SCIT

School of Computing and Information Technology
Faculty of Engineering & Information Sciences

SIM Session 4, 2022

Assignment 2 Outline

ISIT207 Frontend Web Programming

General Information

Subject Coordinator/Lecturer: Choy Kar Wai, Abel

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Assignment 2 has two parts:

Part A:
Practical application of Frontend Web Design using ReactJS technology for a Pet Search function.

Part B:
Write a Review Report and do a Screen Recording demonstration video for the above developed web application.

Submission Due Date on Moodle: 13 Nov 2022, 2359 hr. Percentage of final mark: 15%

Introduction

Frontend Web development technology is changing rapidly, and it is important, in the development of a Web-based application, to learn and use the most current technology.

In this assignment, you are to analyse the application requirements of a pet searching function and use ReactJS to develop a Component-based, API access web application.

The ReactJS application should perform the following:

- Use JSX of ReactJS to write a Pet search API function to display a list of Dogs from a remote database.

- You should write the component as "ShowDog" to send a request to a remote Dog API database and once the data is returned, display the pictures of the dogs

- Use appropriate CSS to improve on the presentation of the display list

API information of the remote Dog database URL: https://dog.ceo/dog-api/

For example, a variable declaration will be useful to get a Json object format:

```
const myDogPath = 'https://dog.ceo/api/breeds/image/random/50'
```

Objectives

On successful completion of this assignment, students should be able to:

i) Demonstrate a practical understanding and application of Frontend Web Programming using ReactJS to design, structure, edit, and access a remote database using APIs;

ii) Demonstrate a practical understanding of Component-based Web programming principles to plan, design, and code a JSX program to retrieve information, display it with CSS specification.

Assignment Requirements and Method of Assessment

Part A & B: Practical application of Web design and programming:

- Demonstration of understanding of the application requirements.
- Demonstration of the correct usage of ReactJS, JSX, HTML, CSS
- Correctness, clarity, usability, and design quality

Additional information will be discussed during class session for improvement beyond the basic requirements.

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Notes on Assessment

All assessment items are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assessment item. Students are strongly advised to carefully and thoroughly read the **Plagiarism** section below.

Students who copy lab work may receive zero for the lab assessment. This also covers work which may be the product of community effort by several students. Use of material that is not your own work must be acknowledged. Note: **Plagiarism will not be tolerated**.

Procedures for the submission of assessment items:

Students must refer to the Faculty Handbook and online references that contains a range of policies on educational issues and student matters.

Submission of assessment items via email will not be accepted.

Assessment Items are to be submitted electronically and in hardcopy format (if instructed)

Information regarding submission requirements will be in the Assessment Item Requirements.

Procedures for the return of assessment items:

All Assessment Items will be returned within 2 weeks of submission. In class assignments will be marked in class in the second week of the assignment by the tutors.

Penalties for late submission of assessment items:

Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark per day including weekends. Work more than four (4) days late will be awarded a mark of zero.

Plagiarism and cheating:

Plagiarism is the unacknowledged use of another person's work.

If you use ideas or material from a text, a website, a wiki, a blog or an article you must acknowledge.

If you do not, you will probably receive zero for the assignment in which you use it. Repeated plagiarism can lead to expulsion from the University.

If you copy another student's work, even if you have his or her permission, it is plagiarism and same rules apply.