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In Assignment 5, I began by enhancing the existing project with Sequelize ORM for managing PostgreSQL database interactions. This required setting up Sequelize, configuring models, and creating functions for various database operations such as initializing, retrieving, updating, and deleting Lego set data.

The process started with defining Sequelize models for `Theme` and `Set`, establishing their relationships, and ensuring the database schema was synchronized correctly. Functions were implemented to interact with the database, allowing for CRUD operations on Lego sets and themes. These functions were crucial for the dynamic retrieval and manipulation of data.

Subsequently, I refactored existing code to integrate Sequelize, improving the way data was managed and retrieved. This involved updating functions to use Sequelize's query capabilities instead of raw SQL queries or manual data handling. Each function was tested to ensure it performed correctly with the new ORM setup.

To improve the user interface, I updated several EJS templates to reflect the new data structure. This involved modifying templates to correctly display related theme information for each Lego set and ensuring that dynamic data was seamlessly integrated into the HTML structure. This update required careful attention to ensure that the changes were consistent across different pages and functionalities.

Additionally, I reviewed and tested all changes to ensure that the application was working as expected. This included validating the integration between the front-end views and back-end data handling, ensuring that all routes were functioning correctly, and confirming that the dynamic content was accurately displayed.

The final step involved preparing the project for deployment, committing all changes to the GitHub repository, and ensuring that the application was thoroughly reviewed. This provided version control and a backup of the project, allowing for easy management and retrieval of the project’s progress.

Here’s my GitHub Link: [https://github.com/hunteras666/WEB322](https://github.com/hunteras666/WEB322)

Overall, this assignment provided valuable experience in integrating an ORM with an existing project, refactoring code for improved data handling, and ensuring that front-end and back-end components work harmoniously together. It reinforced the importance of effective data management, attention to detail in coding, and thorough testing in web development.