Master 30 - desk 1
Final Project Proposal

What is the project?

- Digital scratch-off bucket list for various categories

Why are you making it/what problems does it solve?

- Allows users to complete or create bespoke bucket lists
- Helps users to provide recommendations for films/travel/music/etc
- Allows users to connect without being in close range, especially beneficial during lockdown

What are the proposed features?

Basic

- user registration/login/logout
- select + complete premade lists
- scratchcard style CSS on each list item
- create/edit/delete personalised text-based lists
- both premade and personalised lists will have min/max number of items
- user profile page which tracks in progress/completed lists, with visible progress of list completion (in %)
- settings page to update details (name, email, password) or delete profile
- fixed horizontal navbar for desktop
- API for images on premade lists
- consideration of compatibility under equality act

Stretch

- ability for users to share/comment on lists and follow friends via social media linking
- ability for users to 'save' a list to their user profile to come back to later
- ability for users to upload their own image(s) on their personalised lists
- option on settings page for other style options rather than just scratchcard (i.e. checkbox, card flip)
- star-based rating system for lists
- achievement badges on user profile
- shopping integration with basket page (buy albums from music list, books from book list, etc)
- hamburger menu rather than horizontal navbar for smaller devices
- option on settings page to change colour scheme/font size in order to aid accessibility

What is the proposed tech?

- MongoDB
- React
- Node.js
- Express
- APIs for images
- Netlify
- Insomnia
- Heroku
- Mongoose
- AWS or Cloudinary (stretch)

Tech Spec, and the tech we are going to use for the client/server/database layer:

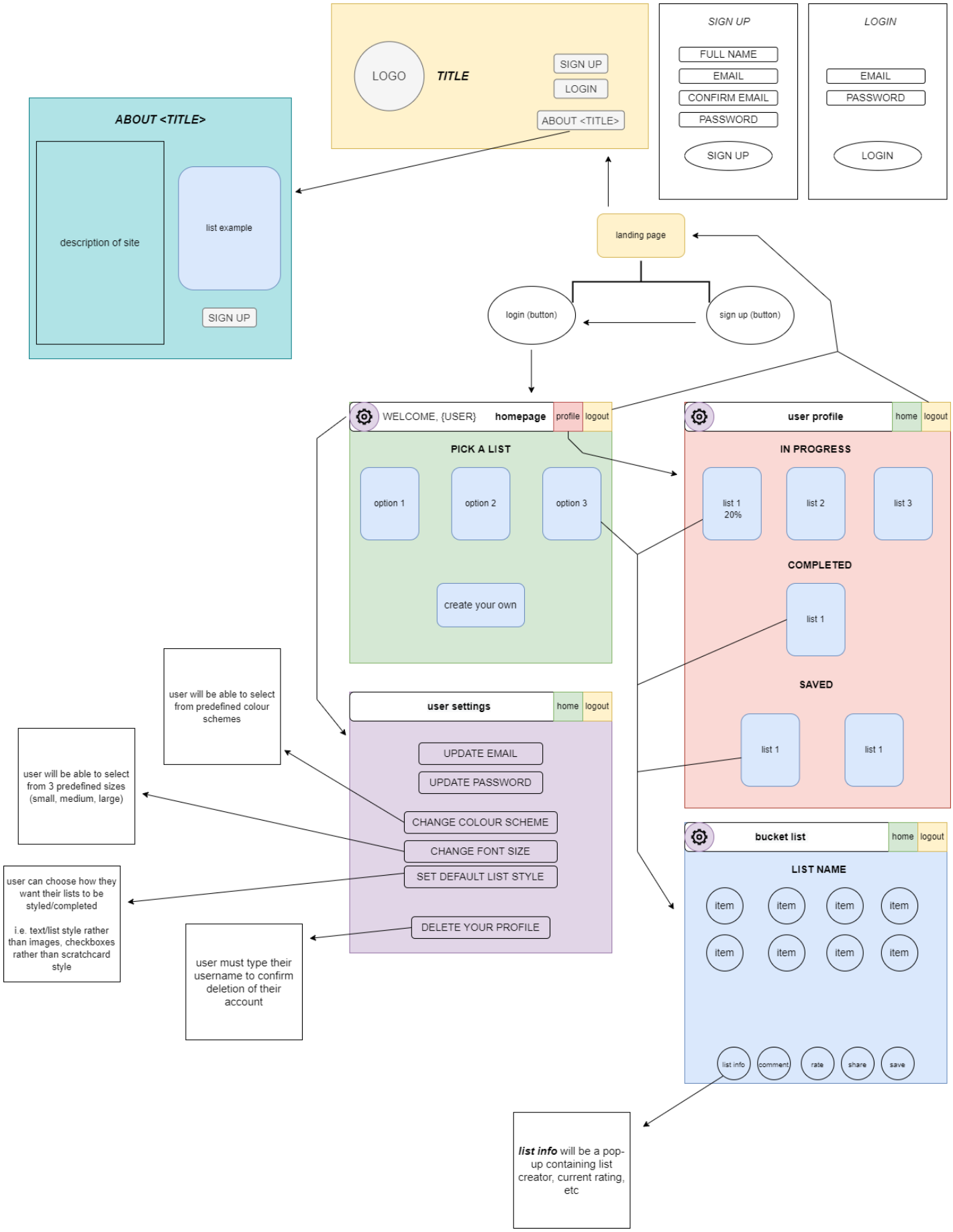
- **React** and **React Router** for front-end.
    - React Router allows us to build a single-page web application, complete with navigation, without the page refreshing as the user navigates.
- **Netlify** for hosting front-end.
- **Insomnia** to test API endpoints during development/testing stage.
- **Heroku** for hosting back-end databases.
- **Express** to define routes of the application based on HTTP methods and URLs, including various middleware modules which perform additional tasks on request and response.
- **MongoDB** to store user information (username, email, password, etc.) and bucket lists, with the advantage of creating a uniquely defined order.
- **Mongoose** (as part of MongoDB) can structure the data to be more flexible.
    - NoSQL databases are generally faster than SQL, run well on the cloud, and provide scalability and flexibility.
    - We'll use Mongoose to define a schema for our data models so that our documents follow a specific structure with predefined data types, and to validate data.
- **AWS** or **Cloudinary** (stretch) to store images uploaded by users.

User stories:

Project user stories.drawio (also shown below)

Different things a user should be able to do:

shown in user story diagram


LOGO
TITLE
SIGN UP
LOGIN
ABOUT <TITLE>
SIGN UP
FULL NAME
EMAIL
CONFIRM EMAIL
PASSWORD
SIGN UP
LOGIN
EMAIL
PASSWORD
LOGIN
ABOUT <TITLE>
description of site
list example
SIGN UP
landing page
login (button)
sign up (button)
WELCOME, {USER}
homepage
profile
logout
PICK A LIST
option 1
option 2
option 3
create your own
user profile
home
logout
IN PROGRESS
list 1
20%
list 2
list 3
COMPLETED
list 1
SAVED
list 1
list 1
user will be able to select from predefined colour schemes
user will be able to select from 3 predefined sizes (small, medium, large)
user can choose how they want their lists to be styled/completed
i.e. text/list style rather than images, checkboxes rather than scratchcard style
user must type their username to confirm deletion of their account
user settings
home
logout
UPDATE EMAIL
UPDATE PASSWORD
CHANGE COLOUR SCHEME
CHANGE FONT SIZE
SET DEFAULT LIST STYLE
DELETE YOUR PROFILE
bucket list
home
logout
LIST NAME
item
item
item
item
item
item
item
item
list info
comment
rate
share
save
list info will be a pop-up containing list creator, current rating, etc