

ABSTRACT

English is a crucial skill in today's global era, with the TOEFL ITP serving as one of the widely recognized indicators of language competence. Telkom University Language Center (LaC) organizes TOEFL ITP courses but faces significant challenges in operational management. These include limited registration access, manual and error-prone registration-to-payment processes, especially when participant numbers increase drastically, due to the lack of integration with each other and with self-directed learning. This condition hampers operational efficiency. Therefore, this study aims to design and develop the course management module for the TOEFL ITP Practice website and conduct testing to ensure its alignment with user needs in addressing LaC's challenges. Data were collected through interviews with administrative staff, instructors, and course participants at LaC. The development method employed was iterative incremental with two iterations, consisting of the planning stage, design stage producing UML diagram artifacts, development stage using the Laravel framework based on the MVC architecture and MySQL database focusing on backend development, backend functionality testing stage using unit testing and black-box testing by verifying API responses with Postman, and the evaluation stage. API testing results in the second iteration showed that all endpoints functioned according to system requirements, returning successful responses with status codes 200 OK or 201 Created, including improvements from the previous iteration. Data validation at each endpoint ensured integrity and security, allowing the backend system to provide essential technical support to the frontend course management module.

Keywords: TOEFL ITP, Iterative Incremental, Laravel, MySQL, Course Management Module, Back-end