Archangel

Helping to promote a healthier world

Group Members

Active Members:

Kyle Schultz

Mitch Massey

Aaron Steiner

Thomas Martinez

Mike Ren

Inactive Members:

Kevin H.

Overview

Archangel is a website to provide a single resource about pollution. It gathers information from many other sources on different types of pollution and how you can contribute to the various causes. It is meant to spread awareness on the different factors that cause pollution and links to the charities and technologies that are helping to remedy the problem. It also helps spread awareness on the different political factors that are influencing our planet. When the user accesses the home page they will be able to utilize the globe and select different points on the planet to see real time pollution information.

NAME: Kyle
Title: Scrum Master

-Entry page

-Login/SignUp page

- Integration with back end

-Database

Name: Aaron

-HTML DOCS/Code

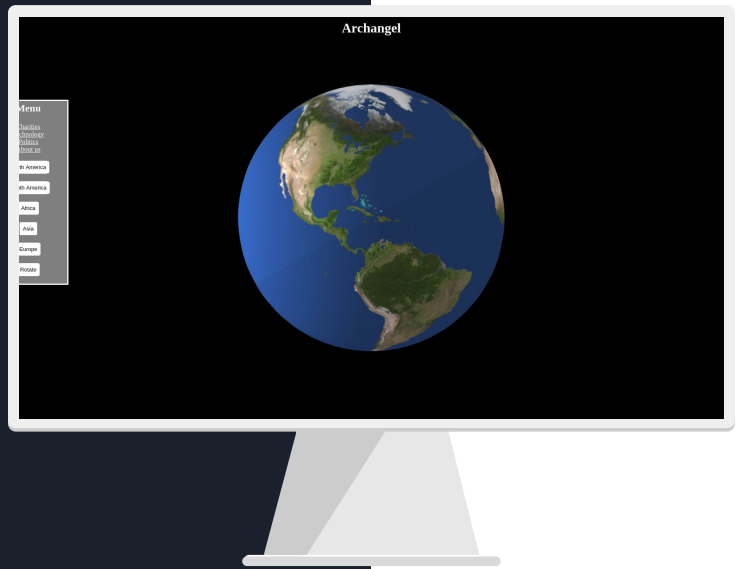
-Website Information and Images

NAME: Thomas

-About Us Page

-Website Formatting

-Website Styling

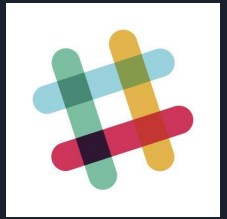


Name: Mitch

- Globe Page
- Predefined viewpoints
- Integrate Breeze Api
- Integrated Orbital controls
- Setup Scene in ThreeJS
- HTML for globe page

Tools Utilized

01 Slack - group communication tool



02 GitHub - source/version control

03 KNEX - Query builder for MySql. Used with Node.js


```
const knex = require('knex')(require('./knexfile'))
module.exports = {
  createUser ({ username, password }) {
    console.log(`Add user ${username}`)
    const { salt, hash } = saltHashPassword({ password })
    return knex('user').insert({
      salt,
      encrypted_password: hash,
      username
    })
  },
```

Tools Utilized

04 Three.JS

05 OrbitalControl.JS

06 Google Docs/Slides - project tracker

Tools Utilized

07 BreezeOmeter API

08 AJAX

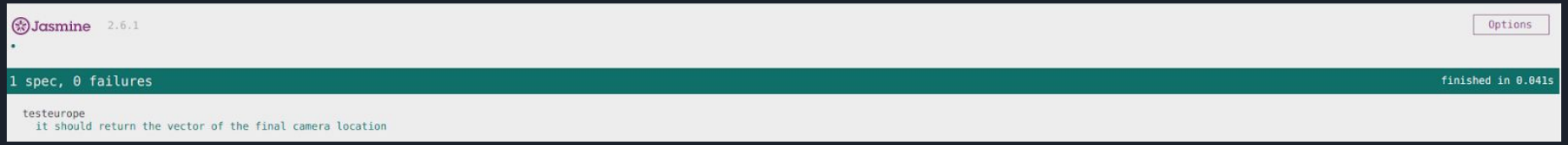
09 JQUERY

Tools Utilized

10 MySQL - database tool

```
+----+----------+---------------------+---------------------+----------+------------------------------------------------------------------
---------------------+
| id | username | created_at          | updated_at          | salt     | encrypted_password
                     |
+----+----------+---------------------+---------------------+----------+------------------------------------------------------------------
---------------------+
|  1 | test     | 2018-04-30 12:00:27 | 2018-04-30 12:00:27 | f836dc07 | 861259602c1ff215502998c7a207823aacf0e271275c9722b0ad5fdf4fec9512e043dfecf6bf9fa8a006bf8c94c8a4d56dc042d4835
06f662c6a49e11ba01617 |
|  2 | kyle     | 2018-04-30 12:15:56 | 2018-04-30 12:15:56 | 321f4122 | 1bfa050f80f30fd2f47f08b267758225a925acc98be580790591841e9d97640acdf38999a2bddf57100bf820e068bf6cff72d1aac74
102b9302bb14d40e35f0d |
+----+----------+---------------------+---------------------+----------+------------------------------------------------------------------
---------------------+
```

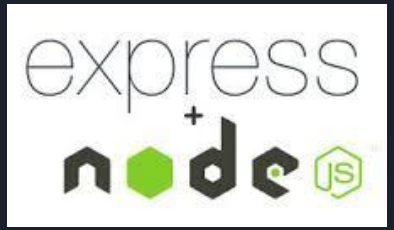
11 Jasmine.JS



Tools Utilized

12 - Express - back end web framework. “Utility belt” for Node.js

13- Node.js - A server-side scripting language. Run our app on a local server. Integrate front end with back end.



Tools Rating

Slack ⭐⭐⭐⭐⭐

GitHub ⭐⭐⭐⭐⭐

KNEX.JS ⭐

Three.JS ⭐⭐⭐⭐⭐

OrbitalControls.JS ⭐⭐⭐⭐⭐

Google Docs/Slides ⭐⭐⭐⭐

Express ⭐⭐⭐

AGILE Method

BreezeOmeter API ⭐⭐⭐⭐⭐

AJAX ⭐⭐⭐

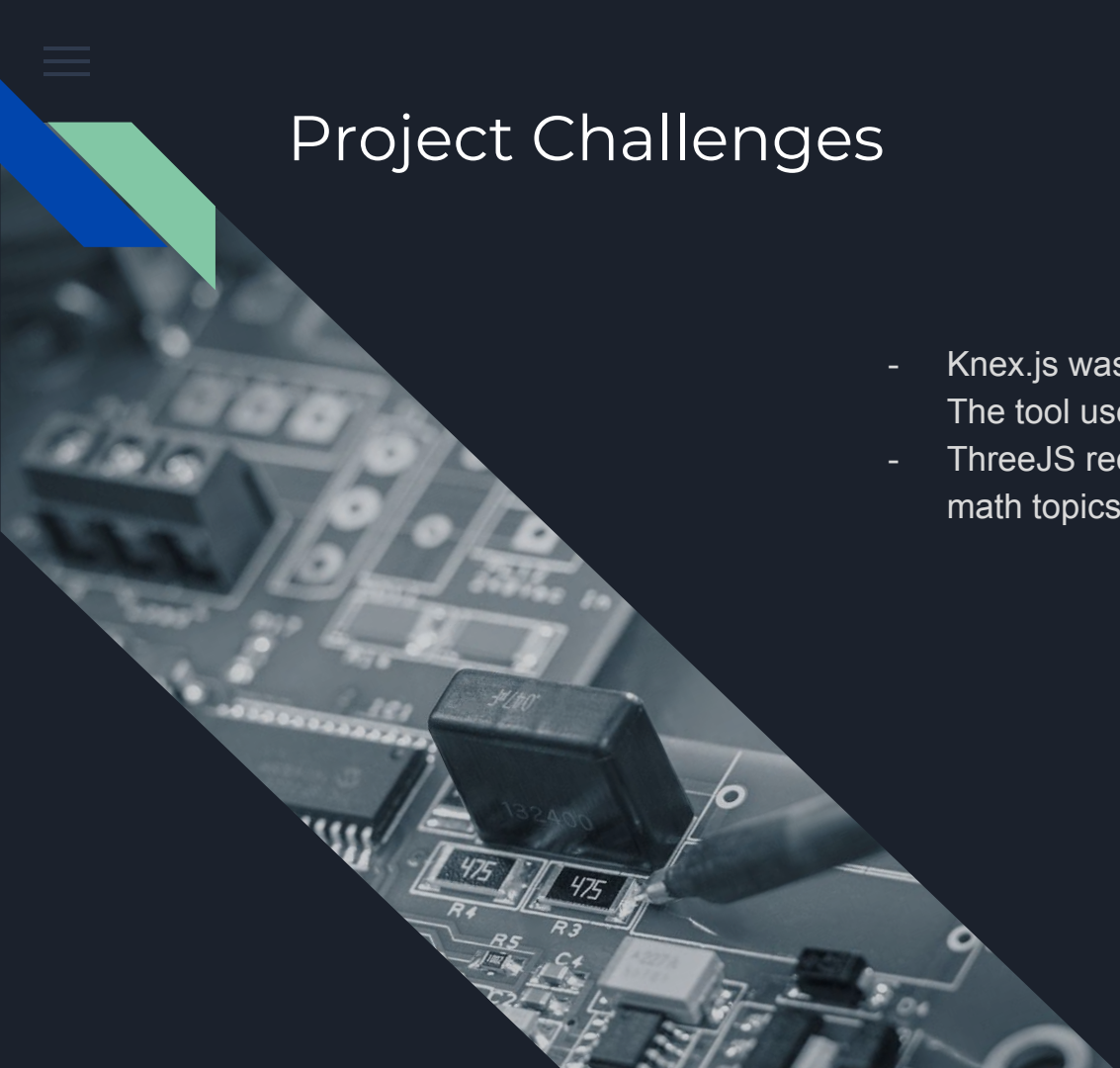
JQUERY ⭐⭐⭐

MySQL ⭐⭐⭐⭐⭐

Jasmine.JS (Auto Test Tool)⭐⭐

Node.JS ⭐⭐⭐

Project Challenges



- Knex.js was a very challenging tool to use/learn. The tool used promises and it was tough to learn.
- ThreeJS requires understanding of advanced math topics such as quaternions

Project Challenges

- Lack of full group members being present for meetings.
- One member not contributing at all.
- Managing scope of project.
- Managing time for the project and other classes.
- Learning Javascript.
- Utilizing tools before we learned them in class

Lessons Learned

Starting early payed off

Don’t trust people to pull their weight

Meet and communicate often to stay on task

Ask other group members for help if it is needed

There are a lot more pieces to creating a website than we previously thought

Testing code as you go is more efficient than waiting till the end to test