

# Course: Web Application Development

## Lab Instructor: Assoc.Prof.Nguyen Van Sinh

Email: [nvsinh@hcmiu.edu.vn](mailto:nvsinh@hcmiu.edu.vn)

## Lab 1: Setup Environment & Implement a Website

Date: February 18<sup>th</sup>, 2023

### Content:

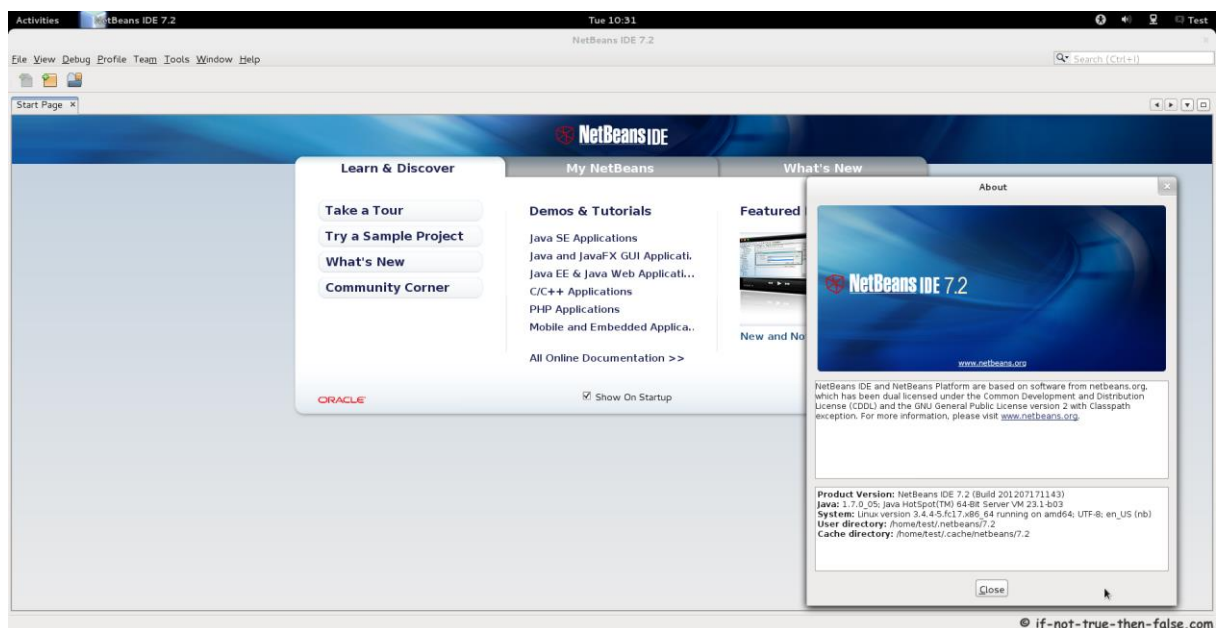
- Setup IDE: NetBeans (using the latest version, server: Tomcat/Glassfish)
- Setup database: MySQL (database server), Navicat Light(administration tool), others
- Implement a website using HTML

Duration: 3 hours

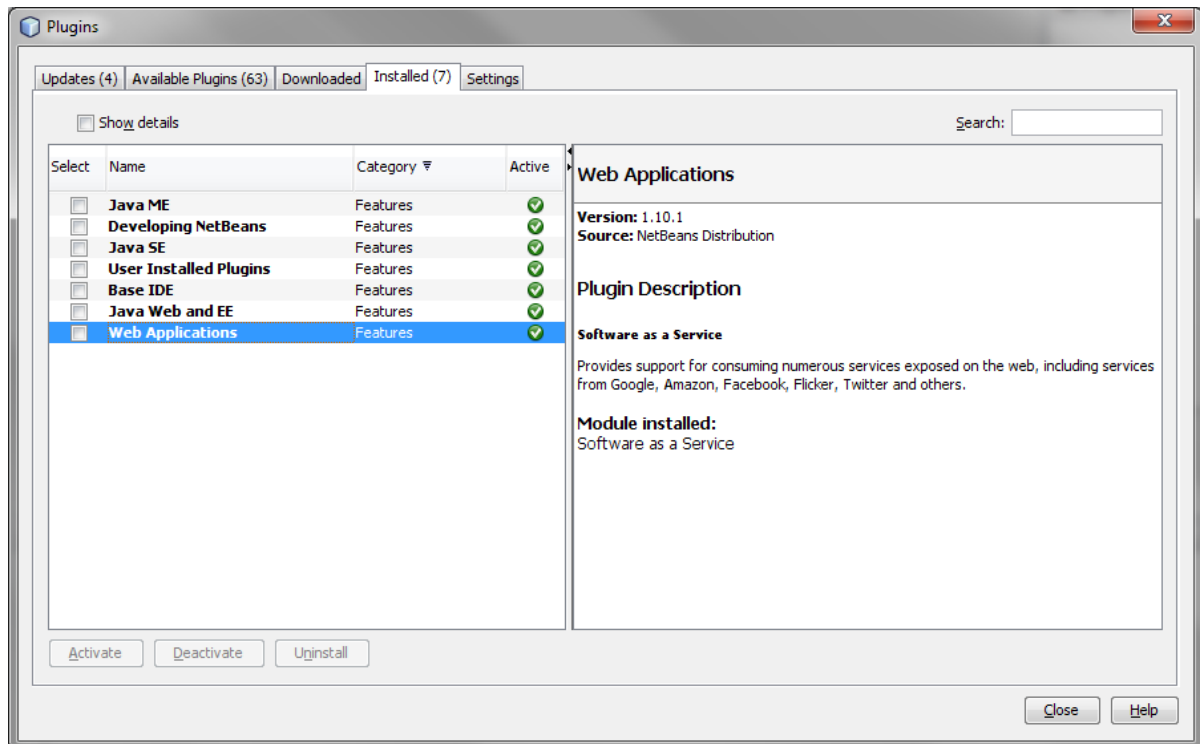
### Part 1: Setup NetBeans IDE (you can also use Eclipse if you want)

The source program copy from Instructor, you can go to this website: [www.netbeans.org/](http://www.netbeans.org/) to have an overview of Netbeans or download the last version.

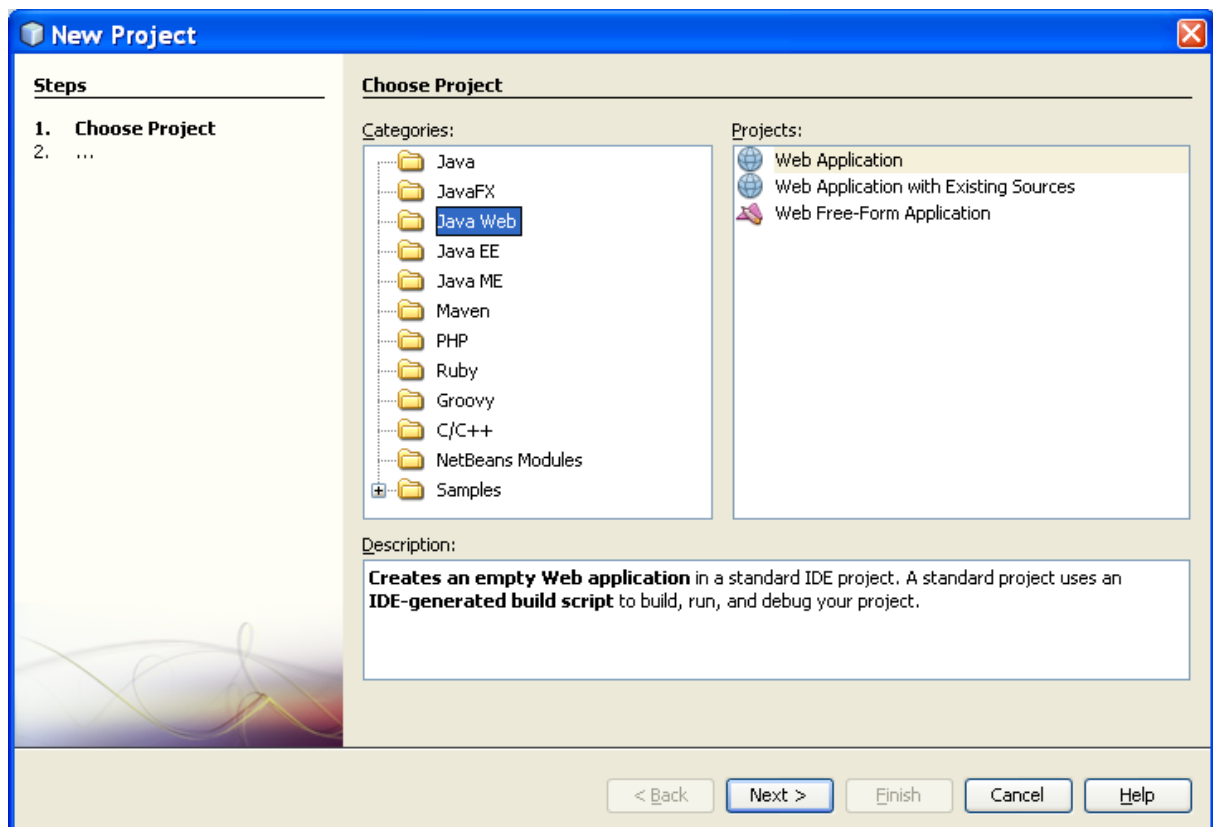
This is an example of Interface when finish installation: (note: you should download the latest version)



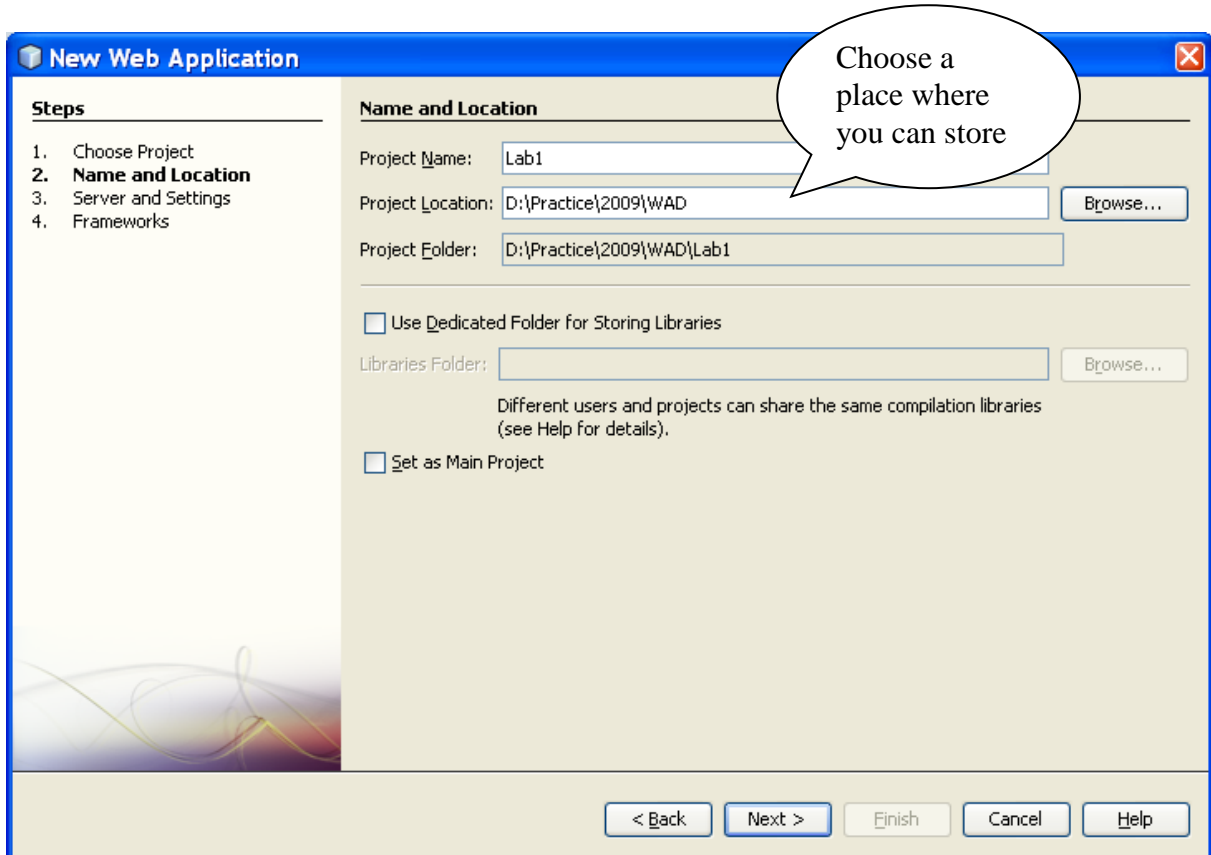
Create a website to test Netbeans environment: Select File > New Project > Java Web > Web Application: If Web Application project template does not exist, that means Web Applications plugin is not installed. You can install it by choosing Tool>Plugin>Available Plugin then choose Web Applications



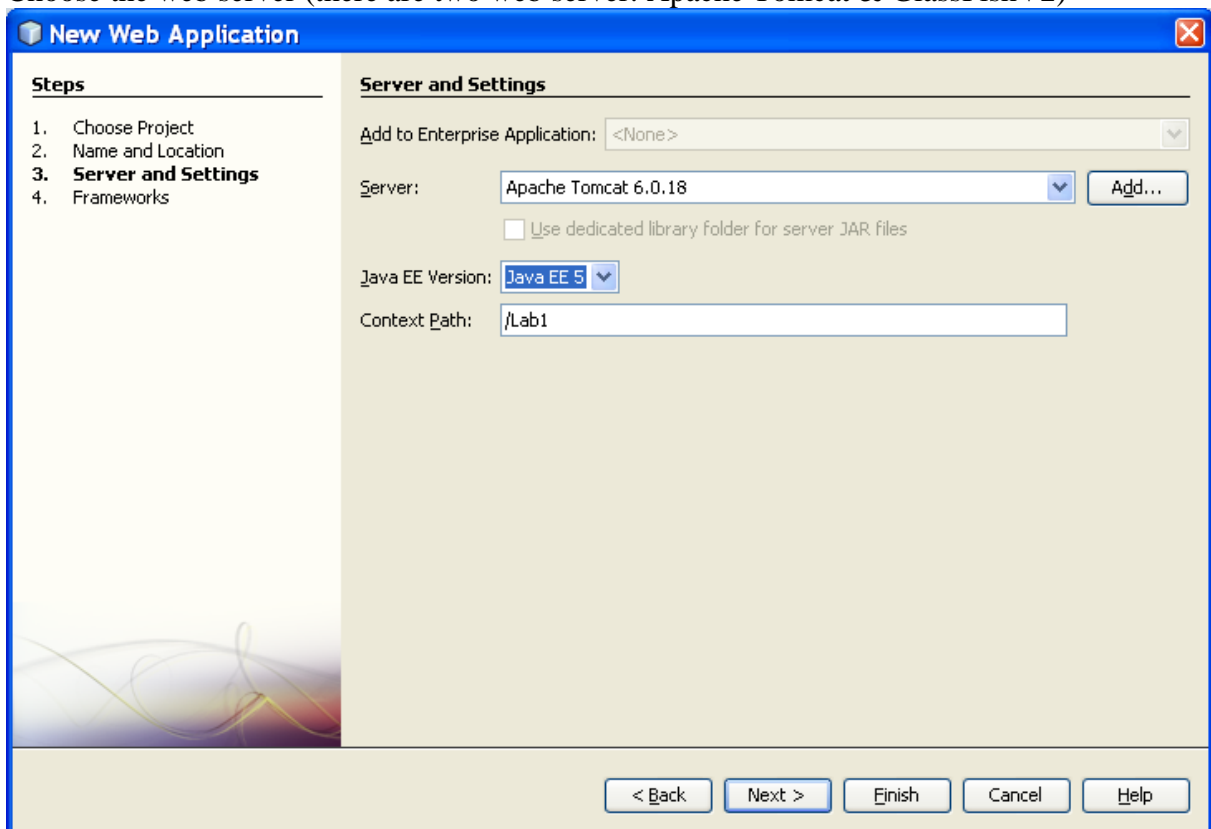
Screen of plugin installation



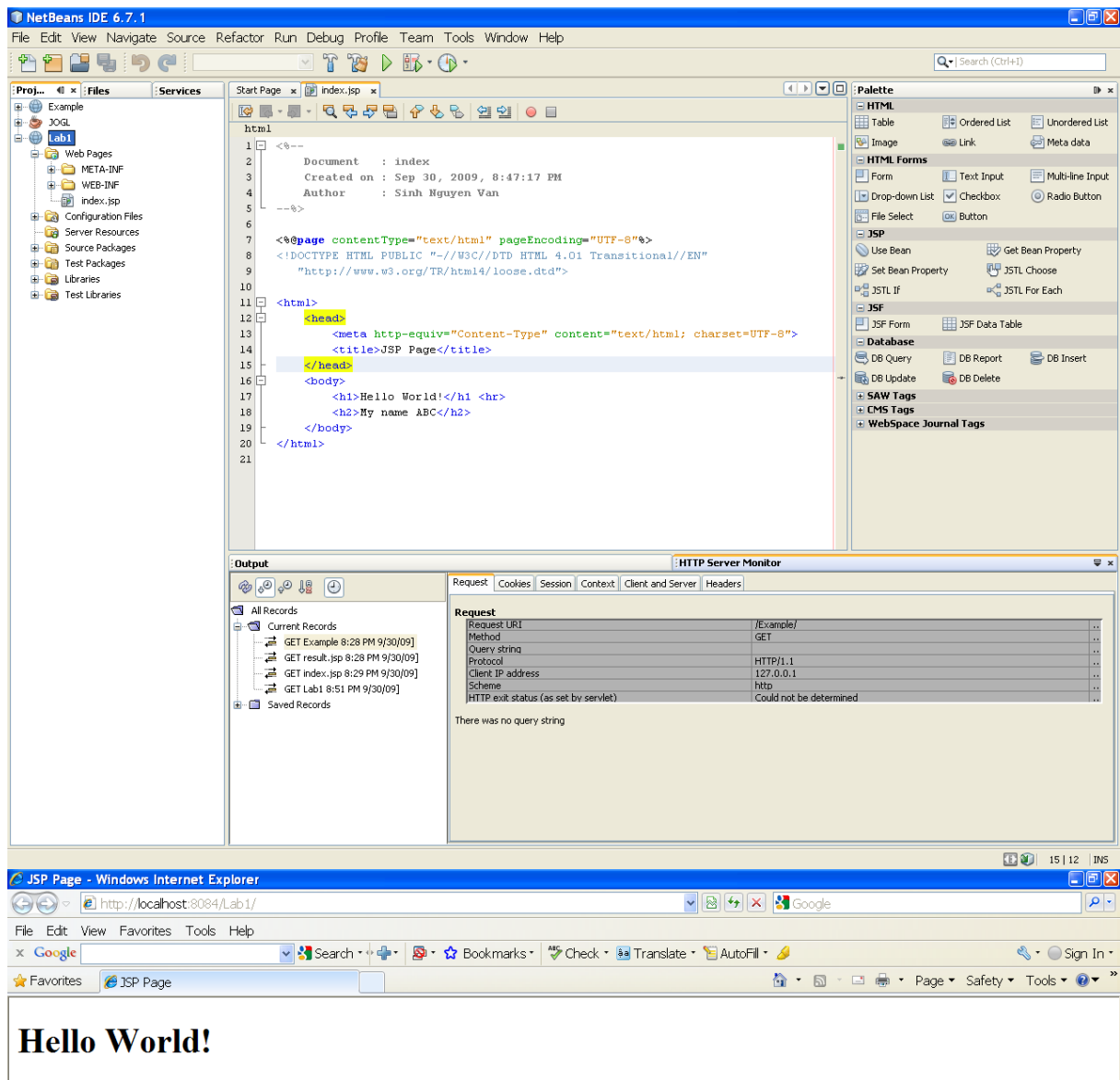
Click to “Next”, then fill in the Project Name; Name and Location, then go to Next button.



Choose the web server (there are two web server: Apache Tomcat & GlassFishV2)



Now click on Finish button to complete an example of web application.



## Part 2: Setup MySQL (Database System) and Navicat Light (Tool)

In this Lab, we will install MySQL version 6.0 (source program refer from Instructor). MySQL can be controlled by two administration interfaces:

- Console (built-in console)
- Graphic User Interface (Third-Party Tools)

Third-party tools are softwares provided by many vendors, such as MySQL GUI, Navicat,... You can install Navicat Lite for MySQL. In this section, you will learn console and Navicat

### a. MySQL console

Steps to launch console:

- Open window console by run "cmd" command on "Start" menu
- Locate directory contained file "mysql" (it is usually located in bin folder of installed folder). Do not forget your username and password of mysql when you was installing.
- Run mysql as figure bellow

```
C:\WINDOWS\system32\cmd.exe - mysql -u root -p

C:\Program Files\MySQL\MySQL Server 6.0\bin>mysql root -p
Enter password:
ERROR 1044 (42000): Access denied for user ''@'localhost' to database 'root'

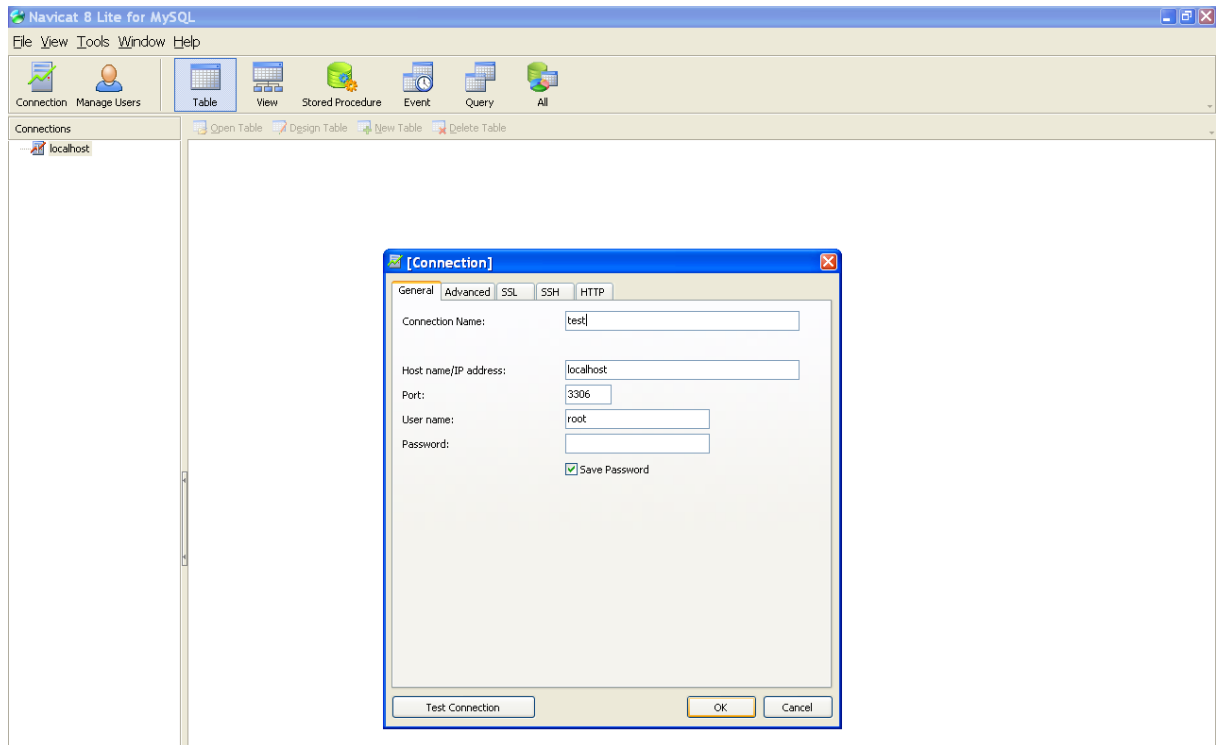
C:\Program Files\MySQL\MySQL Server 6.0\bin>mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 6.0.3-alpha-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> shows databases;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'shows
databases' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| funtasybook |
| mysql |
| student |
| test |
| weblab5 |
| webtest |
+-----+
7 rows in set (0.24 sec)

mysql> _
```

- After connected to database, you can test MySQL feature by typing something. The syntax and purposes of command can be found on internet.
- b. Navicat (Trial version)
  - Install it on your computer
  - Connect to database, using same information as console. But you can type them on graphic user interface now.
  - Test Navicat features with your mouse.



Extend: Install the tools for drawing some diagrams (Use case, Sequence, Databases, Architecture): Power designer, Visio, etc.

### **Part 3: Design your personal website using HTML + CSS**

In this part, you will learn how to create a new web project by using NetBeans. You also learn how to modify the web application deployment descriptor. Then, you can start using the lab sample web application.

**ASSIGNMENT 1: GO ON TO DEVELOP YOUR PERSONAL WEBSITE WITH THE FOLLOWING REQUIREMENTS:**

- From 5 to 10 pages
- Using Frame, Images, Link, and all components of a form.
- Using CSS to decorate your pages

## My Name is Trần Ngọc Nhân

I am a Web Developer and I love design beautiful things

You can check my information by checking other pages



Project	Link
Portfolio	<a href="#">Github link portfolio project</a>
Movie	<a href="#">Github link project</a>
Air Bub	<a href="#">Github link tetris game</a>

## My Projects

Project name	Description
Portfolio	Portfolio is a project that I did my first time using reactJs. This project contains my information, my hobby, my other projects and so on
Movie	I gained back-end knowledge through working on a system like Pinterest. After creating this system, I understand that behind the user interface development steps are extremely complex tricks to help the website operate smoothly as well as be safe and secure through the use of tools API
Air Bub	Through this project, I learned how a project is completely made. This includes how much fees need to be spent as well as how to arrange the data appropriately. Besides, I also learned how to make an Air Bub system to help users book rooms as well as learn the security of the system



## About Me

*My interests are there innovation, design and development of user-friendly interfaces. I excel in working in a team and valuing open communication and collaboration. I have gained valuable things through personal projects experience and I look forward to continuing to learn and advancement as a software engineer*