

Set up a .NET Web Application to Be Deployed via Jenkins

Objective

The objective of this document is to show the process of creating a Jenkins pipeline for the Joe's Pizza website project. A Jenkins pipeline is a set of automated

steps that help build, test, and deploy our application, ensuring a smooth and consistent development process.

Prerequisites

Jenkins installed and configured.

The Joe's Pizza website project source code available in a version control system like Git.

Create a New Jenkins Freestyle Job

Open the Jenkins dashboard.

Click on "New Item" to create a new job.

Enter a name for your freestyle job, e.g., "JoesPizza"

Select the "FreeStyle" project type and click "OK."

Configure Job

In the "General" section, we can provide a description for our job.

Add the github repository link here

<https://github.com/PrashastVats1/Phase3PracticeProjJenkins>

We can define the build script in the Windows command shell like so:

```
cd $WORKSPACE/JoesPizza
```

```
dotnet restore
```

```
dotnet build
```

Build and Run the Job

Go back to the Jenkins dashboard.

Click on the "JoesPizza" job.

Click "Build Now" to trigger the job.

Monitor the Job

We can monitor the progress of our job as it moves through the defined stages.

Jenkins will provide feedback on each stage, indicating whether it succeeded or failed.

If any stage fails, we can review the logs to identify and fix the issue.