

## Introduction

This report summarises what I learnt in FIT5032 {Internet applications 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 learning outcomes, and a reflection on my learning.

## Overview of Pieces Included

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

[Add a list of all of the **pieces that you are** including. Write a sentence to briefly describe each.]

1. Task 1.1 Run Visual Studio 2019 IDE.
2. Task 1.2 Know IDEs are used in Agile development industry, discuss core features of VS.
3. Task 2.1 Use text editor to write css example and use bootstrap example.
4. Task 2.2 Create database entity in ASP.NET MVC Web Application.
5. Task 3.1 Create new class model file and add class to container.
6. Task 3.2 Create git account and realise version control.
7. Task 4.1 Create model first development of ASP.NET MVC application.
8. Task 4.2 Create code first development of ASP.NET MVC application.
9. Task 5.1 Use notify.js on website design.
10. Task 5.2 Use datepicker on website design.
11. Task 6.1 Display name on view page when I create a new account.
12. Task 6.2 Know jQuery unobstructive validation work mechanism.
13. Task 7.1 Know different kinds of security problems and solutions.
14. Task 7.2 Set up MS identity to sign in with google account.(Google+API)
15. Task 8.1 Use SendGrid API to send email from web app.
16. Task 8.2 Analyze advantages and disadvantages of 3rd party emailing tool.
17. Task 9.1 Set responsive images on website.
18. Task 9.2 Know new features of ASP.NET core.
19. Task 10.1 Create Web API using .NET Core.
20. Task 10.2 Know how to work on AngularJS app.

## Coverage of the 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 learning outcomes.

[For each Learning Outcome, describe the work you have included in your portfolio that demonstrates your ability in relation to the required outcomes.]

LO 1: {Write css to decorate html content }

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

- Task 2.1 Use text editor to write css example and use bootstrap example.

LO 2: {Create database entity in ASP.NET MVC web application}

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

- Task 2.2 Create database entity in ASP.NET MVC Web Application.

LO 3: {Create model first and code first mvc web application}

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

- Task 4.1 Create model first development of ASP.NET MVC application.
- Task 4.2 Create code first development of ASP.NET MVC application.

#### LO 4: {Use git control to share app code and do version control }

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

- Task 3.2 Create git account and realise version control.

#### LO 5: {Use kinds of js file on web design}

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

- Task 5.1 Use notify.js on website design.
- Task 5.2 Use datepicker on website design.
- Task 6.2 Know jQuery unobstructive validation work mechanism.

#### LO 6: {Use kinds of API on web design}

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

- Task 7.2 Set up MS identity to sign in with google account.(Google+API)
- Task 8.1 Use SendGrid API to send email from web app.

## Reflection

Reflect on your learning and discuss these areas. Read the suggestions in [ ] for each question.  
Write your reflections then delete the text in the [ ] and delete this box

### The most important things I learnt:

This unit is called Internet applications development. The tutorials and lectures of this unit are teaching me to understand the structure of one MVC web application. And how to develop one MVC application use asp.net c# language. From the beginning, I learned how to set my application environment and create a new project. And then, I was taught how to create database entities on my project. I can know how to add relationships between each entity. I can make a model first or code first application. For me, the model first application is easier to realize. I know few things about c# and MVC application. Design web applications by code for each statement is challenging for me. So model first can help me to draw the entity diagram on the database. Then I can generate models, controllers and views from my model design. After creating a whole mv web application, I can make some changes to improve the user experience. Like, add some notify labels, using some external API to add more functions on my web application. For instance, in this unit, I learned to add email API to my project to send actual emails to target addresses. The most crucial learning outcome that I got from this unit is how to combine model, view, and controller to realize functions on my web application.

### The things that helped me most were:

I learned how MVC structures work with each other. When I enrol in this unit, I plan to learn some things related to my application design in my last semester. This unit taught me a lot about how to design a web application from nothing to whole.

### I found the following topics particularly challenging:

The code logic is the most challenging part for me. When I want to create a new class or function, I need to modify my model, view and controller on this project. I need to change all of them correctly; otherwise, my project can not work properly.

### I found the following topics particularly interesting:

I think the interesting thing is using kinds of API to do some functions on my project. It is very convenient to use an integrated API. I only need to apply one API key and connect API into my project. Then I can do some interesting functions. This is a strong function.

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

Actually, I do not have the confidence to say I learnt some topics or tools well. I am a beginner to use c# and vs studio. I am trying to learn better than I am now.

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

I still need to learn how to code logic work, the code meaning, and how code works generated by vs code automatically. Sometimes I feel I only create a database diagram. The vs code help me to write all function code automatically.

### My progress in this unit was ...:

I finished and submitted my progress on time every two weeks.

 eFolio tasks for feedback (Week 1 and Week 2)	<input checked="" type="checkbox"/>
 eFolio tasks for feedback (Week 3 and Week 4)	<input checked="" type="checkbox"/>
 eFolio tasks for feedback (Week 5 and Week 6)	<input checked="" type="checkbox"/>
 eFolio tasks for feedback (Week 7 and Week 8)	<input checked="" type="checkbox"/>
 eFolio tasks for feedback (Week 9 and Week 10)	<input checked="" type="checkbox"/>
 eFolio tasks (Week 11, LearningSummary, Portfolio Design and Research)	<input type="checkbox"/>

*figure 1: Efolio screenshot*

### This unit will help me in the future:

As I said before, this unit will help me a lot when I do my final design and report in my last semester. I understood how to add API to my project. I understood how view, model and controllers work together to realise multiple functions. It is a good learning outcome.

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

I will not waste time, and I will do my assessment project as quick as possible. So that tutor can help to modify my design. I can do a better task than now.

### Other...:

I finished and realised studio tasks each week. And I follow the requirement to do my final project. However, some functions are not good enough. I appreciate my tutor, and he gave me many ideas and useful recommendations to do my project better.

## Declaration

I declare that this learning summary, eFolio tasks and the linked code are my individual work except group submission. 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 and code, nor has any part of this submission been written for me by another person.

Signature: PEIYU LIU