

A Full-Stack MERN Web Application

Purpose

- A Disney-themed coloring website to relax and let your imagination run wild, and your inner child run free
- One that any age can use and love
- Reduce stress and anxiety

Major Features

- Authentication using JWT
- Let your dreams come true by coloring images however you would like and as many times as you want!
 - Can use a color picker if options are not what you're dreaming
 - Can view coloring pages prior to sign up
- CRUD functions
- Showcase to let everyone admire your best work
- Download your awesome coloring pages as a PNG

Technologies Used

Back end

- Environment: Node.js
- Framework: Express.js
- Authentication: JWT

Database: MongoDB

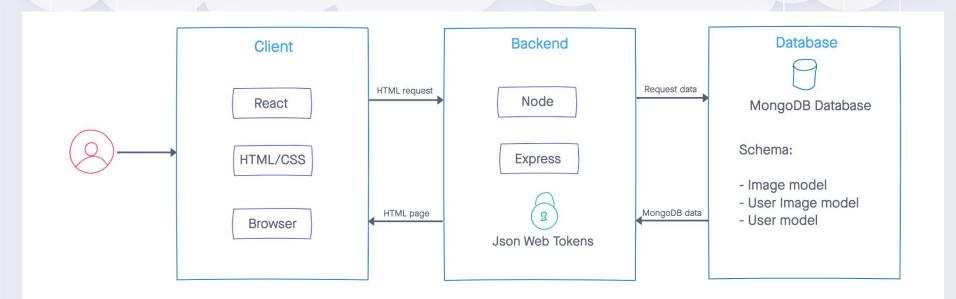
Front end

- Javascript
- React + React Hooks

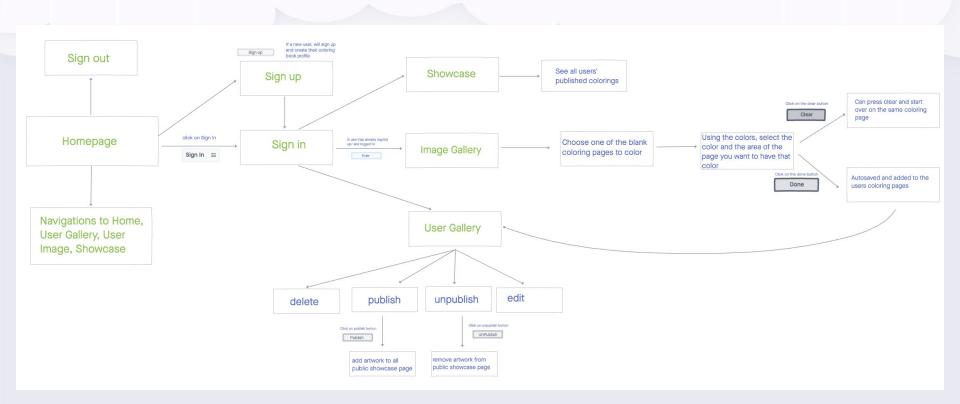
External libraries: mongoose, cors, axios, react-bootstrap

Other: Adobe Illustrator, Inkscape, Convertio.io

Application Architecture



User Story



External Services

Database

MongoDB used to store images, userImages, and user collections

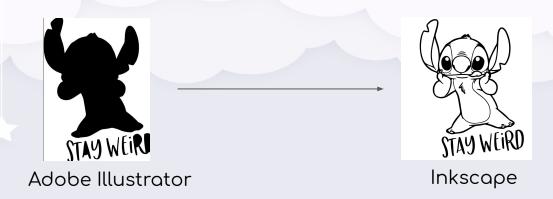
Authentication

Utilized JWT standard to send and verify user token

Handling SVG Files

- Adobe Illustrator takes a SVG's compounded path and breaks it into its multiple components
 - This would turn the entire SVG black
- Using Inkscape would turn the non-border's background to white so they can be colored on the site
- Upload SVG's to the images folder and put a onClick() handler and an index into our color array onto each path (some up too 400 paths)
 - If it is a border would fill the path to black so it could not be colored

Handling SVG Files



<path onClick={() => this.props.onFill(11)} fill={this.props.fillColors[11]}

fill-rule="evenodd" stroke="#000000" d="M679.5,431.6c1.5,1.6,1.5,1.8-.5,3.8-1.8,1.8-2.2,1.9-3,.6-1.5-2.3-1.2-6,.4-6A5.46,5.46,0,0,1,679.5,431.6Z" transform="translate(-1.56 -0.34)" id="path32"

Tests Performed

- REST endpoints tested using Insomnia HTTP client
- Coloring of svgs tested with the IDE and local webpage open side by side for easy debugging
- Responsive front end tested using Chrome DevTools
- Once launched to Heroku, sent to friends and family to test on their own devices

Application Deployment

- Whitelisted all IPs on MongoDB Atlas
- Added MongoDB API key as Heroku config var
- Added a Heroku Postbuild script in the root package. JSON file to ensure creation of build folder
- Added code in server.js file to ensure that if the node environment is in production any requests other than defined routes should load index.html file within build folder
- Added a remote to our local repository and pushed code from the local repository to Heroku master branch

Demo



Thank you for watching!!!