**Continuous Integration using Jenkins**

Jenkins is an open-source tool to implement Continuous Integration and Continuous deployments.   
There are various options in the tool that could be used for the CI implementation. Freestyle project is one among the options that could be used to

* Configure a GIT repository to pull the code
* Build the code that is pulled from the repository thru 'dotnet build' command thru command prompt

Follow the steps listed below to create a Freestyle project   
   
New Item Creation:

1. Click on "New Item" on the Jenkins dashboard’s left navigation menu.
2. Provide a name for the item
3. Select "Freestyle project"
4. Click "Ok" button

Source code Management setup:

1. Choose Git
2. Provide the GIT repository url
3. Provide the network credentials using the Username and password kind.
4. Click "Save"

Build Section setup:

1. Navigate to the “Build” section
2. Click “Add build step”
3. Choose “Execute windows batch command”
4. Provide the following command in the text area, “dotnet build” to build the project after downloading from the GIT repository.

Once done, the freestyle project will be listed on the dashboard.   
   
Click on the freestyle project to trigger a Build.   
View its status to check the currently executing steps.   
Determine the workspace in the local machine where the code gets pulled.   
Note:   
Ensure that the code on GIT contains the solution file in the root folder.

<https://www.guru99.com/create-builds-jenkins-freestyle-project.html>