

Individual Report

Your individual report on the group project is worth **10%** of your mark for this course. It must consist of four parts:

1. Choose a snippet of code that you wrote and feel proud of. Explain how the code works and how it contributed to the success of the project. [Maximum: 250 words, not counting code]
2. Consider the scenario below, based on a fictitious restaurant system.

The system contains 3 database tables, **client**, **order_status** and **order**. The fields in each table are listed below:

- **client**: name, date of birth, address, phone number, email address, and amount spent in the restaurant since registering the details;
- **order_status**: ID, name, and description;
- **order**: order ID, table number, time placed, time of last change, notes, and order_status ID.

The user stories for the system are as follows:

- **Story 1**: A client should be able to register with the application, providing a name, date of birth, address, phone number, and email address.
- **Story 2**: A manager user should be able to see the total spent by all clients since they registered their details, for each of a set of age ranges.
- **Story 3**: A waiter user should be able to see all orders, each showing the order ID, table number, time placed, time of last change, notes, and the corresponding order_status name.

Copy the table shown below into your report (it should be possible to copy & paste). Using the Function Point Analysis (FPA) materials from this course, update the table with all the **EIs**, **EOs**, **EQs**, **ILFs** and **EIFs** in the system. Note that there may be 0, 1 or more of each.

Using the [FPA reference sheet](#), update the table by classifying each EI, EO, EQ, ILF, EIF as **low (L)**, **average (A)**, or **high (H)** complexity and assign a **Function Point value** to each. Include any calculations/workings out you used to determine this information, below the table.

Finally, estimate the total **Unadjusted FP Count (UFC)** and add it to your table.

		Complexity (L/A/H)	Function Point value
EI	Name of EI (if any)		
	(add row for each additional EI)		
EO	Name of EO (if any)		
	(add row for each additional EO)		
EQ	Name of EQ (if any)		
	(add row for each additional EQ)		
ILF	Name of ILF (if any)		
	(add row for each additional ILF)		
EIF	Name of EIF (if any)		
	(add row for each additional EIF)		

UFC =

3. Describe what you have learned about developing software as part of a group using Scrum. Justify your points using specific examples from your experiences in your team. Also relate your explanations to relevant professional issues discussed in the course, including the codes of practice/conduct. [Maximum: 250 words]
4. Select **one** topic from: Architectural Models, Refactoring, Robust Code, and Software Security. Describe the relevance of your chosen topic to the design and code produced in your team project. Justify your points using specific examples from your project. [Maximum: 250 words]