

ABSTRACT

The migration of the Outcome Based Education (OBE) platform from PHP to the Angular Framework was conducted to meet the growing demand for a more modern, efficient, and structured learning system at Telkom University. Previously integrated into the iGracias superapps, the OBE platform faced limitations in performance and interface complexity. This project focused on Frontend development for the Subject Coordinator menu using a Component-based architecture and module separation approach in Angular. The development process involved interface slicing, API integration, and the implementation of Angular Router with lazy loading strategies to enhance performance. The migration successfully delivered improved and interactive interfaces, particularly in the management of Sub-CLO and RPS features. Testing with Cypress confirmed the system's validity in both UI behaviour and business logic. Overall, the project improved the quality of the OBE system and user experience, representing a significant step toward adaptive and responsive digital learning transformation.

Keywords: System migration, Outcome Based Education, Angular, Frontend, Sub-CLO, RPS