



# **Inclusion – Milestone 4**

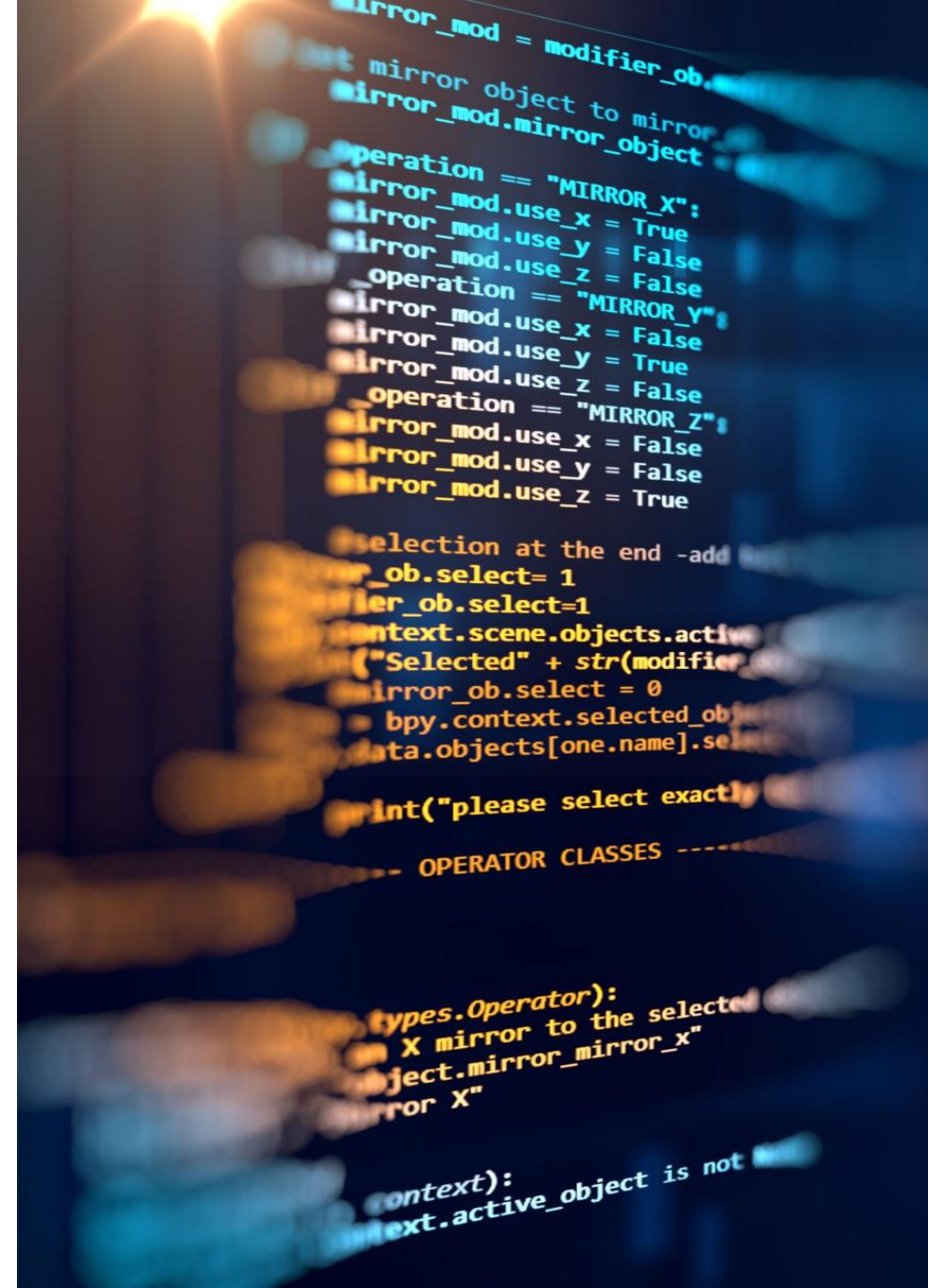
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CST-391

# 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:** Angular app successfully connected to backend API
- **Tools:** Node.js, Express, TypeScript, Postman, MySQL Workbench



# Implementation and Key Learnings

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**Implementation:** Angular services integrated with REST API

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Routing established for Books, Verses, and Comments pages

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Verses displayed dynamically by translation

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Comments created and retrieved by verse

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**Key Learnings:** Define API contracts early for smoother integration

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Postman testing catches backend issues before frontend work

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Modular Angular services aid debugging and reuse

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Keeping schema diagrams updated reduces relation errors

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# Challenges and Pending Issues



**Challenges:** Aligning Angular routes with backend endpoints



Debugging async calls and data binding



CORS setup and environment configuration



**Pending Issues:** Comment confirmation page incomplete



Performance concerns with large verse datasets



Input validation for comments still pending

# Next Steps



Finalize comment  
confirmation  
workflow in Angular



Standardize error  
handling & validation  
across API



Optimize database  
queries for larger  
translations



Conduct broader  
user testing across  
translations