

JavaScript Master Class

Background

It became evident that there was a need to provide cadettes with a good overview of the JavaScript language and some of the most common use cases for it. There is an exceptional demand for JavaScript programmers at the moment and the employers of a number of the cadettes have asked if some JavaScript training can be provided for them. An indepth study of the JavaScript language is provided later in the 42 program but it has been proposed that a masterclass be run for the cadettes requiring some training in the short-term.

Objectives

- To provide an overview of the JavaScript language as well as undertaking an exploration of some of its most common use cases.
- To get some feedback from the cadettes attending in order to determine in what other specific areas there is much demand.
- Look at what further training might be necessary in order for the cadettes to be knowledgeable and productive in these areas.

Course Outline

It is proposed that the following areas be covered:

1. JavaScript fundamentals, as well as some basic knowledge of HTML and CSS.
Project: Develop a web-based calculator.
2. jQuery fundamentals.
Project: Redevelop that web-based calculator using jQuery.
3. TypeScript fundamentals.
Project: Redevelop that web-based calculator using TypeScript.
4. Node.js fundamentals.
Project: Utilise Node.js as a web server to enable the web-based calculators to be accessed via HTTP. Utilise an Iframe and AJAX in order to display timed advertisements under the calculator
5. Advanced Topic – Progressive Web App (PWA) fundamentals.
Project: Set up the calculator web application as a PWA and install it on an iPhone or Android Phone. It would have its own app icon and look and run like a native app.

Delivery Format

The Master Class will be run by Bill Malkin who has twenty years of JavaScript experience. It will be a mix of class, one-on-one and project work, depending upon the attendees' needs and circumstances.

Initially there will be one, four-hour class at 42Adelaide, as well as session times allocated where Bill will be at 42Adelaide and students will be able to see or call him about their projects. (doodle.com will be used to determine the most suitable times.)

Students can work alone or in pairs as they wish.

Assessment

Each student will be asked questions about the project to ensure they have understood the concepts. There will be no pass/fail grading.

Duration

The master class will run for one week per module (the dates for the later modules are still be determined) although this can be extended if any students need additional time.

Who should attend

Attendees will primarily be cadettes requiring additional JavaScript skills for their employment. Others can also attend but will be considered on a case-by-case basis.