Sri Lanka Institute of Information Technology

Programming Applications and Frameworks (IT3030)

Continuous Assignment – 2023, Semester 1

Progress Document *1*

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# Member 1 (IT20708276) – Post Management Service

1. What they planned to do for the two weeks.

* Creating the REST API including GET,POST,PUT and DELETE Mappings
* Drawing wireframes to get a brief idea on the representation of Post Management User Interface
* Create the User Interface for relevant function using React
* Figure out how to create a server application that can receive HTTP multipart file uploads
* How to connect Application to a cloud Storage
* Do weekly commits on submission to keep the group informed

1. How much they have completed of the planned work.

* Creating the REST API including GET, DELETE Mapping
* Create a brief wireframe on how the post component would be represented
* Weekly commits on initial Document and Progress Report 1

1. If they couldn't complete the planned amount of work, reasons for that.

* Since I was running into errors when working with the multipart files I couldn’t complete implementing all the react component regarding post management,
* Couldn’t manage to connect to a cloud storage because I had to research about the implementation
* Since the multipart file upload function is still on working progress couldn’t figure out the proper implementation to POST (used a String data type with NULL values in order to implement the GET and DELETE methods)

1. Any difficulties, challenges they faced, and solutions found for these.

* Struggle faced when connecting the REST API to REACT front end

Solution:

Managed connect using CORS(Cross Origin Resource Sharing) requests to connect the REST API and React frontend

* Struggles with having an idea about the workflow of the application

Solution:

We managed to resolve this by drawing the wireframe to figure out the connectivity among components

* Struggles with using one Git workflow.

Solution:

Decided upon using Github flow

1. What they plan to do for the two weeks.

* Work on the rest of the REST API methods
* Complete the REACT frontend to make it much more presentable and user-friendly
* Progressing on doing much frequent commits
* Finding ways on displaying the image/images on react front end

1. Anything else important related to their part of the assignment (design changes etc.)

* Currently implemented the user post array into a table in the front end , which is planned to be changed once I figure out the multipart file upload

1. Anything else as specified in the assignment document.

* Plans to connect all the components together

# Member 2 (IT21054686)-comment management Service (Interaction management Service)

1. What they planned to do for the two weeks.

* Creating the REST API including GET, POST, PUT and DELETE Mappings
* Drawing wireframes to get a brief idea on the representation of interaction management system
* Figuring out how to connect and maintain a Cloud database for the application
* Create the User Interface for relevant function using React and learn spring boot
* Figure out how to connect the Interaction component to get data from other services such as username from User Management Service and post Number from Post Management Service
* Practice Git Hub Flow by creating pull requests, deleting feature branches, etc.

1. How much they have completed of the planned work.

* Create wireframe on how the comment component would be represented
* Carried out commits on Git hub aligning them with GitHub Flow
* Built the REST API including all the HTTP Methods

1. If they couldn't complete the planned amount of work, reasons for that.

* I could not start frontend development as planned due to mid examination

1. Any difficulties, challenges they faced, and solutions found for these.

Difficulties with having an idea about the workflow of the application

Solution: We managed to resolve this by drawing the wireframe to figure out the connectivity among component

Difficulties with having implementation backend with correct data passing with http requests

Solution: tested with postman

Difficulties with having an idea about the user interaction with react

Solution: We managed to resolve this by following few formats and testing them

Difficulties in connecting with other services

Solution : Implementing HATEOAS

1. What they plan to do for the two weeks.

* Complete the REACT frontend to make it much more presentable and user-friendly
* I am planning to complete testing overall function

1. Anything else important related to their part of the assignment (design changes etc.)

* Make an effort to provide users with more user-friendly tools so they can comment on other postings in an interactive way.

1. Anything else as specified in the assignment document.

* Plans to integrate all the components as soon as finished the functions individually

# Member 3 (IT21 035 876) - User Management Service

1. What they planned to do for the two weeks.

* Creating the REST API including GET, POST, PUT and DELETE Mappings
* Drawing wireframes to get a brief idea on the representation of User Management User Interface
* Create the User Interface for relevant function using React.
* Add Oauth 2.0 authorization and social logins to the application login
* Figure out how to create a server application that can receive HTTP multipart file uploads.
* How to connect Application to a cloud Storage
* Do weekly commits on submission to keep the group informed.

1. How much they have completed of the planned work.

* Create a wireframe on how the user component would be represented.
* Completed the REST Api implementation by including all the HTTP methods
* Completed the frontend design without connecting database.

1. If they couldn't complete the planned amount of work, reasons for that.

* I couldn’t start to develop the backend implementations as planned due to mid-examinations week. And only completed the frontend implementation of my part.
* Couldn’t finish in implementing Oauth 2.0 into application because I ran into error

1. Any difficulties, challenges they faced, and solutions found for these.

* Difficulties with using one Git workflow.

Solution:

* + Decided upon using GitHub flow.
* Difficulties with having an idea about user interaction with the react.

Solution:

* Follow similar web sites and get idea about design

1. What they plan to do for the two weeks.

* Plan to complete the frontend design
* Connect to either a cloud or SQL database.
* Implement Oauth 2.0 , social login
* Complete the React Front to make it much more presentable and user-friendly.

1. Anything else important related to their part of the assignment (design changes etc.)

* Current design is not user-friendly. This will involve making changes to the front-end code.
* Updating the database schema accordingly.

1. Anything else as specified in the assignment document.

* Plans to connect all the components together.

# Member 4 (IT21 007 538) – Like/Dislike, Follow/ Unfollow Management Service (Interaction management Service)

1. What they planned to do for the two weeks.

* Creating the REST API including GET, POST, PUT and DELETE Mappings
* Drawing wireframes to get represent the Like/Dislike, Follow/Unfollow Management User Interface
* Create User Interfaces for the both services using React and study more about Spring Boot
* How to connect Application to a cloud Storage
* Do commits on github to align with the chosen flow

1. How much they have completed of the planned work.

* Creating wireframes on how the Like/Dislike, Follow/Unfollow components would be represented
* Developing API endpoints for handling user profile
* Completed the REST api using spring boot for like/dislike management
* Started working on frontend

1. If they couldn't complete the planned amount of work, reasons for that.

* I couldn’t complete the whole backend part because I got a lot of time on creating like/dislike backend by following tutorials
* Since the midterm examinations have started, I had to hold the creating of frontend

1. Any difficulties, challenges they faced, and solutions found for these

* Difficulties faced when working on backend development with HTTP requests
  + Solution: Tested requests with postman
* Difficulties using one Git workflow
  + Solution: Decided upon using GitHub flow and practiced on the Workflow method

1. What they plan to do for the two weeks.

* Complete the rest of frontend using React
* Develop the remained backend function

1. Anything else important related to their part of the assignment (design changes etc.)

* Try to make a better and more user friendly like/dislike interactions so users can show their feelings on the post in a more real way

1. Anything else as specified in the assignment document.

* Plan to integrate the services

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