

# **Week 2:**

# **Continuously deliver your application**

## **Guide to CI/CD**

# Review of week 1



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## **Task1: PROBLEM REPORT**

***Pass Task ; Due date: 11:59pm (Melbourne Time) Friday Week2 (23<sup>rd</sup> of July)***

### **Task description**

In this unit, you will work on your project from the first week. The aim of the assessment tasks in this unit is to help you develop artefacts that demonstrate your learning in the form of a project of your interest - learning by doing!

The aim is that by repeating this process across different software engineering units, you would develop strong expertise with a demonstrable portfolio of good projects that you are proud of. These units (and projects) help you to develop strong momentum for your capstone, internships, and theses units in your course. Of course the aim is to help you get ready to secure a job in your area of interest or ultimately start your own business kicking off one of the ideas that you worked on in one or more of the units in your course.

In this task, we focus on what we call the problem domain. In this phase, we spend our time and effort trying to understand the problem at hand that we want to solve. The better you develop an understanding of the problem, the simpler and effective your solution would be. In any project you work on, you need to deeply understand the problem at hand, and ask a lot of what, why, how questions to make sure you understand the true problem! This also requires you talking to some real stakeholders (if you have access to) and conducting market research or literature review of the published efforts in the area.

In this task, you are expected to write a report of 500-750 words of the problem you want to solve in this unit by developing a technical solution to solve it. Your report should aim to answer the following questions. Make sure you avoid fluffy text that takes too many words and does not add value to the reader.

**Project title:** this is your project title

**Research theme:** the faculty SEBE has 8 research themes. Your project should aim to solve a problem in one of these 8 themes. To do so, you will need to read the research themes, find one of interest to you, investigate open problems and ideas in this area of interest to you.

**Problem description (Max 100 words):** provide a clear description of the problem you want to solve. *Try to be very clear and make sure that a layman can understand.*

**Importance (100 words):** why is this problem worth solving? *make sure that you reflect on your interest, community interest, and impact that solving this problem will have on the world and how big is the problem (how many people affected by it and how big is the market)*

**How is the problem currently being solved? Top solution in the area (at least 3 solutions):** include at least 50 words on each product to make sure that we are clear about the solution and its limitations

Make sure you spend enough time thinking about the problem because you will spend 5-12 weeks working on a solution. Maybe start thinking what could be your solution and if you believe or want to work hard to build it.

It is highly recommended that you start setting up your environment and complete the practical tasks on your own project. For example, if you decide to develop an Uber app, then get your GitHub repo ready, get the template packaged using docker, etc. Make sure you do the same every week. Reflect the practical tasks on your project so that by the time you are expected to submit your MVP, you are done and ready.

### **Submission details**

Once you completed your problem report, convert it to a pdf file and submit it to OnTrack website of the unit.