**Week03 – Development Process**

Complete the following elements concerning the development of the case study.

These should be integrated into the development cycle which is for the database.

**Requirements Definition**

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| **Element** | **Tool(s) Used** | **Purpose** | **Outputs** |
| Read the case study and understand how to deaggregate the system into ENTITIES. | Word processor | PROJECT MANAGER: This is the role of the project manager (YOU) – to understand and interpret the requirements from the information you have being given. | List of the ENTITIES – especially the central one’s making up the system.  A list next to the ENTITIES of the likely ATTRIBUTES |

**Analysis**

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|  | **Tool(s) Used** | **Purpose** | **Output** |
| Devise the ERD (Entity Relationship Diagram) – use appropriate logic to construct the ERD. | io.draw  or MS Visio | ANALYST: Mostly you are constructing this – so you can understand the database design. | A linked diagram showing the ENTITIES and a likely RELATIONSHIP (with cardinalities: 1 to 1; 1 to Many; Many to Many) |
| **Data Dictionary** – construct the tables and load all the attributes along with the relevant characteristics (***data type, size, null/not null, typical data, description of field)***. | MS Excel | ANALYST: Mostly you are constructing this – so you can understand the database design and quickly implement these. | A complete specification showing the main characteristics of the database |

**Development**

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| **Element** | **Tool Used** | **Purpose** | **Output** |
| Table Build – using tradition DDL SQL (***create table commands***). Relate the tables using the “Designer” tool within MySQL. | MySQL (Xampp) | DEVELOPER: You are transferring the design to an actual database. | The actual system on MySQL with relationships window showing the appropriate links |