SYSTEM ANALYSIS

Existing System

* The current system of the project is manually deploying the builds to DEV, QA, PROD environments.
* Because of manual deployments there is a chance for human errors.
* The manual process will associated with a lot of problems such as missing student details in our student registration form, Time wastage etc.

Proposed System

* The proposed system is end-to-end automation with DevOps tools.
* This system makes the user to work with agile methodology more efficiently.
* It also reduces the work of developers to troubleshoot the deployment issues and focus on the code.
* The main aim of this project is to build and deploy application in 3-tier architecture with automatic CI/CD build process.

System requirements

**HARDWARE REQUIREMENTS:**

* PROCESSOR : 2VCU’S
* RAM : 4GB
* HDD : 10GB

**SYSTEM REQUIREMENTS:**

* OPERATING SYSTEM : LINUX/WINDOWS
* FRONTEND CODE : HTML
* BACKEND CODE : JAVA
* SERVER : APACHE TOMCAT 8
* DATABASE : MARIADB