

**PENGEMBANGAN *RESTFUL WEB SERVICE*
PADA SISTEM KOLABORASI GURU MATA PELAJARAN DI
WILAYAH JAKARTA TIMUR DENGAN METODE SCRUM**

SKRIPSI



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Skripsi ini disusun sebagai salah satu syarat untuk
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PENDIDIKAN TEKNIK INFORMATIKA DAN KOMPUTER

FAKULTAS TEKNIK

UNIVERSITAS NEGERI JAKARTA

2021

RESTFUL WEB SERVICE DEVELOPMENT FOR TEACHER COLLABORATION SYSTEM IN THE EAST JAKARTA AREA WITH SCRUM METHOD

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ABSTRACT

Life nowadays is hardly be separated from technology, for example in Education Field. The dominance of technology role can be seen from the number of platforms that provide educational services. As we can see, the emerging platform tends to focused on the student matters. Only a few products that focused on the teachers difficulties. Currently, the teacher is collaborating to develop teaching tools and materials is limited to a certain social media platform such as Whatsapp or Foreign-made Learning management system. So a solution is needed to provide the teacher a space so they can collaborate to accomplish their duties as pedagogues. The purpose of this research is to develop a restful web service that can be used to develop a collaborative system for teachers that also adaptive to changes in the future. The development is done using Service-oriented Architecture (SOA), scrum method, ExpressJS Framework and generates 77 endpoints. Testing is performed to all endpoints with the unit testing method along with Postman tools. The test result shows that all of the endpoints are functioning properly and feasible for implementation in the teacher collaboration system's backend.

Keywords: Teachers Collaboration System, Scrum, Unit Testing, Restful Web Service, Service Oriented Architecture