

Submission 78

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## EICSE2019 Submission 78

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### Submission 78

Title	Design and Implementation of Rest API for Academic Information System
Paper:	 (Oct 15, 13:51 GMT)
Author keywords	Rest API information system NodeJS PHP
Topics	Electrical and Informatics Engineering
Abstract	With the increased number of information systems used in an organization, there are also increased importance of data exchange between these systems. This research deals with prototype development and performance analysis of Rest API for academic information system. Rest API was developed using two different server technologies, NodeJS and PHP. The prototype was developed on top of a database server using one sample table that represents employee in a higher education institution. For each of the Rest API developed, there were 2 types of endpoint created. Experiment was set with one database containing a single table. The result of the experiment shows NodeJS implementation of REST API have consistently better performance compared to PHP based REST API implementation. NodeJS implementation consistently reached 100% for up to 1000 concurrent requests, while PHP reached 48.70% throughput when serving the same number of concurrent requests.
Submitted	Oct 15, 13:51 GMT
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