

Singapore Polytechnic
School of Digital Media and Infocomm Technology
Diploma in Information Technology
ST0257 Web Applications Development
Individual Assignment – CA1
Semester 1 2018/2019

WEBA Assignment is **not** about **whether you can code**. It is all about how responsible you are. If you place my interest (to help as many learners as possible) *before* your interest, you will usually have a chance to work with good responsible adults in Final Year Project and **obtain wisdom which I cannot/no ability to give**. **Communicate with me** often so that I have the chance to transmit experience on handling situations in FYP. Never let FYP customers **suffer** just because you place your own interest before others. Or else next time, you **have no right to** criticize others because you yourself **never do it**.

Instructions and Guidelines

1. To be submitted to ESP site by **27th June 2018 (Wed) 11:59PM**.
2. All programs must be coded in C# and JavaScript by using Visual Studio.NET.
3. Student is required to submit the *softcopy* of the assignment (ZIP) to ESP Assignment Submission Link. Provide the Class, Admission Numbers and Names. The ZIP file must be named with a naming convention **WEBA_CA1_<YOUR NAME>_<ADMISSION ID>_<CLASS>.zip**. For example, **WEBA_CA1_AHTAN_0888222_2A08.ZIP**.
4. The interview will be conducted during the practical sessions. Your lecturer will have to arrange the interview with you beyond the practical sessions (e.g. after 6PM) if he/she is not able to complete the interview. Students who are absent from the interview will be awarded **zero mark** for the assignment.
6. 50% of the marks will be deducted for assignments that are received within ONE (1) calendar day after the submission deadline. No marks will be given thereafter.
7. Exceptions to this policy will be given to students with valid LOA on medical or compassionate grounds. Students in such cases will need to inform the lecturer as soon as reasonably possible.
8. No marks will be awarded if the work is copied or you have allowed others to copy your work.

Warning: **Plagiarism** means passing off one's own idea, 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 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.

The CA1 assignment requires you to:

- ① Provide Session Synopsis management functionality
- ② Provide Customer Account management functionality
- ③ Provide Account Rate management functionality

CA1 assignment specification details

Refer to the another file (39 pages) assignment specifications for details about the requirements (Page 4).

The objective of the assignment in CA1 is to get learners code and face bugs until "it feels like every-day usual problem". CA1 is like a practical exercise that you use it to solve problems for days and weeks. CA1 does not let you start working on delivering something which is usable by the stakeholders or users.

And as long as you are consistent, you will develop good foundation as a trouble shooter, and begin have the extra bandwidth to think about usability.

Past Final year projects

- i) Medical reminder system (Mobile and Web). This NUH Children Kidney Center initiated project has a web administrative module which allows nurses to manage post kidney transplant patient medicine data and track patient medicine intake.
<https://youtu.be/89fm5z8umKE?list=PLiGFQzkKgFM6qoZe4mKfgGfOhi7M90upR>
- ii) Year 2016 current final year project (Mobile and Web), Happy Wheel (YouTube: <https://youtu.be/hokv2BN5yRQ>) and Event Management System using Chat Bot system and Microsoft Oxford APIs (Mobile and Web) https://youtu.be/eU5_BltEHXg. Entire playlist: <https://youtu.be/LH5mNzR1THM?list=PLiGFQzkKgFM46GbjiqP9NsXq3ENsRU6pP>
- iii) Safe to Sleep (Internet of Things, Mobile and Web solution) <https://youtu.be/W3JUUGFZkMU>

WHAT IS TO BE SUBMITTED?

Zip the web project folder and submit a single ZIP file to the ESP Assignment Submission link which will be available. The naming convention of the zip file should be **WEBA_<Your Name>_<AdmissionId>_2A##.ZIP**.

Means of Assessment

Feature(s)	Marks Allocated
Session Synopsis Management To score full: Usability (think how the users use the system) and strong validation logic at the client-side and server side.	20
Customer Account Management Usability (think how the users use the system) and strong validation logic at the client-side and server side	40
Account Rate Management Usability (think how the users use the system) and strong validation logic at the client-side and server side	30
Identify and code one missing functionality that can be overlooked. In the first two weeks of the Final Year Project, definitely the entire team (no matter how careful) will definitely overlooked an important feature. It can only be discovered when you do your assignment early.	10
Program Score	100

This assignment contributes **35%** to the final grade. You will be graded according to your ability to work independently, site design, program design, functionality, and user-friendliness and the ability to be creative in solving problems.

The Assignment is not perfect – Many Assumptions were made

There are many assumptions made for the Timesheet Management System, so that the assignment scope is scaled properly while meeting the WEBA learning outcome.

End