COS30043 – Interface Design and Development

Learning Summary Report

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Self-Assessment Details

The following checklists provide an overview of my self-assessment for this unit.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Pass (P) | Credit (C) | Distinction (D) | High Distinction (HD) |
| Self-Assessment (please tick) |  |  |  | X |

*Self-assessment Statement*

|  |  |
| --- | --- |
|  | Included (please tick) |
| Learning Summary Report | X |
| Use of Bootstrap that demonstrate coverage of core concepts | X |
| Use of VueJS that demonstrate coverage of core concepts | X |

*Minimum Pass Checklist*

|  |  |
| --- | --- |
|  | Included (please tick) |
| Progress on Credit Tasks | X |
| All Pass Tasks signed off | X |

*Minimum Credit Checklist, in addition to Pass Checklist*

|  |  |
| --- | --- |
|  | Included (please tick) |
| Credit and Pass Tasks done, and Progress on Distinction Tasks. | X |
| Custom program meets Distinction criteria | X |
| Design report with screenshots for custom program | X |

*Minimum Distinction Checklist, in addition to Credit Checklist*

|  |  |
| --- | --- |
|  | Included (please tick) |
| Research report, and associated pieces | X |
| Custom project meets HD requirements | X |

*Minimum High Distinction Checklist, in addition to Distinction Checklist*

# Declaration

I declare that this portfolio is my individual work. I have not copied from any other student’s work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: Trac Duc Anh Luong

# Introduction

This report summarises what I learnt in COS30043 – Interface Design and Development. It includes a self-assessment against the criteria described in the unit outline, a justification of the pieces included, details of the coverage of the unit’s intended learning outcomes, and a reflection on my learning.

# Overview of Pieces Included

This section outlines the pieces that I have included in my portfolio

1. 1.1P: a web project that I have completed and submitted in COS10005 - Web Development
2. 1.2P: hello world app
3. 1.3P: form validation using Total Validator
4. 1.4P: table accessibility using Total Validator
5. 2.1P: setup Bootstrap and answer given questions
6. 2.2P: design a mock-up calculator app using Bootstrap
7. 2.3P: create Bootstrap template for a corporate website
8. 3.1P: string test app using VueJS
9. 3.2P: unit lookup app
10. 3.3C: BMI calculator app
11. 3.4C: cloud service registration app
12. 4.1P: number guessing game app
13. 5.1P: status posting app
14. 5.2P: menu list app
15. 5.3C: unit information app using vue-router
16. 6.1C: registration form using Vuetify
17. 6.2D: the my cocktail app is submitted in 6.3HD, fullfilling all requirements for D level
18. 6.3HD: my cocktail app, design document, wireframes, and screenshots
19. 7.1P: get data from public API
20. 7.2P: get data from text file
21. 8.1C: unit lookup app with pagination
22. 9.1C: CRUD single page application
23. 10.1P: single page application using vue-cli
24. 10.2P: tutorial for concepts in week 7 (API)
25. 11.1P: learning summary report

# Coverage of the Intended Learning Outcomes

This section outlines how the pieces I have included demonstrate the depth of my understanding in relation to each of the unit’s intended learning outcomes.

## ILO 1: Apply Design

Apply fundamental design concepts and standards to the development of user interfaces

The following pieces demonstrate my ability in relation to this ILO:

* 2.2P: Implementing the grid system in Bootstrap to create a mock-up calculator interface that remain compact in different screen sizes.
* 2.3P: Implementing the grid system in Bootstrap to create a web template for a corporate site with wireframes and placement of where each element is placed.
* 3.2P: Structuring the unit lookup app using the grid system and tables classes available in Bootstrap.
* 3.4C: Structuring the cloud service registration app using the grid system in Bootstrap
* 5.3C: Structuring the unit lookup app using the grid system and tables classes available in Bootstrap.
* 6.1C: Structuring the registration web app using Bootstrap’s grid system and Vuetify.
* 6.3HD: Structure the app using Bootstrap grid system, pages and components comply with the grid structure as well as the navigation on top.
* 7.2P: Format the Units table using Bootstrap’s grid structure and classes relating to table design.
* 8.1C: Apply pagination to the Unit lookup app using vue-paginate-next and Bootstrap.
* 9.1C: Structure a single page application with CRUD functionalities using Bootstrap.
* 10.2HD: I use Bootstrap to style and structure a simplify version of my High Distiction app.

## ILO 2: Use Frameworks

Use contemporary frameworks to create dynamic user interfaces.

The following pieces demonstrate my ability in relation to this ILO, all of which involving the VueJS framework:

* 3.1P: A simple app that use conditional directives to render custom messages to the web.
* 3.2P: Look up units in the given dataset using the sort and filter functions in Javascript based on the user’s inputs.
* 3.3P: Calculate the BMI based on used’s inputs of weight and height using conditional directives.
* 3.4P: Cloud service registration app that displays various types of inputs from the user.
* 4.1P: Number guessing game with different methods: generate random number, check user’s guess, give up, start over the game
* 5.1P: Using components to create a status posting app.
* 5.2P: Using props to construct a menu by passing value from parent component to child component.
* 5.3C: Implement router to the lookup unit app.
* 6.1C: Using Vuetify and the library’s rules to create a registration form app.
* 6.3D: Using vue-cli, vue-router, and axios to create a cocktail lookup single page application.
* 8.1C: Using vue-paginate-next to implement pagination to the unit look up app.
* 9.1C: Create a single page application with CRUD functionalities using various components and a backend.
* 10.1P: Build a single page application with custom views and router using vue-cli.
* 10.2HD: Tutorial on building a single page application that uses data from an external API.

## ILO 3: Develop User Interfaces

Design and develop user interfaces optimised for a range of devices and platforms.

The following pieces demonstrate my ability in relation to this ILO:

* 2.3P: A calculator app that is built with a compact view that remain compact with different screen sizes

## ILO 4: Evaluate User Interfaces

Evaluate user interfaces with respect to usability and accessibility using appropriate techniques, and propose improvements.

# Reflection

## The most important things I learnt:

[ Think about topics covered, but also other general things you may have learnt. Think about what you have learnt in this subject, and reflect on what you think were key learning points, or incidents. Did you learn what you wanted/expected to learn? ]

The most instrumental topics that I learned was involving

## The things that helped me most were:

[ List and explain ]

## I found the following topics particularly challenging:

[ List and explain – if none explain why ]

## I found the following topics particularly interesting:

[ List and explain – remove if none ]

## I feel I learnt these topics, concepts, and/or tools really well:

[ List and explain – if none explain why, refer to your pieces for evidence to support your claims ]

## I still need to work on the following areas:

[ List and explain – if none explain why, refer to your pieces ]

## My progress in this unit was …:

[comment on what happened on your progress, ]

## This unit will help me in the future:

[ How will the things you learnt relate to the rest of your studies, and career. What have you learnt that will be valuable for you in the future? ]

## If I did this unit again I would do the following things differently:

[ List and explain, how will you approach learning in the future? What things worked well, but what could you change to make sure you did better next time?]

## Other…:

[ Add any other reflections you think help you demonstrate your learning ]