**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:KF

Date:2/4/25

Course: CodeSpace - Software Development CR2CODEZ24-S1XA

Student Number: ec2073883

**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. | 1 week | Documented system entities and relationships |

**STAGE: Analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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. | 1 week | Completed ERD |
| **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. | 1 week | Data dictionary for implementation |

**STAGE: Database Implementation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Database Implementation – creating database | MySQL | Developer: Mostly you are constructing this | 1 Week | |  |  |  | | --- | --- | --- | |  |  | Implemented database | |
|  |  |  |  |  |

**STAGE: Development of the queries**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Creating the queries for retrieving, inserting, deleting and updating data | MySQL | Developer: Mostly you are constructing this | 1 Week | Documented queries ready for integration with API |
| testing the databased using data sample | MySQL | Developer: Mostly you are constructing this | 1 Week | Fully working database |

**STAGE: API Development**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| API Development | IDE | Developer: Mostly you are constructing this - Develop backend services for data handling and manipulation | 1 Week | Functional API |
|  |  |  |  |  |

**STAGE: Testing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Tool(s) Used** | **Purpose** | **Timings** | **Output** |
| Testing | Browser and Cypress | Developer: Mostly you are constructing this - Ensure API and database interactions work properly. |  | Verified API and database functionality |
|  |  |  |  |  |

**JIRA EVIDENCE (Screenshots)**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**