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Regards,

**Nithin N M**

**4NI14MCA29**

**DECLARATION**

We hereby declare that the project report titled **“Dev-ops Office Model”** is an original piece of work done by us for the fulfillment of the award of degree of Masters of Computer Application. And whatever information has been taken from any sources had been duly acknowledged.

We further declare that, this project is carried out for academic purpose only.

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**ABSTRACT**

Delivery of software solutions at a faster pace is essential in the industry today and to do that, the concept of automation came up and the IT industry has tried to implement the concept of automation to fasten the software production process and to speed up the process of product delivery to customer.

The proposed system does all the operations related to the software development and delivery process in an automated way. DEVOPS model has been incorporated in the system to

carry out the task. Initial phase will carry out the manual installation and configuration of all the tools and services required for the proposed system and finally all the manual installations required for the release and deployment are automated using an automation tool called puppet.

The system is built by using tools like Git (Repository), Jfrog, Jenkins, Jira, Maven, Nagios (Monitoring tool) and puppet. These tools cover all the aspects of software development and deployment. The proposed system automatically builds the code, tests the code, bundles the packages, deploys the application and monitors the overall system.

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LIST OF SYMBOLS AND ABBREVIATIONS

DevOps Development Operations

SRE Site Reliability Engineering

OPS Operations

HTTPD Hyper Text Transfer Protocol Daemon

XINETD Extended Internet Daemon

NRPE Nagios Remote Plugin Executor

ESXi Enterprise Server Xi

YUM Yellowdog Updater Modified

CI Continuous Integration

CD Continuous Deployment

RPM Redhat Package Manager

DNS Domain Name System

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