Final Project 1.0

Web Application Development

Overview

This is part of the first week of the final project of a web application. The assignment for this week focuses on building the GUI for the homepage, which contains several functional requirements such as fetching data from API. Here follows the overview of the project:

Project Name: Ethereal

GitLab link: https://gitlab.engr.illinois.edu/asthana4/ethereal

Platform: Website

Frameworks: React

Tools/Interfaces: Google Chrome, (Internet Browsers)

Target Audience: Anyone who enjoys music

API: Last.fm API

Part I: Create Homepage: user information, music recommendation, and library

For this week, you would have to generate the basic layout for the home page of the web application. User's information should be shown on the page. And there should be other two components: one is "Recommendation", which contains weekly recommended tracks for this user according to his/her recently listened tracks; another is "Library", which includes user's loved tracks and recently picked artists.

Style / Theme

We suggest you to use an existing style template from an online. If you use a template, **do not** leave any filler content in the original template. Your site should have your own content only. This means that you must strip out any content that initially comes with the template, and adapt the template to your application.

Functional Requirements

The structure of the application is decided by you, but it should contain the following data and should be able to switch the contents smoothly (hint: by using Tab):

User Information:

- User's profile image view
- Last.fm username

Music Recommendation:

- Recently listened tracks of the user
- List of recommended (similar) tracks for each recently listened track

  (After each name of the recently listened track of the user, create a list of similar tracks for it as recommendations. For example, if the user has picked "Shape of My Heart" recently, there should be a list of songs which are similar with this song shown on the page.)

  - Clickable: able to navigate to the web page (Last.fm) of the recommended tracks

Music Library:

- Loved tracks

  Show name, image, artist of the loved tracks of the user on Last.fm

  - Clickable: able to navigate to the web page (Last.fm) of the loved tracks

- Top five recently picked artists

  Show name and image the top artists that the user has picked on Last.fm

  - Clickable: able to navigate to the web page (Last.fm) of the artist

Part II: Interacting with Last.fm API

You are required to interact with the Last.fm API. For this week, you are not storing the data in your application but you will just be fetching the data from the API.

Part III: Testing

You will create a manual test plan for this week. Write a test plan including screenshots and specific steps for a human tester to follow - what a tester should do and what he/she should observe.

Summary

Submission

This assignment is due at your discussion section for the week of **November 13th**, **2017.**

Objectives

- Create basic UI for the web application
- Interacting with a 3rd party API

Grading

Category	Weight	Scoring	Requirements
Basic Preparation	2	0-1	Ready to go at the start of section
Cleverness	2	0-2	The hardest points on the rubric
Code Submission	4	0-2	Submitted correct content on time and to the correct location in the repository
Decomposition	4	0-2	Project is adequately decomposed to different classes and methods
Documentation	4	0-2	Comments for each class and each function are clear and are following style guides
Effort	2	0-2	Perform considerable amount of work
Naming	2	0-2	Variable names and method names are readable and are following the naming conventions of the language you chose
Overall Design	5	0-2.5	Have nice approaches and structures in overall
Participation	5	0-2.5	Interact with the group 2 times (ask a question, make a comment, help answer a question, etc.)
Presentation	4	0-2	Present the code clearly
Requirements - Output	5	0-2.5	• 2 points: Basic UI's for all the views have been defined. All functional requirements mentioned about should be displayed • 2.5 points: Have a polished layout

Requirement - Theme	4	0-2	• 1.5 point: Use some styling to make the web page look clear and presentable • 2 points: Modify the styling or theme to make those fit different components of the page, and make the web page look nice and beautiful
Requirements - Last.fm API	5	0-2.5	• 2 points: Ability to interact with the API without repeated calls • 2.5 points: Parsed the data and was able to display the data in the application
Testing	2	0-2	• 0 points: No test plan • 1 points: Manual test plan • 2 points: Manual test plan and react tests
Total	**50**		