

Pioneering the Automation of Internal Quality Assurance System of Higher Education (IQAS-HE) Using DevOps Approach

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Abstract	<p>Now, It was important to develop a software for managing the Internal Quality Assurance System for Higher Education (IQAS-HE). One hot issue was an automation, how to develop the software that can be reused by many developers, upgraded the release fast and frequent based on new requirements. In addition, how to bridge communication between developers and customer to develop the IQAS-HE software to support quality improvement Therefore, this research present the automation for developing a management tools required by higher education institutions in terms of quality improvement, using the DevOps approach. Furthermore, DevOps was an emerging paradigm for eliminating the split and barrier between developers and operating personnel that traditionally exist in many enterprises today. In this research, management tools aim to bridge the gap between stakeholders (customers) and developers to present software that had a good quality that could be a tool for improving the process of quality assurance of higher education continuously. The research results indicate that the collaboration of the availability of collaborative management tools, Continuous Integration (CI) tools, choice of software development approaches, organizational engineering as part of cultural engineering, were an important issue to obtain automation of the IQHS-HE development.</p>
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