

Automated Test Case for Spring Boot REST API using AI support

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Abstract: This research aims to determine the necessity of applying automation methods in testing REST APIs based on Spring Boot with the support of artificial intelligence (AI). The main objective is to build an efficient automated testing system, enhancing accuracy and time efficiency for the software development process. The research methodology includes synthesizing relevant literature, analyzing current problems in REST API testing, and designing and implementing an automated testing system. The expected result is a practical solution that contributes to improving the API testing process in the Spring Boot environment, while also expanding the application of AI in this field.

Keywords: API testing, Spring Boot, artificial intelligence, automation system, software development