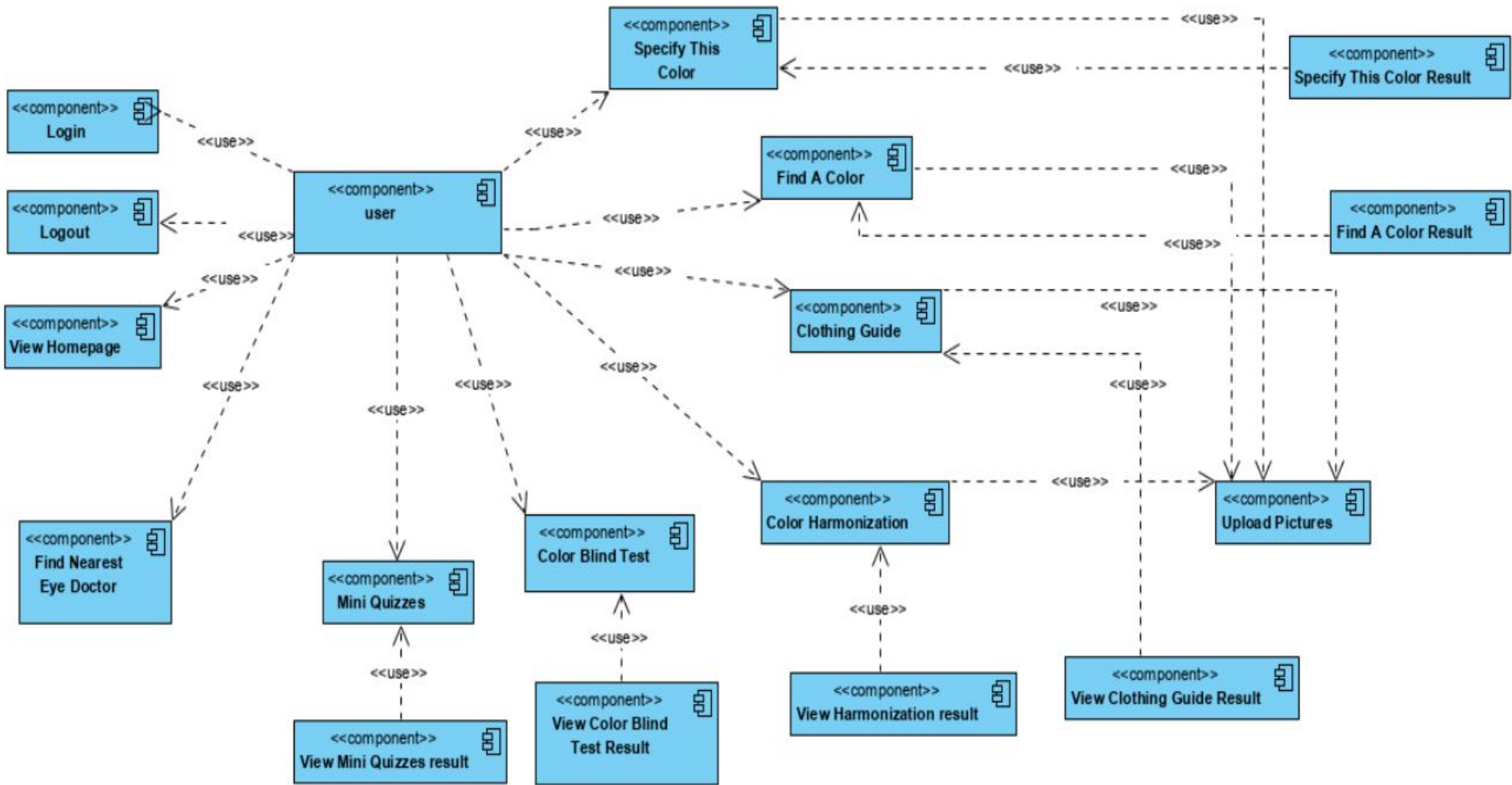


# What we use

- HTML
- Javascript
- Codeigniter
- Bootstrap
- phpMyAdmin
- XAMPP
- GitHub
- Text editors: VSCode, Atom

# Component Diagram



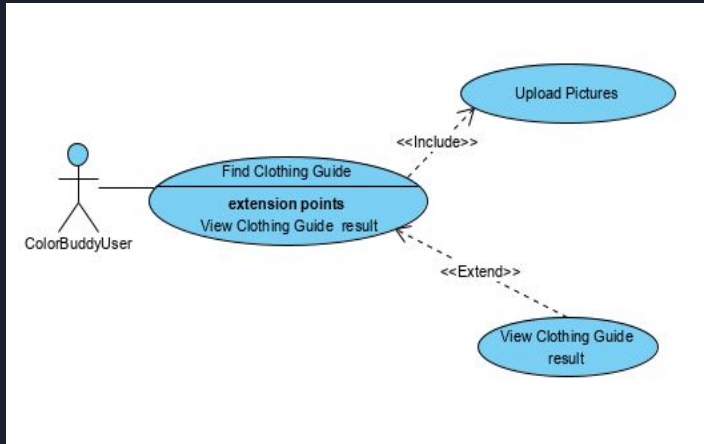




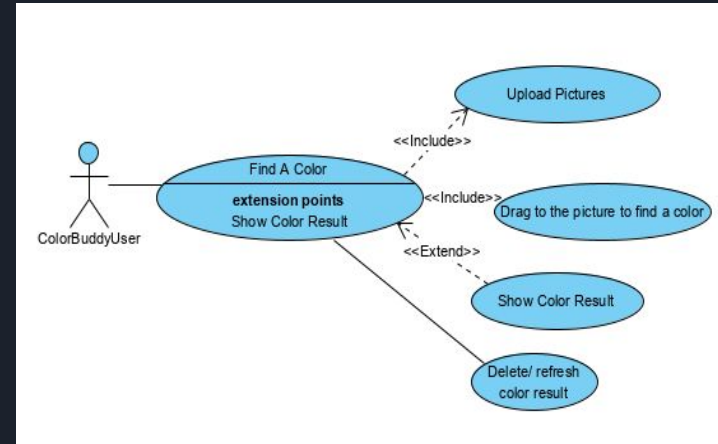
# Use Case Diagrams



# Use Cases

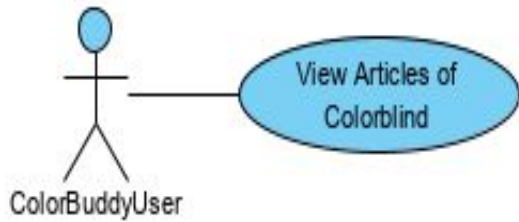


Clothing Guide

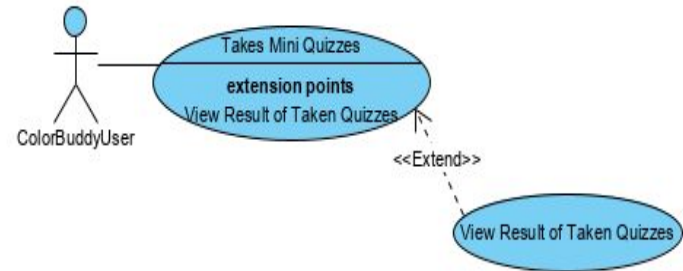


Find A Color

# Use Cases

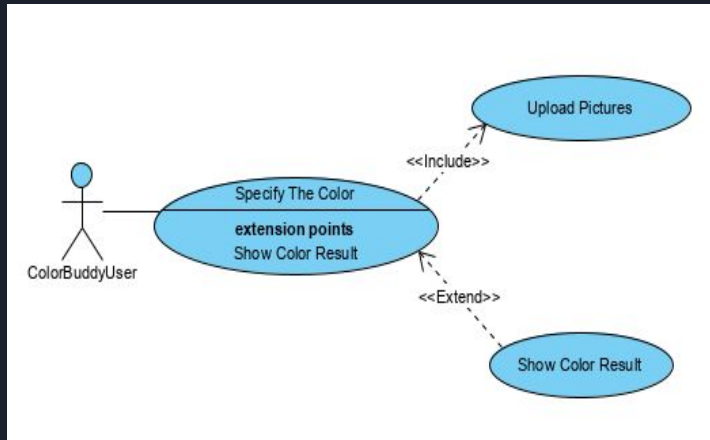


Color Harmonies

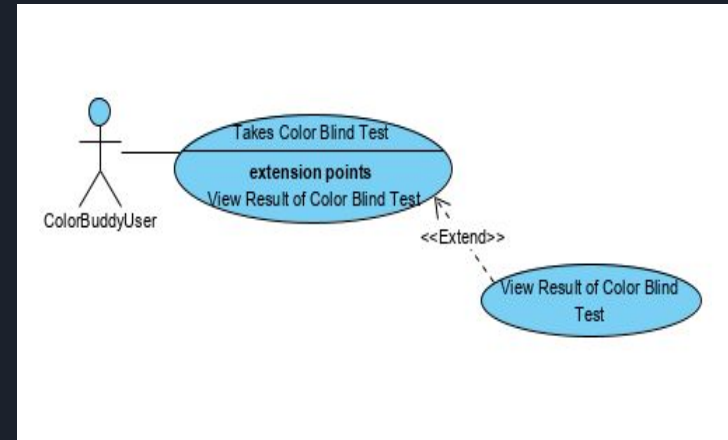


Mini Quizzes

# Use Cases

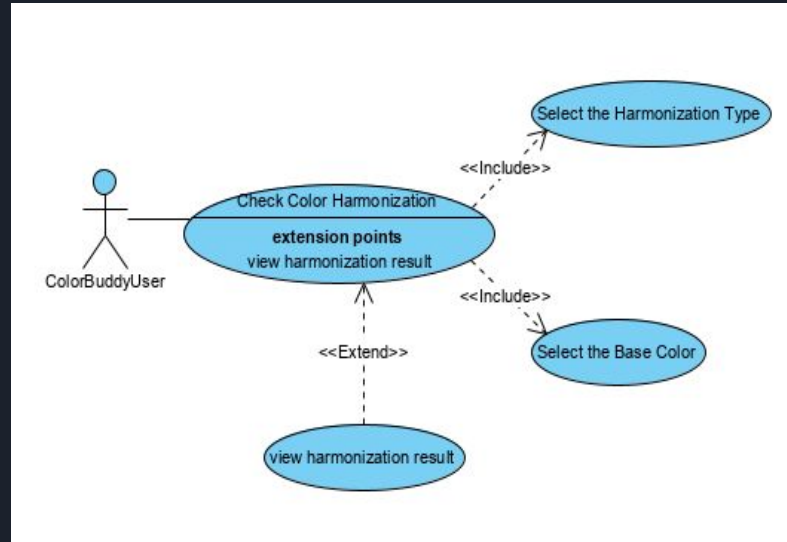


Specify The Color



Mini Quizzes

# Use Cases



Color Harmonies

# Mock up Designs



# Specify Color




# Find A Color

A Web Page

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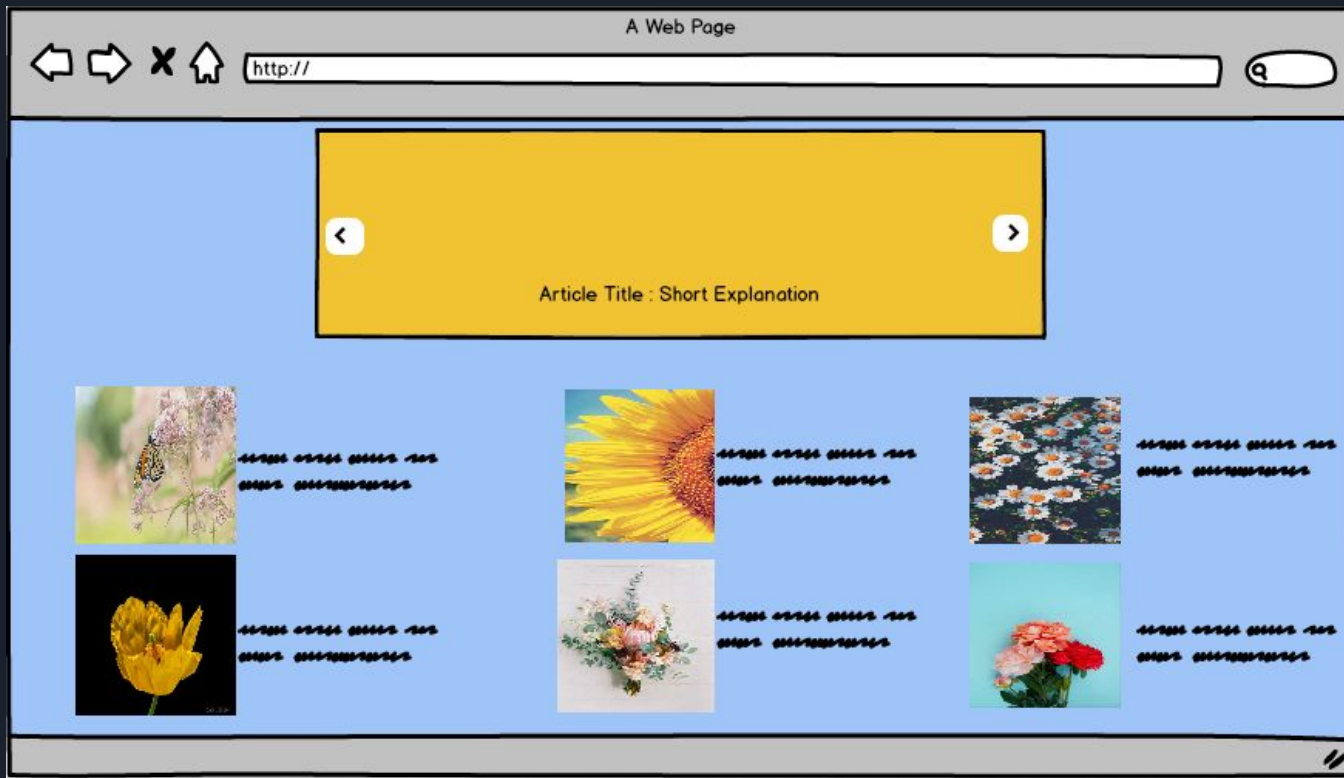
Find a Color of Image you Want!



enter the color you want to find



# Articles Page

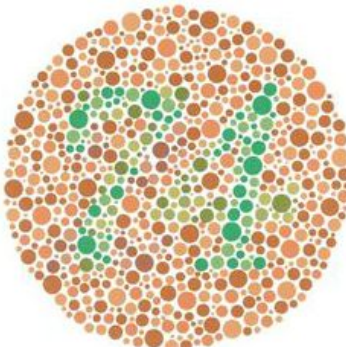


# Color Blind Test

A Web Page

http://

Test Progress...

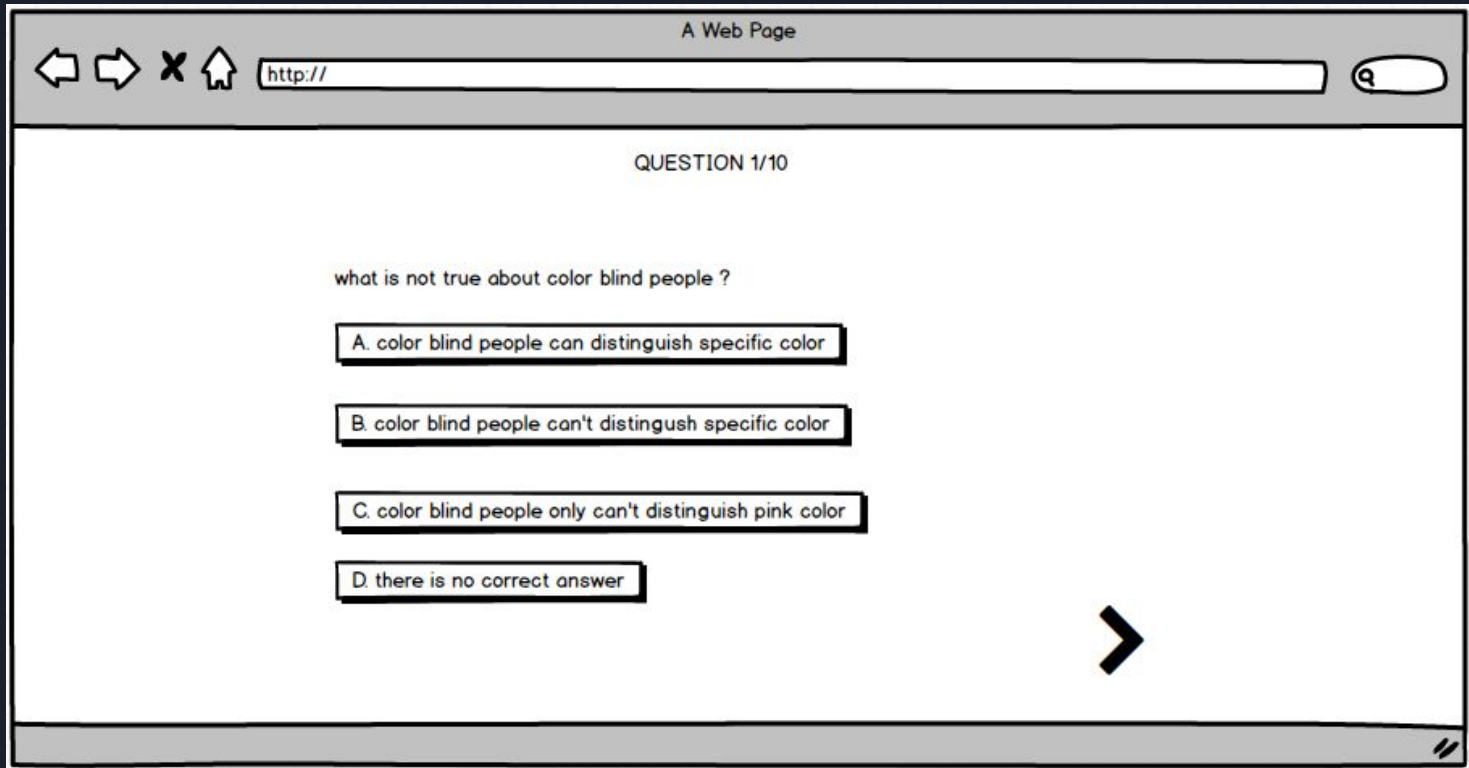


Select the number you see in the circle to the left to test your color acuity.

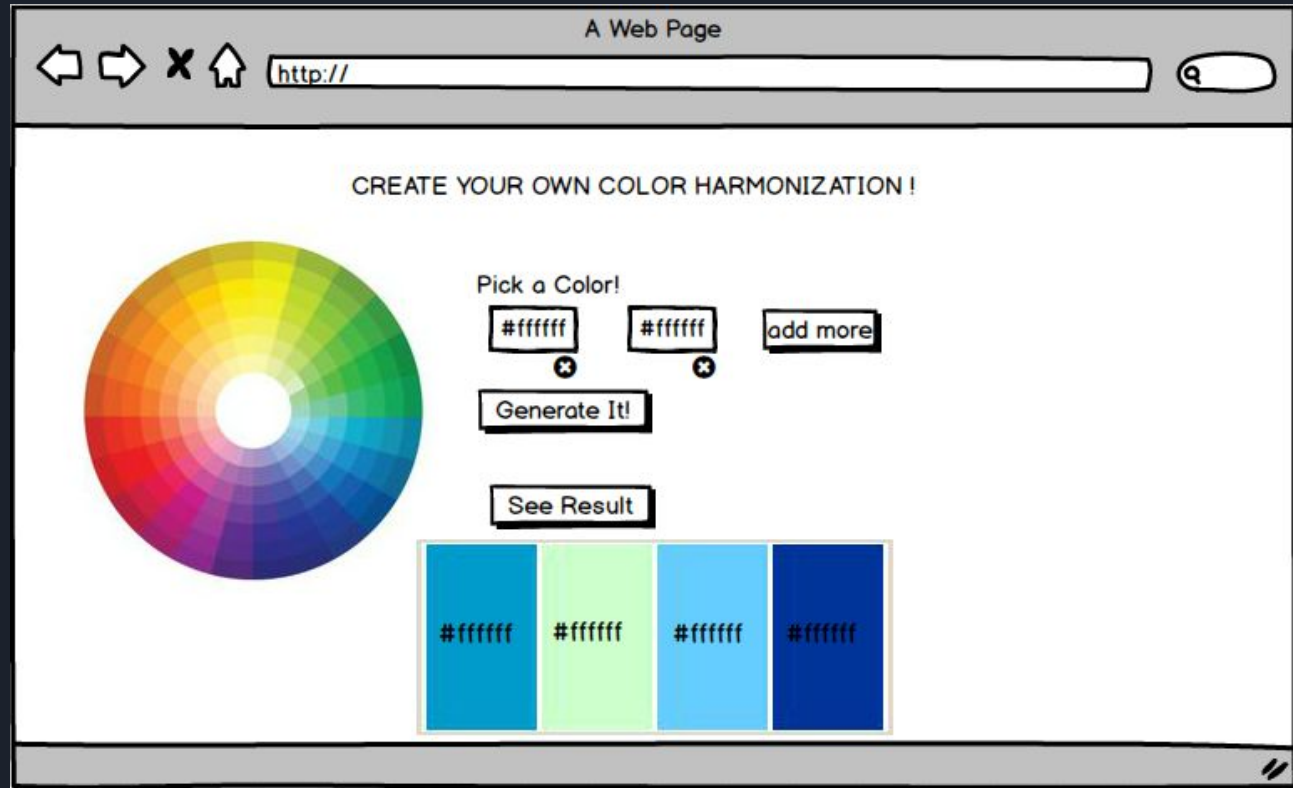
1	2	3
4	5	6
7	8	9

PASS

# Quiz Page

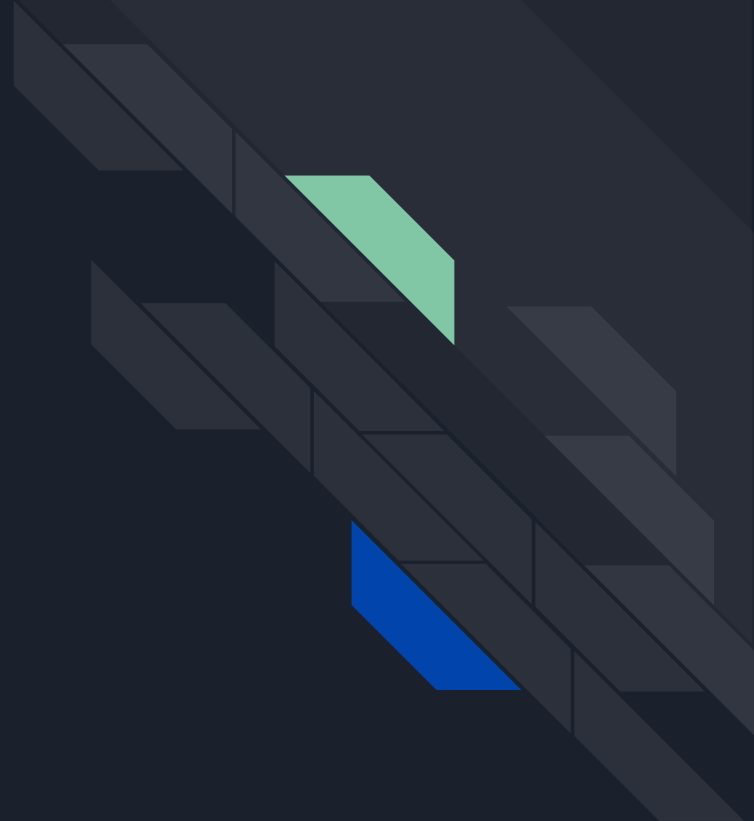


# Harmonization page



# Source Code

<https://github.com/putuwinda/ColorBlindBuddy>



Experience





## Difficulties

- First experience in using LaTeX
- Lack of skills
- Lack of time

## Weakness

- Some functions don't work: Find Nearest Eye Doctor, and Clothing Guide
- Some UI doesn't meet expectation (Mock-up)

## Things to improve

- In Color blind Test: give more details on what type of colorblind that user has.
- In Mini Quizzes: give more question and randomly shows few of it.
- Some UIs need to be nicer

Thank you!

