

SINGAPORE POLYTECHNIC
SCHOOL OF COMPUTING

Specialist Diploma in Full Stack Web Development (NSFSW)

Module Code : **IT8906**

Module Name : **WEB AND MOBILE DEVELOPMENT USING FRAMEWORKS**

Acad Year/Semester : **2023/2024 Semester 2**

Set by : **Jeremiah Ang**

Assignment Title : **CA2 – React Routing & Redux**

Assignment Type : **Individual**

Weighting : **30%**

Deadline : **End Week 16**

Deliverables : **Application files (html, js, css, json etc)**

Mode of Submission : **Pushed to GitHub main branch**

WARNINGS:

Plagiarism means passing off as one's own the ideas, works, writings, etc., which belong to another person. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turning it in as your own, even if you would have the permission of that person. Plagiarism is a serious offence and disciplinary action will be taken against you. If you are guilty of plagiarism, you may fail all modules in the semester, or even be liable for expulsion.

50% of marks to be deducted for submission of assignment within ONE calendar day after the deadline. No marks shall be awarded for assignments submitted more than one day after the deadline.

CA2 – React Routing & Redux

Students will enhance their CA1 to Reinforce their understanding of React Core Concepts.

Assignment Objectives

1. Reinforce understanding of Core Concept
2. Use React Router for Navigation
3. Use Redux to maintain state of application

Assignment Instructions

- You are to work on this project individually.
- The website you build will be an Entity Management System where the admin will go in to manage the entities in their system
 - a. No login required.
- Your website should be converted into a single-page application with routing, and should contain the following features:
 - a. Update Entity
 - i. Admin can select entity from the list, and admin will be redirected to another page to enter the new information to update the entity.
 - ii. Returning to the list of entities should reflect the updated value
 - b. Pin Entity
 - i. Admin can select up to 5 of entity from the list to be pinned
 - ii. Admin can view pinned entity on a different page
- You are to use React Router for navigation
- You are to use Redux to maintain application states
- Connecting to the backend server/database is not required
- Persistent storage is not required, the website should always start with a fixed set of entity.

Marking Scheme

Basic Core Competency	20%
Synthesis of Concepts to implement advanced features	10%
Styling	10%
React Router <ul style="list-style-type: none"> - Create single page application (i.e., 1 index.html only) - Pass information between pages (e.g., Which item to update) 	10%
Redux <ul style="list-style-type: none"> - Maintain site-wide states 	10%
Conformance to required features	30%
Code quality <ul style="list-style-type: none"> - Well and neatly indented - Sensible variable and component names - Sensible filenames 	10%
Total	100%