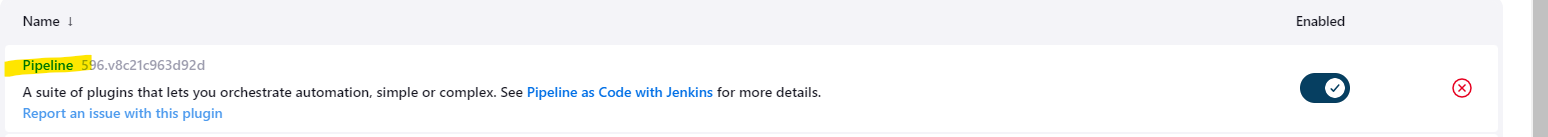
# Build CICD Pipeline using pipeline plugin.

Jenkins pipeline is used to automate the process of deployment and store the code in GitHub.

Whenever there is change in code automatically pipeline would be started and perform stages mentioned in pipeline.

Here I have practiced concept of pipeline by creating stages for SonarQube code analysis, building the artifacts for application, storing the artifacts into nexus, deploying the application into webserver where the artifacts are downloaded from nexus repositories.

Pipeline plugin is needed to create a pipeline job in Jenkins.



After installing the plugin then a pipeline is created as shown below by giving github repo and pipeline path.

A screenshot of a computer

Description automatically generated

So once it is configured started creating the jobs in the Jenkins file.

The Jenkins file is also stored in github where it has history of detailed commits and every step.

<https://github.com/saitejat1907/lms/tree/dev> --- GitHub repository.

A screenshot of a computer

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Code which is used to perform sonar analysis and build the application.

A screen shot of a computer program

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Code which is used to to store and deploy the artifacts including versioning which is mentioned in package.json file.

A computer screen shot of a program code

Description automatically generated

Once the code is committed everytime pipeline would be runn automatically and at last by solving all the errors which occurred able to deploy the application successfully.

A screenshot of a computer

Description automatically generated

SonarQube analysis:  
A screenshot of a computer

Description automatically generated

Nexus artifacts:  
A screenshot of a computer

Description automatically generated

Deploying the application:  
A blue rectangle with white border

Description automatically generated

Tested by changing the index file background colour so application deployed automatically without any human intervention all the jobs were doen automatically which were mentioned in the pipeline.

A screenshot of a computer

Description automatically generated

A red square with white text

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