**Week03 – JIRA Management Task – QUESTION PAPER**

Complete the following elements concerning the development of the case study called : **FastBurgersNow**

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

**Information:**

* Typical sprint is 4-6 weeks in duration – out of sheer convenience we will suggest a 6 week sprint.
* Give equal timings for each of the epics (just from a convenience point of view).
* Create as many stages as needed (your decision) – to correspond to the stages shown below.
* Normally the **group members** are as follows: Product Owner, Scrum master, 3 – 4 Developers ( Suggest we have 3 developers)
* For the outputs – devise at least 3 tasks for each of the epics within the sprint.
* You will need to complete the development cycle on the word document below – a good indicator would be the homework tasks that I assign each week.
* The epics – could be interpreted as being the “Elements” in the first column shown below.
* Create your own sprint – using the scrum template and assign me as one of its members – that means send me an invite to my college email address: john.piperias@edinburghcollege.ac.uk.
* Invent any other details needed to complete a full cycle – for the development of a complete database (backend) system.
* Use my example on Jira as the model which shows the overall structure for the sprint (Using SCRUM template) as the basis for the design.
* Distribute the various issues (tasks) equally into the various columns: To Do, Progress and Done.

SUBMISSION:

Take a screenshot of the Timeline that shows all the Timeline and the Board – this doesn’t need to show all the tasks. Paste this inside this document in the section below.

Your Name:

Date:

Course:

Student Number:

**STAGE: Requirements Definition**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Tool(s) Used** | **Purpose** | **Timings** | **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. |  |  |

**STAGE: Analysis**

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|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Devise the ERD (Entity Relationship Diagram) – use appropriate logic to construct the ERD. | io.draw | ANALYST: Mostly you are constructing this – so you can understand the database design. |  |  |
| **Data Dictionary** – construct the tables and load all the attributes along with the relevant characteristics (***data type, size, null/not null*** etc). | MS Excel | ANALYST: Mostly you are constructing this – so you can understand the database design and quickly implement these. |  |  |

**STAGE: Construct**

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| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Building the database on MySQL according to DD | phpMyAdmin | Follow the DD in the previous stage to construct the database with correct relations and attributes |  |  |
|  | MS Excel |  |  |  |

**STAGE: Data entering**

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| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Uploading data into the database | phpMyAdmin | Entering data into the database so that each table would have around 20 records |  |  |
|  | e.g ChatGPT |  |  |  |

**STAGE: Testing**

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| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Testing that the database absorbs new data and queries return right results | MySQL | Ensure that we can enter more data into the tables, AND we can get the data we want from the tables |  |  |
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**STAGE: Running SQL Queries**

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| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Performing queries as needed | MySQL | Time for performing actual work needed from the database system |  |  |
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**JIRA EVIDENCE (Screenshots)**