

1.1.1. Conception Phase

Overview of the Concept:

The web application aims to be akin to that of a Pinterest/Polyvore type collage page to mix aesthetics with productivity. Students can upload and/or select PNG images and have each image correspond to a to-do list item. This makes for a visual list embodying the user's mood and project(s). The actual goal is to make studying or tasks much more engaging as well as motivational for people. Possible name: *StudentScrap: A Visual To-Do List*

Target User Group:

- For students in high school or university (ages 14-25)
- The users who are visual engagers and prefer an organised and aesthetically appealing way to manage tasks
- Truly anyone who would like to be expressive in creating lists to keep track of their progress

Benefits of the Application:

- It is a fun and stimulating way to create what are typically mundane lists
- It is encouraging of expression and creativity through visual stimuli
- Easy-to-use application interface and view of the scrapbook page

Technical Components/Aspects:

- Frontend: HTML + CSS for proper code structure and stylised aspects. JavaScript and React.js for the dynamic parts
- Backend: Node.js + Express.js (a RESTful API)
- Libraries: html-to-canvas (to export the scrapbook page as a PNG) and react-beautiful-dnd (the drag and drop for each collage item)
- Storing data: MongoDB Atlas for the storage of lists, image URLs, as well as text; and Cloudinary for PNG storage
- Compatibility with browsers: Runs with full functionality in different browsers (Chrome, Firefox, Safari etc.)

High-Level Architecture Diagram:

