SpringBoot_Upgrading Registration Form In Spring Boot

Account Model

```
package org.studyeasy.SpringBlog.models;


import java.util.HashSet;
import java.util.List;
import java.util.Set;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.OneToMany;
import javax.validation.constraints.Email;
import javax.validation.constraints.NotEmpty;

import lombok.Getter;
import lombok.NoArgsConstructor;
import lombok.Setter;

@Entity
@Getter
@Setter
@NoArgsConstructor
public class Account {
    @Id
    @GeneratedValue(strategy = GenerationType.SEQUENCE)
    private Long id;

    @Email(message = "Invalid email")
    @NotEmpty(message = "Email missing")
    private String email;

    @NotEmpty(message = "Missing password")
    private String password;

    private String firstname;

    private String lastname;
```

```
    private String role;

    @OneToMany(mappedBy = "account")
    private List<Post> posts;

    @ManyToMany
    @JoinTable(
        name="account_authority",
        joinColumns = {@JoinColumn(name="account_id", referencedColumnName =
"id")},
        inverseJoinColumns = {@JoinColumn(name = "authority_id",
referencedColumnName = "id")})
    private Set<Authority> authorities = new HashSet<>();
}
```

Add below properties

1. Dropdown – Gender

```
private String gender;
```

2.Age – Number

```
 private int age;
```

3.Date Of Birth – LocalDate

```
 @DateTimeFormat(pattern = "yyyy-MM-dd")
 private LocalDate date_of_birth;
```

4.Photo

```
 private String photo;
```

```
 @Value("${spring.mvc.static-path-pattern}")
 private String photo_prefix;
```

Updated code of Account.java -> Model

```java
package org.studyeasy.SpringBlog.models;


import java.time.LocalDate;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.JoinTable;
import javax.persistence.ManyToMany;
import javax.persistence.OneToMany;
import javax.validation.constraints.Email;
import javax.validation.constraints.Max;
import javax.validation.constraints.Min;
import javax.validation.constraints.NotEmpty;

import org.springframework.format.annotation.DateTimeFormat;

import lombok.Getter;
import lombok.NoArgsConstructor;
import lombok.Setter;

@Entity
@Getter
@Setter
@NoArgsConstructor
public class Account {
    @Id
    @GeneratedValue(strategy = GenerationType.SEQUENCE)
    private Long id;

    @Email(message = "Invalid email")
    @NotEmpty(message = "Email missing")
    private String email;

    @NotEmpty(message = "Missing password")
    private String password;
```

```
    @NotEmpty(message = "Missing firstname")
    private String firstname;

    @NotEmpty(message = "Missing lastname")
    private String lastname;

    private String gender;

    @Min(value=18)
    @Max(value=99)
    private int age;

    @DateTimeFormat(pattern = "yyyy-MM-dd")
    private LocalDate date_of_birth;

    private String photo;

    private String role;

    @OneToMany(mappedBy = "account")
    private List<Post> posts;

    @ManyToMany
    @JoinTable(
        name="account_authority",
        joinColumns = {@JoinColumn(name="account_id", referencedColumnName =
"id")},
        inverseJoinColumns = {@JoinColumn(name = "authority_id",
referencedColumnName = "id")})
    private Set<Authority> authorities = new HashSet<>();

}
```

Updated code of AccountService.java

```
@Value("${spring.mvc.static-path-pattern}")
private String photo_prefix;
```

```
 public Account save(Account account){
        account.setPassword(passwordEncoder.encode(account.getPassword()));
        if (account.getRole() == null){
            account.setRole(Roles.USER.getRole());
```

```
        }
        if (account.getPhoto() == null){
            String path = photo_prefix.replace("**", "images/person.png");
            account.setPhoto(path);
        }
        return accountRepository.save(account);
    }
```

Image Condition

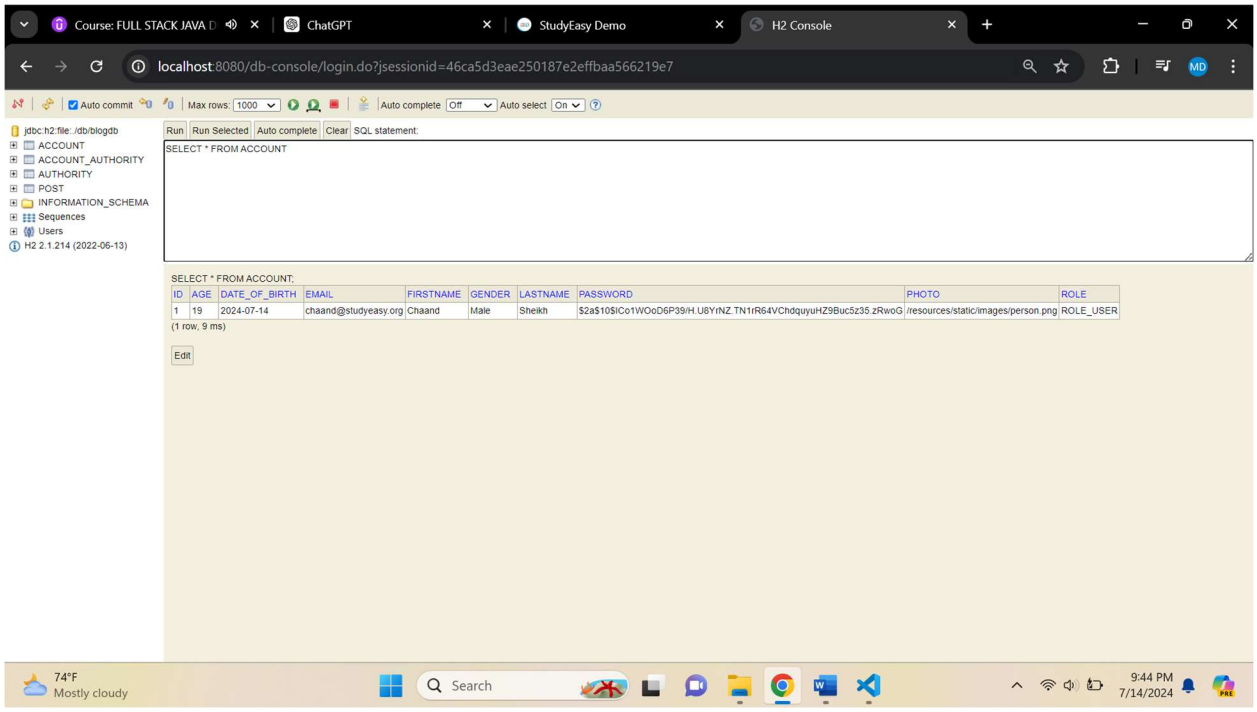
Date Problem

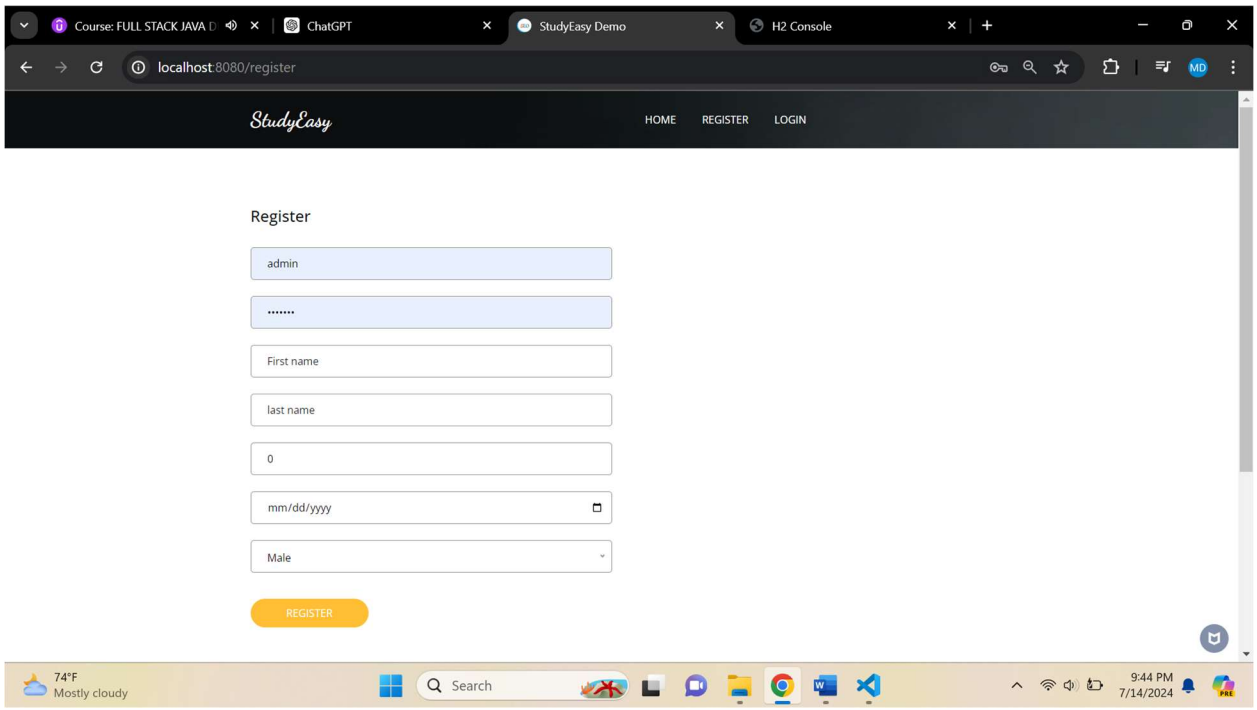
Change the type to date

```
 <div>
    <input id="date_of_birth" type="date" th:field="*{date_of_birth}"
class="form-control" placeholder="Date of Birth" />
    <p th:if="${#fields.hasErrors('date_of_birth')}" th:errors="*{date_of_birth}"
class="alert alert-danger" role="alert">date of birth Error</p>
</div>
```

Client-Side Validations will help to speed up application – required attribute

Output


Course: FULL STACK JAVA D
ChatGPT
StudyEasy Demo
H2 Console
localhost:8080/db-console/login.do?jsessionid=46ca5d3eae250187e2effbaa566219e7
Auto commit
Max rows: 1000
Auto complete Off
Auto select On
jdbc:h2:file:./db/blogdb
ACCOUNT
ACCOUNT_AUTHORITY
AUTHORITY
POST
INFORMATION_SCHEMA
Sequences
Users
H2 2.1.214 (2022-06-13)
Run
Run Selected
Auto complete
Clear
SQL statement:
SELECT * FROM ACCOUNT
SELECT * FROM ACCOUNT;
ID AGE DATE_OF_BIRTH EMAIL FIRSTNAME GENDER LASTNAME PASSWORD PHOTO ROLE
1 19 2024-07-14 chaand@studyeasy.org Chaand Male Sheikh $2a$10$ICo1WOoD6P39/H.U8YrNZ.TN1rR64VChdquyuHZ9Buc5z35.zRwoG /resources/static/images/person.png ROLE_USER
(1 row, 9 ms)
Edit
74°F
Mostly cloudy
Search
9:44 PM
7/14/2024


Course: FULL STACK JAVA D
ChatGPT
StudyEasy Demo
H2 Console
localhost:8080/register
StudyEasy
HOME
REGISTER
LOGIN
Register
admin
First name
last name
0
mm/dd/yyyy
Male
REGISTER
74°F
Mostly cloudy
Search
9:44 PM
7/14/2024

Updated code of register.html

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">

  <head th:replace="/fragments/head :: head">

<body class="sub_page">

  <div class="hero_area">
    <div class="bg-box">
      <img th:src="@{/resources/static/images/nav-bg.jpg}" alt="">
    </div>
    <header th:replace="/fragments/header :: header">
  </div>

 <!-- book section -->
 <section class="book_section layout_padding">
    <div class="container">
      <div class="heading_container">
        <h4>
         Register
        </h4>
      </div>
      <div class="row">
        <div class="col-md-6">
          <div class="form_container">
            <form action="#"
                th:action="@{/register}"
                th:object="${account}"
                method="post">
              <div>
                <input id="email" name="email" type="text" th:field="*{email}"
class="form-control" placeholder="Email" required/>
                <p th:if="${#fields.hasErrors('email')}" th:errors="*{email}"
class="alert alert-danger" role="alert">Email Error</p>
              </div>
              <div>
                <input id="password" type="password" th:field="*{password}"
class="form-control" placeholder="Password" required/>
                <p th:if="${#fields.hasErrors('password')}"
th:errors="*{password}" class="alert alert-danger" role="alert">password
Error</p>
              </div>
              <div>
```

```
                <input id="firstname" type="text" th:field="*{firstname}"
class="form-control" placeholder="First name" required/>
                <p th:if="${#fields.hasErrors('firstname')}"
th:errors="*{firstname}" class="alert alert-danger" role="alert">firstname
Error</p>
              </div>
              <div>
                <input id="lastname" type="text" th:field="*{lastname}"
class="form-control" placeholder="last name" required />
                <p th:if="${#fields.hasErrors('lastname')}"
th:errors="*{lastname}" class="alert alert-danger" role="alert">lastname
Error</p>
              </div>
              <div>
                <input id="age" type="number" th:field="*{age}" class="form-
control" placeholder="age" min="18" max="99" required/>
                <p th:if="${#fields.hasErrors('age')}" th:errors="*{age}"
class="alert alert-danger" role="alert">age Error</p>
              </div>
              <div>
                <input id="date_of_birth" type="date" th:field="*{date_of_birth}"
class="form-control" placeholder="Date Of Birth" required/>
                <p th:if="${#fields.hasErrors('date_of_birth')}"
th:errors="*{date_of_birth}" class="alert alert-danger" role="alert">date of
birth Error</p>
              </div>
              <div>
                <select id="gender" name="gender" th:field="*{gender}"
class="form-control">
                  <option value="Male">Male</option>
                  <option value="Female">Female</option>
                  <option value="Others">Others</option>
                </select>
                <p th:if="${#fields.hasErrors('gender')}" th:errors="*{gender}"
class="alert alert-danger" role="alert">gender Error</p>
              </div>
              <div class="btn_box">
                <button type="submit">
                  Register
                </button>
              </div>
            </form>
          </div>
        </div>
    </div>
```

```
  </section>
  <!-- end book section -->
  <footer th:replace="/fragments/footer :: footer">
</body>

</html>
```