# Inclusion – Milestone 5

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CST-391

Project Overview

- **Purpose:** Personal Bible study web app to manage verse-specific comments across translations.

- **Backend:** REST API with CRUD operations.

- **Database:** MySQL with multiple tables to support functionality.

- **Frontend Milestone:** React app successfully connected to backend API.

- **Tools:** Node.js, Express, JavaScript/TypeScript, Postman, MySQL Workbench
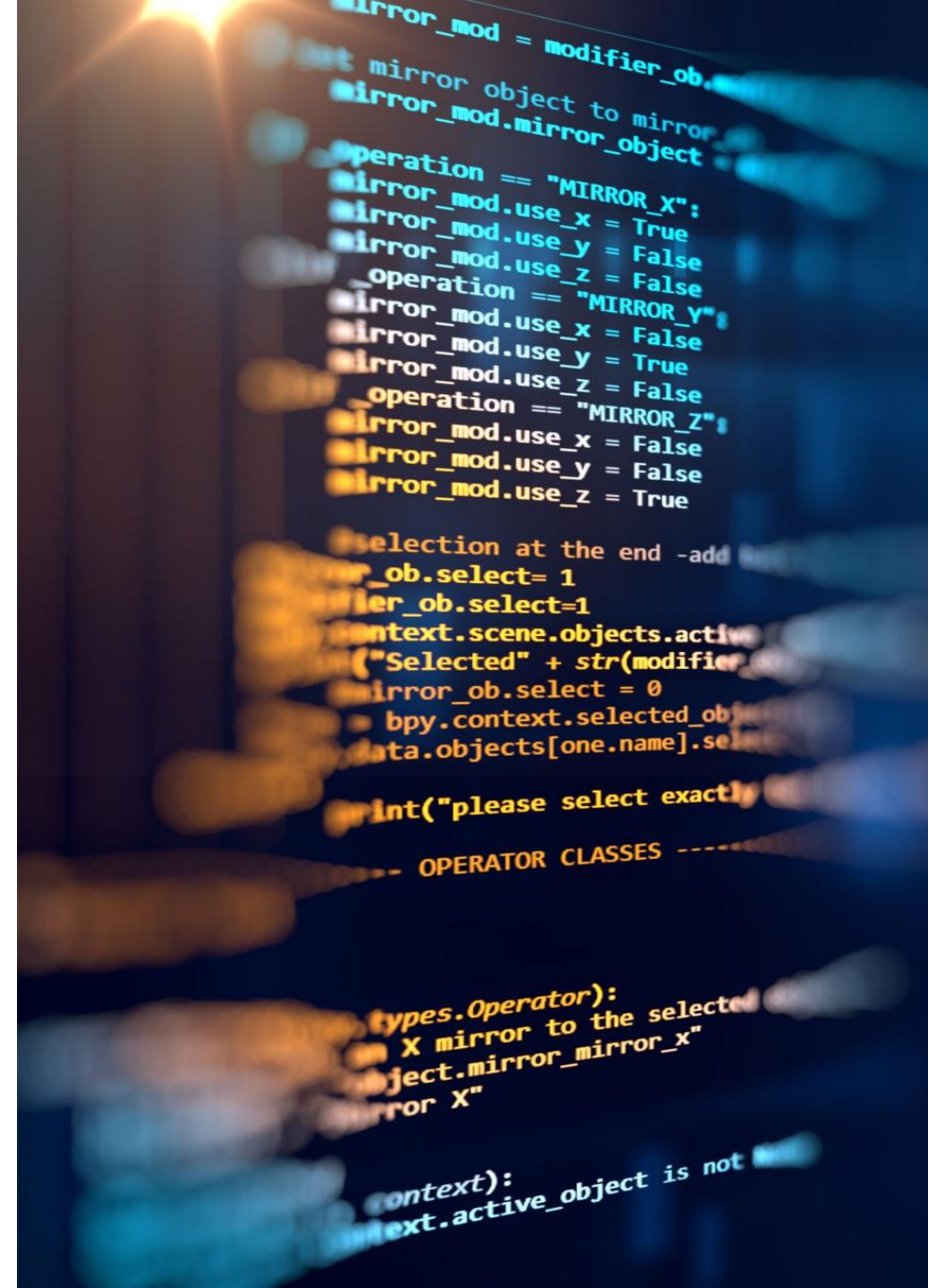
Implementation and Key Learnings

Implementation:

React components and services integrated with REST API

Routing established for Books, Verses, and Comments pages (via React Router)

Verses displayed dynamically by translation

Comments created and retrieved by verse

Key Learnings:

Define API contracts early for smoother integration

Postman testing catches backend issues before frontend work

Modular React components and reusable hooks aid debugging and reuse

Keeping schema diagrams updated reduces relation errors

Challenges and Pending Issues

✓ **Challenges:** Aligning React Router routes with backend endpoints

Debugging asynchronous API calls and component state

CORS setup and environment configuration

Pending Issues: Dropdowns for book selection incomplete

Performance concerns with large verse datasets

Input validation for comments still pending

Next Steps

Update Home Page for cleaner appearance

Standardize error handling & validation across API

Optimize database queries for larger translations

Conduct broader user testing across translations