**DPP Portfolio and Projects Guidelines**

**BEFORE STARTING A PROJECT, PLEASE COMPLETE A PROJECT BRIEF TO ONE OF THE TRAINERS FOR REVIEW. This is very important, as it helps make sure that your project is the right level.**

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|  | **Front-end** | **Comments** | **Back-end**  **(C#/ASP.NET or Java)** | **Comments** |
| **Portfolio** | A stylish and modern looking portfolio website designed using the Bootstrap template. Must be available online after completion. | If designing from scratch, you must consult with Manuel (trainer) via email: [manuelc@justit.co.uk](mailto:manuelc@justit.co.uk) | Portfolio website that is visually appealing. We recommend using a template and Bootstrap. It must be deployed on the web. |  |
| **1st project** | A simple interactive program coded with JavaScript (use of jQuery is also acceptable).  For the visual display of the program it is highly desirable to design from scratch with HTML5, CSS3 and media queries for responsive design but Bootstrap classes and grid layout are also acceptable.  To enhance the visual display, you could include graphs (<http://canvasjs.com>) and background images with <http://pixabay.com>. | SAME COMMENTS AS FOR BACK-END.  It would be nice to build a project not seen before.  As a front-end developer, you must consider:  Attention to detail when designing the user interface (colour scheme, fonts, images, well design layout, etc.).  Strong emphasis on User Experience (is the program easy to use, easy to navigate, user input validation messages, etc.). | Simple application that responds to user input. It should not have a database. It should include some pictures or a graph (or have another aspect that is visually appealing).  If possible, it must be deployed on the web (Java applications can be demonstrated with videos or a sequence of screenshots). | Quizzes or calculators or simple games are good options here. Some of the things that previous learners have done include:  Chemistry quiz  History quiz  Planets quiz  Mortgage calculator  Student Loan repayment calculator  Restaurant bill splitter  Fish tank calculator  Hangman game  Chart.js is a useful JavaScript charts plugin. |
| **2nd project** | A professional looking website, which could be a fictional website but the preference is for a real project for a charity, a friend with a small business, or a private client.  **MUST BE DESIGN FROM SCRATCH – HAND CODED** **AND** **RESPONSIVE** (HTML5, CSS3, JavaScript and Media Queries).  No use of bootstrap templates, classes or any other similar frameworks. But external libraries and resources such as Font Awesome and Google Fonts are allowed. | Classroom training (full-time), Pluralsight tutorials (blended) and VLE course material is your guide for the project.  Design an informative website, no need for e-commerce or databases except if is a requirement from a client.  Another approach would be to revamp an old website to a more modern stylish look.  For examples of the previous projects, go to the VLE Inspiration section. | A single-table database application with CRUD (Create, Read, Update, Delete) functionality. It should be visually appealing – pictures are a good option (and can easily be implemented using URLs).  User authentication is NOT recommended – if it goes wrong a potential employer will be unable to see any of your work. | The MVC Movies online tutorial is a good guide to the functionality required for B/E projects. However, your project should have a different look and feel to the tutorial and include some additional functionality. Examples of previous projects include:  Cricketers DB  Football DB  Tea DB  Classic Books DB  Diving Log DB  Bakery products inventory |
| **3rd project** | Design an interactive visually appealing application capable of getting data from an API.  This project is a step forward technically and involves JSON, AJAX and API’s, besides your core front-end skills.  It’s highly desirable to make the application mobile friendly with media queries, and also the basics of user interface and user experience principles.  There are all kinds of API’s, so challenge yourself to design an API project not seen before, or add extra features and functionality to stand out. | The Pluralsight tutorial “Hands-on JavaScript Project: JSON” by Paul Cheney, is a step by step full project an introduction to JSON, AJAX and API’s.  Alternatively, you may attend a sequence of open labs starting with JSON, then AJAX and finally API’s (see VLE calendar for dates, time and book a seat). For a practical approach and real project examples of API’s, within the classroom environment.  The open weather API is the most common example of previous projects, for more see our VLE inspiration section. | There are two main options here:  1. A multi-table database application with CRUD (Create, Read, Update, Delete) functionality.  2. An e-commerce application (though there is no need to process payments).  It should be visually appealing – pictures are a good option (and can easily be implemented using URLs).  This project should be a significant step forward technically from your second project.  User authentication is NOT recommended – if it goes wrong a potential employer will be unable to see any of your work. | The Contoso University online tutorial or the e-commerce tutorial in the MVC book by Adam Freeman are good guides to what is required here. However, your project should have a different look and feel to the tutorial and include some additional functionality.  Examples of previous third projects include:  Online bookshop  Online gaming store  Library DB |