



Progress Report 2

COSC 4P02

April 2023

PROFESSOR

Naser Ezzati-Jivan

TEAM MEMBERS

Diego Vergara - 6583819
Michael Wisniewski - 6402176
Zachary McGovarin - 6817019
Haseeb Ahmad - 6541957
Wayne Bessey - 6527303
Alexander Gibson - 6479364
Micah Rose-Mighty - 6498935
Samuel Onabolu - 6783369



Progress

Group Roles

Scrum Master:

- Diego

Frontend:

- Micheal
- Haseeb
- Wayne

Backend:

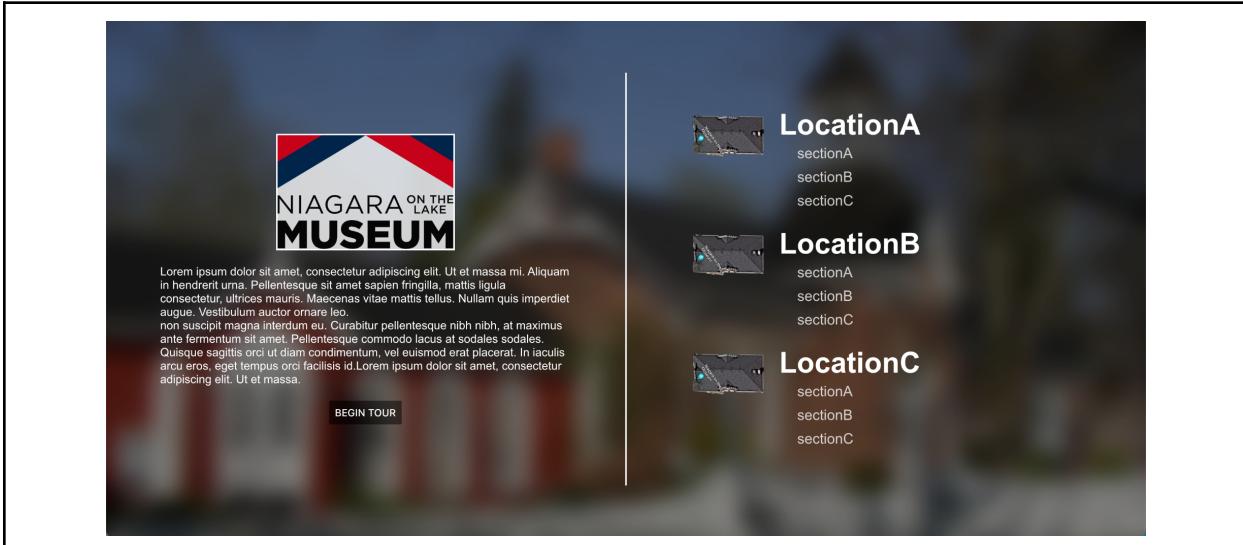
- Zach
- Samuel
- Micah
- Alexander

Sprint Backlog

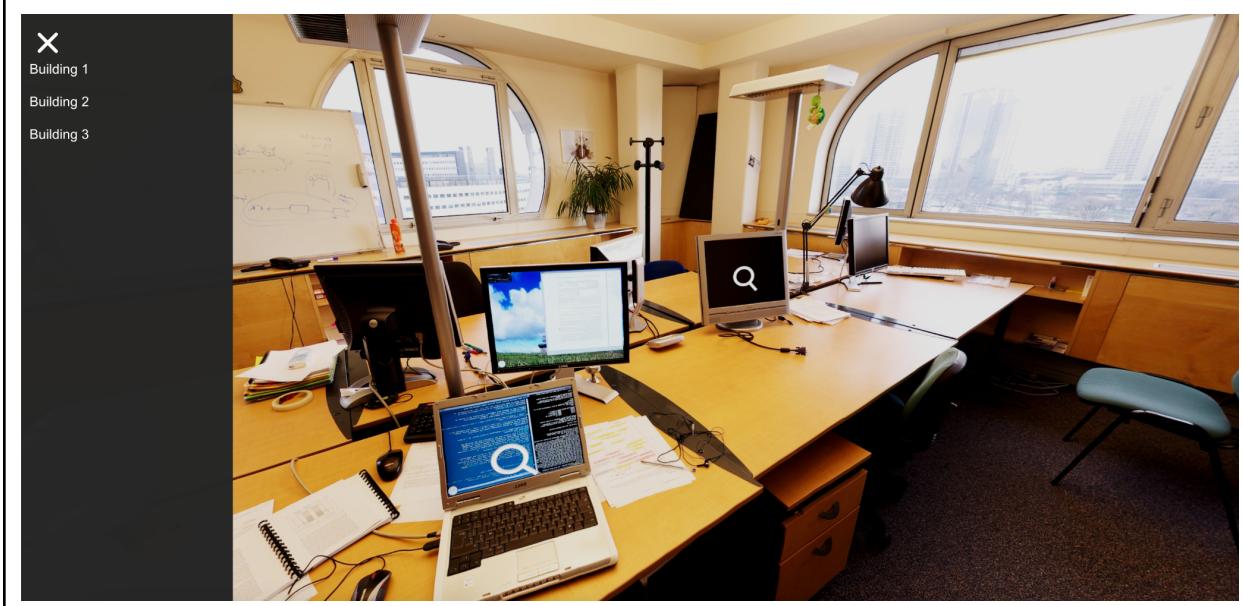
| C42 Sprint 2 24 Feb – 20 Mar (21 issues) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <input checked="" type="checkbox"/> C42-9 As a user, I want to be able to have a panoramic view of a room | |
| <input checked="" type="checkbox"/> C42-1 As a user, I want to be able to tour different museum rooms | |
| <input checked="" type="checkbox"/> C42-10 As a user, I want to be able to look around within a panoramic view | |
| <input checked="" type="checkbox"/> C42-7 As a user, I want to know what artifacts i have already interacted with | |
| <input checked="" type="checkbox"/> C42-12 As a user, I want to access the tour with minimal client side set up | |
| <input checked="" type="checkbox"/> C42-11 As a stakeholder, I want to encourage the user to complete the whole tour through a completion meter/checklist | |
| <input checked="" type="checkbox"/> C42-20 As a user, I want to be able to walk through different areas of a room | |
| <input checked="" type="checkbox"/> C42-25 As a user, I would like to be able to move throughout the museum rooms using arrow keys / keyboard buttons. | |
| <input checked="" type="checkbox"/> C42-29 As a user, I would like to be able to click ESC to close an artifact's description. | |
| <input checked="" type="checkbox"/> C42-34 As a stakeholder, I want smooth visual transitions through rooms | |
| <input checked="" type="checkbox"/> C42-37 As a Product Owner, I would like the view of the application to adjust to the window size | |
| <input checked="" type="checkbox"/> C42-31 As a manager/stakeholder, I want to ensure that the virtual tour is accessible on a variety of devices and Internet browsers so that as many users as possible can access it. | |
| <input checked="" type="checkbox"/> C42-39 As a user, I want the images / application to automatically adjust to the resolution of my display. | |
| <input checked="" type="checkbox"/> C42-36 As a stakeholder, I would like to showcase merchandise from the museum | |
| <input checked="" type="checkbox"/> C42-35 As a user, I want to be able to easily click on hyperlinks in artifact descriptions to gain more information. | |
| <input checked="" type="checkbox"/> C42-3 As a user, I want to be able to learn about the history of different artifacts | |
| <input checked="" type="checkbox"/> C42-5 As a Product Owner, I want to collect analytics on users interaction with the artifacts being viewed | |
| <input checked="" type="checkbox"/> C42-18 As stakeholder, I want to be able to showcase who donated the artifacts | |
| <input checked="" type="checkbox"/> C42-41 As a user, I want to know the time era of artifacts | |
| <input checked="" type="checkbox"/> C42-42 As a user, I want to know the backstory of an artifact | |
| <input checked="" type="checkbox"/> C42-19 As a user, I want to be able to filter/highlight different artifact categories | |

Implemented:

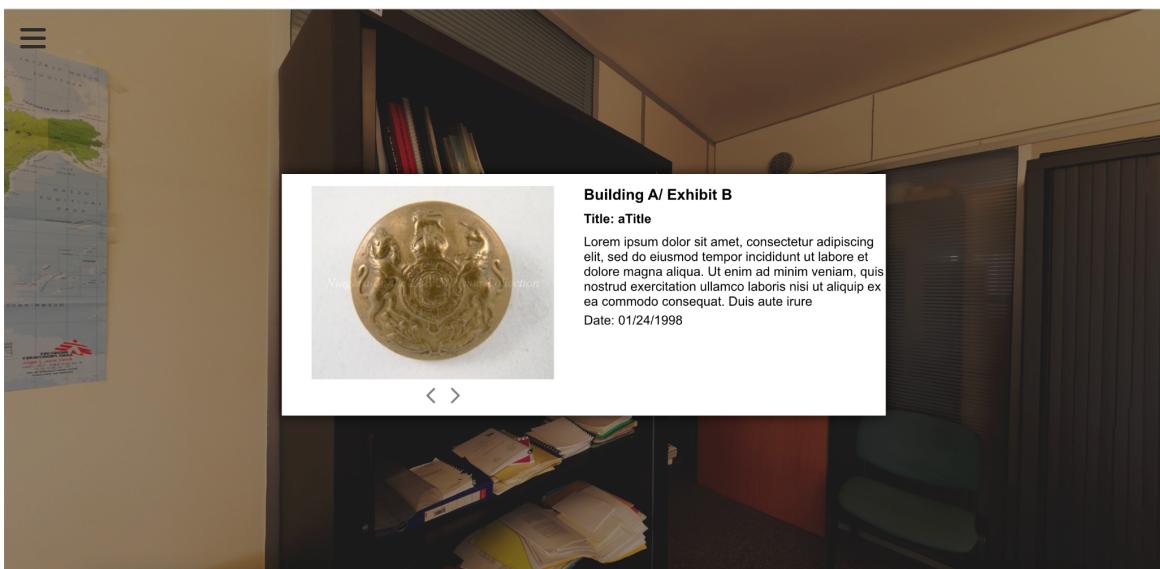
New backend Repository: https://github.com/dv18uj/COSC_4P02_Backend



- Starting Screen properly styled.
- Begin Tour button now functional, starts the panoramic tour.
- Ready to be connected to the backend.



- Side Menu implemented, needs to be styled.
- Interactive icons implemented, hotspot icons open information panels.
- Ready to be connected to the backend and begin creating a complete tour.



- Hotspots open info panels.
- Infopanel needs to be styled and connected to the backend.

Untitled Request

GET http://localhost:8080/api/user/get?uid=1

Params • Authorization • Headers (8) Body Pre-request Script Tests Settings Cookies Code

TYPE
Basic Auth

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Username: root
Password: root Show Password

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 128 ms Size: 387 B Save Response ▾

Pretty Raw Preview Visualize JSON

```

1 {
2   "uid": 1,
3   "name": "test",
4   "password": "test"
5 }
```

- Backend setup using spring boot
- Above is an example api call to retrieve a user from the database.

phpMyAdmin

Server: localhost:3306 > Database: panotour

New

information_schema

mysql

panotour

- New
- artifact
- hotspot
- Section
- user
- waypoint

Containing the word:

| Table | Action |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> artifact | Browse Structure Search Insert Empty Drop |
| <input type="checkbox"/> hotspot | Browse Structure Search Insert Empty Drop |
| <input type="checkbox"/> Section | Browse Structure Search Insert Empty Drop |
| <input type="checkbox"/> user | Browse Structure Search Insert Empty Drop |
| <input type="checkbox"/> waypoint | Browse Structure Search Insert Empty Drop |

5 tables Sum

- Set up database with mock data to allow testing

To Implement in next sprint:

- Final styling and connecting to the backend.
- Adding pages and buttons that allow users (with permission) to edit the tour.
- Use application to create panoramic tour of NOTL museum

Contributions

- Diego
 - Created documents to assist with organizing the group
 - Figma:

<https://www.figma.com/file/4xWfw9ygvWLWKpdGaZXnC/Untitled?node-id=0%3A1&t=jtLvE61Kb2ArmTLc-1>
 - Backend plans document:

<https://docs.google.com/document/d/1IWLA7fpGOY711rdLC-FLqNbSIOCv5CaKKIxDj08sIS4/edit?usp=sharing>

Implemented React navigation to allow navigation between pages and opening modals (infopanel).

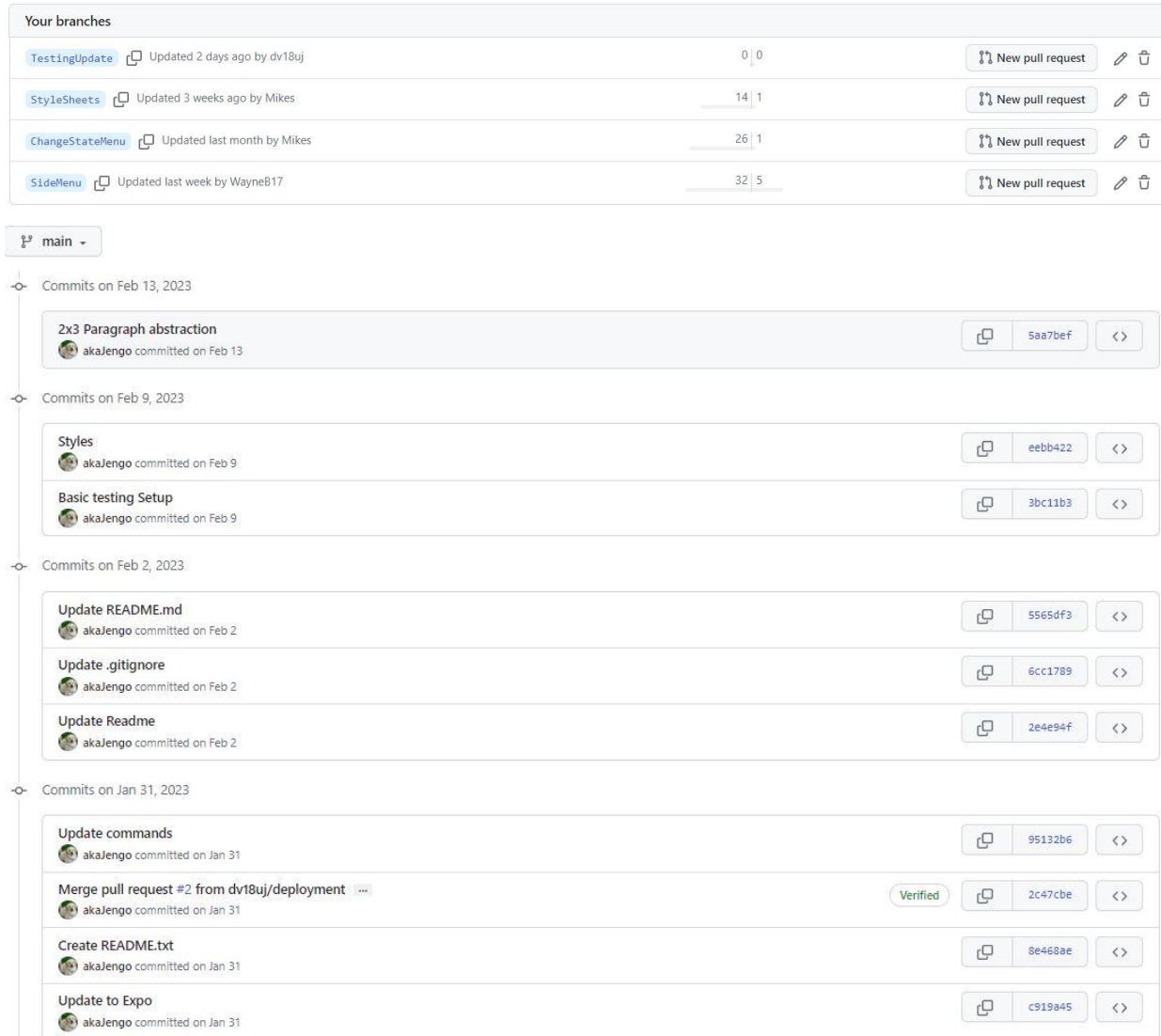
React navigation

#7 by dv18uj was merged 3 weeks ago

Implemented the Starting screen of the application

-  **Paragraph setup**
#4 by dv18uj was merged on Feb 22
-  **Description menu**
#3 by dv18uj was merged on Feb 17

- Michael Wisniewski



The screenshot shows a GitHub repository history for a user named Michael Wisniewski. The main branch is 'main'. The commits are organized by date:

- Commits on Feb 13, 2023:**
 - 2x3 Paragraph abstraction (by akaJengo on Feb 13)
- Commits on Feb 9, 2023:**
 - Styles (by akaJengo on Feb 9)
 - Basic testing Setup (by akaJengo on Feb 9)
- Commits on Feb 2, 2023:**
 - Update README.md (by akaJengo on Feb 2)
 - Update .gitignore (by akaJengo on Feb 2)
 - Update Readme (by akaJengo on Feb 2)
- Commits on Jan 31, 2023:**
 - Update commands (by akaJengo on Jan 31)
 - Merge pull request #2 from dv18uj/deployment ... (by akaJengo on Jan 31, Verified)
 - Create README.txt (by akaJengo on Jan 31)
 - Update to Expo (by akaJengo on Jan 31)

Participated in creating the Expo Project and creating files for basic use of React Native. Updated readme files for running the project on IOS/Android emulators. Created a styles branch for a paragraph setup where text needs to be inputted into the function and the page will adjust to the styling required. Styling in some components was done using the *styled components* package by Wayne, Haseeb and Diego, this was found not to work on IOS/Android and only ran on web browsers. The conversion from

the styled components package to react native was completed by myself and was done on the styles branch. A testing branch was created for testing the application using Jest. This tests assertions, verifiability and class creations of the React Native application.

- Zachary McGovarin

62fc6a - ZachM, 2 days ago : load api auth users from database
03a83b8 - ZachM, 2 days ago : Merge branch 'api' of https://github.com/dv18uj/COSC_4P02_Backend into api
ad488a9 - ZachM, 2 days ago : add employee and owner roles, restrict user management to owner
71ade8e - ZachM, 4 days ago : remove project duplicate
c32767a - ZachM, 4 days ago : initial api authentication implementation
34a61fe - ZachM, 11 days ago : add initial auth classes
b0f3d04 - ZachM, 3 weeks ago : add getuser, fix typos
9522a6a - ZachM, 3 weeks ago : Merge branch 'api' of https://github.com/dv18uj/COSC_4P02_Backend into api
5cea1fa - ZachM, 3 weeks ago : create user / userDao / usercontroller
bb77d13 - ZachM, 3 weeks ago : remove useless files
7dae9c6 - ZachM, 3 weeks ago : get artifact name by oid
390c3af - ZachM, 4 weeks ago : add api call classes
8afc441 - ZachM, 4 weeks ago : create sql connection and perform a test insertion

- Haseeb Ahmad
Infopanel component

Commits on Apr 2, 2023

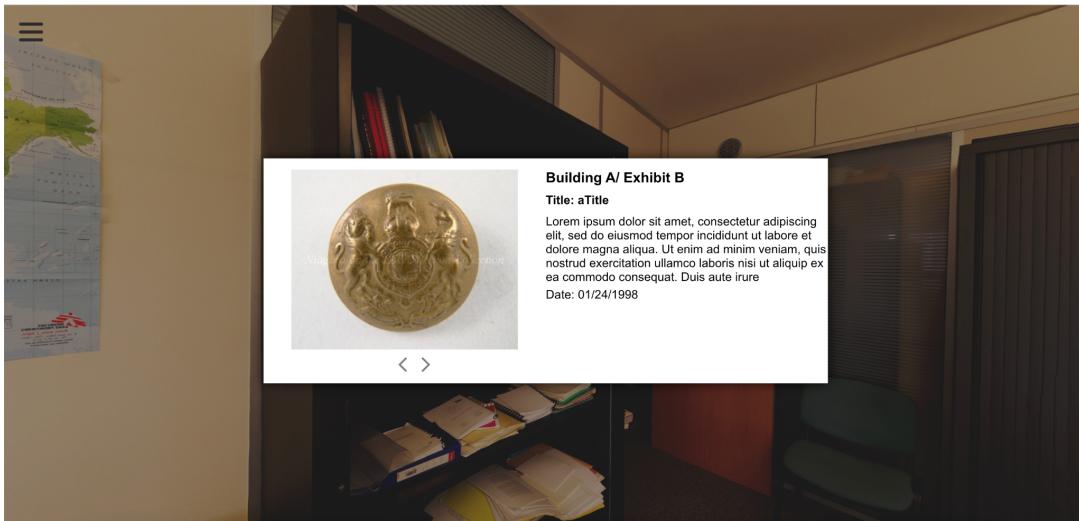
infopanel from Haseeb
dvlBuj committed 2 days ago

Commits on Mar 6, 2023

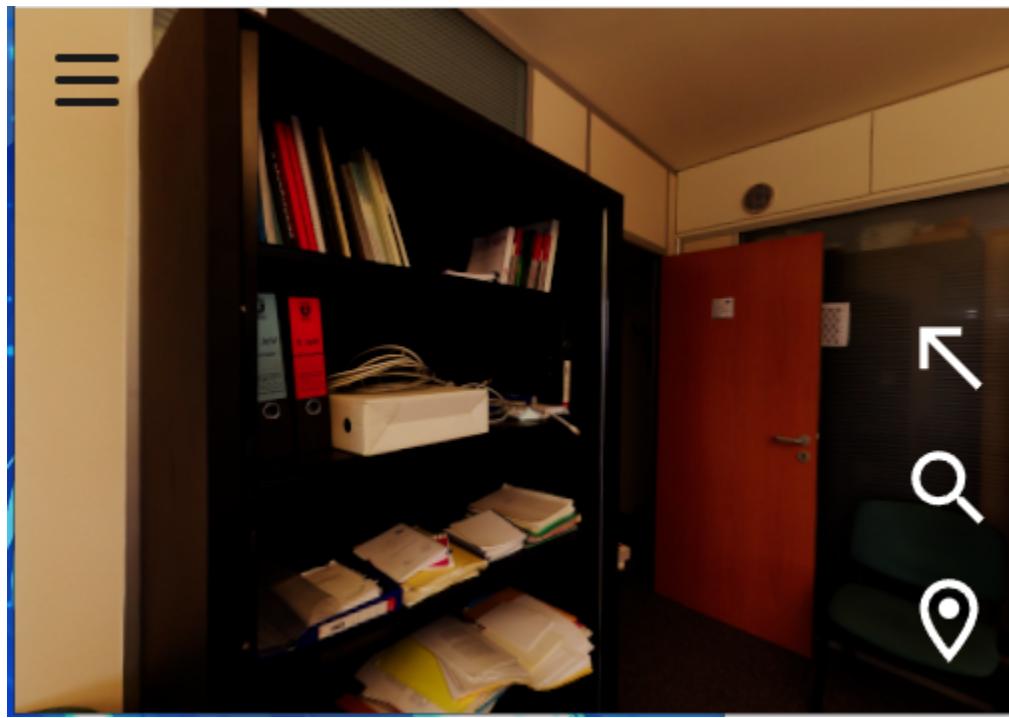
infopanel
zcole123 committed last month

npm install expo-gl
zcole123 committed last month

maintenance ...
zcole123 committed last month



- Implemented SidebarIcons



```
templates > SidebarIcons.jsx ...
1  import React from "react";
2  import './SidebarIcons.css';
3  import {useNavigation, useNavigationBuilder} from '@react-navigation/native'
4
5  import NorthWestIcon from '@mui/icons-material/NorthWest';
6  import SearchIcon from '@mui/icons-material/Search';
7  import LocationOnOutlinedIcon from '@mui/icons-material/LocationOnOutlined';
8  import IconButton from '@mui/material/IconButton';
9
10
11 const doSomething = (e) => {
12   |   console.log("button pressed")
13 }
14
15
16 //Still need to center on page
17 //move button to corner of div.a
18
19 function SidebarIcons () {
20   const navigation = useNavigation();
21   return(
22     <div className="sidebar">
23       <p><IconButton onClick={()=> doSomething()}><NorthWestIcon style={{ color: "white", fontSize:50 }} /> </IconButton></p>
24       <p><IconButton onClick={()=> doSomething()}><SearchIcon style={{ color: "white", fontSize:50 }} /> </IconButton></p>
25       <p><IconButton onClick={()=> doSomething()}><LocationOnOutlinedIcon style={{ color: "white", fontSize:50 }} /> </IconButton></p>
26
27
28
29     </div>
30   )
31 }
32
33 export default SidebarIcons
```

- Wayne Bessey

The screenshot shows two side-by-side GitHub commit histories for the repository dv18uj / COSC-4P02. The left side shows commits from March 7 to 13, 2023, while the right side shows a single commit from February 27, 2023.

Left Side (March 7-13, 2023):

- Commits on Mar 13, 2023:
 - functional** (WayneB17 committed 3 weeks ago)
- Commits on Mar 9, 2023:
 - Unfinished but functional** (WayneB17 committed 3 weeks ago)
- Commits on Mar 7, 2023:
- Commits on Mar 20, 2023:
 - displays hotspot but not functional.** (WayneB17 committed 2 weeks ago)
Implemented a hotspot to the tour, displaying buffer geometry on the mesh on specific points on the web page, but had no functionality.
- Commits on Mar 21, 2023:
 - multiple hotspots ...** (WayneB17 committed 2 weeks ago)
These two commits => Hot spot was now able to display multiple hotspots, and had clickable functionality but did not display anything
 - a** (WayneB17 committed 2 weeks ago)
- Commits on Mar 27, 2023:
 - needs work** (WayneB17 committed 5 days ago)
Tried to implement actual display icons, and make the infopanel respond to onclick functions of the hotspots, the panel would pop up, but displayed incorrectly
- Commits on Mar 28, 2023:
 - idle icon finished, needs hover/onclick** (WayneB17 committed 4 days ago)
Icons now implemented properly, hover was added later but not yet merged to the main branch,

Right Side (February 27, 2023):

- Merge pull request #6 from dv18uj/SideMenu ...** (WayneB17 committed last month)
Added Side Menu
WayneB17 committed on Feb 27
implemented the sidemenu (styling + functionality) along with menubutton, a hamburger menu button with basic onclick transition

Newer Older

+ Alexander Gibson

- Commits on Apr 4, 2023

- updated**
AlexGibby2000 committed 4 hours ago
- Update Waypoint, WaypointDAO, and WaypointController**
AlexGibby2000 committed 4 hours ago
- updated Hotspot, HotspotController, and HotspotDAO**
AlexGibby2000 committed 5 hours ago
- updated**
AlexGibby2000 committed 5 hours ago
- Deleted Backend folder**
AlexGibby2000 committed 5 hours ago

- Commits on Mar 28, 2023

- Updated +added HotspotController and WaypointController**
AlexGibby2000 committed last week

- Commits on Mar 23, 2023

- updated**
AlexGibby2000 committed 2 weeks ago

- Commits on Mar 21, 2023

- moved to PanoTour**
AlexGibby2000 committed 2 weeks ago
- Create Hotspot / HotspotDAO / Waypoint / WaypointDAO**
AlexGibby2000 committed 2 weeks ago
- Create Hotspot / HotspotDAO / Waypoint / WaypointDAO**
AlexGibby2000 committed 2 weeks ago

- Micah Rose-Mighty

Your branches

Location2 Updated 1 hour ago by MicahRM

1 | 4

Location Updated 3 hours ago by MicahRM

21 | 1

- Implemented Location.java

```

1 package com.COSC4P02.PanoTour.entities;
2
3 import javax.persistence.*;
4 import java.io.Serializable;
5
6 @Entity
7 @Table(name = "location")
8 public class Location implements Serializable {
9
10     private static final long serialVersionUID = 338L;
11
12     @Id
13     @GeneratedValue(strategy = GenerationType.IDENTITY)
14     private int lid;
15
16
17     @Column(name = "name", nullable = false)
18     private String name;
19
20     @Column(name = "image", nullable = false)
21     private String img;
22
23     public int getLid() { return lid; }
24     public String getName() { return name; }
25     public String getImage() { return img; }
26 }
```

- Implemented LocationDAO.java

```
Location.java   LocationDAO.java   LocationController.java
1 package com.COSC4P02.PanoTour.entities;
2
3 import org.springframework.stereotype.Repository;
4
5 import javax.persistence.*;
6 import java.util.Collections;
7 import java.util.List;
8 import java.util.Optional;
9
10 @Repository("Location")
11 public class LocationDAO {
12
13     private static final EntityManagerFactory ENTITY_MANAGER_FACTORY = Persistence
14         .createEntityManagerFactory( persistenceUnitName: "PanoTour");
15
16
17     public static boolean addLocation(Location location) {
18         EntityManager em = ENTITY_MANAGER_FACTORY.createEntityManager();
19         EntityTransaction entityTransaction = null;
20         boolean persisted = true;
21         try {
22             entityTransaction = em.getTransaction();
23             entityTransaction.begin();
24             em.persist(location);
25             entityTransaction.commit();
26         } catch (Exception exception) {
27             if (entityTransaction != null) {
28                 entityTransaction.rollback();
29                 persisted = false;
30             }
31         }
32     }
33 }
```

- Implemented LocationController.java

```
package com.COSC4P02.PanoTour.controllers;
1
2 import com.COSC4P02.PanoTour.entities.Location;
3 import com.COSC4P02.PanoTour.entities.LocationDAO;
4 import org.springframework.http.HttpStatus;
5 import org.springframework.access.prepost.PreAuthorize;
6 import org.springframework.web.bind.annotation.*;
7 import org.springframework.web.server.ResponseStatusException;
8
9 import java.util.List;
10 import java.util.Optional;
11
12 @RestController
13 @RequestMapping("/api/location")
14 public class LocationController {
15
16     @PostMapping
17     @PreAuthorize("hasAuthority('museum:write')")
18     @ResponseBody
19     public int addLocation(@RequestBody Location location) {
20         if (!LocationDAO.addLocation(location)) {
21             throw new ResponseStatusException(HttpStatus.INTERNAL_SERVER_ERROR, "Location Could Not Be Added");
22         }
23         return location.getLid();
24     }
25
26     @DeleteMapping(path = "{lid}")
27     @PreAuthorize("hasAuthority('museum:write')")
28     public void deleteLocation(@PathVariable("lid") int lid) {
29         Optional<Location> optionalLocation = LocationDAO.getLocationByLid(lid);
30     }
31 }
```

- Samuel Onabolu

```
3fe1e04 - samuel, 4 days ago : created sections SQL table
```

```
ac169f0 - samuel, 2 days ago : Merge branch 'api' of
https://github.com/dvl8uj/COSC 4P02 Backend into api
```

Created section.java, and sectionDAO.java

A screenshot of a GitHub commit interface. At the top, it says "sections created" and shows a file named "Section_implement". Below that, it says "topmansam committed 3 days ago". On the right, there's a "Browse files" button, a "1 parent 0ba5657 commit d4cc790" link, and "Split" and "Unified" tabs. The main area shows a diff of two files: "Section.java" and "SectionDAO.java". The "Section.java" diff shows the following code:

```
@@ -1,4 +1,30 @@
1 package com.C05C4P02.PanoTour.entities;
2
3 - public class Section {
4 - }
5 +
6 + import javax.persistence.*;
7 + import java.io.Serializable;
8 +
9 + @Entity
10 + @Table(name = "section")
11 + public class Section implements Serializable {
12 +     private static final long serialVersionUID = 338L;
13 +     @Id
14 +     @GeneratedValue(strategy = GenerationType.IDENTITY)
15 +     private int sid;
16 +
17 +     @Column(name = "name", nullable = false)
18 + }
```

a files.

Created loadArtifact and quitArtifact test files to ensure artifact interaction works.

A screenshot of a GitHub commit interface. It shows a file named "quitArtifact.test.js" was created. Below it, it says "topmansam committed 1 minute ago". On the right, there's a "Browse files" button, a "1 parent ebd356f" link, and "Split" and "Unified" tabs.