



College of Engineering, Construction & Living Sciences Bachelor of Information Technology ID608001: Intermediate Application Development Concepts Level 6, Credits 15

Assessment 2: React Application - The Movie DB

Assessment Overview

In this **individual** assessment, you will replicate a given application using **React**. The main purpose of this assessment is to demonstrate your ability to replicate an existing application using various taught frontend concepts. However, you will be required to independently research & implement more complex concepts. In addition, marks will be allocated for code elegance, documentation & **Git** usage.

Learning Outcome

At the successful completion of this course, learners will be able to:

- 1. Apply design patterns & programming principles using software development best practices.
- 2. Design & implement full-stack applications using industry relevant programming languages.

Assessments

Assessment	Weighting	Due Date	Learning Outcomes
Practical: Skills-Based	20%	27-10-2022 (Thur at 10.00 AM)	1
Assessment 1: Node.js RESTful API - Open Trivia DB	45%	17-10-2022 (Mon at 7.59 AM)	1 & 2
Assessment 2: React Application - The Movie DB	35%	09-11-2022 (Wed at 2.59 PM)	1 & 2

Conditions of Assessment

You will complete this assessment during your learner-managed time. However, there will be time during class to discuss the requirements & your progress on this assessment. This assessment will need to be completed by Wednesday, 09 November 2022 at 2.59 PM.

Pass Criteria

This assessment is criterion-referenced (CRA) with a cumulative pass mark of 50% over all assessments in ID608001: Intermediate Application Development Concepts.

Authenticity

All parts of your submitted assessment **must** be completely your work. If you use code snippets from **GitHub**, **StackOverflow** or other online resources, you **must** reference it appropriately using **APA 7th edition**. Provide your references in the **README.md** file in your repository. Failure to do this will result in a mark of **zero** for this assessment.

Policy on Submissions, Extensions, Resubmissions & Resits

The school's process concerning submissions, extensions, resubmissions & resits complies with Otago Polytechnic policies. Learners can view policies on the Otago Polytechnic website located at https://www.op.ac.nz/about-us/governance-and-management/policies.

Submission

You must submit all project files via GitHub Classroom. Here is the URL to the repository you will use for your submission – https://classroom.github.com/a/Ys5M8rKj. Create a .gitignore & add the ignored files in this resource - https://raw.githubusercontent.com/github/gitignore/main/Node.gitignore. The latest project files in the master or main branch will be used to mark against the Functionality criterion. Please test before you submit. Partial marks will not be given for incomplete functionality. Late submissions will incur a 10% penalty per day, rolling over at 3.00 PM.

Extensions

Familiarise yourself with the assessment due date. If you need an extension, contact the course lecturer before the due date. If you require more than a week's extension, a medical certificate or support letter from your manager may be needed.

Resubmissions

Learners may be requested to resubmit an assessment following a rework of part/s of the original assessment. Resubmissions are to be completed within a negotiable short time frame & usually **must** be completed within the timing of the course to which the assessment relates. Resubmissions will be available to learners who have made a genuine attempt at the first assessment opportunity & achieved a **D** grade (40-49%). The maximum grade awarded for resubmission will be C-.

Resits

Resits & reassessments are not applicable in ID608001: Intermediate Application Development Concepts.

Instructions

You will need to submit an application & documentation that meet the following requirements:

Functionality - Learning Outcomes 1, 2, 3 (50%)

- Header:
 - The Header component will render six icon components using the @material-ui/core@4.11.2 & @material-ui/icons@4.11.2 dependencies. The components are:

- * Home
- * FlashOn
- * LiveTv
- * PersonOutline
- * Search
- * VideoLibrary
- When the cursor hovers over an icon, it will display the following:
 - * Home icon Home
 - * FlashOn icon Trending
 - * LiveTv Verified
 - * PersonOutline Collections
 - * Search Search
 - * VideoLibrary Account

- Resources:

- * https://www.npmjs.com/package/@material-ui/core
- * https://www.npmjs.com/package/@material-ui/icons

• Navigation Bar:

- The Navbar component will render eight items fetched from the given file endpoint.js. The endpoint.js file is located in the given directory called utils. In the endpoint.js, refer to the type key.
- The eight items need to be centered.
- When the cursor hovers over an item, it will change it's colour and font size.

• Movie Card:

- You have been given the incomplete MovieCard component file. Using the given comments in the MovieCard component file, complete the following functionality:
 - * Under the **img** element, render the movie's overview using the **react-text-truncate@0.16.0** dependency.
 - * Under the **h2** element, render the movie's media type, release date or first air date & vote count in a **span** element.
- For styling, the MovieCard component uses the react-jss@10.5.0 dependency.

- Resources:

- * https://www.npmjs.com/package/react-text-truncate
- * https://www.npmjs.com/package/react-jss

• Dashboard:

- The Dashboard component will fetch a list of movies using the axios dependency from the given file endpoint.js. In the utils directory, you have been given a file called axios.js. This file creates a new instance of axios with the base URL https://api.themoviedb.org/3. In the endpoint.js, refer to the url key.
- For each movie in the list of movies, render the **MovieCard** component.

• App:

- The App component will render the **Header** component, **Navbar** component & **Dashboard** component.

Code Elegance - Learning Outcome 1 (35%)

- Environment variables' key is stored in the **env.example** file.
- Variables, functions & components are named appropriately.
- Idiomatic use of control flow, data structures & in-built functions.
- Sufficient modularity, i.e., UI split into independent reusable pieces.
- File header comment for each component file explaining its purpose using **JSDoc**.
- Code is linted & formatted using ESLint & Prettier.
- ESLint, Prettier & Commitizen are installed as development dependencies.

Documentation & Git/GitHub Usage - Learning Outcomes 2, 3 (15%)

- GitHub project board to help you organise & prioritise your work.
- Provide the following in your repository **README.md** file:
 - How do you setup the development environment, i.e., after the repository is cloned, what do you need to do before you run the React application?
 - How do you lint & fix your code?
 - How do you format your code?
- Use of Markdown, i.e., headings, bold text, code blocks, etc.
- Correct spelling & grammar.
- Your Git commit messages should:
 - Reflect the context of each functional requirement change.
 - Be formatted using an appropriate naming convention style using **Committee**.

Additional Information

- In this repository, you have been given a directory called **expected-outputs**. In this directory, you are given expected output screenshots for this assessment
- Do not rewrite your Git history. It is important that the course lecturer can see how you worked on your assessment over time.