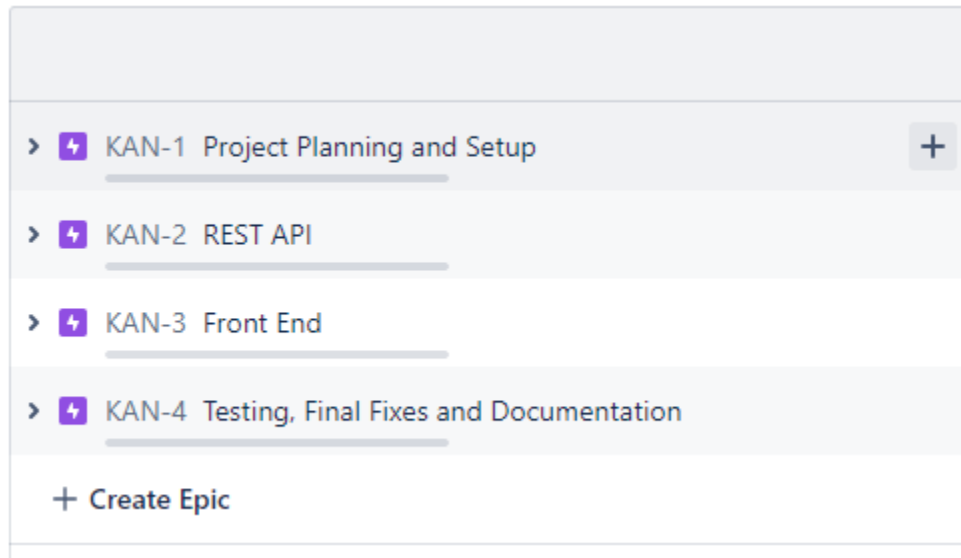


Reflection Report

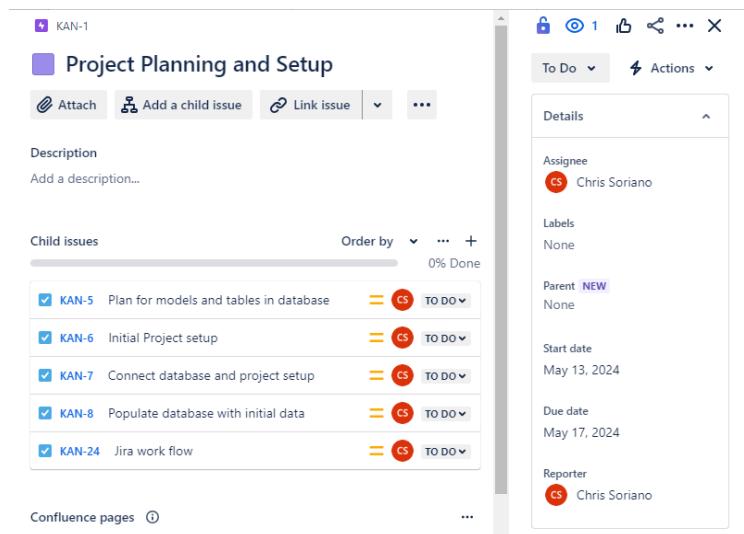
Making this Exam Project was a challenging but fulfilling one. It requires good attention to detail and understanding of SQL intricacies.

Since we have 1 month to complete the project, I decided to divide it into 4 sprints. Each sprint consist of 1 Epic issue with several child issues under it.

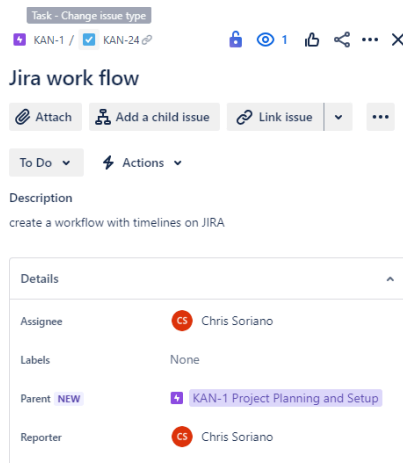
Below is a screenshot of the Epic issues:



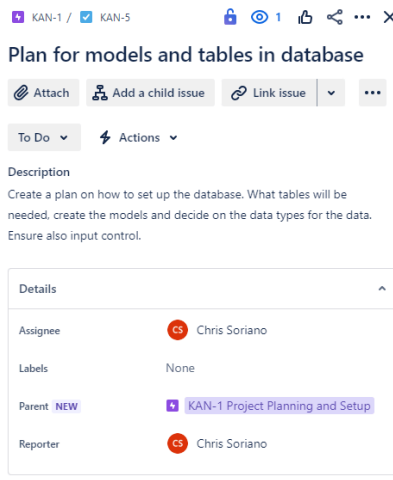
My first Epic is Project Planning and Setup and it was from May 13, 2024 to May 17, 2024. It consists of 5 issues that was important in establishing a database. Below is a screenshot of the issues under the first Epic.



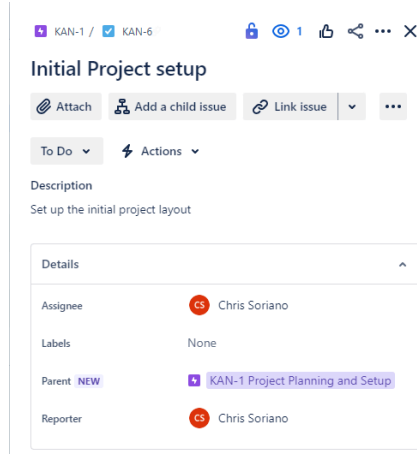
The first issue was under the first Epic was to plan the work flow through Jira.



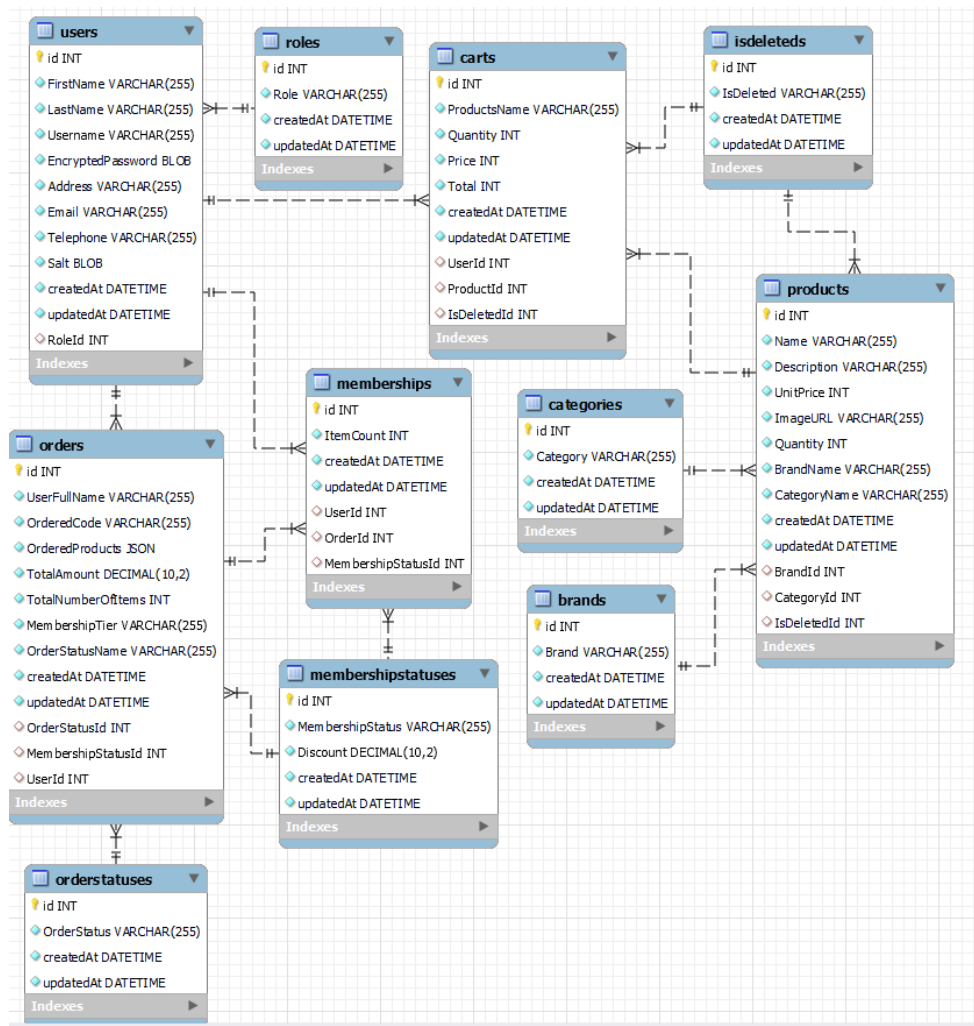
The second issue under the first Epic was Planning for models and tables for the database. For me, this issue was the most challenging of all issues in the project since this requires you to think many steps ahead. Imagining how your tables are going to look and what data and data types you will be using to populate it. Below is a screenshot of the issue.



The third issue under my first Epic was initial project setup. Here I generated the initial templates and installed dependencies that are needed to start my project. Below is the screenshot of the issue.



The fourth issue was Connecting the database with the project setup. Here, I executed the plan I had with during the first issue. I generated models and created tables that would contain the data I wanted to manipulate in my project. Here I needed to recreate the tables a couple of times until I was satisfied with the right combination of data in my tables.



KAN-1 / KAN-7

1

Connect database and project setup

Attach

Add a child issue

Link issue

To Do

Actions

Description • Unsaved changes

Add a description...

Details

Assignee

CS Chris Soriano

Labels

None

Parent NEW

KAN-1 Project Planning and Setup

Reporter

CS Chris Soriano

The last issue for the first Epic was to populate the tables with data that was provided by the school through the API endpoint (<http://backend.restapi.co.za/items/products>). Here I created the utility endpoint /init. After this issue the first Epic concluded.

KAN-1 / KAN-8

1

Populate database with initial data

Attach

Add a child issue

Link issue

To Do

Actions

Description

Creating the endpoint /init and populating database with initial data from (<http://backend.restapi.co.za/items/products>)

Details

Assignee

CS Chris Soriano

Labels

None

Parent NEW

KAN-1 Project Planning and Setup

Reporter

CS Chris Soriano

▼

KAN-1 Project Planning and Setup

✓

KAN-24 Jira work flow

DONE

CS

✓

KAN-5 Plan for models and tables in database

DONE

CS

✓

KAN-6 Initial Project setup

DONE

CS

✓

KAN-7 Connect database with project setup

DONE

CS

✓

KAN-8 Populate database with initial data

DONE

CS

My second Epic is Creating the REST API and it was from May 20, 2024 to May 24, 2024. It consists of 7 issues all needed to create, read, update and update data in the database. Below is a screenshot of the issues under the second Epic.

The screenshot shows a Jira Kanban board for the 'KAN-2' project. The selected epic is 'REST API'. Below the epic name, there are icons for linking, adding a description, and other actions. The 'Description' field is empty with the placeholder 'Add a description...'. A 'Child issues' section shows a list of 7 issues, all with a status of 'TO DO' and a progress bar at '0% Done'. The issues are:

- KAN-9: create API endpoint /brands
- KAN-10: create API endpoint /categories
- KAN-11: create API endpoint /products
- KAN-12: create endpoint /cart
- KAN-13: create API endpoint /orders
- KAN-14: create API endpoint /auth
- KAN-15: Implement endpoints security

On the right side, the 'Details' panel is open, showing the following information:

- Assignee: Chris Soriano
- Labels: None
- Parent: NEW KAN-2 REST API
- Start date: May 20, 2024
- Due date: May 24, 2024
- Reporter: Chris Soriano

The first issue for the second Epic is to create the /brands endpoint. This endpoint will have all the CRUD operations inorder to manipulate the brands data.

The screenshot shows the details of the issue 'create API endpoint /brands' (KAN-9). The issue is assigned to Chris Soriano and has a status of 'TO DO'. The description is 'CRUD operations to data in brands table'. The 'Details' panel on the right shows the following information:

- Assignee: Chris Soriano
- Labels: None
- Parent: NEW KAN-2 REST API
- Reporter: Chris Soriano

The second issue is to create the /categories endpoint. This endpoint will have all the CRUD operations inorder to manipulate the categories data.

+

 KAN-2 /

✓

 KAN-10

🔒

👁 1

👍

🔗

⋮

✕

create API endpoint /categories

🔗

👤

🔗

⋮

To Do ▾ ⚡ Actions ▾

Description

CRUD operations to data in categories table

Details ^

Assignee

CS

Chris Soriano

Labels

None

Parent NEW

+

 KAN-2 REST API

Reporter

CS

Chris Soriano

The third issue is to create the /products endpoint. This endpoint will have all the CRUD operations in order to manipulate the products data.

+

 KAN-2 /

✓

 KAN-11

🔒

👁 1

👍

🔗

⋮

✕

create API endpoint /products

🔗

👤

🔗

⋮

To Do ▾ ⚡ Actions ▾

Description

CRUD operations to data in products table

Details ^

Assignee

CS

Chris Soriano

Labels

None

Parent NEW

+

 KAN-2 REST API

Reporter

CS

Chris Soriano

The fourth issue is to create the /cart endpoint. This endpoint will have all the CRUD operations in order to manipulate the cart data.

✦ KAN-2 /

✓ KAN-12

🔒

👁 1

👍

🔗

⋮

✕

create endpoint /cart

📎

👤

🔗

⋮

To Do ▾

⚡ Actions ▾

Description

CRUD operations to data in cart table

Details ^

Assignee

CS

Chris Soriano

Labels

None

Parent NEW

✦

KAN-2 REST API

Reporter

CS

Chris Soriano

The fifth issue is to create the /orders endpoint. This endpoint will only have GET and PUT, as per instructions, in order to manipulate the orders data.

✦ KAN-2 REST API

✎ KAN-2 /

✓ KAN-13

🔒

👁 1

👍

🔗

⋮

✕

create API endpoint /orders

📎

👤

🔗

⋮

To Do ▾

⚡ Actions ▾

Description

get and put operations to data in orders table

Details ^

Assignee

CS

Chris Soriano

Labels

None

Parent NEW

✦

KAN-2 REST API

Reporter

CS

Chris Soriano

The sixth issue is to create the /auth endpoint. This endpoint will contain the login and register endpoints that will allow users to authenticate/register themselves when using the app.

🚩 KAN-2 /

🔒 👁 1 📄 🔗 ⋮ ✕

✅ KAN-14

create API endpoint /auth

📎 👤 🔗 ⋮

To Do ⌵ ⚡ Actions ⌵

Description

get- sign in and sign up pages,

post- auth/login and auth/register

ensure input control

Details ⌵

Assignee

CS

Chris Soriano

Labels

None

Parent **NEW**

🚩

 KAN-2 REST API

Reporter

CS

Chris Soriano

The seventh issue is to apply security measures to some of the endpoints. This was achieved by creating isAuth and isAdmin function. By adding these functions some endpoints can only be accessed by the user only when they authenticate themselves by signing in. Also protecting the endpoints that are only intended for the Admin to access. After this the second Epic was completed.

🚩 KAN-2 /

🔒 👁 1 📄 🔗 ⋮ ✕

✅ KAN-15

Implement endpoints security

📎 👤 🔗 ⋮

To Do ⌵ ⚡ Actions ⌵

Description

Implement isAuth - for registered users to access specific endpoints,

Implement isAdmin - for admin only access to specific endpoints

Details ⌵

Assignee

CS

Chris Soriano

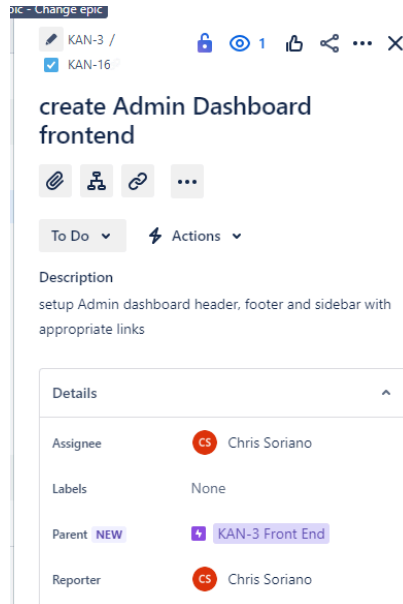
Labels

None

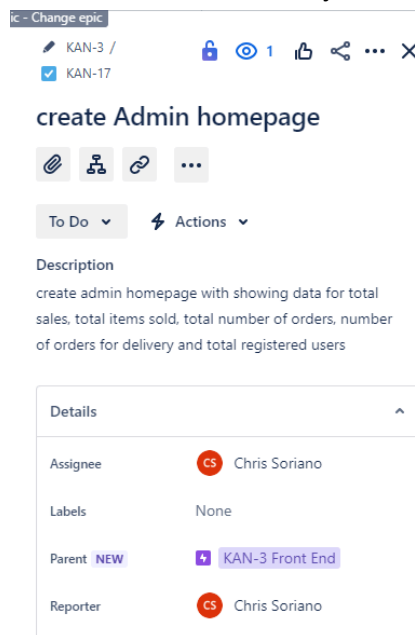
Parent **NEW**

🚩

 KAN-2 REST API



The second issue for the third Epic is to create the frontend for the Admin's Homepage. The homepage shows important data like total sales, total items sold, total number of orders, products with low inventory, number of orders for delivery and total registered users.



The third issue for the third Epic is to create the frontend for the Admin's Brands page. Here I access the /brands endpoint I created during the second Epic and showed the data on the table.

This screenshot shows a Jira issue titled "create Admin brands page". At the top, it indicates the issue is part of "KAN-3 / KAN-18". The issue type is "To Do". The description states: "create admin brands page that shows all the brands with buttons to edit and delete a brand." Below the description is a "Details" section with the following information:

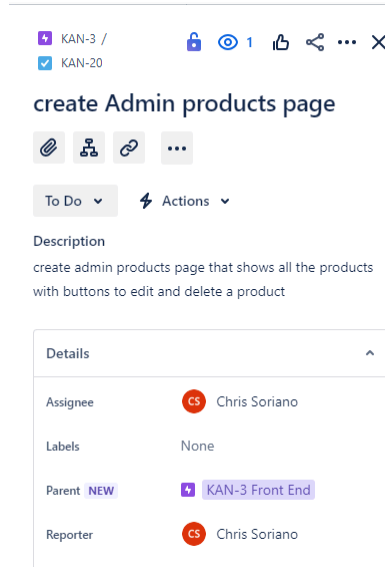
Details	
Assignee	CS Chris Soriano
Labels	None
Parent	NEW KAN-3 Front End
Reporter	CS Chris Soriano

The fourth issue for the third Epic is to create the frontend for the Admin's Categories page. Here I access the /categories endpoint I created during the second Epic and showed the data on the table.

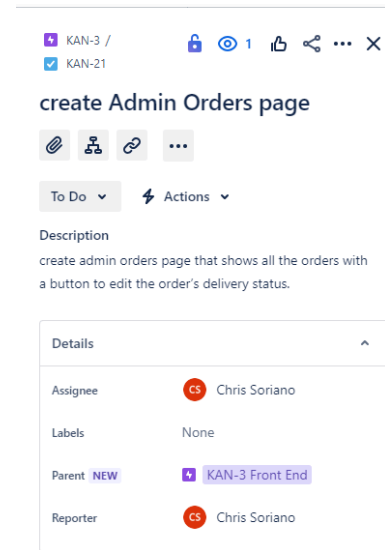
This screenshot shows a Jira issue titled "create Admin categories page". At the top, it indicates the issue is part of "KAN-3 / KAN-19". The issue type is "To Do". The description states: "create admin categories page that shows all the categories with buttons to edit and delete a category". Below the description is a "Details" section with the following information:

Details	
Assignee	CS Chris Soriano
Labels	None
Parent	NEW KAN-3 Front End
Reporter	CS Chris Soriano

The fifth issue for the third Epic is to create the frontend for the Admin's Products page. Here I access the /products endpoint I created during the second Epic and showed the data on the table.



The sixth issue for the third Epic is to create the frontend for the Admin's Orders page. Here I access the /orders endpoint I created during the second Epic and showed the data on the table.



The seventh issue for the third Epic is to create the frontend for the Admin's Users page. Here I showed how many users and their details that have registered for our app.

KAN-3 /

KAN-22

1

create Admin users page

To Do

⚡ Actions

Description

create admin users page that shows all the registered users.

Details

Assignee

CS

Chris Soriano

Labels

None

Parent

NEW

KAN-3 Front End

Reporter

CS

Chris Soriano

The eighth issue for the third Epic is to create the frontend for the Member's page. Here I showed the logged in user's details, membership status and all of the orders of the logged in user. After this the third Epic was finished.

KAN-3 /

KAN-23

1

create Membership page

To Do

⚡ Actions

Description

create a member's page that show the member's user details, membership status and all of the member's past and present orders.

Details

Assignee

CS

Chris Soriano

Labels

None

Parent

NEW

KAN-3 Front End

Reporter

CS

Chris Soriano

KAN-3 Front End		
✓	KAN-16	create Admin Dashboard frontend
✓	KAN-17	create Admin homepage
✓	KAN-18	create Admin brands page
✓	KAN-19	create Admin categories page
✓	KAN-20	create Admin products page
✓	KAN-21	create Admin Orders page
✓	KAN-22	create Admin users page
✓	KAN-23	create Membership page

My last Epic is Testing, Swagger and Jira Documentation and it was from June 03, 2024 to June 07, 2024. For the testing several endpoints was specified to be tested and all of those endpoint are came out successful and other known bugs were also fixed. Swagger and Jira Documentation are quite self explanatory. Swagger documentation can be accessed through the /doc endpoint.

⚡ KAN-4

Testing, Final Fixes and Documentation

📎 Attach

👤 Add a child issue

🔗 Link issue

⌵

⋮

Description

Add a description...

Child issues

Order by ⌵ ⋮ +

100% Done

✓ KAN-25	initiate testing with jest and supertest	== CS	DONE ⌵
✓ KAN-26	implement final debugging and final fixes	== CS	DONE ⌵
✓ KAN-27	setup swagger and generate /doc docu...	== CS	DONE ⌵
✓ KAN-28	readme.doc	== CS	DONE ⌵
✓ KAN-29	update and finalize JIRA	== CS	DONE ⌵

Confluence pages ⓘ ⋮

🔒 👁 1 🍌 🔗 ⋮ ✕

To Do ⌵ ⚡ Actions ⌵

Details ⌵

Assignee

👤 Unassigned

Assign to me

Labels

None

Parent **NEW**

None

Start date

Jun 03, 2024

Due date

Jun 07, 2024

Reporter

CS Chris Soriano