PhotoPhonic
Project Milestone 7
CSCI 3308 REC 013 Group 6
Natives 013_6
The PhotoPhonic Team: Bella Barbieri, Spencer Stepanek, Dylan Ginsberg, Luke Pan, Trevor Aweida

Project Description (A 200 word summary of the project)

PhotoPhonic is a visual-to-audio synesthesia machine that takes user-uploaded images and converts them into audio, based on quantifiers such as color and contrast. A unique id is created for each image and is displayed. After generating the audio, the user is able to interact with the playbar to listen to it. The user can also adjust the volume and download the audio file to their computer by clicking on the three dots on the playbar and then clicking "download". Additionally, PhotoPhonic has an account system where you can create an account and log in to it. When you are logged in your uploaded image id's are saved to the database. PhotoPhonic also has an "Other Creations" page where you can see images that you have uploaded previously as well as some stock images. Clicking on the social media widgets at the bottom of the home page will redirect the user to their desired social media website.

The website frontend is made up of HTML with CSS and Bootstrap templates. Jinja is used for HTML templating. The project backend uses Flask, PostgreSQL for the database, and Flask SQLAlchemy to interface with the database. Python OpenCV is used for image processing. Throughout the project Docker was used for building and testing the project.
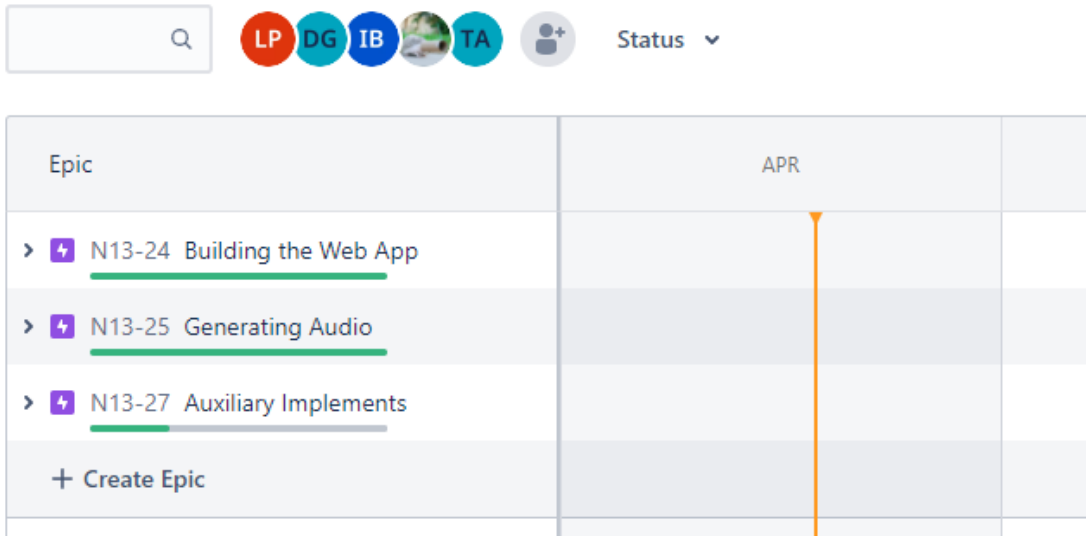
Project Tracker

Jira Board:
https://csci-3308-spring21-13-6.atlassian.net/jira/software/projects/N13/boards/1

Screenshot:

VCS
Github Repository:
https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6

Contributions

Luke Pan

https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6/commits?author=Luke0328

- Worked with Python Flask, Flask SQLAlchemy, PostgreSQL, and HTML
- Worked on the login page and database for storing user and image information

Bella Barbieri

https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6/commits?author=bellab8201

Spencer Stepanek

https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6/commits?author=Spacener

Dylan Ginsberg

https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6/commits?author=dygi8890

Trevor Aweida

https://github.com/CSCI-3308-CU-Boulder/3308SP21_section013_6/commits?author=taweida

- Worked on HTML/bootstrap styling, appearance and links.
- Wireframes, idea and design generation.
- Helped (attempted) databasing with Luke.
- Account registration page

Deployment
The application was deployed using Heroku. It is accessible through:
https://photophonic.herokuapp.com/