All Knights Study

John C. Hitt Library Group Finder



Technology used:







mongoDB



























Team members and the part they played

Jacob Mayer - - - - - - - - - - - PM / Front End - Website

Jacob Graff - - - - - - - - - - Front End - Mobile

Chris Parisapogu ----- DB

Bryan Aneyro Hernandez - - - - - API

Chase Hanson ------ Front End - Website

Delali Ekpeh ------ Front End - Mobile

John Vea ----- Front End - Website



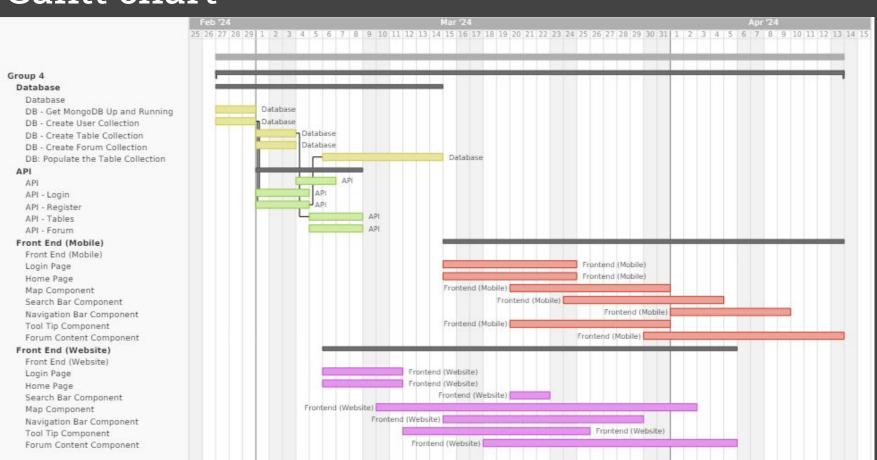
Project Manager

Roles:

- Organization and communication with the team
- Assist with initial planning of app
- Help in the areas where help was needed
- Keep progress on track
- Build presentation

- Leadership
- ReactJS
- Heroku hosting
- Git management

Gantt chart



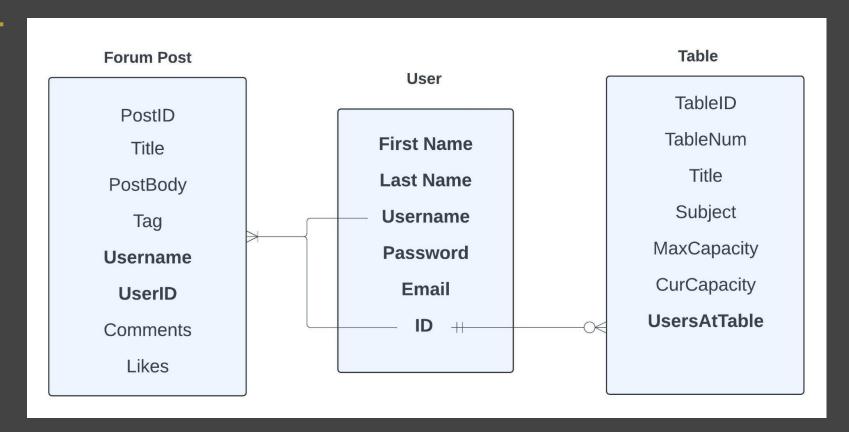
Database

Roles:

- Create maintain the database backend
- Determined the best data representation
- Assisted API creation
- Helped curate the ERD chart accurately

- MongoDB
- Mongoose
- JSON data structures

ERD



API

Roles:

- Create endpoints to assist front-end tasks
- Create various CRUD operation endpoints
 - o Table, Forum, Account
- Created API documentation to assist front-end
- Tested APIs

- JavaScript
- SwaggerHub/Postman
- Form verification and verification schema

Unit Testing - API

```
describe("POST /api/register", () ⇒ {
 it("should register a new user and send verification email", async () ⇒ {
   let mockUser = {
     lastName: "TestUser",
     username: "helloooooooo",
     email: "baneyro@yahoo.com",
     password: "password#999",
    let response = await request(app)
     .post("/api/register")
     .send(mockUser)
     .expect(200):
    expect(response.body).toHaveProperty("token");
    expect(response.body).toHaveProperty(
     "User registered. Verification email sent."
 it("should fail registration with invalid data", async () ⇒ {
    let invalidMockUser = {
     email: "invalid@example.com".
     password: "password123".
    let response = await request(app)
     .post("/api/register")
     .send(invalidMockUser)
```

```
🧑 🧶 🌘 🖿 cop4331-group4 — npm test — npm — node « npm test __CFBundleldenti..

    cop4331-group4 git:(api-test) × npm test

> backend@1.0.0 test
> iest
    Server listening on port 5001
      at Server.log (server.js:60:11)
    Connected to database
      at log (server.js:20:23)
PASS ./server.test.js
  POST /api/register
   should register a new user and send verification email (3183 ms)

✓ should fail registration with invalid data (7 ms)
  POST /api/login

✓ should login an existing user (171 ms)

✓ should fail login with invalid data (239 ms)

  GET /api/search/:key
    should return an array with at least one table object (40 ms)

✓ should not return anything (32 ms)

Test Suites: 1 passed, 1 total
Tests:
             6 passed, 6 total
Snapshots: 0 total
Time:
             4.664 s
Ran all test suites.
```

API demonstration

https://app.swaggerhub.com/organizations/BR867228

Front End - Website

Roles:

- Connected API endpoints to the functional front end for web access
- Established a user friendly environment
- Established general styling for the web app
- Ensure accessibility for all users

- JavaScript and ReactJS
- Tailwind CSS
- Usefulness of packages

Front End - Mobile

Roles:

- Connected API endpoints to the functional front end for mobile access
- Added functionality for mobile accessibility of app functions
 - Pinch and zoom
 - Click and drag
- Ensured production application on the device worked properly

- Dart and Flutter
- Usefulness of packages

Unit Testing - Mobile

```
void main() {
       test('_postData returns 200 status code if request is vaild', () async (
         Map map - {
            'username': "RickL",
            'password' : "COP4331@"
         String url = 'https://cop4331-group4-31270b548dd6.herokuapp.com';
         final response = await http.post(
          Uri.parse('$url/api/login'),
           headers: <String, String>{
           body: jsonEncode(map),
         expect(response.statusCode, 200);
PROBLEMS (243) OUTPUT DEBUG CONSOLE TERMINAL
                                              TEST RESULTS PORTS
The test run did not record any output.
```

Overview

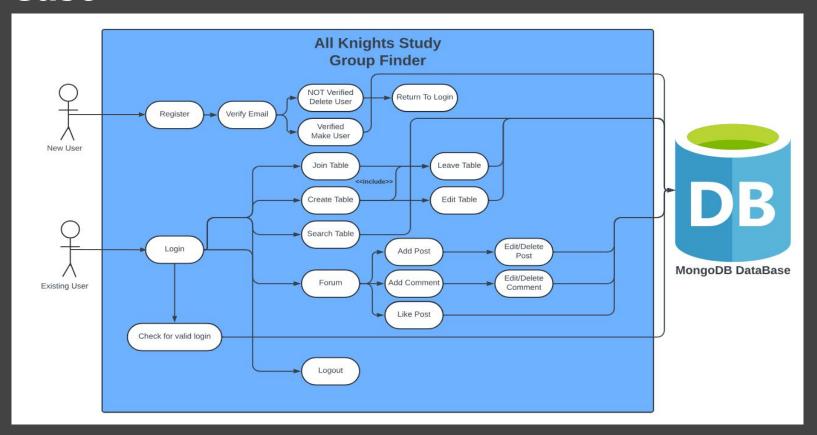
What went well:

- Communication and teamwork
- Database and API
- Learning ReactJS/Flutter
- Forum Functionality

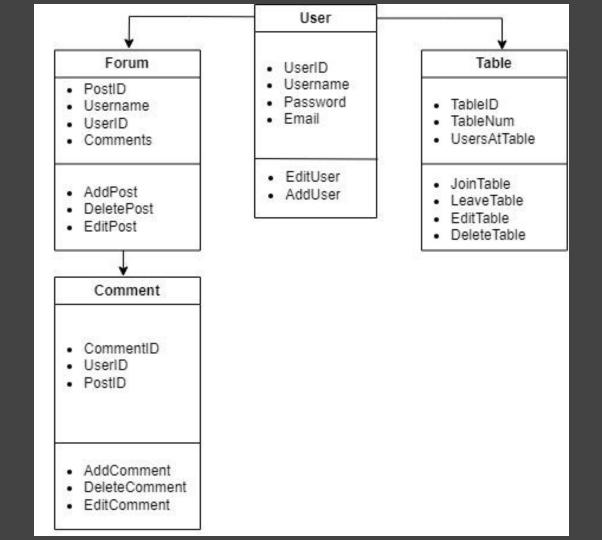
What didn't go well:

- NavBar
- Debugging of Map Positions
- Login/Register Page Design

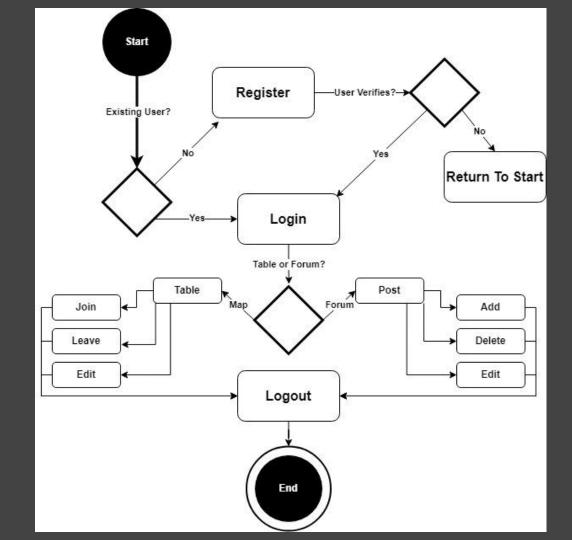
Use Case



Class Diagram



Activity Diagram



App demonstration

https://cop4331-group4-31270b548dd6.herokuapp.com/

Questions?

