IT6037 Data Access and Management Project

Planning Document

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[COMPANY NAME] [Company address]

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Client Requirements

You are a part of a working group that develops digital resources for school students. Your team has been asked to develop a database and later implement it as a source of information to develop a mobile or web application.
The database is to contain reference materials for students on three subjects: art, mathematics and technology. Each subject can have articles with biographies of the key people as well as articles on the major art objects, events and important concepts.

A sample data file is provided with this document (SampleData.xls).

The database can be accessed by administrators, tutors and students with various access levels.

The client would like the database to have the following functionality:

- Students should be able to:
  - Browse articles by category
  - Browse articles by a keyword in the title
- Tutors should be able to:
  - Add or modify articles
- Administrators should be able to:
  - Add, modify or remove articles

As a team, we have decided to use the Agile approach and develop in iterations with the client's approval at the end of each iteration. After a discussion with the client, the following iterations have been agreed upon:

Solution Design Decision

For the database we have decided as a group to use MongoDB.

For the backend of the application, we have decided to use Strappi.IO

For the single page front end of the application, we decided to use React.

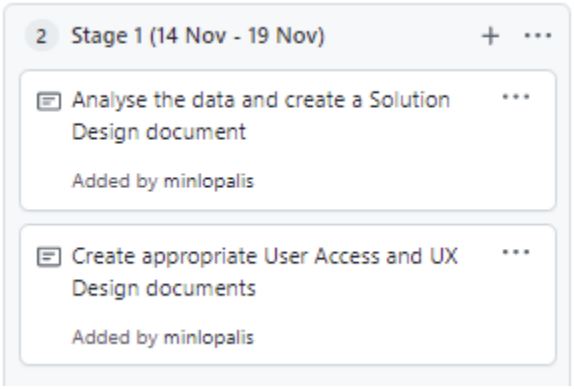
Iteration 1: Developing System Design document

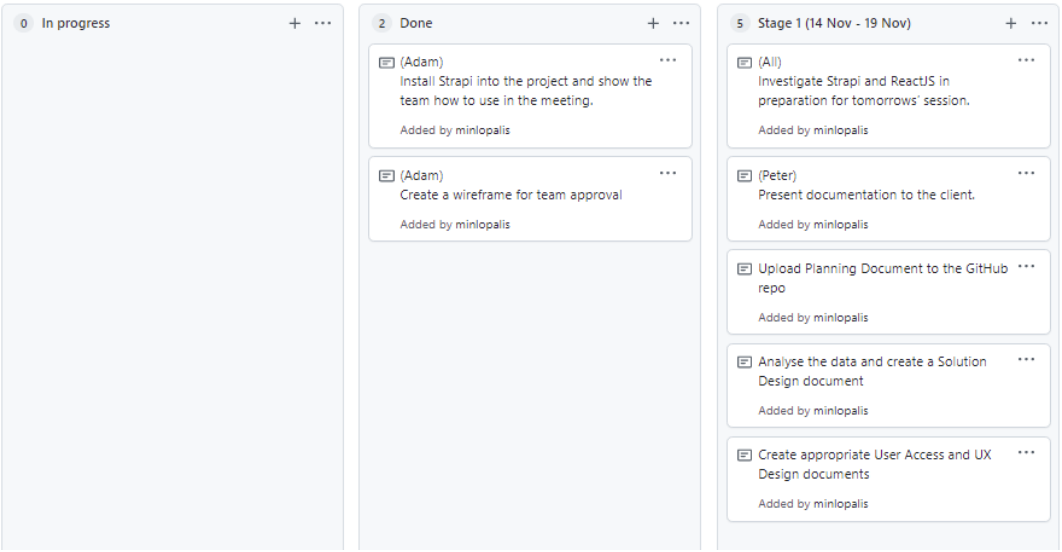
14 November – 19 November 2021

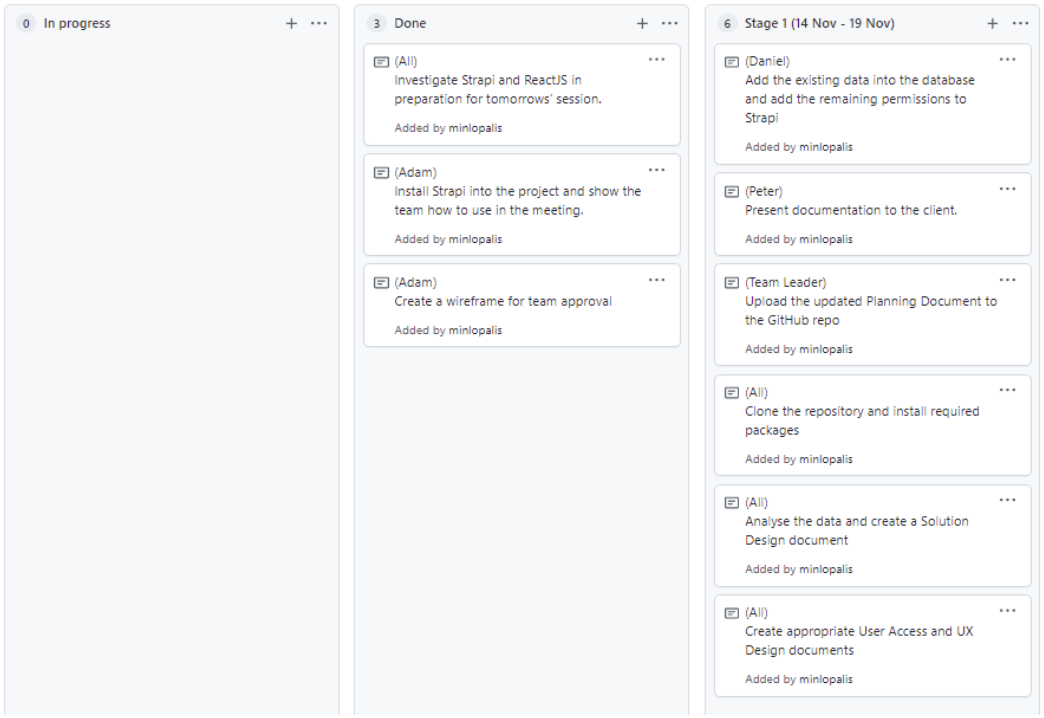
Analyse the data and create a Solution Design document outlining the architecture and database model. Also create appropriate User Access and UX Design documents to implement the database using a web application. For each part of the Solution Design document, provide reasons as to why you selected a particular technology or design.

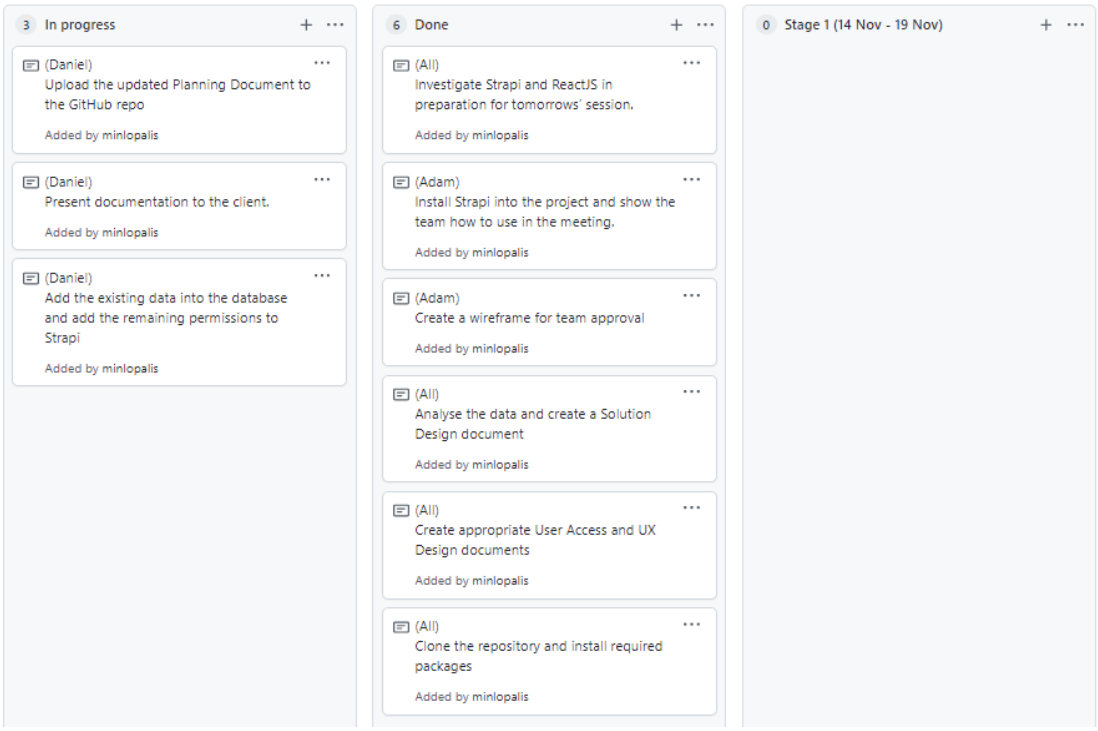
Task:	Expected Completed Date:	Completed By:	Actual Completed Date:
Analyse the data and create a Solution Design document	17/11/2021	Team	19/11/2021
Create appropriate User Access and UX Design documents	19/11/2021	Team	19/11/2021

Screenshot of the Kanban board for iteration 1

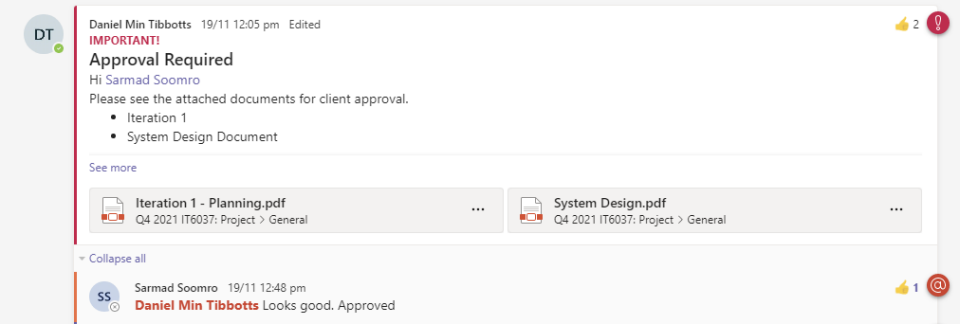








Client Acceptance of Iteration 1 - System Design Document


DT
Daniel Min Tibbotts 19/11 12:05 pm Edited
IMPORTANT!
Approval Required
Hi Sarmad Soomro
Please see the attached documents for client approval.
Iteration 1
System Design Document
See more
Iteration 1 - Planning.pdf
Q4 2021 IT6037: Project > General
System Design.pdf
Q4 2021 IT6037: Project > General
Collapse all
SS
Sarmad Soomro 19/11 12:48 pm
Daniel Min Tibbotts Looks good. Approved

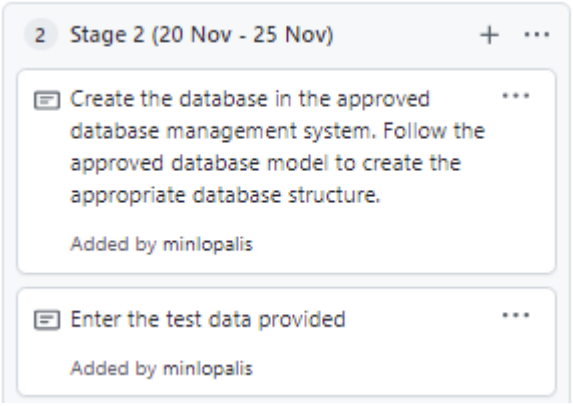
Iteration 2: Developing the Database

20 November – 25 November 2021

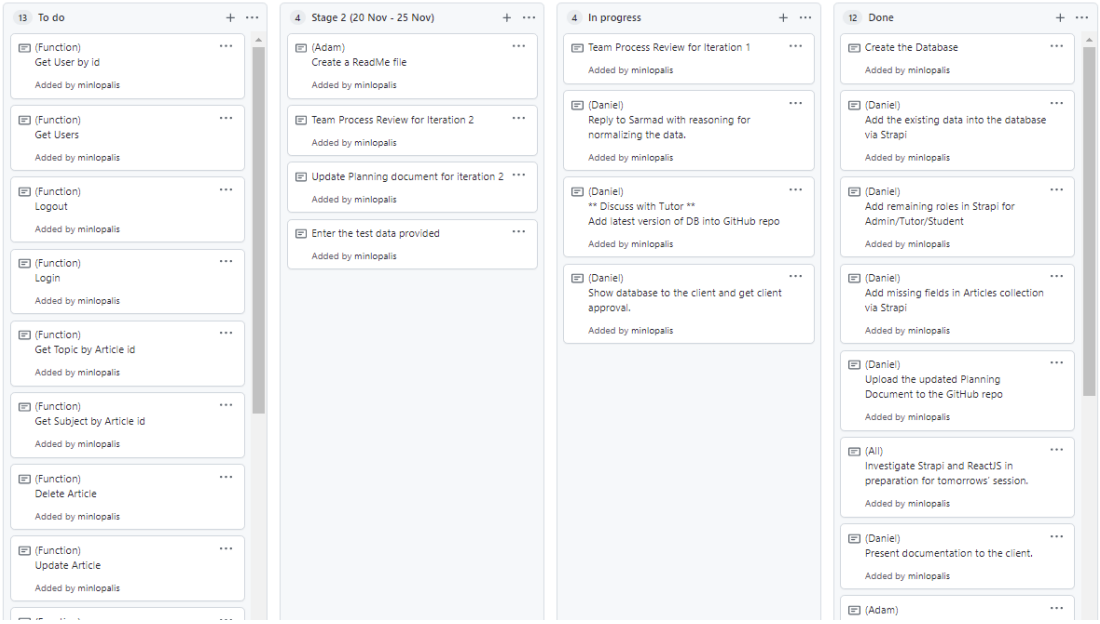
Create the database in the approved database management system. Follow the approved database model to create the appropriate database structure. Enter the test data provided.

Task:	Expected Completed Date:	Completed By:	Actual Completed Date:
Create the database	23/11/2021	Adam Spice	17/11/2021
Enter the test data provided	22/11/2021	Daniel Tibbotts	22/11/2021
Setup the GitHub repository	22/11/2021	Daniel Tibbotts	14/11/2021
Create the ReadMe file	22/11/2021	Peter Stanger	14/11/2021
Show database to client and get approval	24/11/2021	Daniel Tibbotts	23/11/2021

Screenshots of the Kanban board changes for iteration 2

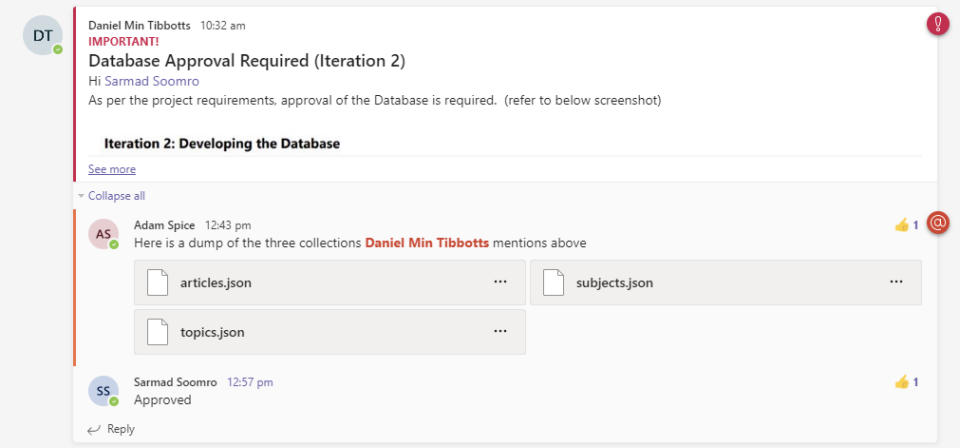


21/11/2021 - Kanban Board



22/11/2021 - Kanban Board

Client Acceptance of Database

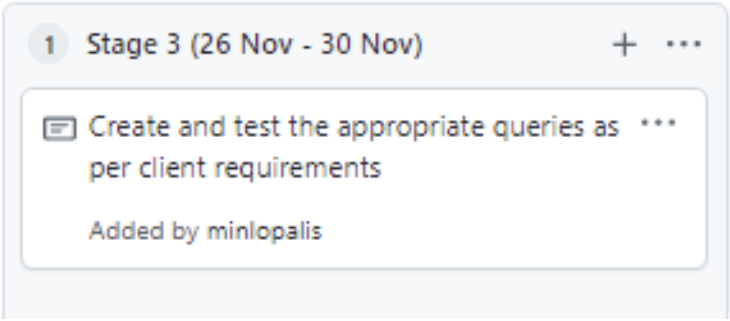


Iteration 3: Developing Database Queries

26 November – 30 November 2021

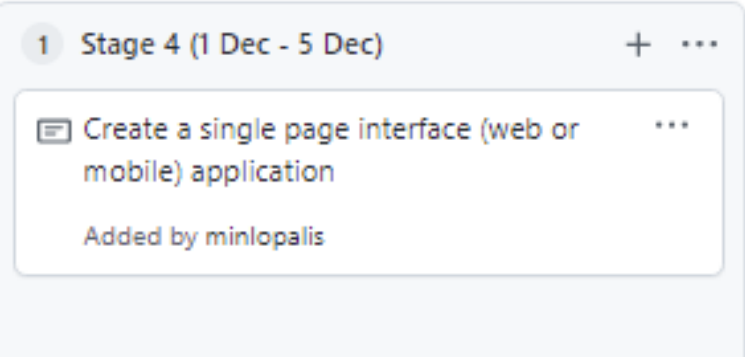
Create and test the appropriate queries as per client requirements.

Task:	**Expected Completed Date:**	**Completed By:**	**Actual Completed Date:**
Create and test the appropriate queries as per client requirements	28/11/2021		



Iteration 4: Implementing Database using Web Application

1 December – 5 December 2021

Create a single page interface (web or mobile) application to implement and test the client requirement for the database queries.

Task:	**Expected Completed Date:**	**Completed By:**	**Actual Completed Date:**
Create a single page interface (web or mobile) application	02/12/2021