MSA Assessment Introduction

This is an individual assessment where you will be ranked against your peers. The MSA team has set a minimum standard that we require all students to *pass but we will be* expecting to see work well above and beyond the minimum specifications (as per industry standards). You project will need to be drastically different from our example project.

Basic Requirements

- Create a new React + TypeScript web app
- Create an API to perform all CRUD operations (Create, Read, Update, Delete)
- Users should be able to enter in information appropriate to the REST API you have created, and your app should be able to display the returned results using that REST API.
- Host your web app and API's on Azure (Preferably using Azure Pipeline).
- Utilise source control via GitHub.
- Complete the Agile Software Development module

Advanced Requirements

We will fail students that do not tangibly attempt the following. Please complete as many as you can, feel free to work on your own advanced features. It will be at the discretion of your marker to determine if this feature meets the minimum requirement, you will also be expected to thoroughly explain your advanced feature during the interview.

Complete at least FIVE of:

- Comprehensive testing done on frontend and/or backend. e.g. NUnit, Selenium and Jest
- Consideration or features designed to assist with accessibility across site. E.g. Alternative text for images, Voice input, Supports translation of the web page.
- Creation and usage of custom branding that is integrated into product. E.g. Custom Logo's and theming
- Authentication (Camera integration, Social, Voice recognition)
- Social media Integration – Commenting, Liking, Sharing content
- Web Crawler
- Relational Databases with relationships between tables
- Responsive UI (Web + Mobile)
- Signal R

Submission Format

You will be required to complete two specific submission tasks

1) Upload your source code to GitHub and submit using the link below. Due on 8AM 18/09/2020

2) Present to the MSA team in-person at the assessment centre on 19/09/2020

Note: Due to fluctuating COVID alert level, there's a possibility that this will be moved online. If this occurs, we will let students know via email and the Facebook Group ahead of time.

a. Presentations are 15-minute slots

b. 7 minutes of presentation. You should do a structured presentation using the given slide deck or design your own.

c. 7 minutes of Q&A from MSA team, we will be assessing your technical ability in depth.

d. Holistically, we will be assessing your intricate understanding of your solution, it's application in the real world and your presentation / soft skills.

Academic Integrity

The MSA Programme strictly enforces academic integrity and students that do not uphold academic integrity will not be allowed to proceed within the programme. Any work you submit should be your work and differentiated from others if you have collaborated or troubleshooted with other parties. This includes any sample solutions and tutorials we provide. Please clarify with us at xiaobin.lin@studentambassadors.com if you have questions.

MSA Certificate

If you pass phase 2, you will be able to request a certificate from the MSA Team verifying your completion of the MSA Program.

Work Placement information

Work placement opportunities are available in the Auckland region across our partners. We ask employers to pay a minimum compensation of $2,000. Many employers will pay full wages. If there are more students who have passed phase 2 than the number of placements, priorities will be given to students who have shown in-depth knowledge and dedication through the submission and the presentation.

Deadline: 8AM 18th September 2020

Submission Form: https://tinyurl.com/y5zdh47g

Book interview here: https://tinyurl.com/y6rmp9da

Have a question?

Ask on the Discord Server or Facebook group