



HCMUTE

LECTURER

MAI ANH THO

Final Project

**E-Commerce Website
Using JSP, Servlet and MySQL**

WEB PROGRAMMING

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SEMESTER: 1 – YEAR: 2020-2021

EVALUATION AND SCORE

EVALUATION:

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SCORE:

WORD	NUMBER

PREFACE

Web Programming is a quite interesting and difficult object but it also helps us know more about the technologies we use in daily application. Our project is to develop an E-Commerce Website using JSP and Servlet. It is pretty difficult for us but thank to your lecture we can complete it. We are grateful to you.

Thank you, Mrs.Tho

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I. Project Overview

A. Definition

+ *What is Servlet?*

A servlet is a Java class which is used to extend the capabilities of servers that host applications accessed by means of a request-response model. Servlets are mainly used to extend the applications hosted by web servers, however, they can respond to other types of requests too. For such applications, HTTP-specific servlet classes are defined by Java Servlet technology.

+ *What is JSP?*

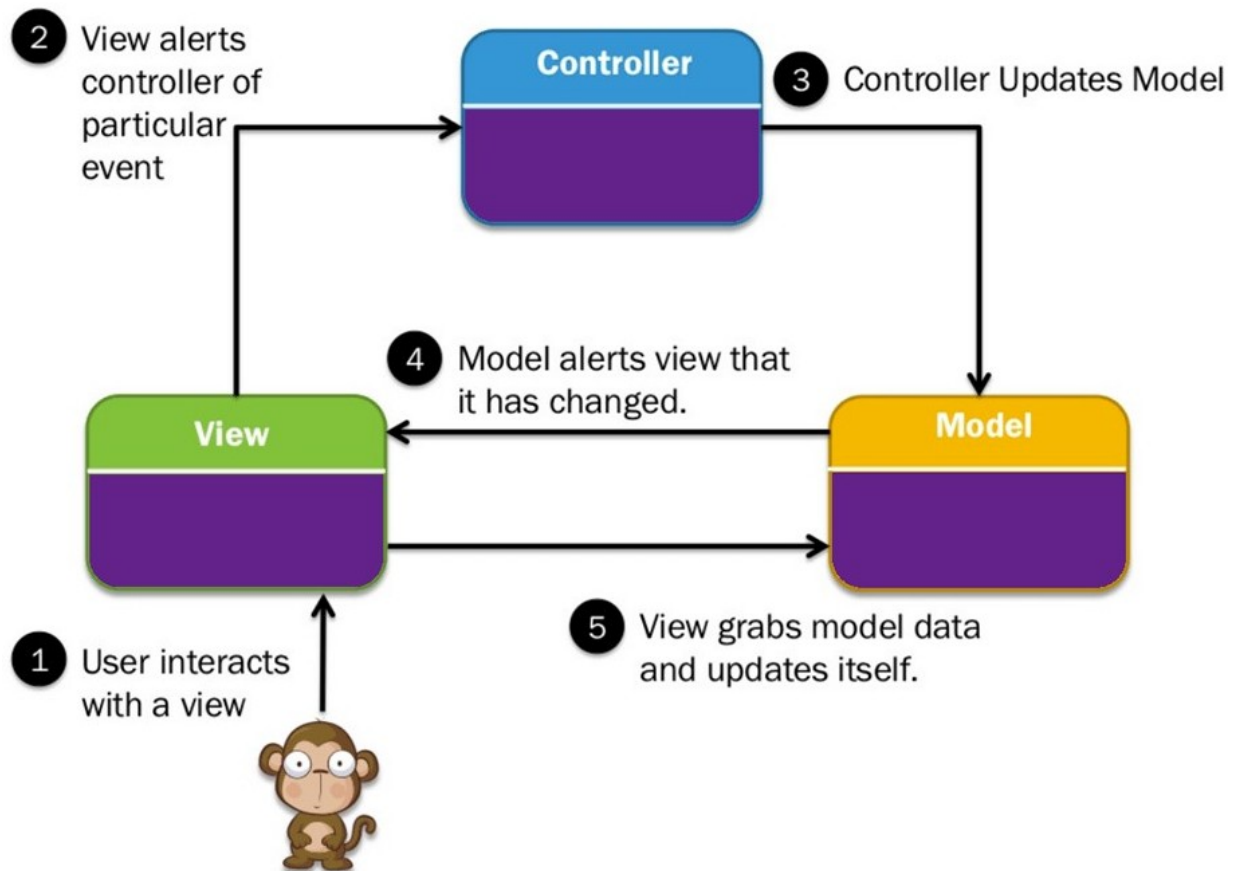
A JSP is a text document which contains two types of text: static data and dynamic data. The static data can be expressed in any text-based format (like HTML, XML, SVG and WML), and the dynamic content can be expressed by JSP elements.

+ *What is MySQL?*

MySQL is an open source relational database management system (RDBMS) with a client-server model. It can run on multi-platform such as Windows, Linux, macOS,... RDBMS is a software or service used to create and manage databases based on a relational model.

+ *What is MVC?*

The **Model-View-Controller (MVC)** framework is an architectural pattern that separates an application into three main logical components Model, View, and Controller. Hence the abbreviation MVC. Each architecture component is built to handle specific development aspect of an application. MVC separates the business logic and presentation layer from each other. It was traditionally used for desktop graphical user interfaces (GUIs). Nowadays, MVC architecture has become popular for designing web applications as well as mobile apps.



MVC Diagram

B. System Configuration

We write the website in Eclipse IDE for Enterprise Java Developers version 2020-12 (4.18.0). The source code can run on every common OS such as Windows, macOS,...

--- Deploy requirement: ---

+ **Eclipse IDE for Enterprise Java Developers version 2020-12 (4.18.0)**

Download link: <https://www.eclipse.org/downloads/packages/>

+ **Apache Tomcat server 9.0.41**

Download link:

<https://downloads.apache.org/tomcat/tomcat-9/v9.0.41/bin/apache-tomcat-9.0.41.zip>

+ **MySQL community server 8.0.22**

Download link: <https://dev.mysql.com/downloads/mysql/>

*** Import Database Instruction**

In MySQL Workbench, create new schema name "gamestore" then run gs_backup.sql script

*** Change DB connection string**

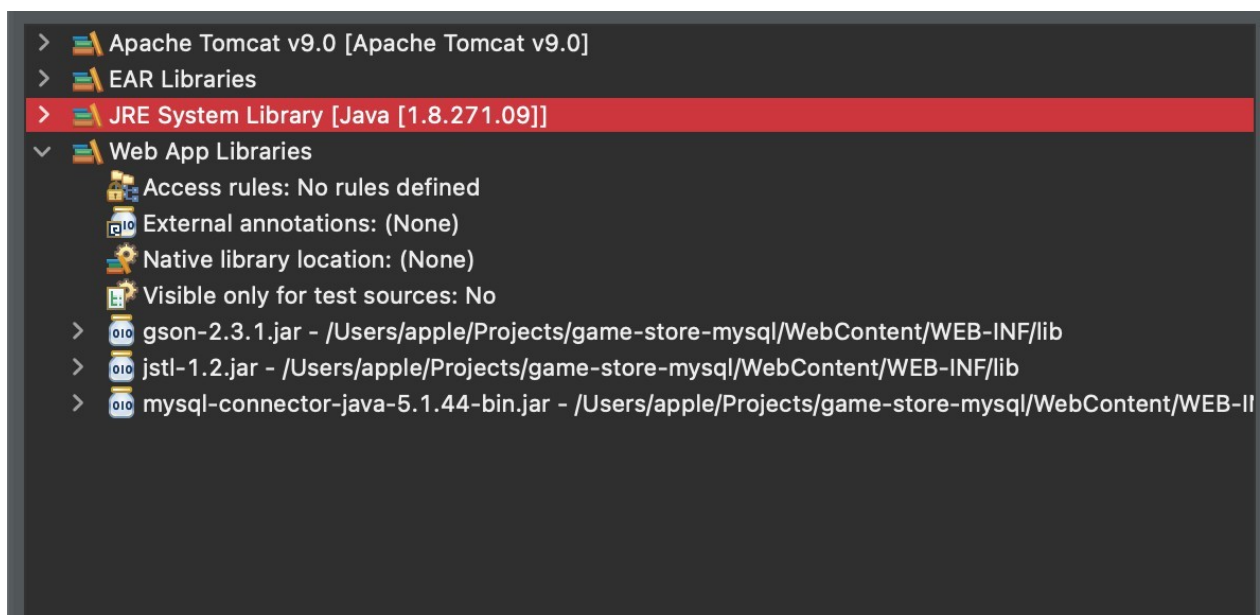
Go to WebContent/META-INF/context.xml and look at line 31, 32 and change to username and password of your local DB

Example:

`url="jdbc:mysql://localhost:3306/gamestore"`

`username="root" password="root"`

*** Deploy web to localhost server such as Apache Tomcat 9.0**



Check project's java build path if it as same as this image

After that export to .war file then copy the file to ./apache-tomcat-9.0.41/webapps, turn on the server in terminal and the project url is localhost:8080/GameSpeedStore

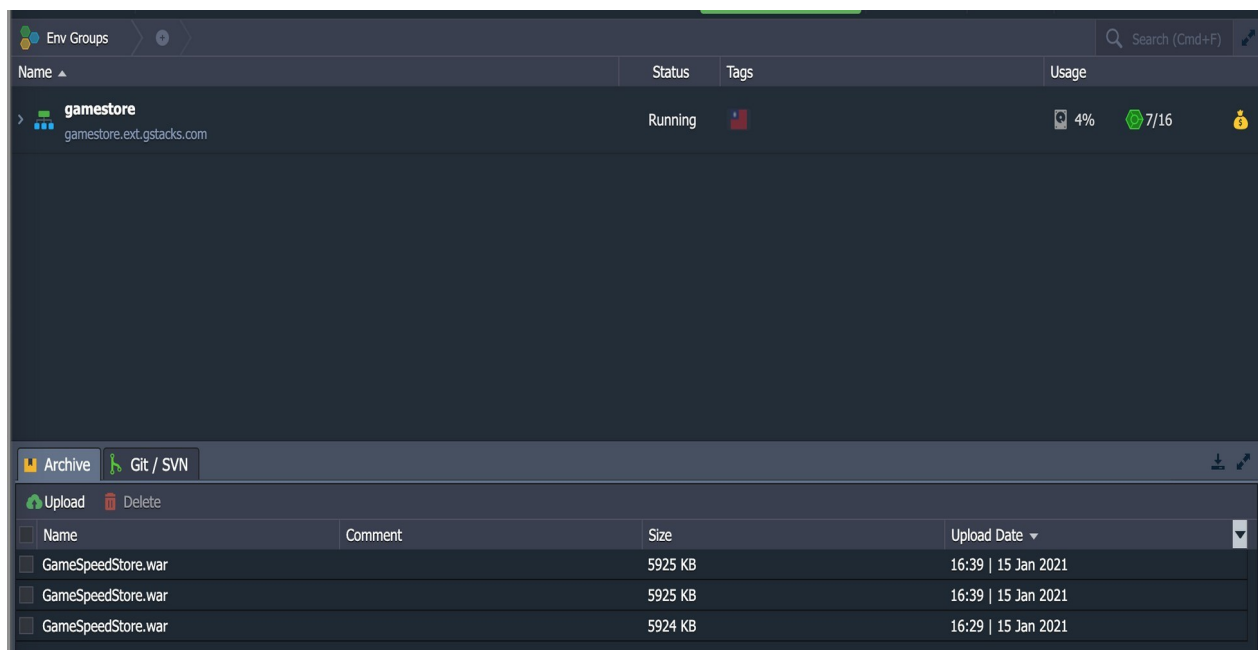
II. Task Distribution

Members:	Task:
Nguyen Quang Minh	Front-End
Dang Thi Kim Ngan	Front-End
Ho Vu Minh Duc	Back-End

III. Project's Detail

Our project is an game and electronic store which user can purchase products and check order details


We deploy the web in Gstack free hosting service, which support java web host by Apache Tomcat with MySQL Database



Project's URL: <http://gr-2-shop.la1.gstacks.com/>

Screenshots below describe mostly our project's details.

Sign In Page

**GAME SPEED**

Register Login

Search...

HomeConsolesAccessoriesGamesTabletsMy Order(0)Cart(0)

User Name:

Password:


User Type

Login

[New User? Register here!](#)

© Game Speed Store.

Sign Up Page

**GAME SPEED**

Register Login

Search...

HomeConsolesAccessoriesGamesTabletsMy Order(0)Cart(0)

User Name:

Password:

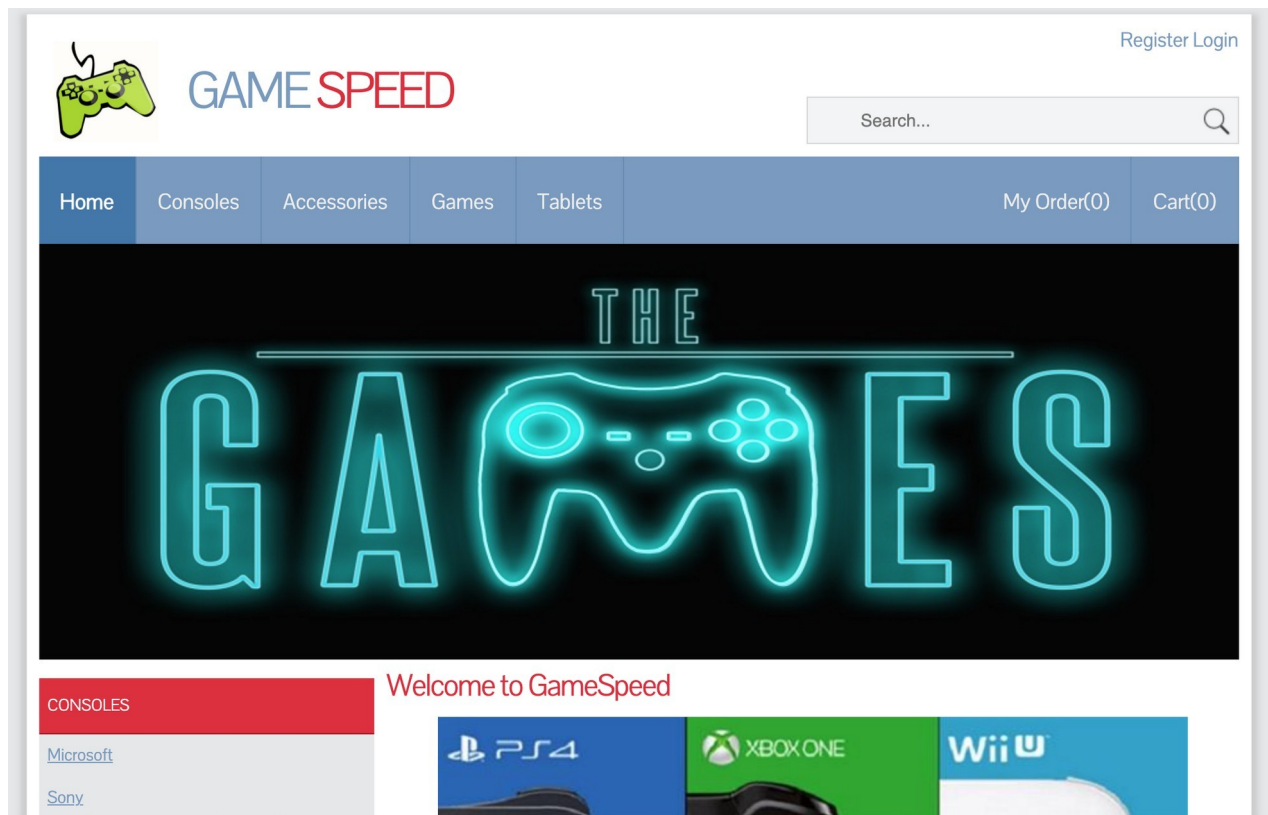
Re-Password:

User Type

Register

© Game Speed Store.


Homepage



The homepage will be showed whenever we have an account or not, or logged in by distinguished account type.

The Homepage has the Register, Login/Logout, My Order and Cart button, with product categories navigation

My Order Page


GAME SPEED

Hello, Admin Logout

[Home](#)
[Consoles](#)
[Accessories](#)
[Games](#)
[Tablets](#)
[Accessory](#)
[Game](#)
[My Order\(1\)](#)
[Cart\(0\)](#)

CONSOLES
[Microsoft](#)
[Sony](#)
[Nintendo](#)

GAMES
[Electronic Arts](#)
[Activision](#)
[Take-Two Interactive](#)

TABLETS
[Apple](#)

My Orders

Order Id: 9

Customer Name: admin

Address: 1st Jackson Ave,Chicago,IL


Confirmation Number: admin41547498

Delivery Date: 2021-01-30 12:00:00

Cancel Order

No.	Name	Price	Quantity	SubTotal
1	Controller	\$36.00	1	\$36.00
2	Disc Remote Control	\$22.49	1	\$22.49
Total				\$58.49

In this search page, we can search the name of the product we want.


GAME SPEED

Register Login

[Home](#)
[Consoles](#)
[Accessories](#)
[Games](#)
[Tablets](#)


PS3
PS4

CONSOLES
[Microsoft](#)
[Sony](#)
[Nintendo](#)

GAMES
[Electronic Arts](#)
[Activision](#)
[Take-Two Interactive](#)

TABLETS
[Apple](#)

Product Search Result




PS3

~~\$219.00~~ \$197.10

Add to Cart

Reviews



PS4


~~\$349.00~~ \$314.10

Add to Cart

Reviews

Search page

User management page



GAME SPEED

Search...

Home Consoles Accessories Games Tablets All Order(1) **User(6)** My Order(0) Cart(0)

CONSOLES

[Microsoft](#)

[Sony](#)

[Nintendo](#)

GAMES

[Electronic Arts](#)

[Activision](#)

[Take-Two Interactive](#)

TABLETS

[Apple](#)

[Microsoft](#)


User List

Create New User

No.	User Name	User Type	Management
1	customer	customer	Edit Delete
2	storemanager	storemanager	Edit Delete
3	salesman	salesman	Edit Delete
4	user	customer	Edit Delete
5	admin	storemanager	Edit Delete
6	sale	salesman	Edit Delete

In user management, salesman user type can edit info and grant admin access to any user

Order management page



GAME SPEED

Search...

Home Consoles Accessories Games Tablets All Order(1) **User(6)** My Order(0) Cart(0)

CONSOLES

[Microsoft](#)

[Sony](#)

[Nintendo](#)

GAMES

[Electronic Arts](#)

[Activision](#)

[Take-Two Interactive](#)

All Orders

Create New Order

Order Id	Customer Name	Delivery Date	Management
9	admin	2021-01-30 12:00:00	Edit Delete

In order management page, salesman user type can check detail of orders and toggle delivered status to them

IV. References

Our lecturer's materials on FHQ and video on Youtube, Google.

V. Resource

Source code:

<https://github.com/SmithWinter/GameSpeedStore>

Web hosting guide:

<https://ngockhuong.com/java/huong-dan-upload-deploy-web-java-jsp-servlet-len-hosting-jelastic-phan-1-dang-ky-khoi-tao.html>

<https://ngockhuong.com/java/huong-dan-upload-deploy-web-java-jsp-servlet-len-hosting-jelastic-phan-2-config-project-va-upload-web-len-host.html>