

# **COMP 3095 – Web Application Development with Java**

## **Lab 2 Initializing the Project**

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# Laboratory #2 – Initializing the Project

## 1. Laboratory Objective

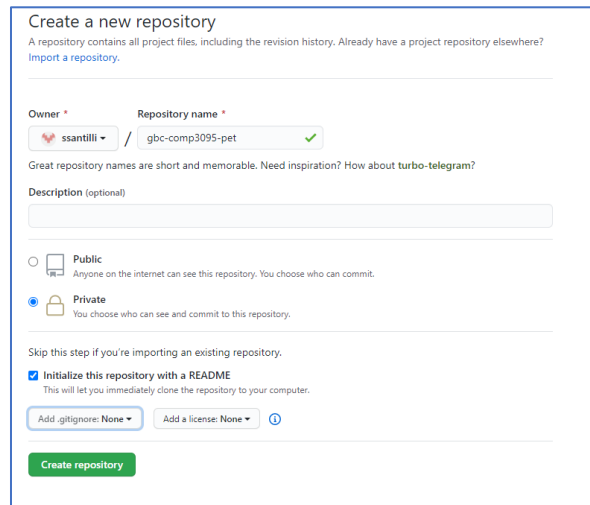
The goal of this lab is to initialize the COMP3095-PET Clinic Project in GitHub (or GitLab etc..).

## 2. Laboratory Learning Outcomes: After conducting this laboratory students will be able to:

- Create a Git repository
- Configure IntelliJ to work with your Git Repository

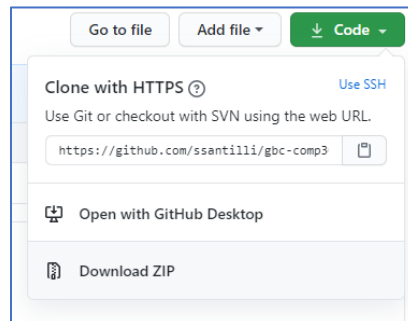
## 3. Laboratory Instructions

- Start by navigating to GitHub (create a free account if you like), and create new project repository.



The screenshot shows the 'Create a new repository' page on GitHub. At the top, it says 'Create a new repository' and 'A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)'. Below this, there are two input fields: 'Owner' with a dropdown menu showing 'ssantilli' and 'Repository name' with a text input showing 'gbc-comp3095-pet' and a green checkmark. A note below says 'Great repository names are short and memorable. Need inspiration? How about turbo-telegram?'. There is a 'Description (optional)' text area. Below that are two radio buttons for visibility: 'Public' (unchecked) and 'Private' (checked). A note for 'Private' says 'You choose who can see and commit to this repository.' Below this is a section for 'Skip this step if you're importing an existing repository.' with a checked box 'Initialize this repository with a README' and a note 'This will let you immediately clone the repository to your computer.' At the bottom, there are two dropdown menus: 'Add .gitignore: None' and 'Add a license: None', followed by a green 'Create repository' button.

- Clone the project (using ssh or https).



The screenshot shows the cloning options for a GitHub repository. At the top, there are three buttons: 'Go to file', 'Add file', and 'Code'. Below these, there are two main options: 'Clone with HTTPS' (selected) and 'Use SSH'. The 'Clone with HTTPS' option includes a note 'Use Git or checkout with SVN using the web URL.' and a text input showing the URL 'https://github.com/ssantilli/gbc-comp3'. Below this are two more options: 'Open with GitHub Desktop' and 'Download ZIP'.

- c. Issue git clone command to clone the project to your local directory of preference:

```
C:\MyProjects\java\comp3095\PetClinic
λ ls -l
total 0

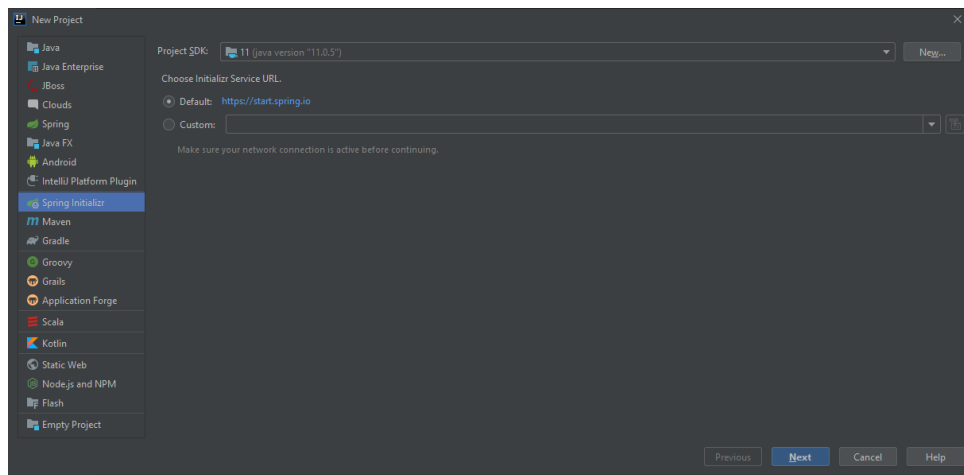
C:\MyProjects\java\comp3095\PetClinic
λ git clone https://github.com/ssantilli/gbc-comp3095-pet-clinic.git
Cloning into 'gbc-comp3095-pet-clinic'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 867 bytes | 66.00 KiB/s, done.

C:\MyProjects\java\comp3095\PetClinic
λ ls -l
total 0
drwxr-xr-x 1 UTSCAD+santill13 2147484161 0 Aug 14 14:46 gbc-comp3095-pet-clinic/
```

```
C:\MyProjects\java\comp3095\PetClinic
λ cd gbc-comp3095-pet-clinic\

C:\MyProjects\java\comp3095\PetClinic\gbc-comp3095-pet-clinic (master -> origin)
λ ls -ltra
total 6
drwxr-xr-x 1 UTSCAD+santill13 2147484161 0 Aug 14 14:45 ../
-rw-r--r-- 1 UTSCAD+santill13 2147484161 301 Aug 14 14:46 .gitignore
-rw-r--r-- 1 UTSCAD+santill13 2147484161 57 Aug 14 14:46 README.md
drwxr-xr-x 1 UTSCAD+santill13 2147484161 0 Aug 14 14:46 ../
drwxr-xr-x 1 UTSCAD+santill13 2147484161 0 Aug 14 14:46 .git/
```

- d. Create a new Project, pointing to the git pet project shell cloned. File → New Project



- e. Click next, enter project details

New Project

Project Metadata

Group: ca.gbc.comp3095

Artifact: gbc-comp3095-pet-clinic

Type: Maven Project (Generate a Maven based project archive.)

Language: Java

Packaging: Jar

Java Version: 11

Version: 0.0.1-SNAPSHOT

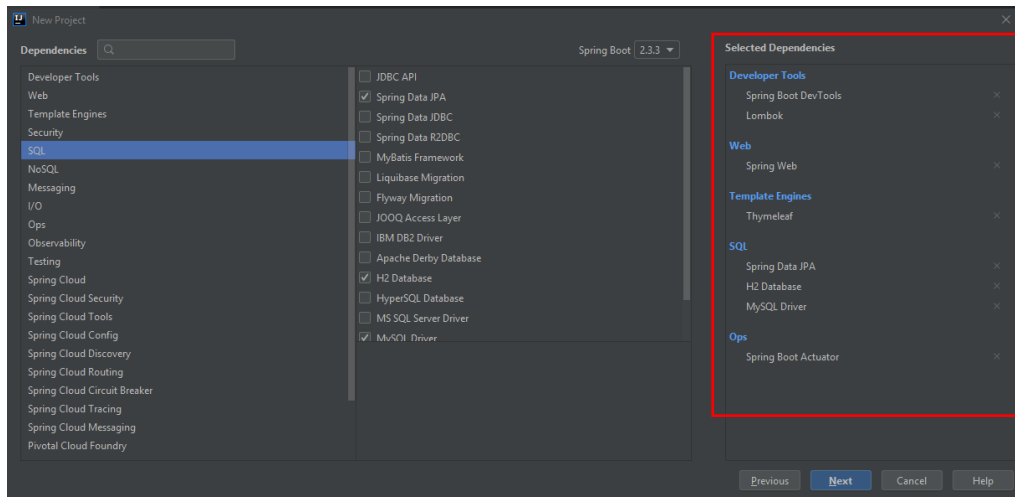
Name: gbc-comp3095-pet-clinic

Description: COMP3095 Lab Project

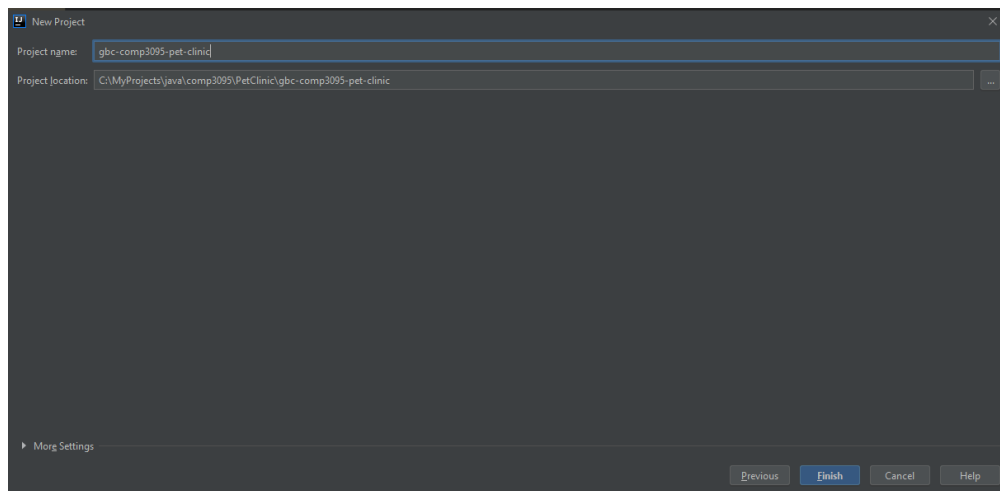
Package: ca.gbc.comp3095.gbcomp3095petclinic

Previous Next Cancel Help

- f. The following screen represents similar options as presented in start.spring.io for addon/package module selection.
1. Select a stable release of Spring (not a snapshot version)
  2. **Core**
    - i. Spring Boot DevTools
    - ii. Lombok
  3. **Web**
    - i. Spring Web
  4. **Template Engines**
    - i. Thymeleaf
  5. **SQL**
    - i. Spring Data JPA
    - ii. MySQL Driver
    - iii. H2
  6. **Ops**
    - i. Spring Boot Actuator

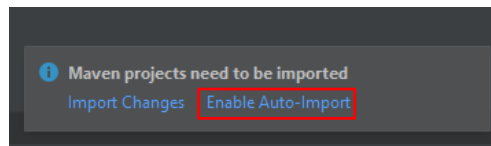


g. Click Next, validate project directory to point to git cloned project directory.

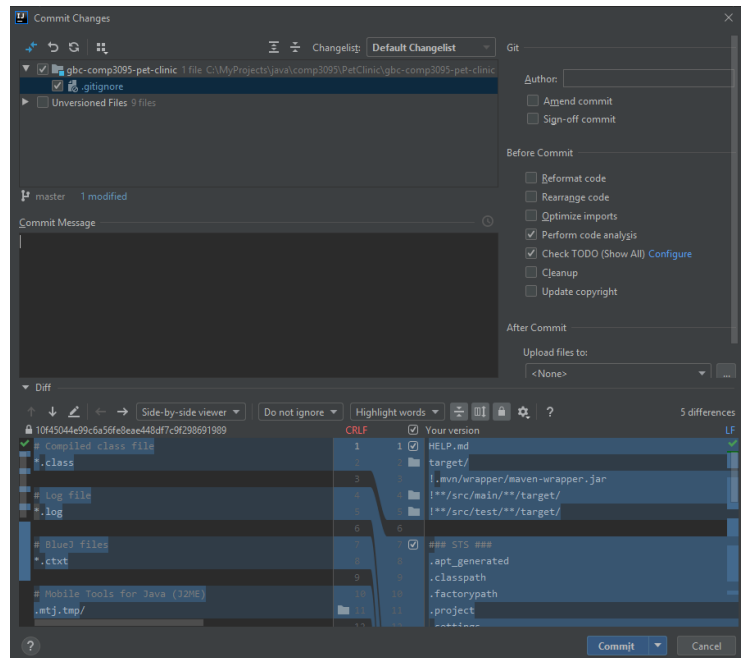


h. Click finish, behind the scenes intelliJ will call-out to start.spring.io, create and index the project.

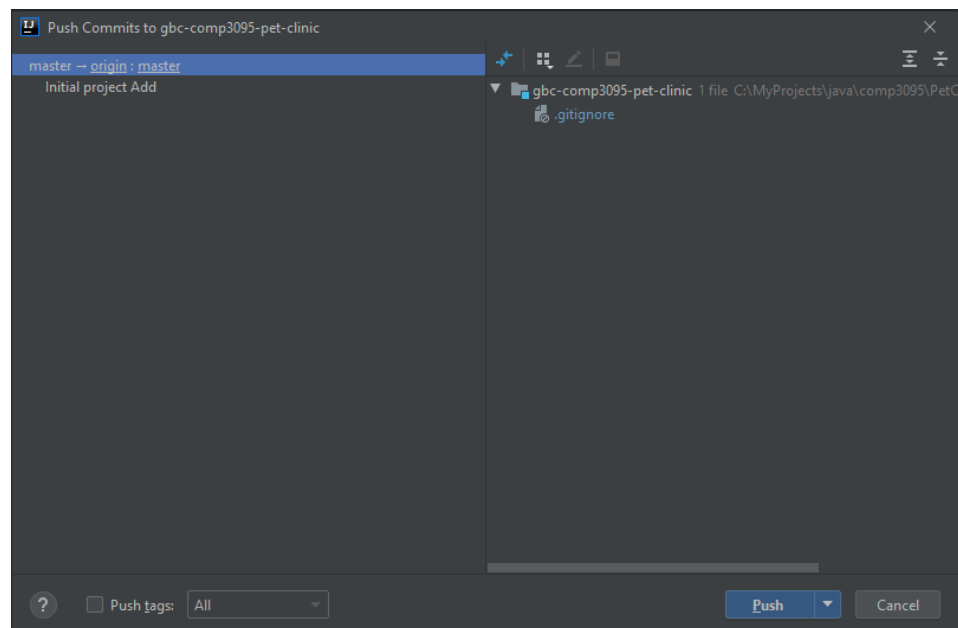
i. Be sure to enable auto-import if presented.



- j. Commit project directory to Git, **Git→Commit directory**



- k. Add a commit message (good practice)
- Tips top remember.
    - Commit** → only commits to local repository
    - Commit and Push** → Commits to local repository and pushes to remote git repository.
  - Confirm Push



m. Validate project has been committed and pushed

master


1 branch

0 tags



Go to file

Add file

Code

 ssantilli Initial project Add

1ede485 3 minutes ago 2 commits

 .gitignore	Initial project Add	3 minutes ago
 README.md	Initial commit	1 hour ago