SpringBoot – Handle Reset Password and Token Generation

Account.java – Add below code

```
//Adding 2 columns - Account Table to database - Token Generation - UUID
//URL : https://www.uuidgenerator.net/
private String password_reset_token;

private LocalDateTime password_reset_token_expiry;
```

Account Controller – Add these 2 lines like to below code

```
@PostMapping("/reset-password")
    public String reset_password(@RequestParam("email") String _email,
RedirectAttributes attributes, Model model) {
        Optional<Account> optional_account =
accountService.findOneByEmail(_email);
        if (optional_account.isPresent()) {
            Account account =
accountService.findById(optional_account.get().getId()).get();

            //UUID Token Generation
            String reset_token = UUID.randomUUID().toString();
            account.setPassword_reset_token(reset_token);
            account.setPassword_reset_token_expiry(LocalDateTime.now().plusMinute
s(password_token_timeout));

            accountService.save(account);
            attributes.addFlashAttribute("message", "Password reset email sent");
            return "redirect:/login";

        } else {
            attributes.addFlashAttribute("error", "No user found with the email
supplied");
            return "redirect:/forgot-password";

        }

    }
```

Code 2

```
@Value("${password.token.reset.timeout.minutes}")
private int password_token_timeout;
```

In application.properties -> add below code

```
# Application settings - Handle reset password and token generation
password.token.reset.timeout.minutes=600
```

Add these 2 lines for the flash message in front end

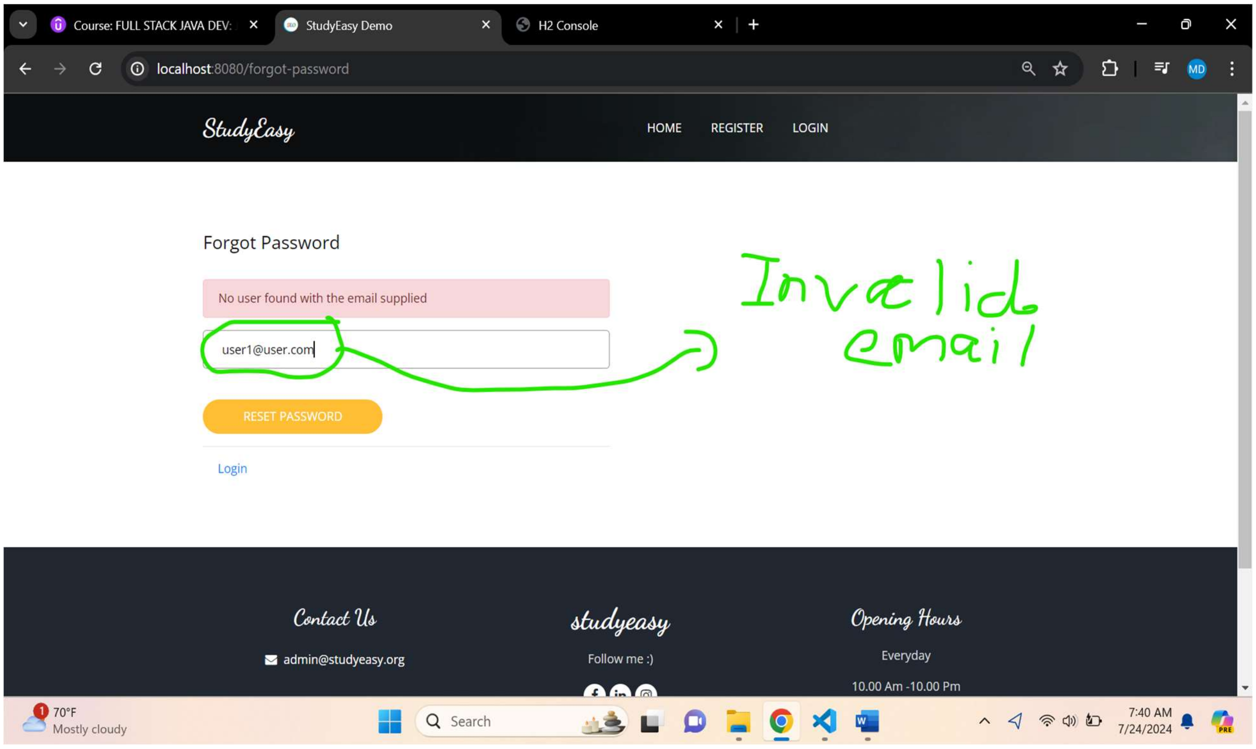
forgot-password.html

```
<!--Error Message-->
<p th:text="${error}" th:if="${error ne null}" class="alert alert-danger"></p>
```

```
<!—Success Message-->
<p th:text="${message}" th:if="${message ne null}" class="alert alert-
primary"></p>
```

Output

Case 1: Invalid email – After button click, it will go to forgot password page



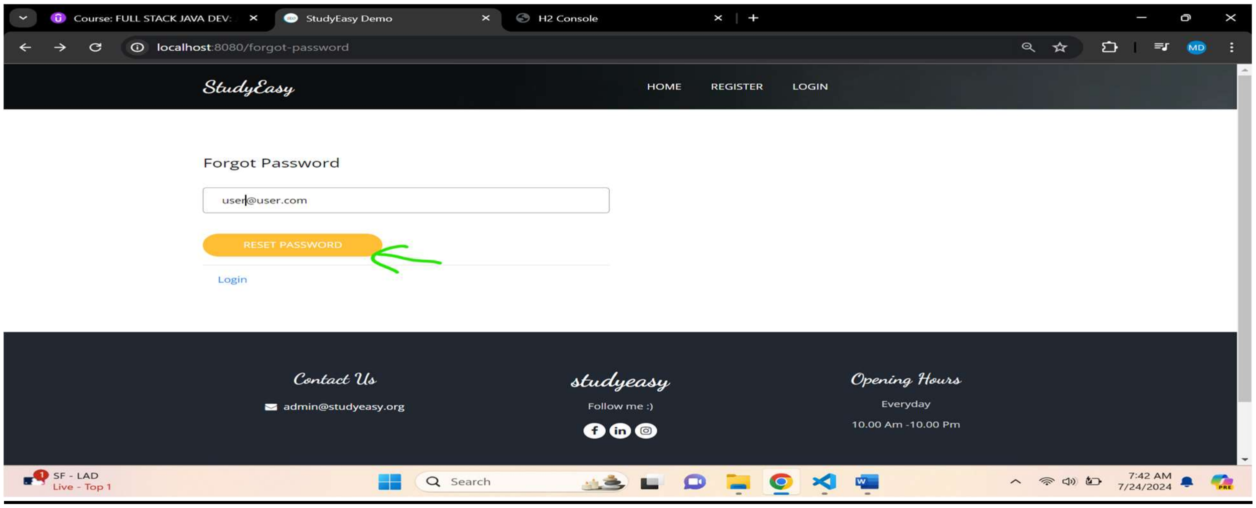
Forgot Password

No user found with the email supplied

user1@user.com

Invalid email

Case 2: Valid email – After button click, it will go to login page

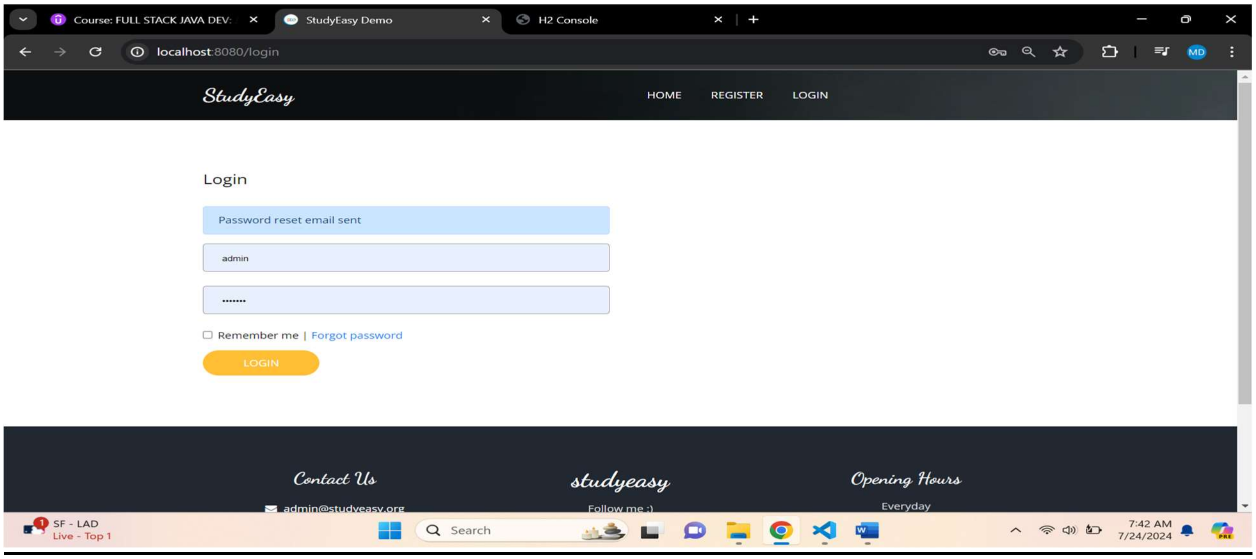


Forgot Password

user@user.com

RESET PASSWORD

Login



Login

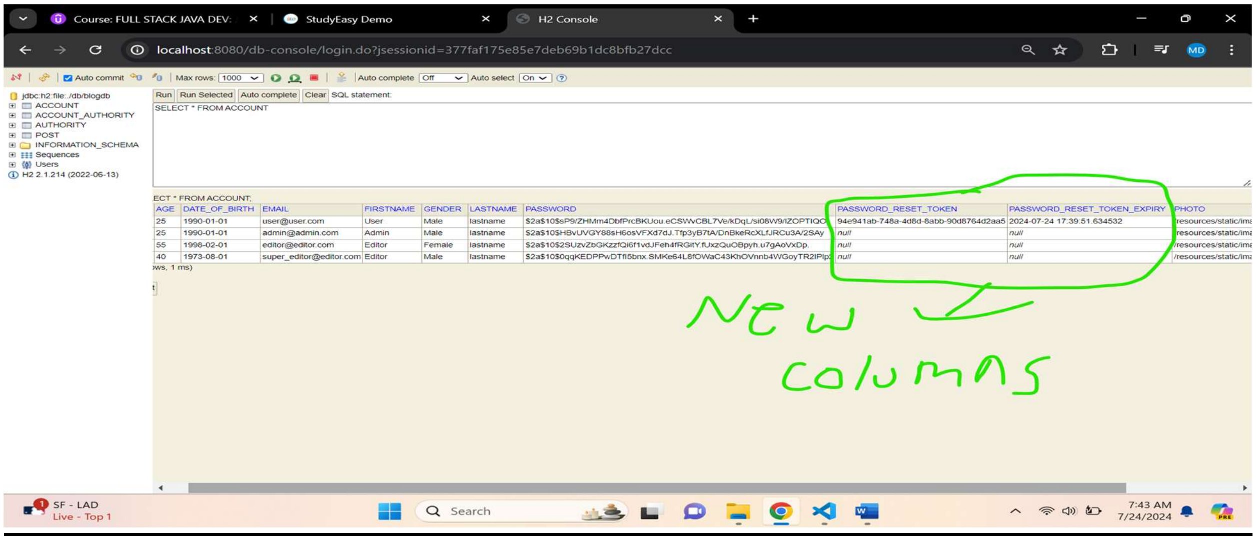
Password reset email sent

admin

•••••••

□ Remember me | Forgot password

LOGIN



```
SELECT * FROM ACCOUNT
```

ECT * FROM ACCOUNT;

AGE	DATE_OF_BIRTH	EMAIL	FIRSTNAME	GENDER	LASTNAME	PASSWORD	PASSWORD_RESET_TOKEN	PASSWORD_RESET_TOKEN_EXPIRY	PHOTO
25	1990-01-01	user@user.com	User	Male	lastname	$2a$10$sP9/ZHMm4DbfPrcBKUou.eCSWvCBL7Ve/kDqL/si08W9/lZOPTIQO	94e941ab-748a-4d8d-8abb-90d8764d2aa5	2024-07-24 17:39:51.634532	/resources/static/ima
25	1990-01-01	admin@admin.com	Admin	Male	lastname	$2a$10$HBvUVGY88sH6osVFXd7dJ.Tfp3yB7tA/DnBkeRcXLfJRCu3A/2SAy	null	null	/resources/static/ima
55	1998-02-01	editor@editor.com	Editor	Female	lastname	$2a$10$2SUzvZbGKzzfQi6f1vdJFeh4fRGitY.fUxzQuOBpyh.u7gAoVxDp.	null	null	/resources/static/ima
40	1973-08-01	super_editor@editor.com	Editor	Male	lastname	$2a$10$0qqKEDPPwDTfl5bnx.SMKe64L8fOWaC43KhOVnnb4WGoyTR2lPlp	null	null	/resources/static/ima

ws, 1 ms)

New columns