NWEN Progress Presentation

Group Members: Serafina Slevin, Peter Walter, Billy Komene

Completed Tasks

Serafina

Validate user registration (password, email ect)

Mockups of app pages

Database Models (Schema)

Restructure codebase

Post+board controller/endpoints

Dynamic board pages

Peter

Setup test framework (Mocha with Chai) and test environment

Test cases in JSON array format

API documentation for server backend

Create and connect MongoDB Atlas database

Billy

Frontend:
homeView with posts, login and sign-up pages

Basic navigation bar and placeholder pages

Make board links clickable

Setup docker container(s)

API Endpoints

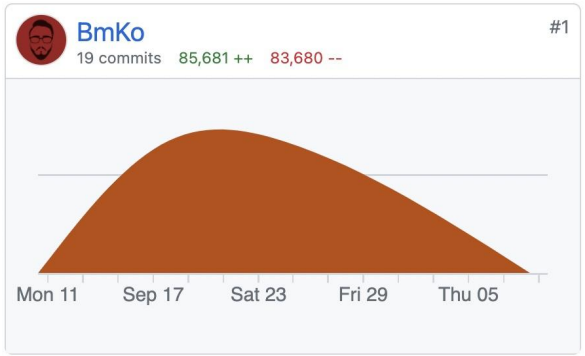
Maintained locally in YAML file (see in Demo)

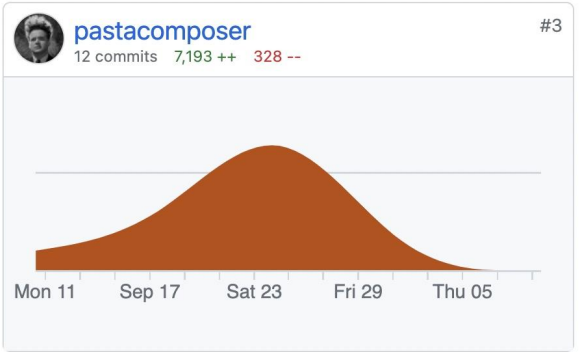
Demo

Control Flow Graph as at 10:00am 10/10/23

Workload Distribution

- Fairly even, with everyone working on a variety of sections between the different areas of the code. We have been quite flexible, using a kanban board to structure our work. Regarding our future workload distribution, we plan to continue in much the same way. We will assign and pick up tasks as needed.





Future Plans -> Core

Core (55%)

a) Implement basic user registration functionality. -> Done

b) Implement basic user login / logout functionality. -> next step

c) Use cloud based NoSQL database (such as MongoDB, Firebase Real-time database) -> Done

d) Allow viewing items without any authentication. -> Done

e) Support dynamic endpoints for various operations (get, put, delete) on the resources specific to your application. -> in progress

f) The web application that renders HTML pages should include some functionality implemented using client side JavaScript code -> in progress

g) Allow use of OAuth / OpenID Connect and online service -> next step

h) Host your server successfully on a cloud platform, so that your web application / web service can be easily accessed from anywhere in the Internet. -> next step

i) Structure your application using MVC architecture. -> Done

j) Use session and cookies / JWT as applicable for user authentication and authorization and allow only authenticated and authorized users to Create, Update or Delete items. -> in progress

Future Plans -> Completion

Completion (25%)

a) **Integrate Microservices**

Implement >=2 of your application services as microservices

To achieve this, we will decide what to make a microservice. We have discussed creating an add image microservice, perhaps utilizing imgur to store our images.

We could also implement a sorting microservice to sort posts by different conditions.

Another good microservice could be a search bar.

Build an API gateway

We are underway with this, and have defined in swagger all of our backend APIs.

b) measure performance

Peter taking ownership of this, using mocha.

We will include these metrics in the final presentation as per the description in the project instructions.

Future Plans -> Challenge

a) Implement a simple recommendation service

We have had some ideas about how we could implement this within our project, and will continue to discuss options as we come closer to implementing this. One idea we had was a post recommendation system that suggests posts from the same county or area as a user.

b) Implement email loop for password reset

We will look into this more as we progress on the login/logout section of the project.

c) Support a timeout function

This will be implemented through cache control.

Links

Github Repo: https://github.com/AntikytheraDigital/community-forum

Kanban Board: https://pastacomposer.atlassian.net/jira/software/projects/KAN/boards/1