

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: Thomas Neos

Date: 07/10/2024

Course: Relational Databases

Student Number: ec2305397

Jira Project (Scrum Template): FastBurgersNow

Sprint Duration: 2 weeks

Scrum Master: John Piperias

Software Developer: Thomas Neos

Software Tester: Thomas Neos

STAGE 1: 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.	Start Date 30/09/24 End Date 06/10/24	

STAGE 2: 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.	Start Date 06/10/24 End Date 13/10/24	
Data Dictionary – construct the tables and load all the attributes along with the relevant characteristics	MS Excel	ANALYST: Mostly you are constructing this – so you can understand the database design and quickly		

<i>(data type, size, null/not null etc).</i>		implement these.		
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STAGE 3: Design

	Tool(s) Used	Purpose	Timings	Output
Finalise ERD based on feedback within the team	draw.io	Finalise data design. Focus on data integrity and performance	Start Date 14/10/2024 End Date 20/10/2024	
Create detailed data dictionary with appropriate data types	Excel			
Add test data in data dictionary	Excel			

STAGE 4: Development

	Tool(s) Used	Purpose	Timings	Output
Develop front-end of the application based on well-defined wireframes	HTML, Bootstrap, JavaScript	Create structure of the application and apply tools for every file	Start Date 21/10/2024 End Date 27/10/2024	
Develop back-end interaction with the server	PHP, MySQL			

STAGE 5: Testing

	Tool(s) Used	Purpose	Timings	Output
Generate test data			Start Date 28/10/2024 End Date 3/11/2024	
Perform all types of testing	Cypress	Identify bugs and errors during the		

and validate data		development phase, ensuring higher software quality		
Apply automated testing and continuous integration				

STAGE 6: Deployment

	Tool(s) Used	Purpose	Timings	Output
Preparation for deployment. Testing the procedure before the software goes live	Clever Cloud Database	Developed software becomes available to its intended users	Start Date 4/11/2024 End Date 10/11/2024	
Execution of deployment. Configure software and connect to remote database				

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☐ ▾ Backlog (8 issues)

000Create sprint

FBN-14	Add test data in data dictionary	FBN-STAGE ...	IN PROGRESS...	-	
FBN-15	Generate test data	FBN-STAGE ...	TO DO ▾	-	
FBN-16	Perform all types of testing and validate data	FBN-STAGE ...	TO DO ▾	-	
FBN-17	Apply automated testing and continuous integration	FBN-STAGE ...	TO DO ▾	-	
FBN-18	Develop front-end of the application based on well-defined ...	FBN-STAGE ...	IN PROGRESS ▾	-	
FBN-19	Develop back-end interaction with the server	FBN-STAGE ...	TO DO ▾	-	
FBN-20	Preparation for deployment. Testing the procedure before t...	FBN-STAGE ...	TO DO ▾	-	
FBN-21	Execution of deployment. Configure software and connect t...	FBN-STAGE ...	TO DO ▾	-	

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	SEP	OCT
Sprints		
<input type="checkbox"/> > + FBN-2 FBN-Stage 1 Requirements Definition	<div></div>	
<input type="checkbox"/> > + FBN-5 FBN-Stage 2 Analysis	<div></div>	<div></div>
<input type="checkbox"/> > + FBN-8 FBN-Stage 3 Design		<div></div>
<input type="checkbox"/> > + FBN-9 FBN-Stage 4 Development		<div></div>
<input type="checkbox"/> > + FBN-10 FBN-Stage 5 Testing		<div></div>
<input type="checkbox"/> > + FBN-11 FBN-Stage 6 Deployment		<div></div>

+ Create Epic

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Today

Weeks

Months

Quarters

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