

# Maven build for two projects

## System Setup (Linux)

- jdk 17 (apt based installation)

```
sudo apt update
sudo apt-cache search jdk
sudo apt install openjdk-17-jdk -y
```

- maven (tar based installed): Lets download maven from [Refer Here](#)

```
cd /tmp
wget https://dlcdn.apache.org/maven/maven-3/3.9.6/binaries/apache-maven-3.9.6-bin.tar.gz
tar -xvf apache-maven-3.9.6-bin.tar.gz
sudo mv apache-maven-3.9.6 /opt/maven
```

- ADD `opt/maven/bin` to PATH in `/etc/environment`

```
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/opt/maven/bin"
```

- exit and relogin

## Building spring petclinic

- spring petclinic [Refer Here](#)
- Steps:

```
git clone https://github.com/spring-projects/spring-petclinic.git
git branch
mvn package
```

## Building Broadleaf ecommerce

- GitHub [Refer Here](#)
- steps

```
git clone https://github.com/BroadleafCommerce/BroadleafCommerce
git branch
mvn clean package
```

## Building dotnet core projects

- dotnet uses a inhouse tool called as msbuild to build the projects
- In dotnet core msbuild is the integral part of sdk installation
- dotnet generally has build configurations
  - Debug `dotnet build -c Debug <path to csproj>`
  - Release `dotnet build -c Release <path to csproj>`
- using dotnet command
  - dotnet build: this command compiles the code and generates dlls
  - dotnet test: this command executes the tests and generates test results
  - dotnet publish: this command creates the complete project build output (artifact) into a folder which you can further zip and share.
- To run the application we can execute `dotnet <app-main>.dll`

## nopcommerce

- [Refer Here](#) for projects github
- Ensure dotnet 8 sdk is installed [Refer Here](#)

```
sudo apt-get update && \  
sudo apt-get install -y dotnet-sdk-8.0
```

- clone the project and build

```
git clone https://github.com/nopSolutions/nopCommerce.git  
git branch  
cd nopCommerce  
cd src/Presentation/Nop.Web  
dotnet build -c Release Nop.Web.csproj  
mkdir ~/publish  
dotnet publish -c Release Nop.Web.csproj -o ~/publish  
cd ../../Tests/Nop.Tests  
dotnet test Nop.Tests.csproj
```