

# FIT5042 Learning Summary

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## Self-Assessment Details

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

	Pass	Credit	Distinction	High Distinction
Self-Assessment (please tick)			X	

*Self-assessment Statement*

	Included (please tick)
Learning Summary Report	X
Progress on Pass Tasks	X
ASP.NET C# applications that demonstrate coverage of core concepts	X

*Minimum Pass Checklist*

	Included (please tick)
Progress on Credit Tasks	X
All Pass Tasks signed off in Doubtfire	X
Assignment Application meets Credit Requirements (or more)	X

*Minimum Credit Checklist, in addition to Pass Checklist*

	Included (please tick)
Credit and Pass Tasks done, and Progress on Distinction Tasks.	
Assignment Application meets Distinction Requirements	X
Design report meets Distinction Requirements	

*Minimum Distinction Checklist, in addition to Credit Checklist*

	Included (please tick)
Research report meets High Distinction Requirements	

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

## Declaration

I declare that this learning summary and the linked portfolio of work 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:



## Introduction

This report summarises what I learnt in FIT5042 Enterprise Application Development for the Web. 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. I haven't done all the pass and credit tasks because some of their topics are covered in Assignments, which can also show that I learned the topics.

### Weekly Exercises

#### Task 1.1 Task 1.1 Java Helloworld program

I become familiar with the Netbeans IDE and running a console program, as well as uploading a screenshot of a running program to Doubtfire.

#### Task 1.2 Week 1 Exercise

I become more familiar with the Netbeans IDE and review foundation java concepts.

#### Task 2 Week 2 Exercise Deploying a Java EE Application

I become familiar with the JEE project structure and packaging process and to understand how application clients, web clients and server side functionality is structured and packaged.

#### Task 3 Week 3 Exercise GUI and Event Handling

I become familiar with Java GUI programming.

#### Task 4 Week 4 Exercise Persistence API Database Connectivity

I become familiar with the basic operation of the Java Persistence API.

#### Task 5 Week 5 Exercise Introduction to Java Server Faces

I learned some basic concepts in building JSF applications such as learning how to integrate Managed Beans into our applications.

#### Task 6 Week 6 Exercise Developing Web Interfaces

I learned some more advanced concepts in building JSF applications such as JavaServer Faces and Expression Language and developing a web application that consists of multiple pages with their own individual "controller" managed bean.

#### Task 7 Week 7 Exercise Advanced Application of Java Persistence

I become familiar with the advanced features of the Java Persistence API.

#### Task 8.1 Week 8 Exercise Java Enterprise Beans

I become familiar with the basic operation of the Enterprise Java Beans.

### Task 9 Week 9 Exercise Advanced Java Enterprise Beans

I become familiar with the advanced functionality of the Enterprise Java Beans (EJB), including stateful session beans.

### Task 10 Week 10 Exercise Web Services

I learned the basic features of creating a RESTful Web Service in JEE and also how they can be integrated into a Java Server Faces web application.

### Assignment and Design Report

In the Assignment, I learned about Java EE application development. I become familiar with Java GUI programming, operation of the Java Persistence API, building JSF applications, operation of the Enterprise Java Beans, creating a RESTful Web Service in JEE and also how they can be integrated into a Java Server Faces web application.

## 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.

LO 1: understand various issues pertaining to enterprise software architecture on the web;

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

Task 5 Week 5 Exercise Introduction to Java Server Faces

Task 6 Week 6 Exercise Developing Web Interfaces

LO 2: acquire techniques to develop enterprise applications using the Java programming language;

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

Task 1.1 Task 1.1 Java Helloworld program

Task 1.2 Week 1 Exercise

Task 2 Week 2 Exercise Deploying a Java EE Application

Task 3 Week 3 Exercise GUI and Event Handling

Task 4 Week 4 Exercise Persistence API Database Connectivity

LO 3: discover various advanced Java technologies used to build web applications for the enterprise;

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

Task 5 Week 5 Exercise Introduction to Java Server Faces

Task 6 Week 6 Exercise Developing Web Interfaces

Task 7 Week 7 Exercise Advanced Application of Java Persistence

Task 8.1 Week 8 Exercise Java Enterprise Beans

Task 9 Week 9 Exercise Advanced Java Enterprise Beans

Task 10 Week 10 Exercise Web Services

LO 4: learn to competently use the advanced Java libraries to build a medium-size web application for the enterprise.

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

Task 5 Week 5 Exercise Introduction to Java Server Faces

Task 6 Week 6 Exercise Developing Web Interfaces

Task 7 Week 7 Exercise Advanced Application of Java Persistence

Task 8.1 Week 8 Exercise Java Enterprise Beans

Task 9 Week 9 Exercise Advanced Java Enterprise Beans

Task 10 Week 10 Exercise Web Services

Assignment & Design Report

## Reflection

### The most important things I learnt:

The most important things I learned in this subject is to build a proper Java EE application. A proper Java EE application should be well designed in both structure and appearance.

### The things that helped me most were:

The following items helped a lot when I learned subject:

#### Lecturer and Tutor

The Lecturer and Tutor helped me by explaining stuff clearly and specifically.

#### IDE / NetBeans8.0.2

I have no choice but this IDE is easy to use and powerful.

#### Moodle Topics

Topics on moodle are very good. They explain things and give examples.

### I found the following topics particularly challenging:

The following topics are challenging:

#### Task 7 Week 7 Exercise Advanced Application of Java Persistence

This topic is challenging because it contains a lot of details and it's so easy to forget or be confused with some details (like parameters).

#### Task 10 Week 10 Exercise Web Services

This topic is easy to do the work because most of the code are generated by the IDE. However, it's very hard to understand the concept at first.

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

The following topics I did well:

#### Task 3 Week 3 Exercise GUI and Event Handling

This part is easy and related to previous programming experiences.

#### Task 8.1 Week 8 Exercise Java Enterprise Beans

I leaned this part well and can use all the tools.

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

The following topics I still need to work:

#### Task 6 Week 6 Exercise Developing Web Interfaces

This part needs more work to achieve the goal. Besides, it is quite different form what we learned in previous courses.

My progress in this unit was:

## Enterprise application development for the web FIT5042

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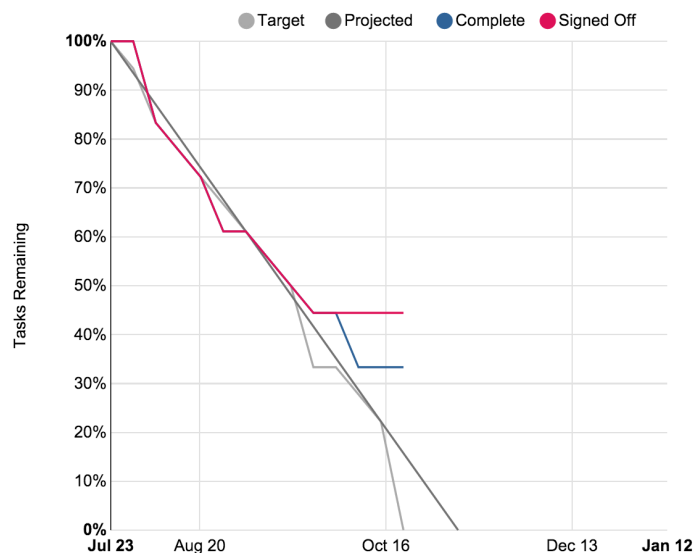
Progress

Feedback

Labs

My Portfolio

### Burndown Chart



### Target Grade

High Distinction

### Task List

C1	T1.1	T1.2
T2	T3	T4
T5	T6	T7
T8.1	T8.2	T8.3
T9	T10	LS
T11.1	T11.2	T11.3

This unit will help me in the future:

I learned a lot about the Java EE application development. Java EE is one of the dominant technology in enterprise application development. This subject will help me in the job hunting in the future.

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

I think I will do more of the every-week tasks. I struggled when learning in several parts are explained in the tasks' specifications.