

# Java Web Development Basics

## Exam

## Heroes

Exam for the [“Java Web Development Basics” course @ SoftUni](#). Submit your solutions on the course page, so that you can be evaluated by your fellow colleagues.

**Heroes** is an application for job offers. You have been tasked to implement this application for an unusually low price, by an unusually rich client. There are several requirements you must follow in the implementation.

### 1. Database Requirements

The **Database** of the **Heroes** application needs to support **2 entities**:

#### User

- Has an **Id** – **UUID-string**
- Has a **Username**
- Has a **Password**
- Has an **Email**
- Has a **Country**

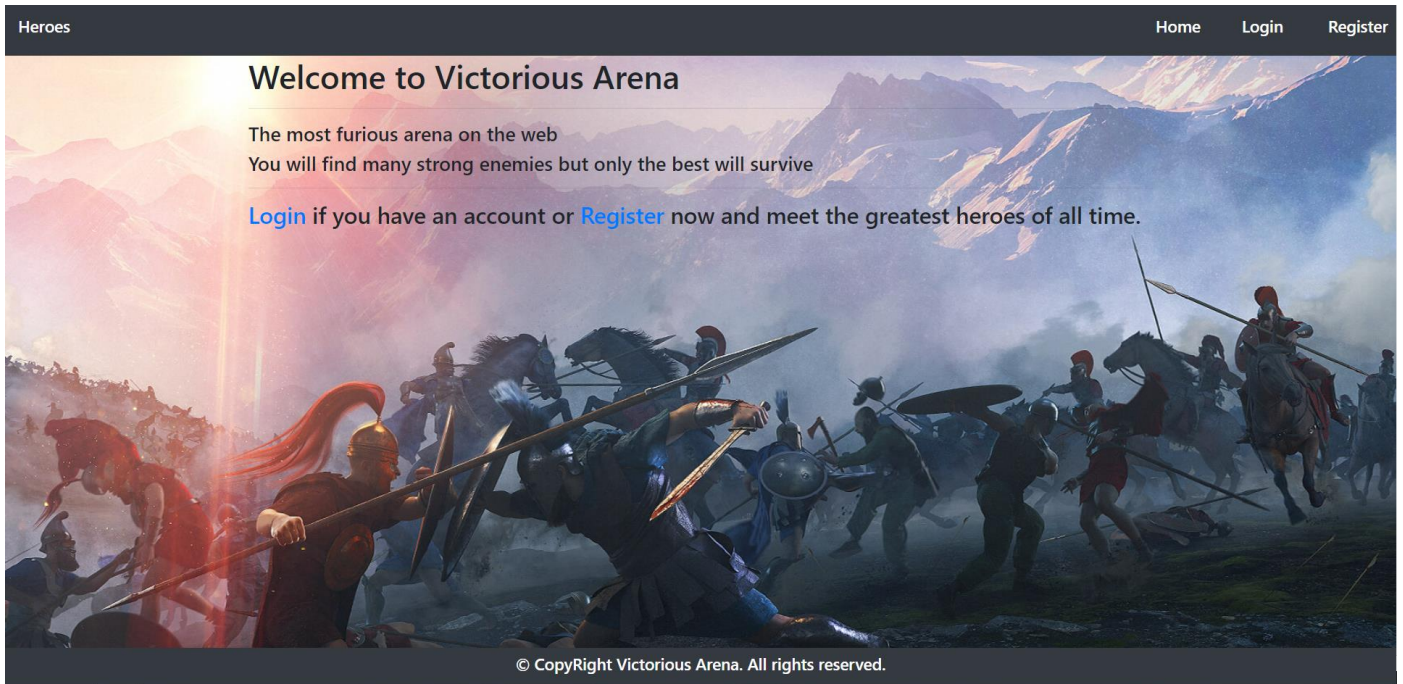
#### Hero

- Has an **Id** – **UUID-string**
- Has a **Name**
- Has a **Class** – option between (Warrior, Archer, Mage)
- Has a **Level**

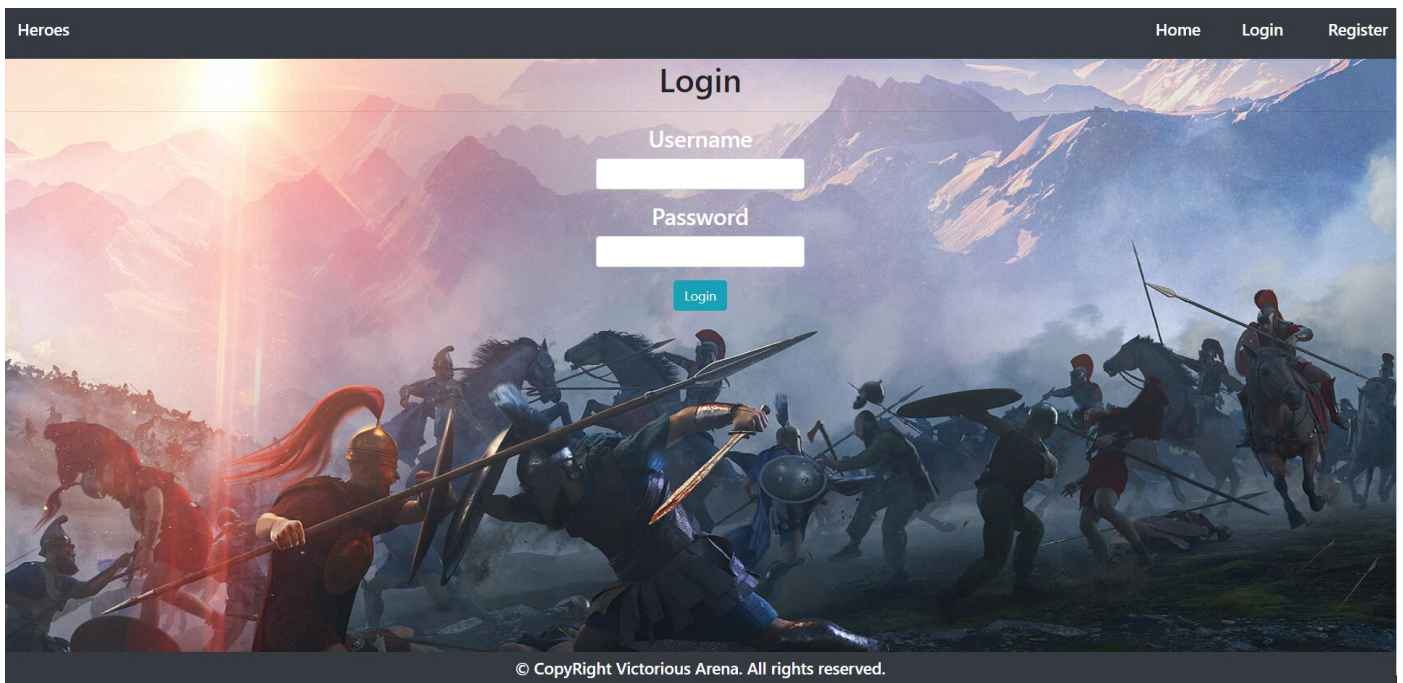
Implement the entities with the **correct datatypes** and implement **repositories** for them.

## Page Requirements

### Index Page (logged out user)



### Login Page (logged out user)





# Register Page (logged out user)

Heroes

HomeLoginRegister

Register

Username

Email

Password

Confirm Password

Country

Register


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# Home Page (logged in user)

Heroes

HomeCreate HeroLogout


Welcome to the arena, \$(username)



SoulTaker

Details


Delete



MindControl

Details

Delete




Devil










Details

Delete

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## Add Hero (logged in user)

[Heroes](#)[Home](#)[Create Hero](#)[Logout](#)

### Create Hero

Hero Name

Hero Class

Warrior

Level

Create Hero

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## Hero Details Page (logged in user)

[Heroes](#)[Home](#)[Create Hero](#)[Logout](#)

### Hero Details

Name

SoulTaker

Class

warrior

Level

75

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## Hero Delete Page (logged in user)

Heroes Home Create Hero Logout

### Delete Hero

Name  
SoulTaker

Hero class  
warrior

Level  
75

Delete Hero

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The templates have been given to you in the application skeleton, so make sure you implement the pages correctly.

**NOTE:** The templates should look **EXACTLY** as shown above.

**NOTE:** The templates do **NOT** require additional CSS for you to write. Only **bootstrap** and the **given css** are enough.

## Functional Requirements

The **Functionality Requirements** describe the functionality that the **Application** must support.

The **application** should provide **Guest** (not logged in) users with the functionality to **login**, **register** and **view** the **Index** page.

The **application** should provide **Users** (logged in) with the functionality to **logout**, **create a Hero**, **view details** about a **Hero**, **delete a Hero**, and **view all Heroes ordered by level descending**(Home page). When you are at **Home Page** you should show "Welcome to the arena, " + current user, **username**.

**Heroes button** in navbar should redirect to appropriate **URL depending** on that if the user is logged in.

The **application** should provide **functionality** for **adding heroes** with **only 3 classes** – “**Warrior**”, “**Archer**” and “**Mage**”.

The **application** should **store** its **data** into a **MySQL** database, using **Hibernate** native.

## Security Requirements

The **Security Requirements** are mainly access requirements. Configurations about which users can access specific functionalities and pages.

- **Guest** (not logged in) users can access **Index** page.
- **Guest** (not logged in) users can access **Login** page.
- **Guest** (not logged in) users can access **Register** page.
- **Users** (logged in) can access **Home** page.
- **Users** (logged in) can access **Hero Details** page.

- **Users** (logged in) can access **Hero Delete** page.
- **Users** (logged in) can access **Add Hero** page.
- **Users** (logged in) can access **Logout** functionality.

## Scoring

**Database – 10 points.**

**Pages – 30 points.**

**Functionality – 40 points.**

**Security – 10 points.**

**Code Quality – 10 points.**