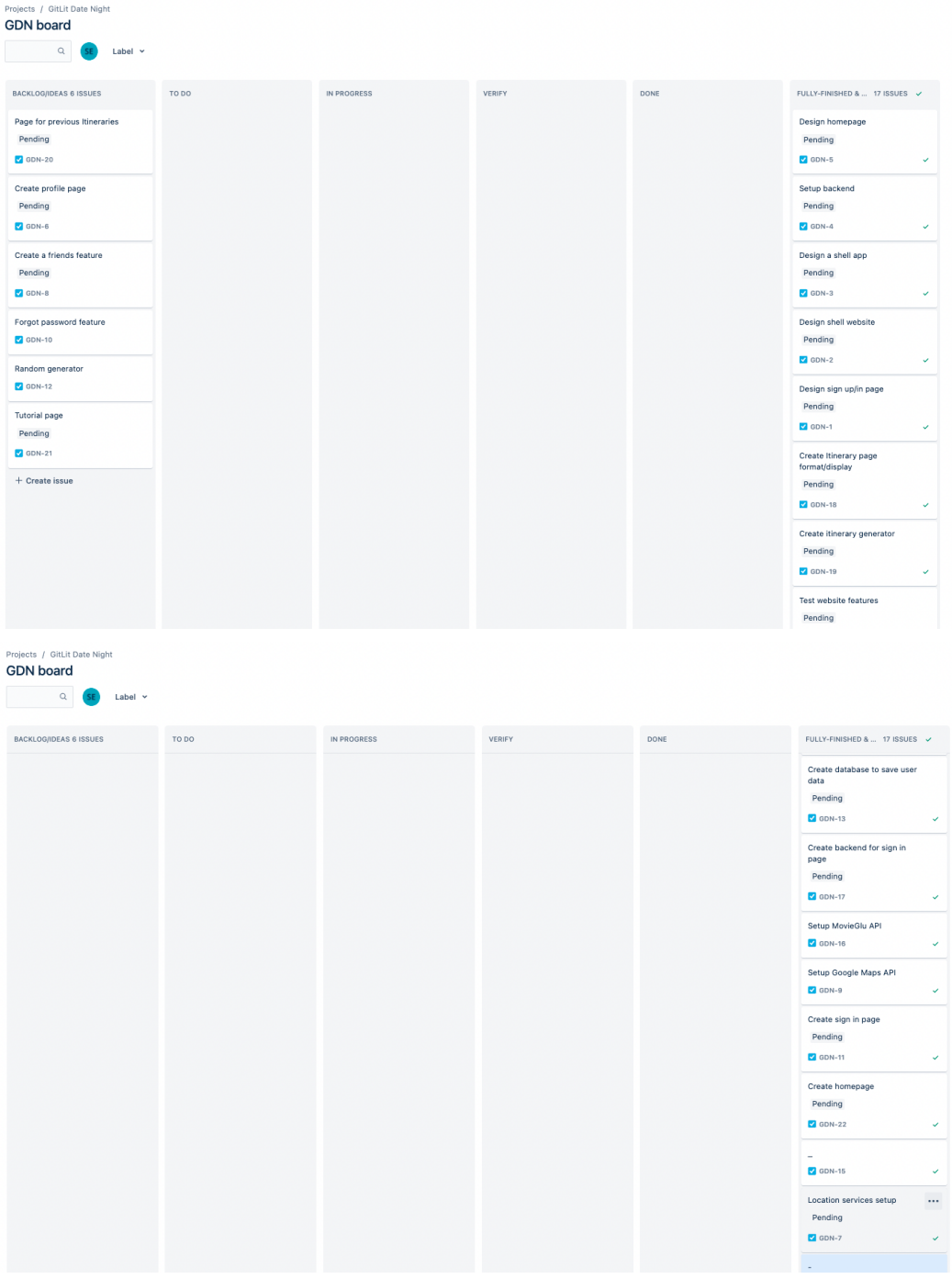
Project Milestone 7

Title
Your Night Out

Who
GitLit (022-3)
Adam Chehadi, Sophia Eisner, Raanee Smith, Samyak Ghimire, Evan Banks

Project Description
The purpose of the Your Night Out application is to generate an itinerary for a dinner and movie date. Once users sign up for the application, they will have the option to provide preferences for the types of restaurant they like, and what genre of movie they enjoy watching. Based on the user's location and preferences, our application will provide the user with a list of restaurants nearby, including a direct link to the restaurant's website, the restaurant's rating out of 5 stars, and how expensive the restaurant is.
Once the restaurant is selected, our application will then generate a list of movies playing at the nearest movie theater that fit into the genre preferences chosen by the user. After they choose the movie they would like to see, our application will utilize Google Maps to provide a full itinerary for the user, including the restaurant they'll be going to, and driving directions to the nearest movie theater and the film they will be seeing for their date night.

Screenshot of Project Tracker:
[Project Tracker Link]



VCS

Initial Github Repo (Used initially until we needed to integrate with heroku):
https://github.com/Raanee/3308SP21_section022_3

Heroku-Linked Github Repo (Used to integrate with Heroku when our class repo wasn't working):
https://github.com/soei7511/your-night-out/tree/main/Project_Code%20-4-10

Current Github Repo (Used after our class repo was fixed): Github Repo Link

Contributions:

- Adam Chehadi:
    - Worked on the front end for the navigation bar, movie selection, and itinerary page
    - Co-developed the design and user interface of the application
    - Implemented the web services for the movie theater and film selection (MovieGlu API)
    - Implemented the web services for driving directions between selected restaurant and nearest movie theater (Google Maps API)
    - Web Services
        - Production and Testing API credentials
        - Axios calls
        - NodeJS
        - JQuery

- Raanee Smith:
    - Created initial html files for sign up and login pages
    - Created get request for sign up and login page
    - Helped with database and PostgreSQL initialization and configuration
    - Created and edited home page
    - Finalized the design for login, food/movie preferences pages
    - Linked the homepage to the separate sign up and login pages
    - Edited Bootstrap classes from 3 to 4 for frontend of pages

- Sophia Eisner:
    - Created initial frontend design prototype using Figma
    - Updated html files to ejs files using node.js
    - Created initial locally hosted database using PostgreSQL
    - Deployed app to Heroku
    - Helped with frontend design tweaks

- Samyak Ghimire:
    - Built initial front-end shells for preference pages
    - Set up signup/login system that links to database
        - Adds cookie to browser that lets it know that someone is logged in
        - Password is hashed and then sent to database properly

        - Pages of website check for authorization (user must be logged in) before allowing/denying access
        - (^ Implemented Passport.js and bcrypt for the above ^)
        - Set up part of finalized frontend for login system (also added the errors that it creates)
    - Added movie preferences and food preferences to the database based on which user is logged in

- Evan Banks:
    - Built initial front-end for preferences pages, restaurant page, movie page and itinerary page.
        - Built forms for submitting data, as well as error checking on the back-end to ensure the proper form data was submitted.
        - (The preferences pages were later updated by Sophia and Raanee to use bootstrap carousel), and I assisted with integrating that and fixing bugs.
        - Implemented POST requests for the preferences pages, restaurant page, movie page, and itinerary page.
        - Used Bootstrap4 to build cards and wrote some JavaScript code for restaurants page and itinerary page to iterate through the returned data and display the restaurants with rating, price level, address, phone number, and website.
        - Wrote JQuery code to utilize bootstrap cards as radio buttons to improve visuals. (initially based on a StackOverflow answer, but then later completely rewritten by me as I delved into JQuery and learned how to use it)
        - Used FontAwesome to replace rating and price level with css styled stars and money signs for improved visuals.
    - Implemented API call to ipdata for the users ip or the ip forwarded via heroku.
    - Implemented axios call to an API that generated lat/long coordinates based on the users ip.
    - Implemented axios call to the Google Place Search API to return restaurants based on supplied user preferences and near the users location.
        - Traversed through form data to build the API call link with the selected user preferences.
    - Implemented axios calls to the Google Place Details API to return details about a selected restaurant to populate the restaurants page.
        - Parsed through the returned json object to send relevant data to the front-end.

Deployment
https://your-night-out.herokuapp.com/