ColorWorks Mobile Application
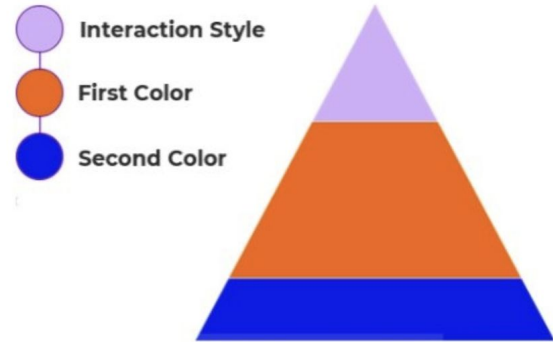
Midterm Presentation

sdmay24-09

Our Project

- Mobile application for ColorWorks

- User-friendly application for mental health & personality coaching

- Targeted users are parents, families, and military service personnel

Personalized Information

- Personality quiz provides individualized information
  - Behavioral, interactions, conflict resolution

  - Situationally-based
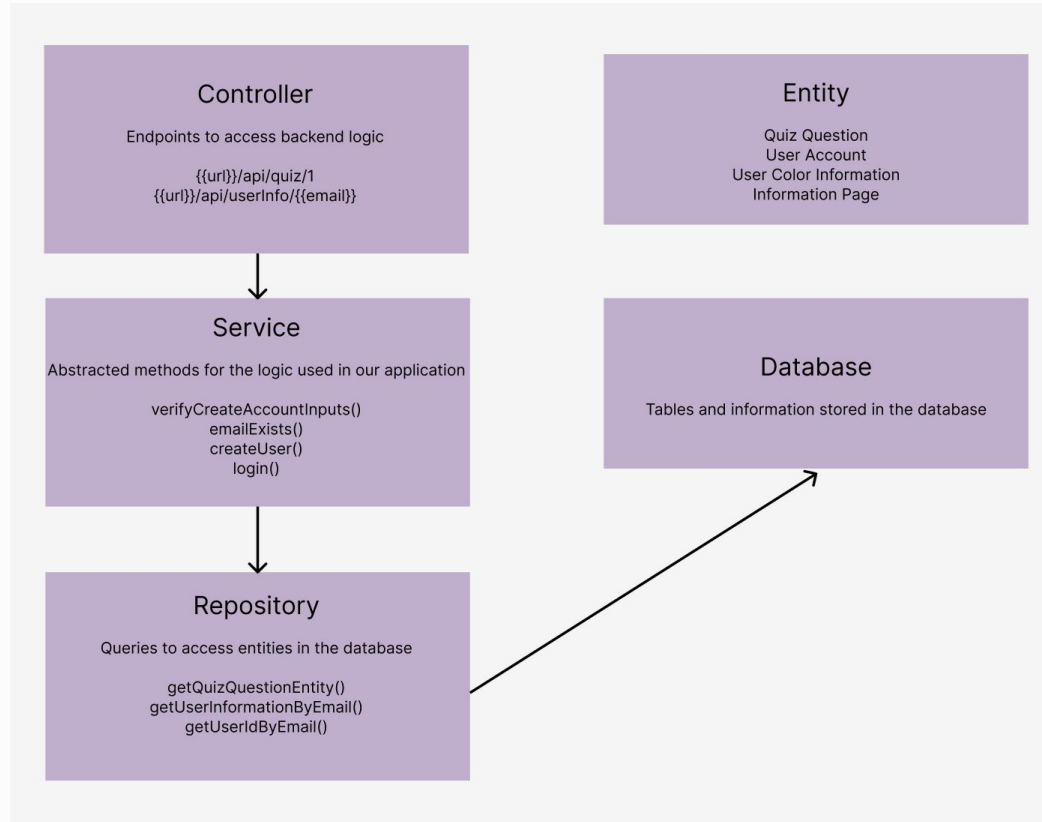 - Switch between user profiles to access information

Software Components

- React, Javascript, CSS
- Node.js
  - Utilizing npm scripts to see frontend application
- Gradle
  - Utilizing gradle to run server on local host
- HostGator hosting service
  - IP address and domain for application
  - MySQL and disk storage access to create and store databases
  - Security resources
    - Data encryption
    - IP blockers
  - Metrics

Project Architecture

- sdmay24-09 (root of repository)
  - colorworks
    - components
      - InputField
      - ButtonNavigation
    - pages
      - LoginPage
      - LaunchPage
      - HomePage
    - images
  - colorworks-backend

Project Architecture

Milestone #1 - Frontend Views

- 85% of frontend page views completed
  - (Pages that are fully-approved by client)
  - Familiarize everyone with React, Javascript, and CSS
  - Implemented base components
    - Input fields, buttons, dropdowns

Milestone #2 - Backend Configuration

- Baseline backend configuration completed
- 70% of tables have been created
    - Creating planned tables as needed only
- Can connect to server and access data in tables thru MySQL

Milestone #3 - Navigation

- 95% completion of page navigation
  - Side menu, bottom menu, and top header
- Allows us to move through all created components / pages of our application

Milestone #4 - Client Feedback

- Met with clients to review current progress and receive feedback
- Get on the same page about moving forward
    - Information we still need from them
    - Approve designs we have for upcoming features to be added to our application

Milestone #5 - Use of Endpoints

- First successful communication between client and server of our application
- Created and are now using endpoints to
  - Validate Login and Create Account credentials
  - Iterate through quiz and receive quiz results
  - Retrieving user information to be displayed in the app

Application Demo

Challenge #1 - Implementing Backend

- All teammates have limited knowledge of backend development
- All teammates prefer to work on frontend
- Did not understand different parts of server architecture

Solution #1 - Implementing Backend

- Charlene has taken lead on implementing the backend solution
- Create documentation for teammates
  - How to utilize endpoints
  - JSON body request formats
  - How to connect to database on MySQL
  - Simplified project architecture

Challenge #2 - Learning React Native

- Not all teammates on the same skill level
- Learning curve
- React Native is becoming more commonly used
  - Important for professional development

Solution #2 - Learning React Native

- Many online resources
- Team meetings to establish knowledge and discuss project architecture
- Utilize reusable components

Challenge #3 - Payment System

- Limited information from clients about their current third-party payment system
- Have to do research on our own for payment system
  - Pricing, implementation to the code, security measures, etc.

Solution #3 - Payment System

- Leah is doing research on which third-party payment system to use
- Determine which solution our clients prefer

Challenge #4 - HostGator Usage

- HostGator is the hosting service provided to us by our clients
- Has been complicated to utilize and figure out

Solution #4 - HostGator Usage

- HostGator customer service has been extremely helpful
  - 20+ hours on the phone / chat
- Utilize documentation for all features

What We Have Completed

- Created views for the core functionality of our application
  - Navigation: Side menu, bottom menu, top header menu
  - Personalized Quiz and Results
  - Create Account and Login Page
  - Settings
- Database is now on the server
- Connect to the server and utilize endpoints

What's Next For Us

- Deploying our SpringBoot application to the server
- Finalize bronze plan core functionalities
- Input client paragraphs / content into the Home Page Library Categories
- Start Silver and Gold plan functionalities
    - Games and Activites
    - Messaging with ColorWorks
    - Chatbot
    - Multiple account profiles
- Integrate with a third-party payment system
- Begin usability and code testing

How Will We Continue To Make Progress?

- Teammate accountability
  - Figma board
  - Weekly stand-ups
- Communicate frequently
  - Weekly meetings
  - Teams posts to request code reviews
  - Update Figma board

Thank you!