Submission Worksheet

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https://learn.ethereallab.app/assignment/IT202-008-S2024/it202-milestone-1-2024/grade/na569

IT202-008-S2024 - [IT202] Milestone 1 2024

Submissions:

Submission Selection

1 Submission [active] 4/1/2024 1:20:44 PM

Instructions

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Prereqs:

- Go through each lesson from "Project Setup and SQL" to "User Login Enhancement" and follow the branching names while gathering the code
    - Merge each into Milestone1 branch
    - Mark the related GitHub Issues items as "done"
- Implement your own custom CSS (something much different than the default "ugly" CSS given as an example)
    - Consider styling all forms/inputs, data output, navigation, etc
- Implement JavaScript validation on Register, Logout, and Profile (include "[Client]" in the output messages to differentiate between server-side validations)

Instructions:

1. Make sure you're in Milestone1 with the latest changes pulled
2. Ensure Milestone1 has been deployed to heroku dev
3. Gather the requested evidence and fill in the explanations per each prompt
4. Save the submission and generate the output PDF
5. Put the output PDF into your local repository folder
6. add/commit/push it to GitHub
7. Merge Milestone1 into dev
8. Locally checkout dev and pull the changes
9. Create and merge a pull request from dev to prod to deploy Milestone1 to prod
10. Upload this output PDF to Canvas

Branch name: Milestone1

Tasks: 26 Points: 10.00

User Registration (2 pts.)

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Task #1 - Points: 1

Text: Screenshot of form on website page

Checklist

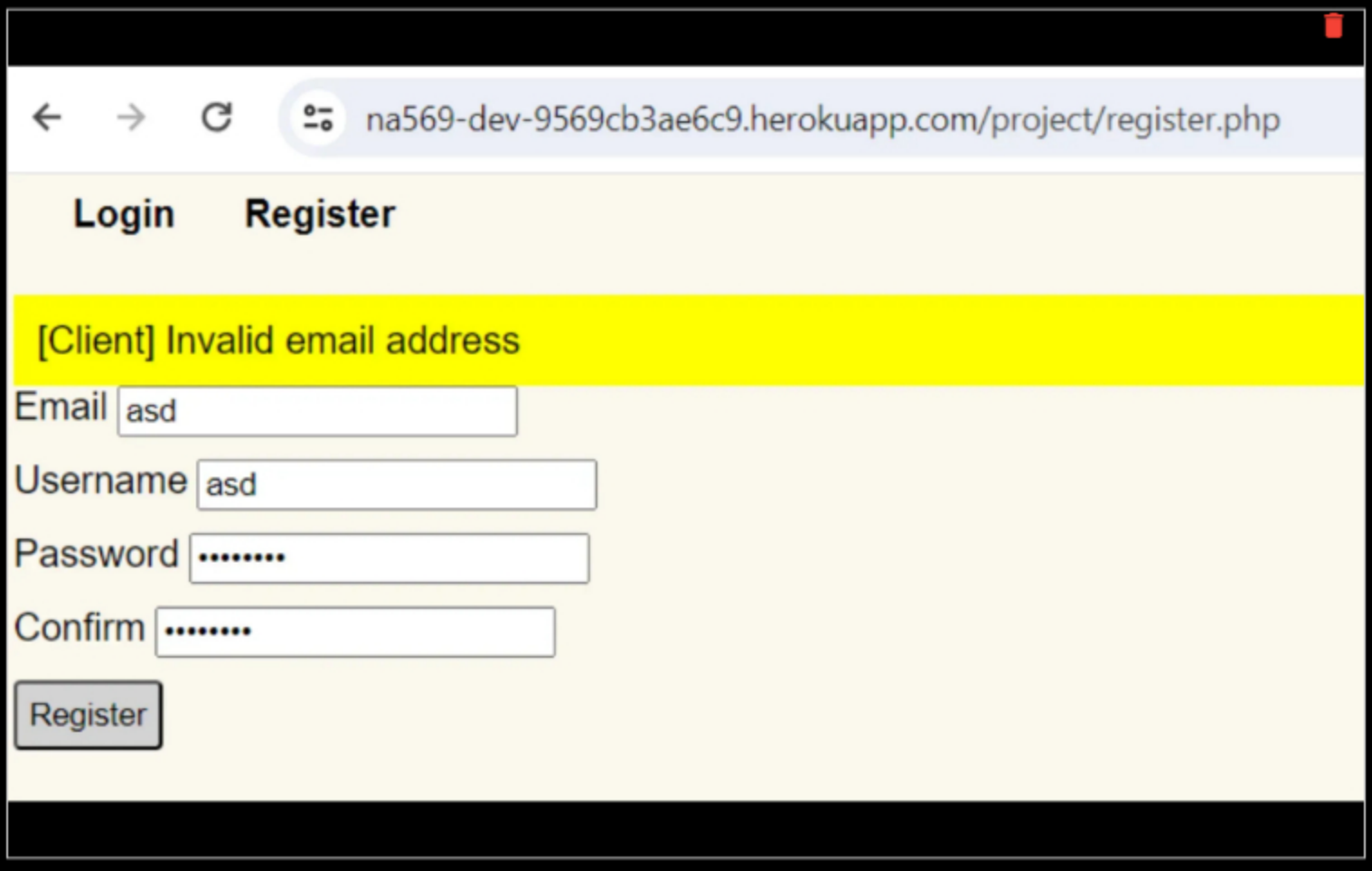
*The checkboxes are for your own tracking

#	Points	Details
#1	1	Heroku dev url should be present in the address bar
#2	1	Should have thoughtful CSS applied
#3	1	Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required
#4	1	Demonstrate email already in use message (message text doesn't need to be exact, but should be clear)
#5	1	Demonstrate username already in use message (message text doesn't need to be exact, but should be clear)
#6	1	Demonstrate user-friendly message of new account being created

Task Screenshots:

Gallery Style: Large View

Small Medium Large



email validation

Checklist Items (3)

#1 Heroku dev url should be present in the address bar

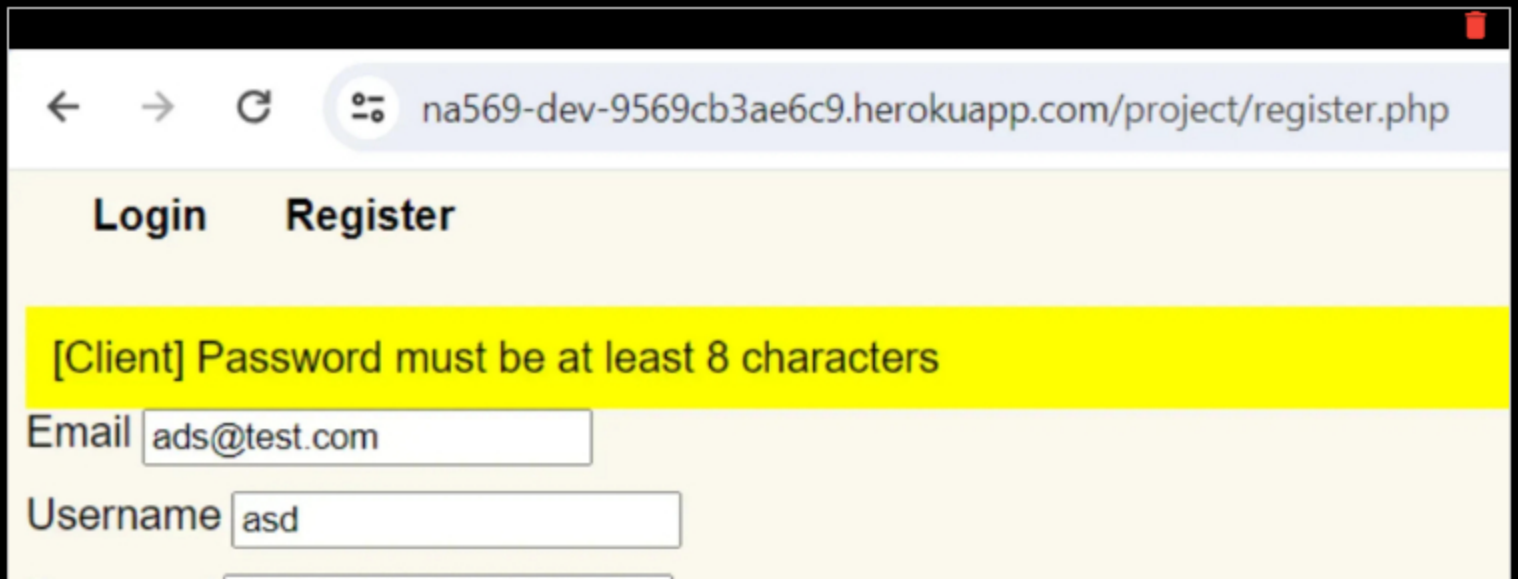
#2 Should have thoughtful CSS applied

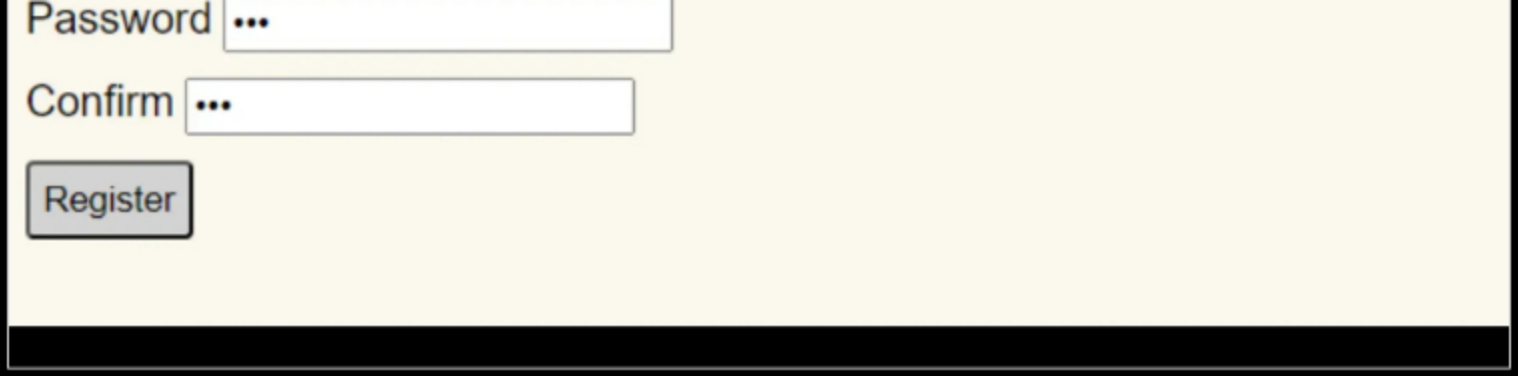
#3 Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required

username validation

Checklist Items (1)

#3 Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required

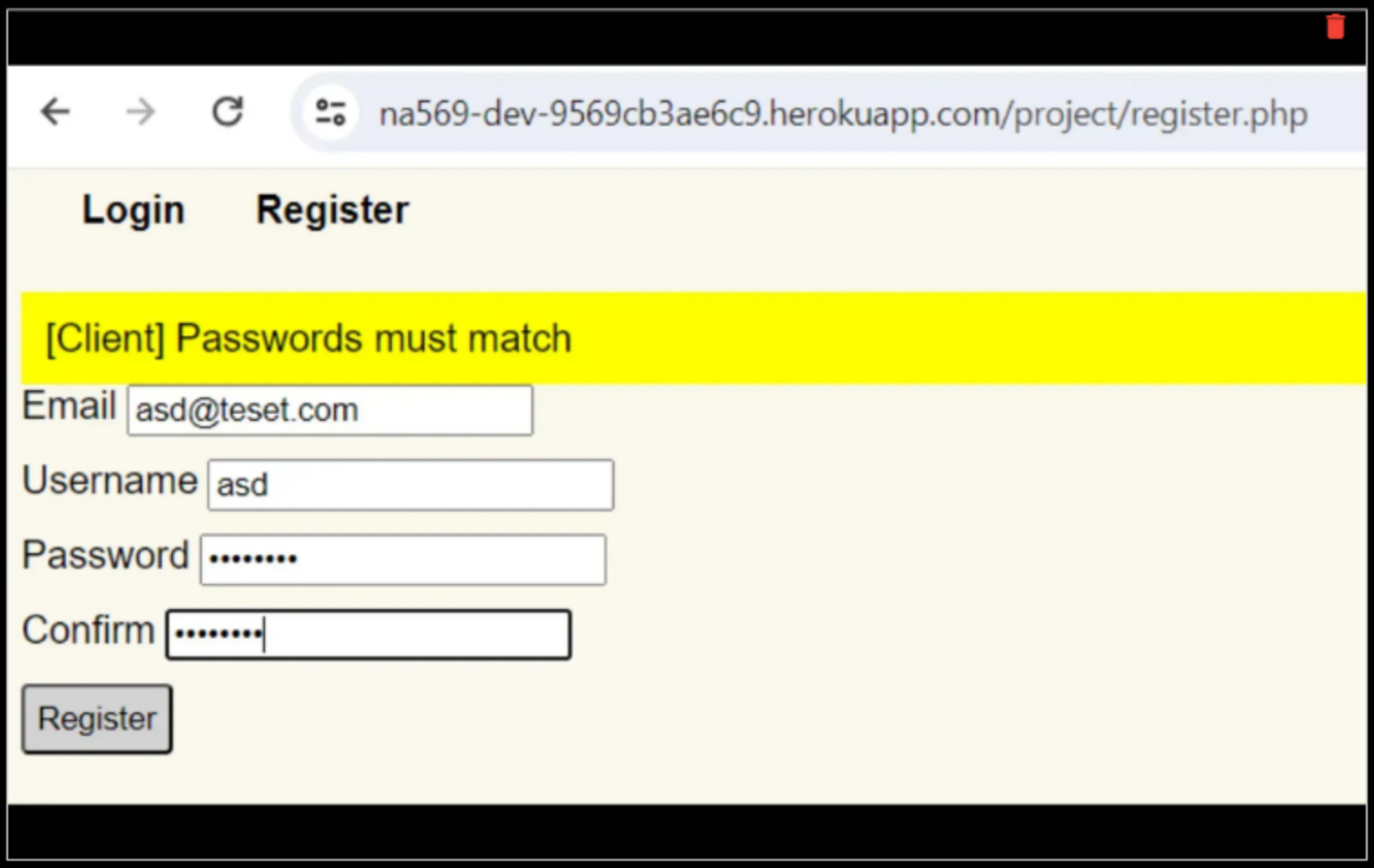




password must be at least 8 characters

Checklist Items (1)

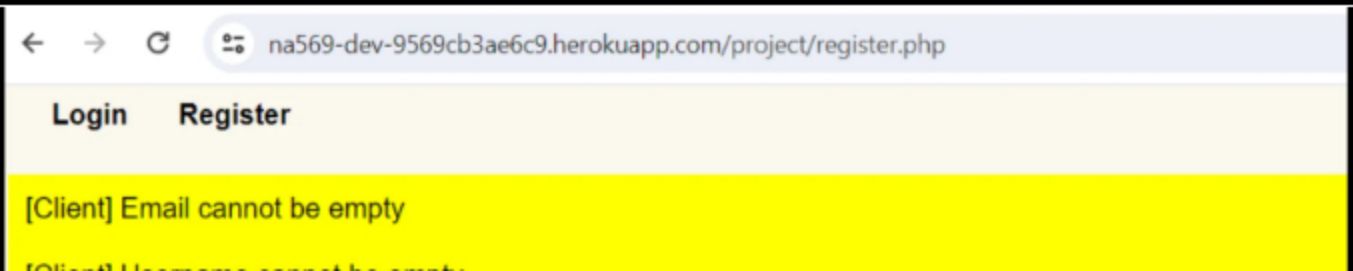
#3 Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required

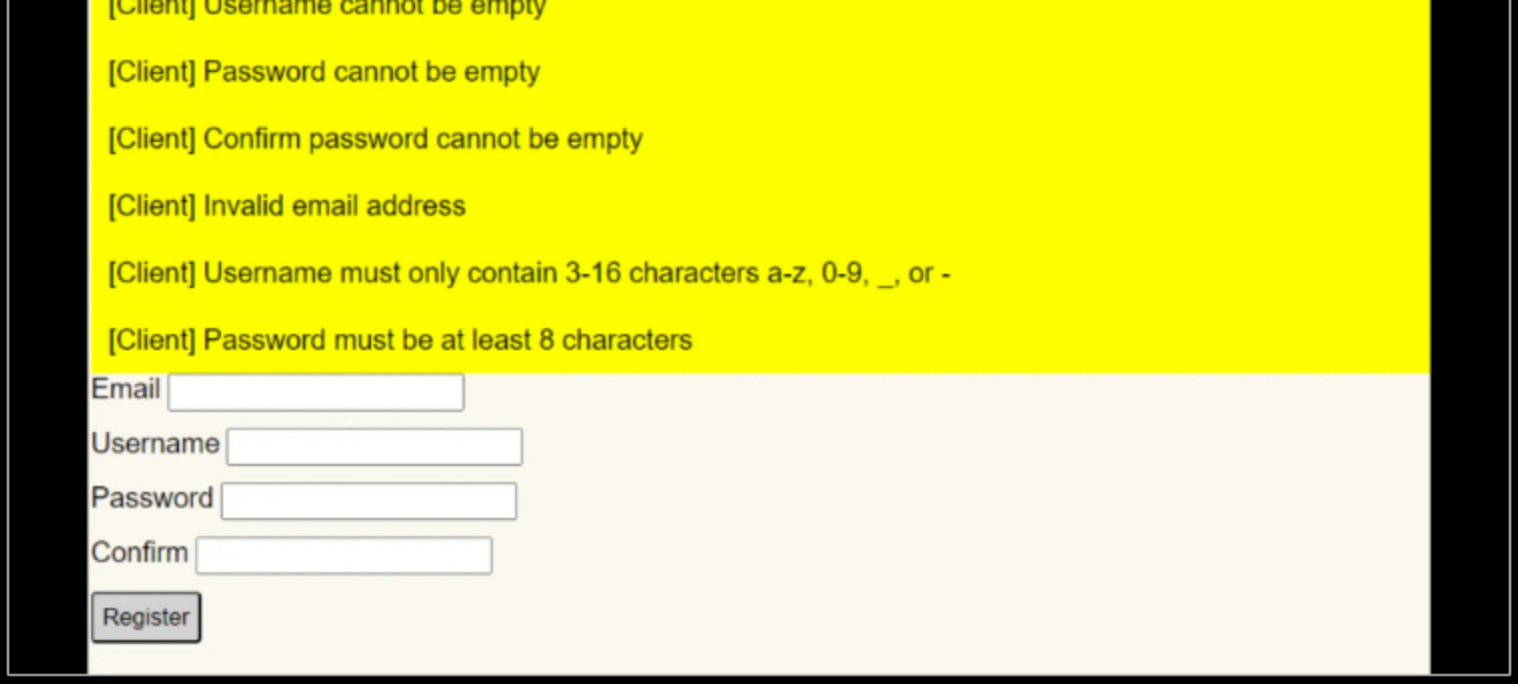


passwords must match

Checklist Items (1)

#3 Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required

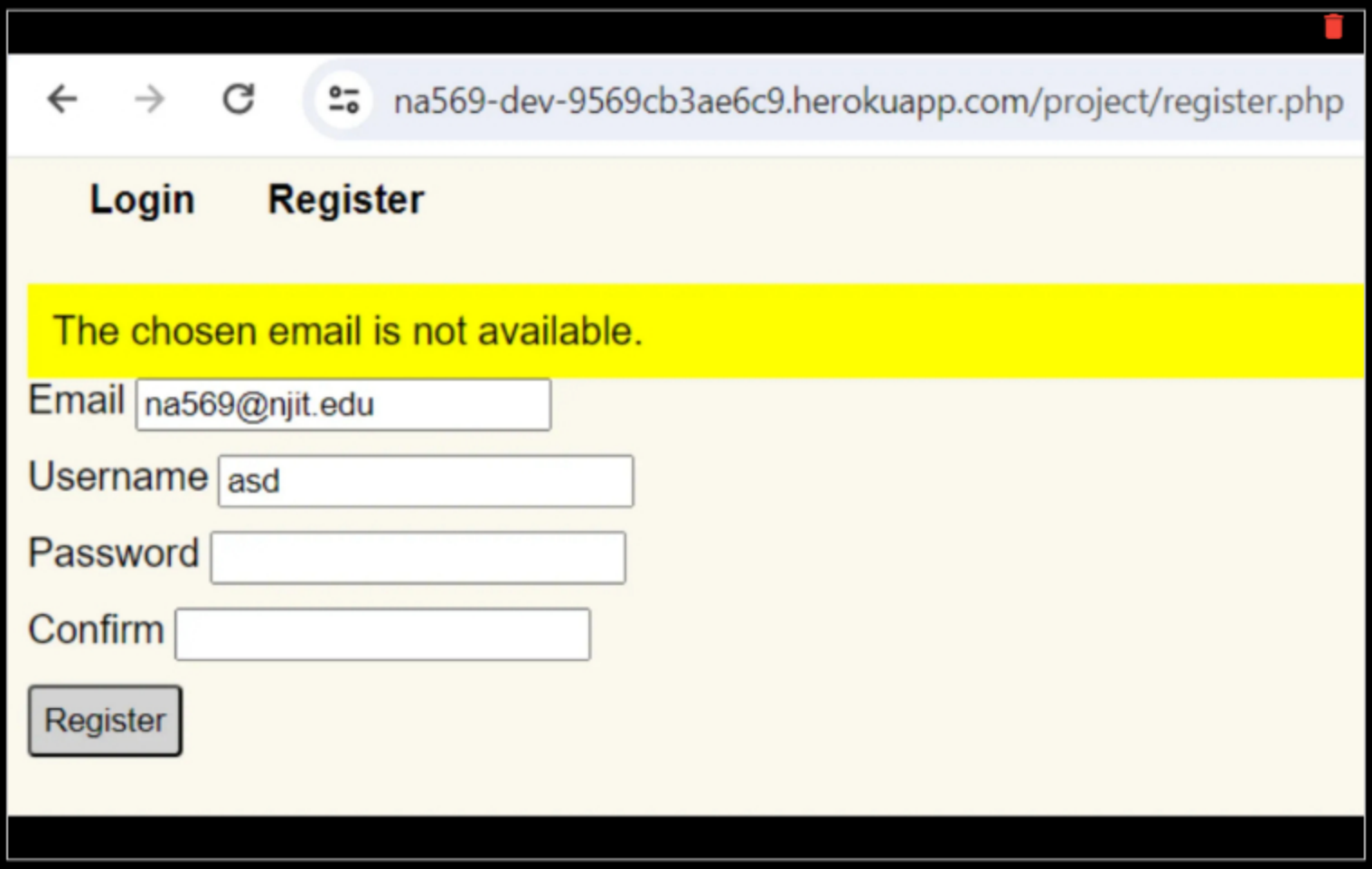




each field required

Checklist Items (1)

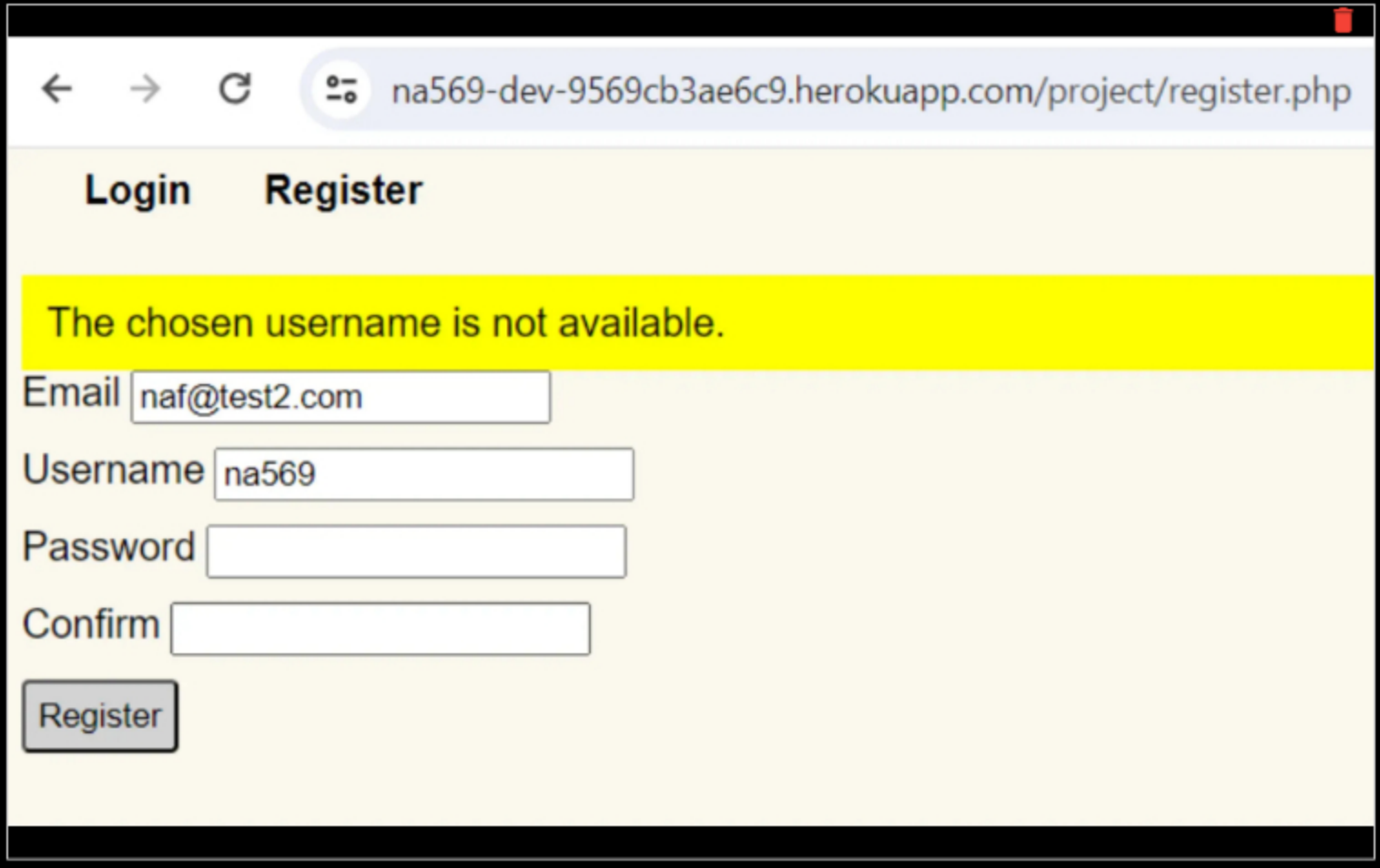
#3 Demonstrate JavaScript validation for each field [can be combined] (email validation (format), username validation (format), password validation (format), password and confirm password matching, and each field being required



email not available

Checklist Items (1)

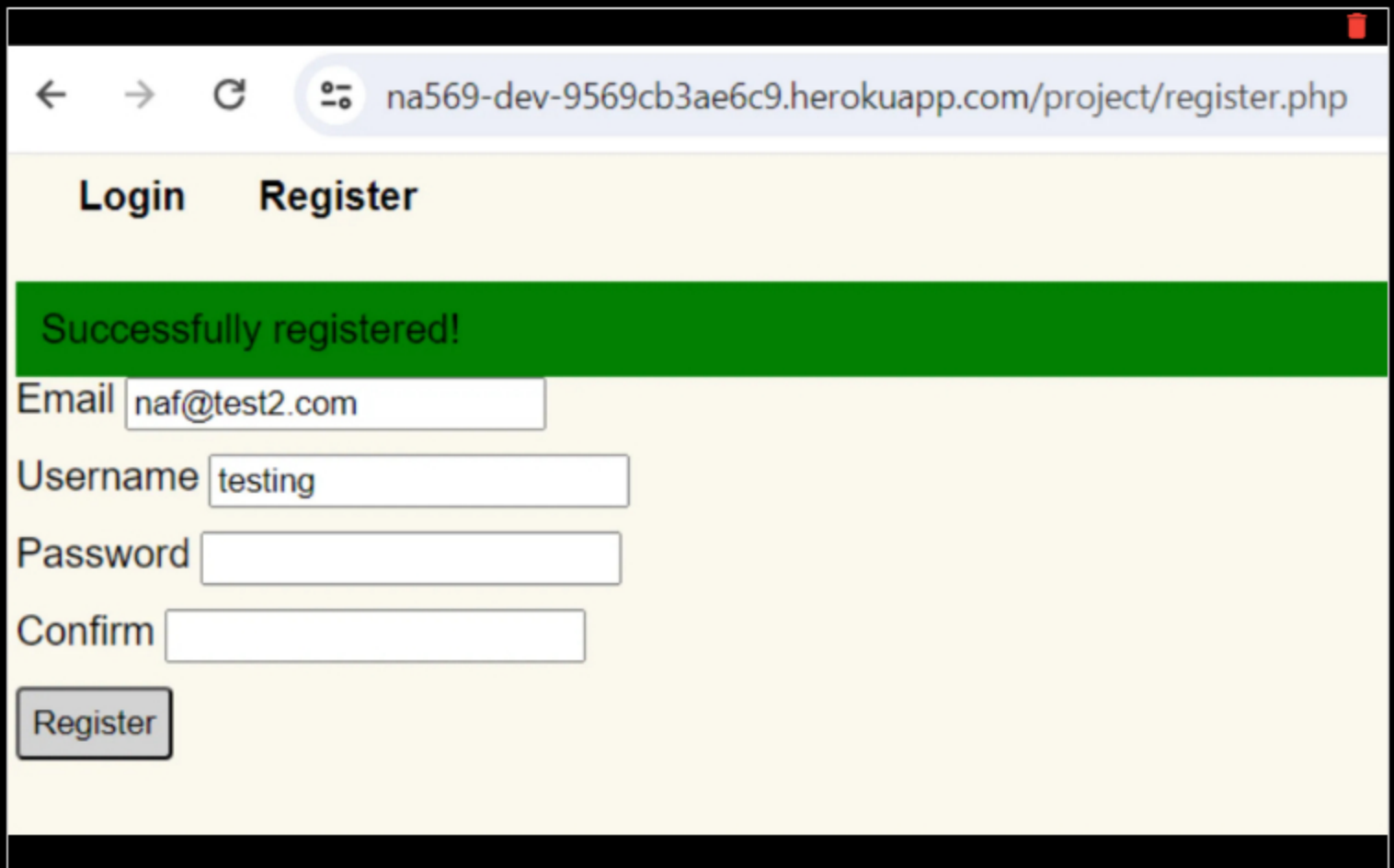
#4 Demonstrate email already in use message (message text doesn't need to be exact, but should be clear)



username not available

Checklist Items (1)

#5 Demonstrate username already in use message (message text doesn't need to be exact, but should be clear)



account successfully created

Checklist Items (1)

#6 Demonstrate user-friendly message of new account being created

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Task #2 - Points: 1

Text: Screenshot of the form code

Details:
Should have appropriate input types for the fiel

Task Screenshots:

Gallery Style: Large View

Small Medium Large

```
<form onsubmit="return validate(this)" method="POST">      You, last month • adding and
    <div>
        <label for="email">Email</label>
        <input type="text" name="email" value="<?php se($email); ?>" required />
    </div>
    <div>
        <label for="username">Username</label>
        <input type="text" name="username" value="<?php se($username); ?>" required />
    </div>
    <div>
        <label for="pw">Password</label>
        <input type="password" id="pw" name="password" required />
    </div>
    <div>
        <label for="confirm">Confirm</label>
        <input type="password" name="confirm" required />
    </div>
    <input type="submit" value="Register" />
</form>
<script>
```

screenshot of form code for register.php

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Task #3 - Points: 1

Text: Screenshot of the client-side and server-side validation code

Checklist

*The checkboxes are for your own tracking

#	Points	Details
#1	1	Show the JavaScript validations (include any extra files related)
#2	1	Show the PHP validations (include any lib content)
#3	1	Include ucid/date code comments in all screenshots (one per screenshot is sufficient)

Task Screenshots:

Gallery Style: Large View

Small Medium Large

```
<script>
    //na569, 4/1/24
    function validate(form) {
        //TODO 1: implement JavaScript validation
        //ensure it returns false for an error and true for success

        let email = form.email.value;
        let username = form.username.value;      You, 2 days ago • javascript client side validation
        let password = form.password.value;
        let confirmpassword = form.confirm.value;
        let isValid = true;

        let validEmail = /^([a-z0-9_\.\+-]+)@([\da-z\.-]+)\.([a-z\.]{2,6})$/;
        let validUsername = /^[a-zA-Z0-9_-]{3,16}$/;

        if (email.length < 1) {
            flash("[Client] Email cannot be empty", "warning");
            isValid = false;
        }
        if (username.length < 1) {
            flash("[Client] Username cannot be empty", "warning");
            isValid = false;
        }
        if (password.length < 1) {
            flash("[Client] Password cannot be empty", "warning");
            isValid = false;
        }
        if (confirmpassword.length < 1) {
            flash("[Client] Confirm password cannot be empty", "warning");
            isValid = false;
        }
        if (!validEmail.test(email)) {
            flash("[Client] Invalid email address", "warning");
            isValid = false;
        }
        if (!validUsername.test(username)) {
```

js validation part 1

Checklist Items (1)

#1 Show the JavaScript validations (include any extra files related)

```
<script>
    function validate(form) {
            isValid = false;
        }
        if (username.length < 1) {
            flash("[Client] Username cannot be empty", "warning");
            isValid = false;
        }
        if (password.length < 1) {
            flash("[Client] Password cannot be empty", "warning");
            isValid = false;
        }
        if (confirmpassword.length < 1) {
            flash("[Client] Confirm password cannot be empty", "warning");
            isValid = false;
        }
```

```
        if (!validEmail.test(email)) {
            flash("[Client] Invalid email address", "warning");
            isValid = false;
        }
        if (!validUsername.test(username)) {
            flash("[Client] Username must only contain 3-16 characters a-z, 0-9, _, or -", "warning");
            isValid = false;
        }
        if (password.length < 8) {
            flash("[Client] Password must be at least 8 characters", "warning");
            isValid = false;
        }
        if (password !== confirmpassword) {
            flash("[Client] Passwords must match", "warning");
            isValid = false;
        }
        return isValid;
        //na569,4/1/24      You, 1 second ago • Uncommitted changes

    } <- #28-76 function validate(form)
</script>
```

js validation part 2

Checklist Items (1)

#1 Show the JavaScript validations (include any extra files related)

```
//validate, na569, 4/1/24
if (!is_valid_email($email)) {
    flash("Invalid email address", "danger");
    $hasError = true;
}
if (!is_valid_username($username)) {
    flash("Username must only contain 3-16 characters a-z, 0-9, _, or -", "danger");
    $hasError = true;
}
if (empty($password)) {
    flash("password must not be empty", "danger");
    $hasError = true;
}
if (empty($confirm)) {
    flash("Confirm password must not be empty", "danger");
    $hasError = true;
}
if (!is_valid_password($password)) {
    flash("Password too short", "danger");
    $hasError = true;
}
if (
    strlen($password) > 0 && $password !== $confirm
) {
    flash("Passwords must match", "danger");
    $hasError = true;
}
```

php validation part 1

Checklist Items (2)

#2 Show the PHP validations (include any lib content)

#3 Include ucid/date code comments in all screenshots (one per screenshot is sufficient)

```php
        $hasError = true;
    }
    if (!$hasError) {
        //TODO 4
        $hash = password_hash($password, PASSWORD_BCRYPT);
        $db = getDB();
        $stmt = $db->prepare("INSERT INTO Users (email, password, username) VALUES(:email, :password, :username)");
        try {
            $stmt->execute([":email" => $email, ":password" => $hash, ":username" => $username]);
            flash("Successfully registered!", "success");
        } catch (PDOException $e) {
            users_check_duplicate($e->errorInfo);
        }
    } //na569, 4/1/24 <- #120-131 if (!$hasError)
} <- #80-132 if (isset($_POST["email"]) && isset($_POST["password"]) && is...
?>
<?php
```

php validation part 2

Checklist Items (2)

#2 Show the PHP validations (include any lib content)

#3 Include ucid/date code comments in all screenshots (one per screenshot is sufficient)

^COLLAPSE^

Task #4 - Points: 1

Text: Screenshot of the Users table with a valid user entry

Checklist

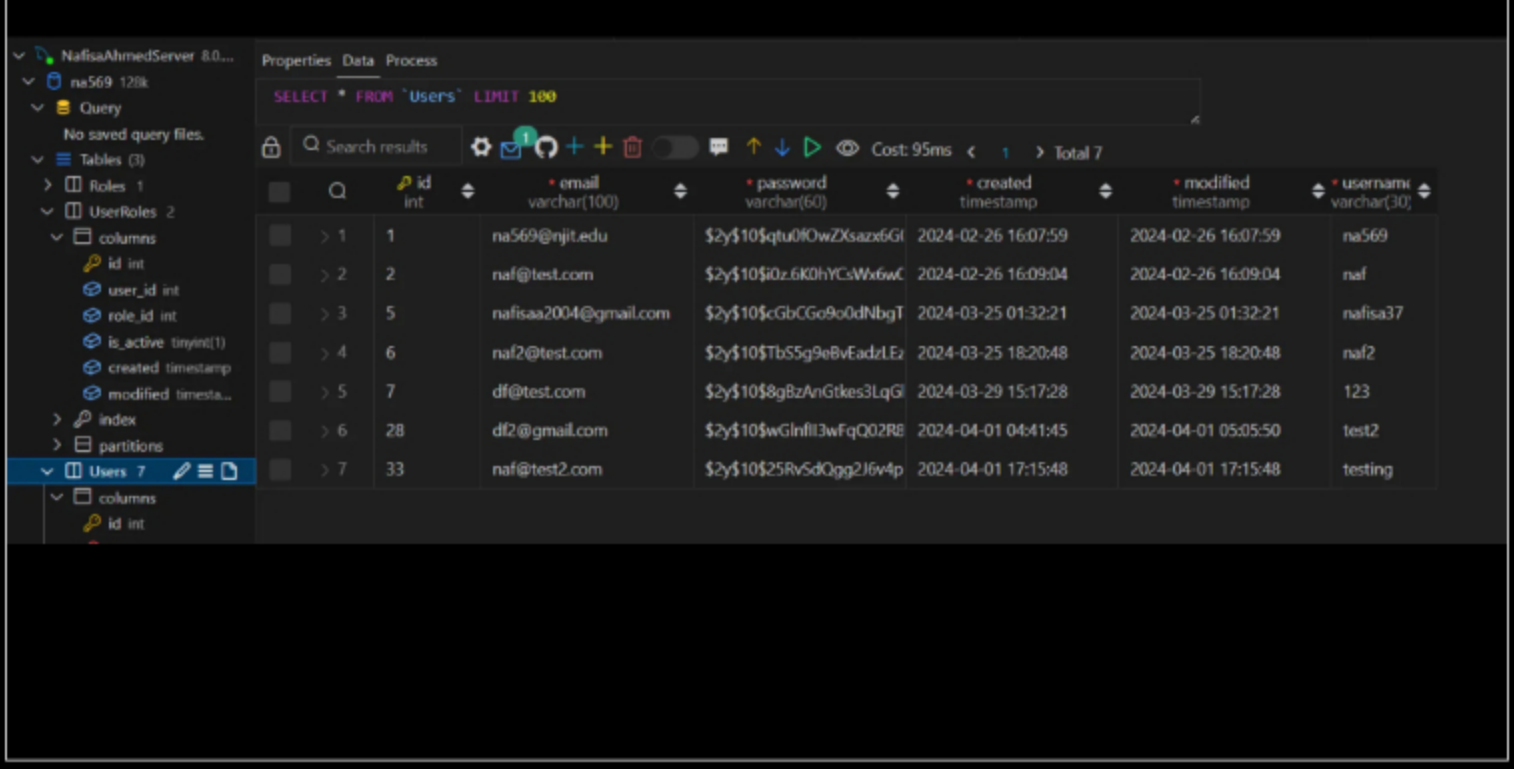
*The checkboxes are for your own tracking

#	Points	Details
#1	1	Password should be hashed
#2	1	Should have email, password, username (unique), created, modified, and id fields
#3	1	Ensure left panel or database name is present (should contain your ucid)

Task Screenshots:

Gallery Style: Large View

Small Medium Large



Users table

Checklist Items (3)

#1 Password should be hashed

#2 Should have email, password, username (unique), created, modified, and id fields

#3 Ensure left panel or database name is present (should contain your ucid)

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Task #5 - Points: 1

Text: Explain the registration logic in a step-by-step manner from when the page loads to when the data is saved to the DB

Details:
Don't just show code, translate things to plain English

Response:

The registration page loads and a form is displayed where users can input their email, username, password, and confirm password. When they submit the form, the validate JS functions does client-side validation. Warnings are displayed if any of the input is invalid. If everything is valid, the form data is sent to the server. On the server side, PHP does server-side validation to make sure everything is correct as well. Then, the password is hashed and the user data gets saved to the database.

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Task #6 - Points: 1

Text: Include pull request links related to this feature

Details:
Should end in /pull/#

URL #1
https://github.com/nafisa37/na569-it202-008/pull/19

User Login (2 pts.)

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Task #1 - Points: 1
Text: Screenshot of form on website page

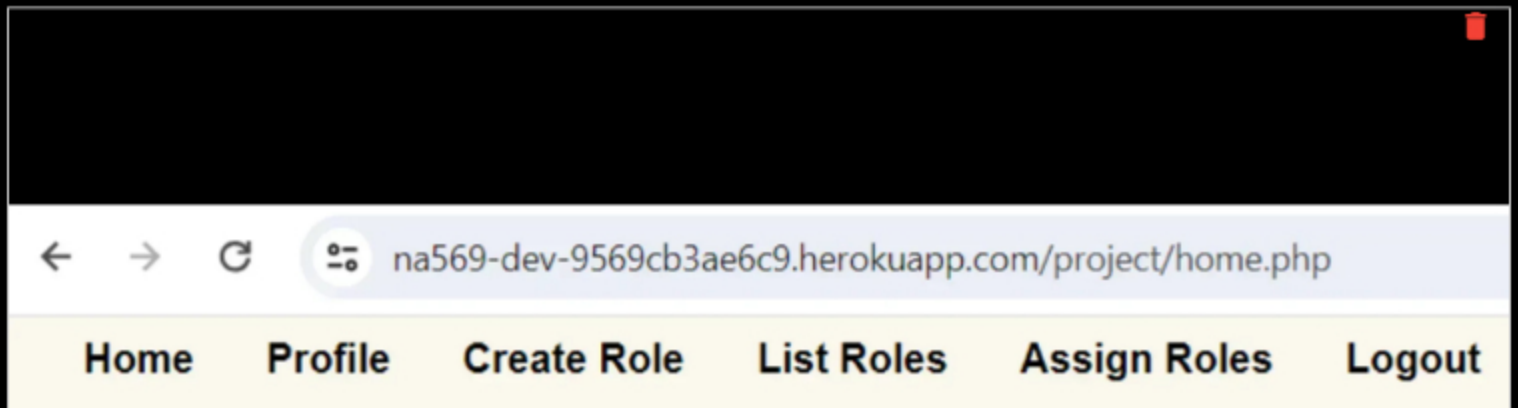
Checklist *The checkboxes are for your own tracking

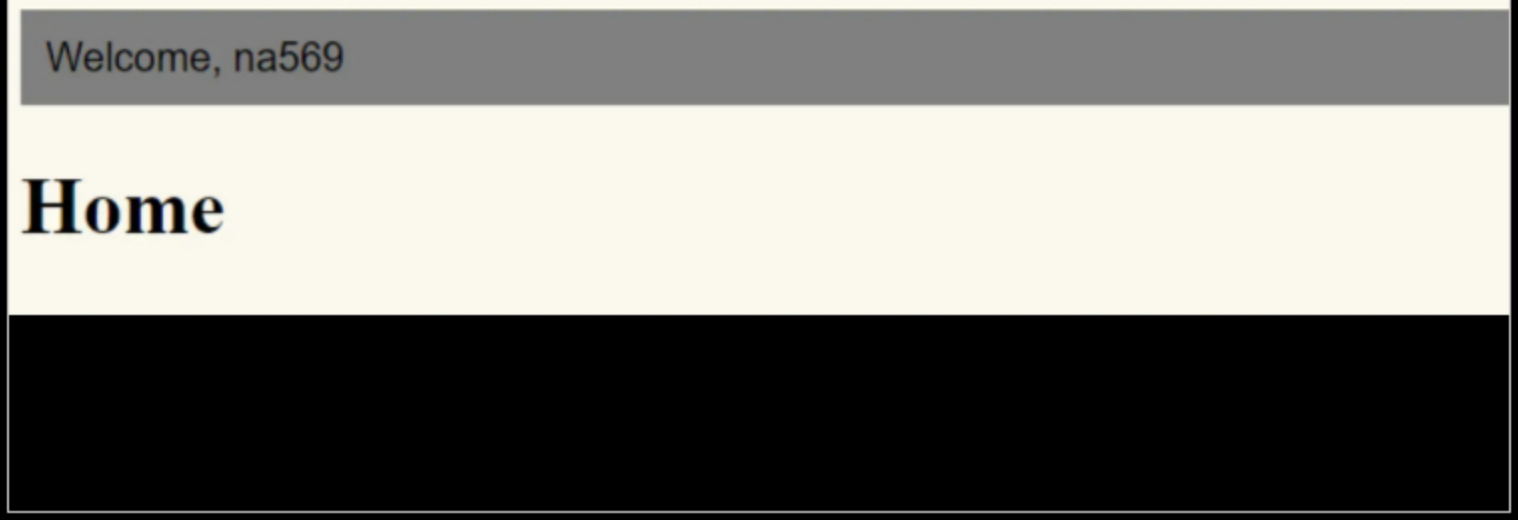
#	Points	Details
#1	1	Heroku dev url should be present in the address bar
#2	1	Should have thoughtful CSS applied
#3	1	Include correct data where username is used to login
#4	1	Include correct data where email is used to login
#5	1	Show success login message
#6	1	Demonstrate JavaScript validation for each field [can be combined] (username format, email format, password format, and each field being required)
#7	1	Demonstrate user-friendly message of when an account doesn't exist
#8	1	Demonstrate user-friendly message of when password doesn't match what's in the DB
#9	1	Demonstrate successful login message and the destination page (i.e., home or some landing/dashboard page)
#10	1	Demonstrate session data being set (captured from server logs)

Task Screenshots:

Gallery Style: Large View

Small Medium Large





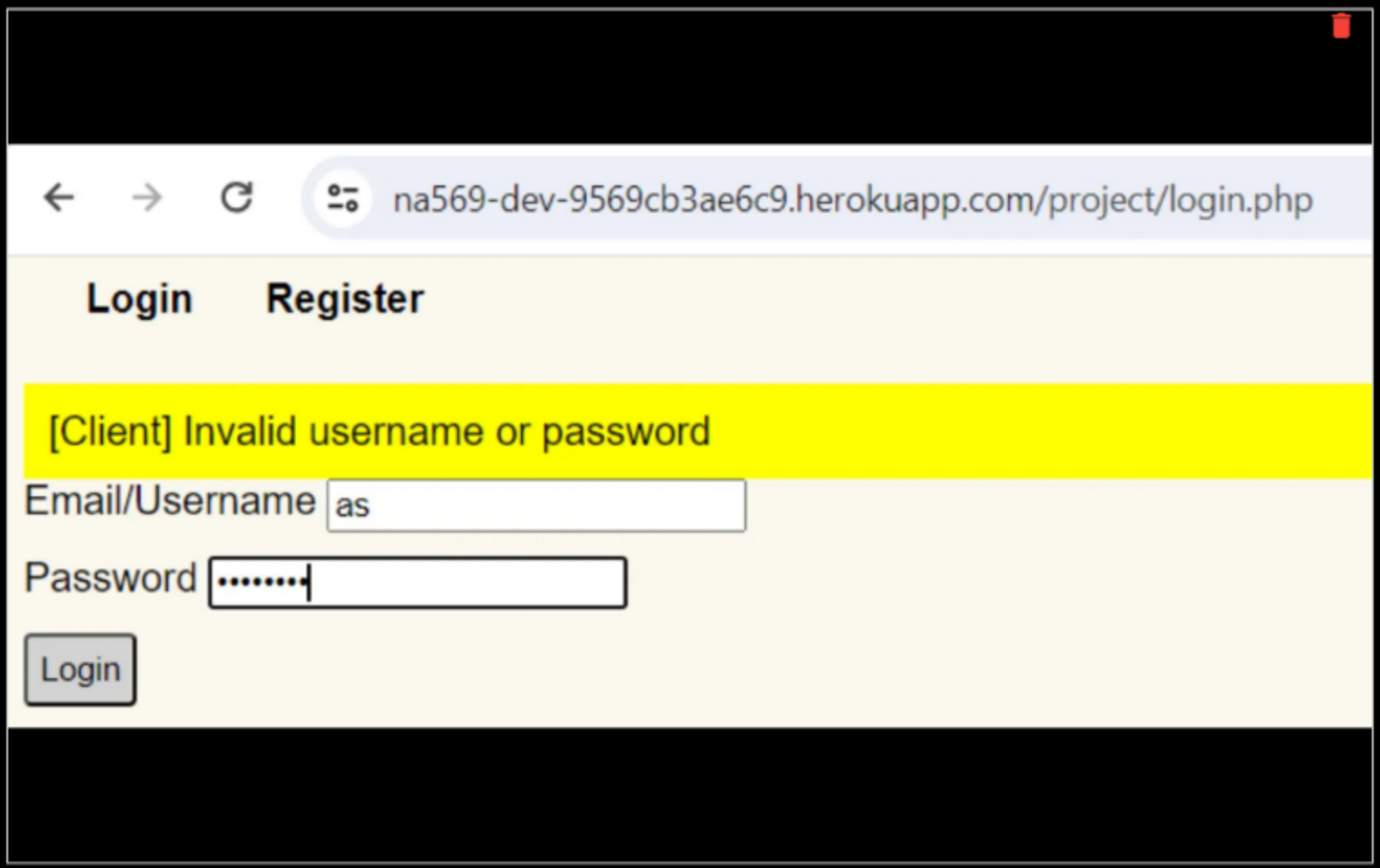
logged in successfully

Checklist Items (3)

#1 Heroku dev url should be present in the address bar

#2 Should have thoughtful CSS applied

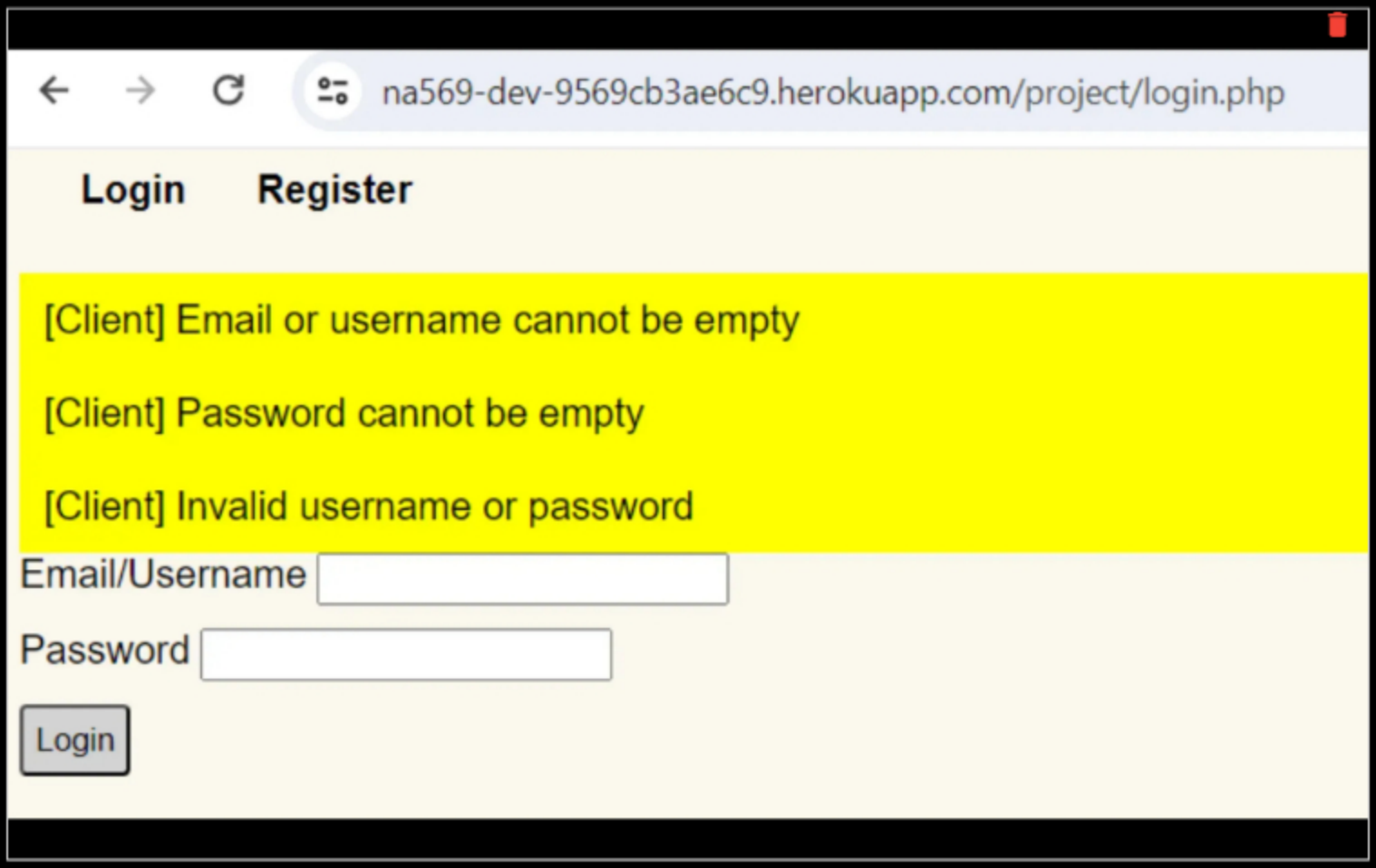
#5 Show success login message



invalid username or password

Checklist Items (1)

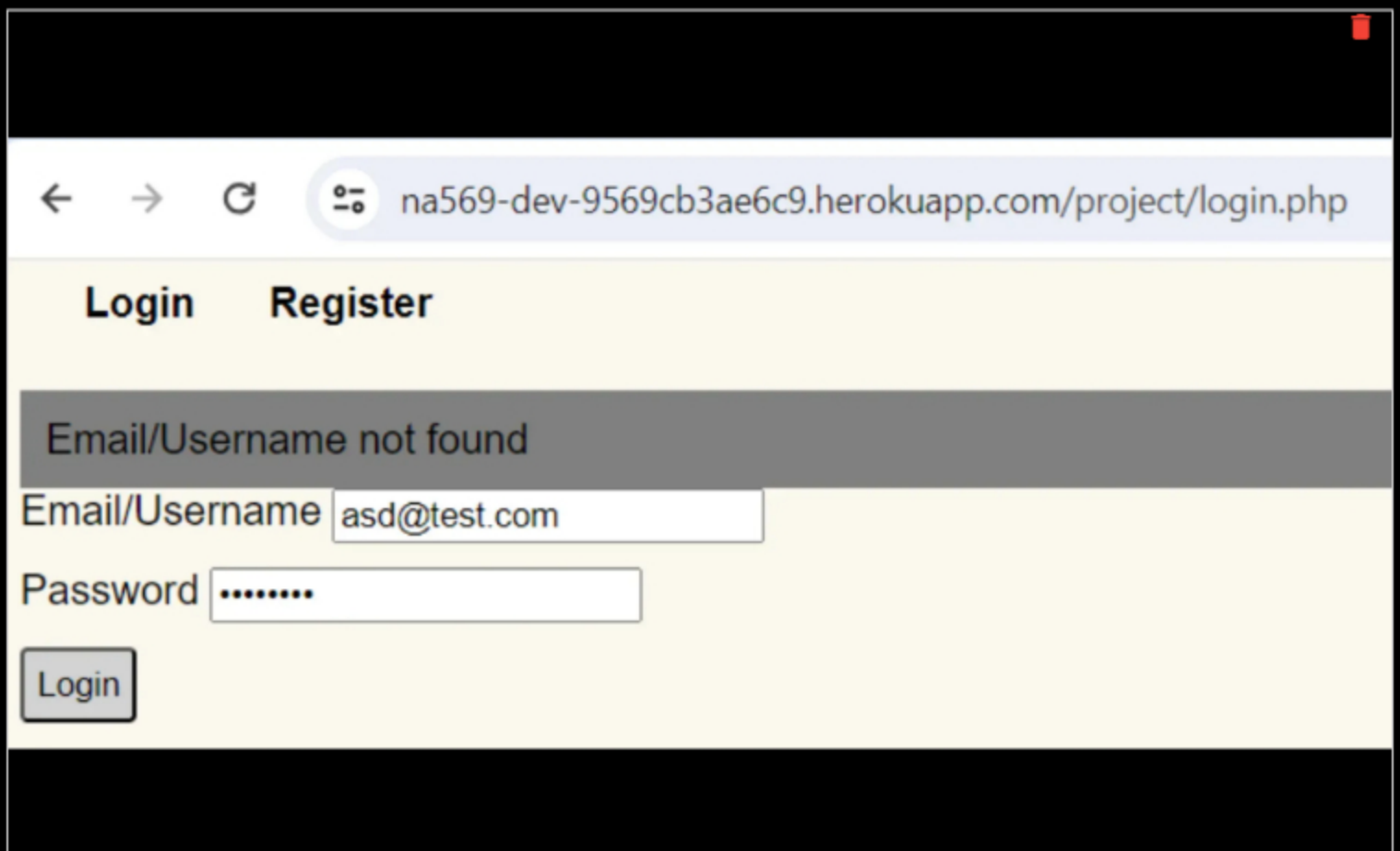
#8 Demonstrate user-friendly message of when password doesn't match what's in the DB



each field required

Checklist Items (1)

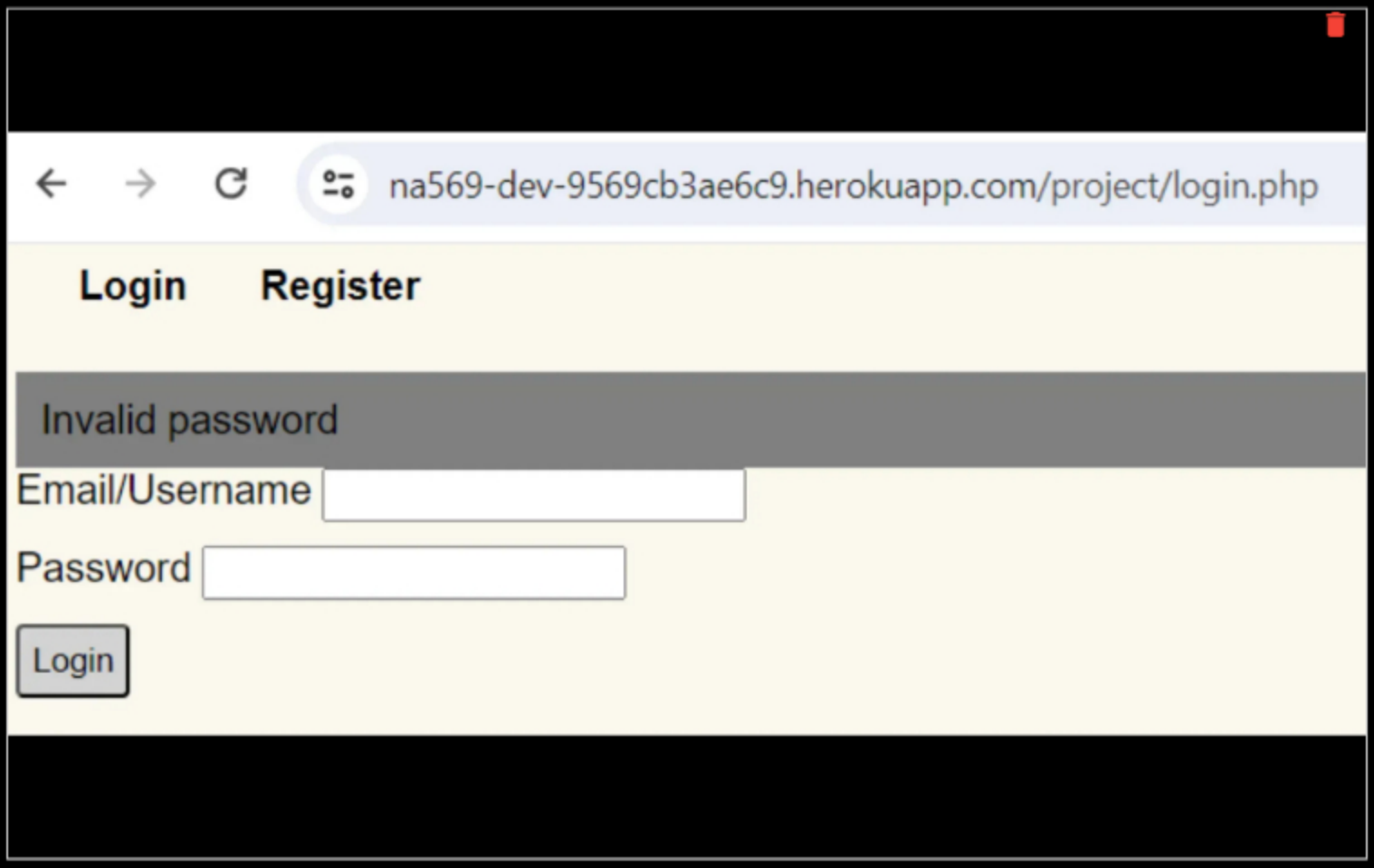
#6 Demonstrate JavaScript validation for each field [can be combined] (username format, email format, password format, and each field being required)



account doesn't exist

Checklist Items (1)

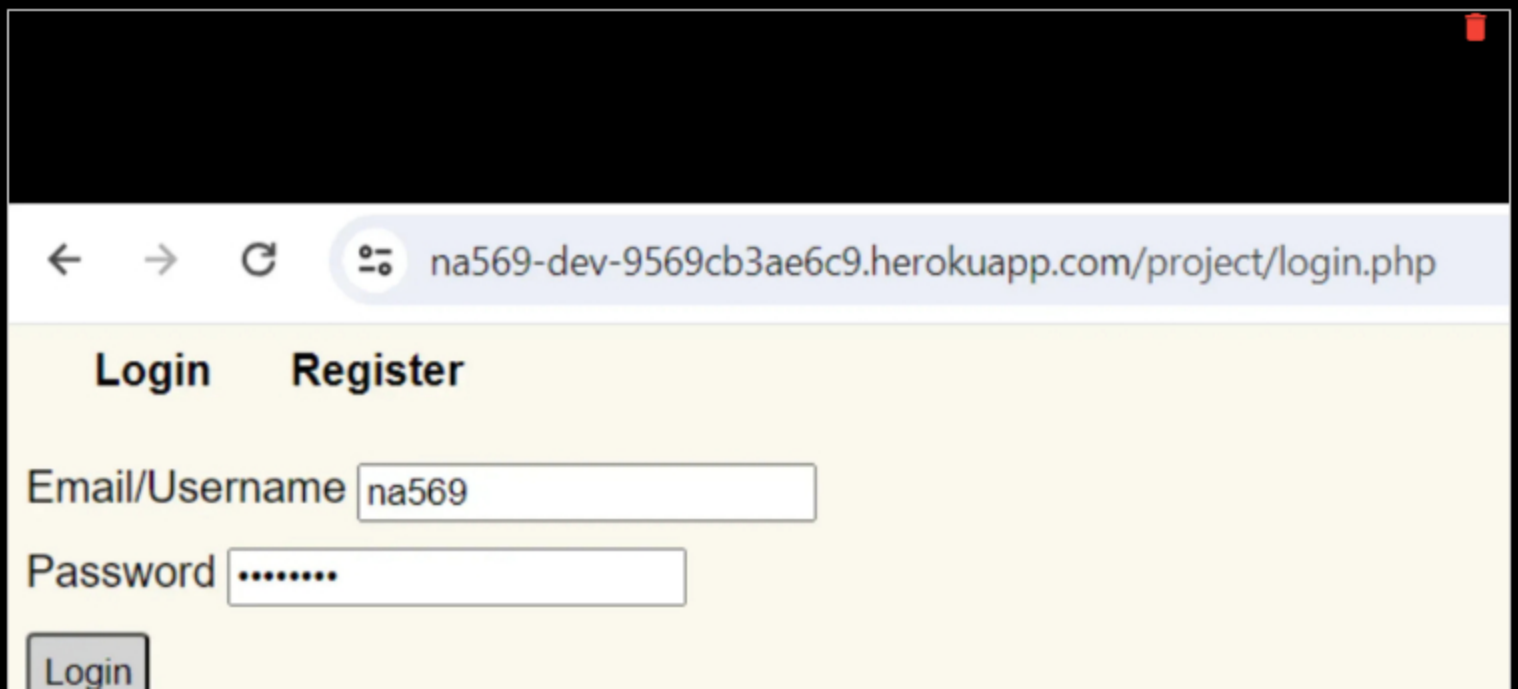
#7 Demonstrate user-friendly message of when an account doesn't exist



invalid password

Checklist Items (1)

#8 Demonstrate user-friendly message of when password doesn't match what's in the DB



correct sign in info

Checklist Items (2)

#3 Include correct data where username is used to login

#4 Include correct data where email is used to login

```
[Mon Apr  1 14:38:33 2024] [::1]:61142 Accepted
[Mon Apr  1 14:38:33 2024] [::1]:61143 Accepted
[Mon Apr  1 14:38:33 2024] [::1]:61142 [302]: POST /project/login.php
[Mon Apr  1 14:38:33 2024] [::1]:61142 Closing
[Mon Apr  1 14:38:33 2024] Session data: array (
  'user' =>
  array (
    'id' => 1,
    'email' => 'na569@njit.edu',
    'username' => 'na569',
    'roles' =>
    array (
      0 =>
      array (
        'name' => 'Admin',
      ),
    ),
  ),
  'flash' =>
  array (
    0 =>
    array (
      'text' => 'Welcome, na569',
      'color' => 'info',
    ),
  ),
)
[Mon Apr  1 14:38:33 2024] [::1]:61143 [200]: GET /project/home.php
[Mon Apr  1 14:38:33 2024] [::1]:61143 Closing
[Mon Apr  1 14:38:33 2024] [::1]:61145 Accepted
[Mon Apr  1 14:38:33 2024] [::1]:61146 Accepted
[Mon Apr  1 14:38:33 2024] [::1]:61145 [200]: GET /project/styles.css
```

session data set

Checklist Items (1)

#10 Demonstrate session data being set (captured from server logs)

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Task #2 - Points: 1

Text: Screenshot of the form code

Checklist

*The checkboxes are for your own tracking

#	Points	Details

#1	1	Should have proper input types for the fields (note in the caption if you're using two fields for Username/Email or a combined field)
#2	1	Show JavaScript validations (include any extra files related)
#3	1	Show PHP validations (include any lib content)
#4	1	Include ucid/date code comments in all screenshots (one per screenshot is sufficient)

Task Screenshots:

Gallery Style: Large View

Small Medium Large

```
<script>
    function validate(form) {
        //TODO 1: implement JavaScript validation
        //ensure it returns false for an error and true for success

        //TODO update clientside validation to check if it should
        //valid email or username
        //na569, 4/2/24

        let emailUser = form.email.value;
        let password = form.password.value;
        let isValid = true;

        let validEmail = /^([a-z0-9_\.\+-]+)@([\da-z\.-]+)\.([a-z\.]{2,6})$/;
        let validUsername = /^[a-zA-Z0-9_-]{3,16}$/;

        if (emailUser.length < 1) {
            flash("[Client] Email or username cannot be empty", "warning");
            isValid = false;
        }
        if (password.length < 1) {
            flash("[Client] Password cannot be empty", "warning");
            isValid = false;
        }

        if (!validEmail.test(emailUser)) {
            if (!validUsername.test(emailUser)) {
            flash("[Client] Invalid username or password", "warning");
            isValid = false;
            }
        } <- #41-46 if (!validEmail.test(emailUser))
        return isValid;

    } <- #18-49 function validate(form)
</script>
```

combined field for username and email

Checklist Items (3)

#1 Should have proper input types for the fields (note in the caption if you're using two fields for Username/Email or a combined field)

#2 Show JavaScript validations (include any extra files related)

#4 Include ucid/date code comments in all screenshots (one per screenshot is sufficient)

```
//TODO 3
$hasError = false;
if (empty($email)) {
    flash("Email must not be empty");
    $hasError = true;
} //na569, 4/1/24
if (str_contains($email, "@")) {
    //sanitize
    //$email = filter_var($email, FILTER_SANITIZE_EMAIL);
```

```php
    //validate
    /*if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
        flash("Invalid email address");
        $hasError = true;
    }*/
    if (!is_valid_email($email)) {
        flash("Invalid email address");
        $hasError = true;
    }
} else {
    if (!is_valid_username($email)) {
        flash("Invalid username");
        $hasError = true;
    }
} <- #76-81 else
if (empty($password)) {
    flash("Password must not be empty");
    $hasError = true;
}
if (!is_valid_password($password)) {
    flash("Password too short");
    $hasError = true;
}
```

php validation

Checklist Items (1)

#3 Show PHP validations (include any lib content)

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Task #3 - Points: 1

Text: Explain the login logic step-by-step from when the page loads to when the data is fetched from the DB and stored in the session

Checklist

*The checkboxes are for your own tracking

#	Points	Details
#1	1	Don't just show code, translate things to plain English
#2	1	Explain how the session works and why/how it's used

Response:

The login page loads and a form is there for users to input their username/email and password. Javascript client-side validation checks to make sure they fit the required criteria and displays warnings if not. If the data is valid, PHP does client-side validation. The database then fetches the user details and stores them in the session. The user is taken to the home page. When a user logs in successfully, their details and user roles are stored in the $_SESSION variables. The session data is stored on the server and is able to be accessed across different PHP scripts.

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Task #4 - Points: 1

Text: Include pull request links related to this feature

Details:

Should end in /pull/#

URL #1
https://github.com/nafisa37/na569-it202-008/pull/41

User Logout (1 pt.)
COLLAPSE

COLLAPSE

Task #1 - Points: 1

Text: Capture the following screenshots

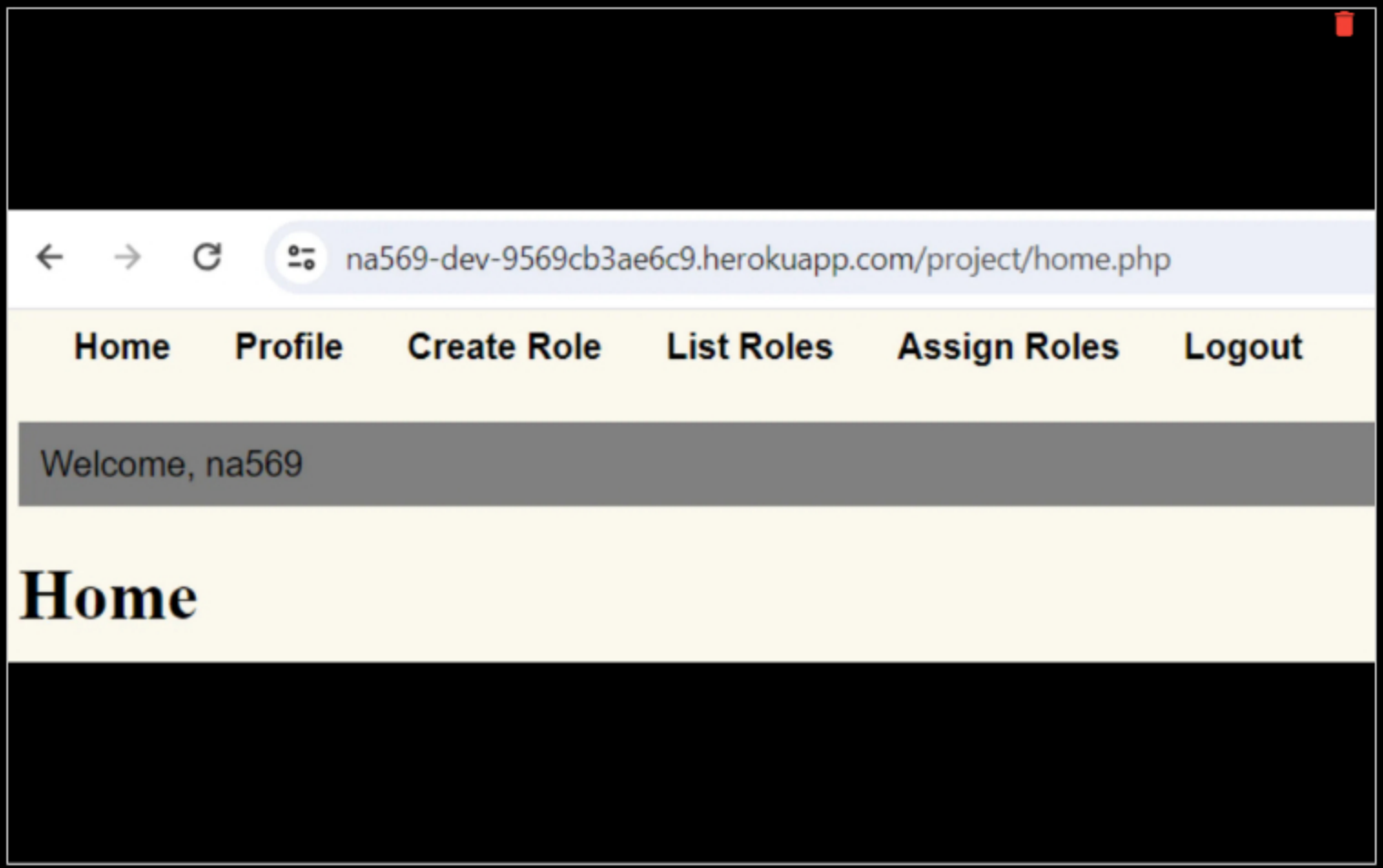
Checklist *The checkboxes are for your own tracking

#	Points	Details
#1	1	Screenshot of the navigation when logged in (site)
#2	1	Screenshot of the redirect to login with the user-friendly logged-out message (site)
#3	1	Screenshot of the logout-related code showing the session is destroyed (code). Ensure ucid/date comment is present.

Task Screenshots:

Gallery Style: Large View

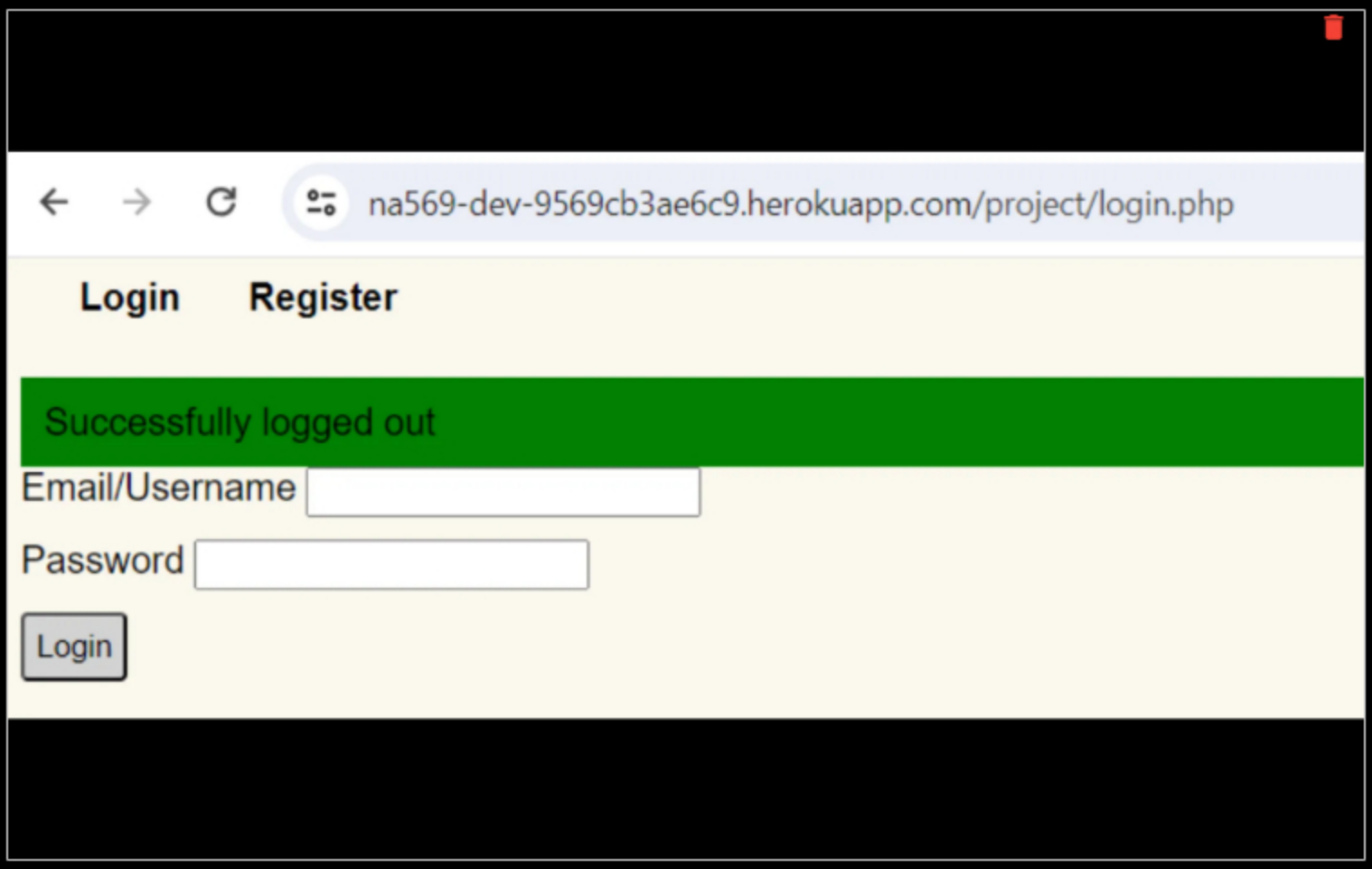
Small Medium Large



home page logged in

Checklist Items (1)

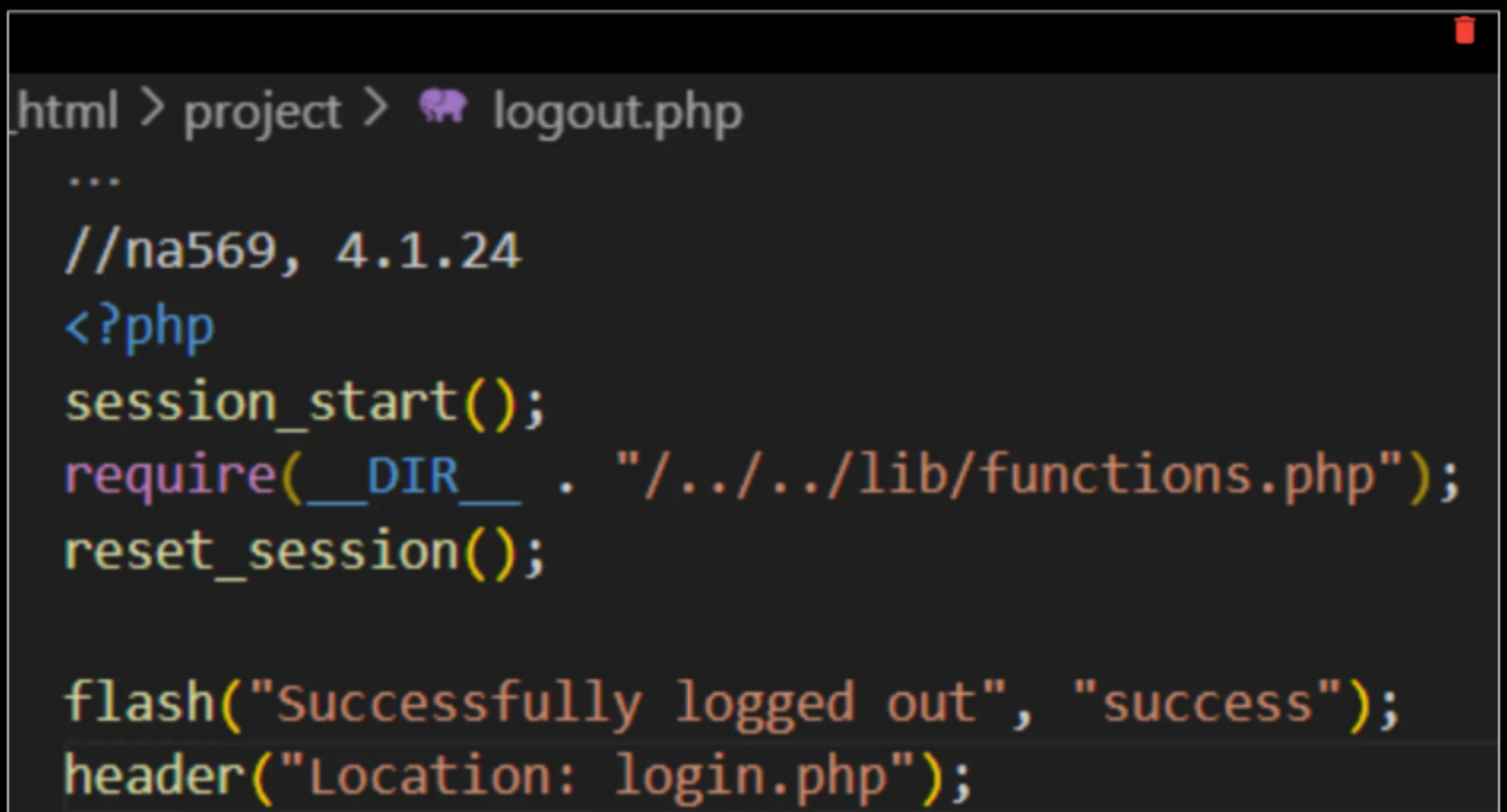
#1 Screenshot of the navigation when logged in (site)



logged out page

Checklist Items (1)

#2 Screenshot of the redirect to login with the user-friendly logged-out message (site)



logout.php code

Checklist Items (1)

#3 Screenshot of the logout-related code showing the session is destroyed (code). Ensure ucid/date comment is present.

COLLAPSE

Task #2 - Points: 1

Text: Include pull request links related to this feature

Details:
Should end in /pull/#

URL #1
https://github.com/nafisa37/na569-it202-008/pull/26

COLLAPSE Basic Security Rules and Roles (2 pts.)

EXPAND

Task #1 - Points: 1

Text: Authentication Screenshots

EXPAND

Task #2 - Points: 1

Text: Authorization Screenshots

EXPAND

Task #3 - Points: 1

Text: Screenshots of UserRoles and Roles Tables

EXPAND

Task #4 - Points: 1

Text: Explain how Roles and UserRoles tables work in conjunction with the Users table

EXPAND

Task #5 - Points: 1

Text: Include pull request links related to this feature

User Profile (2 pts.)

User Profile (2 pts.)

COLLAPSE

COLLAPSE

Task #1 - Points: 1

Text: View Profile Website Page

Checklist

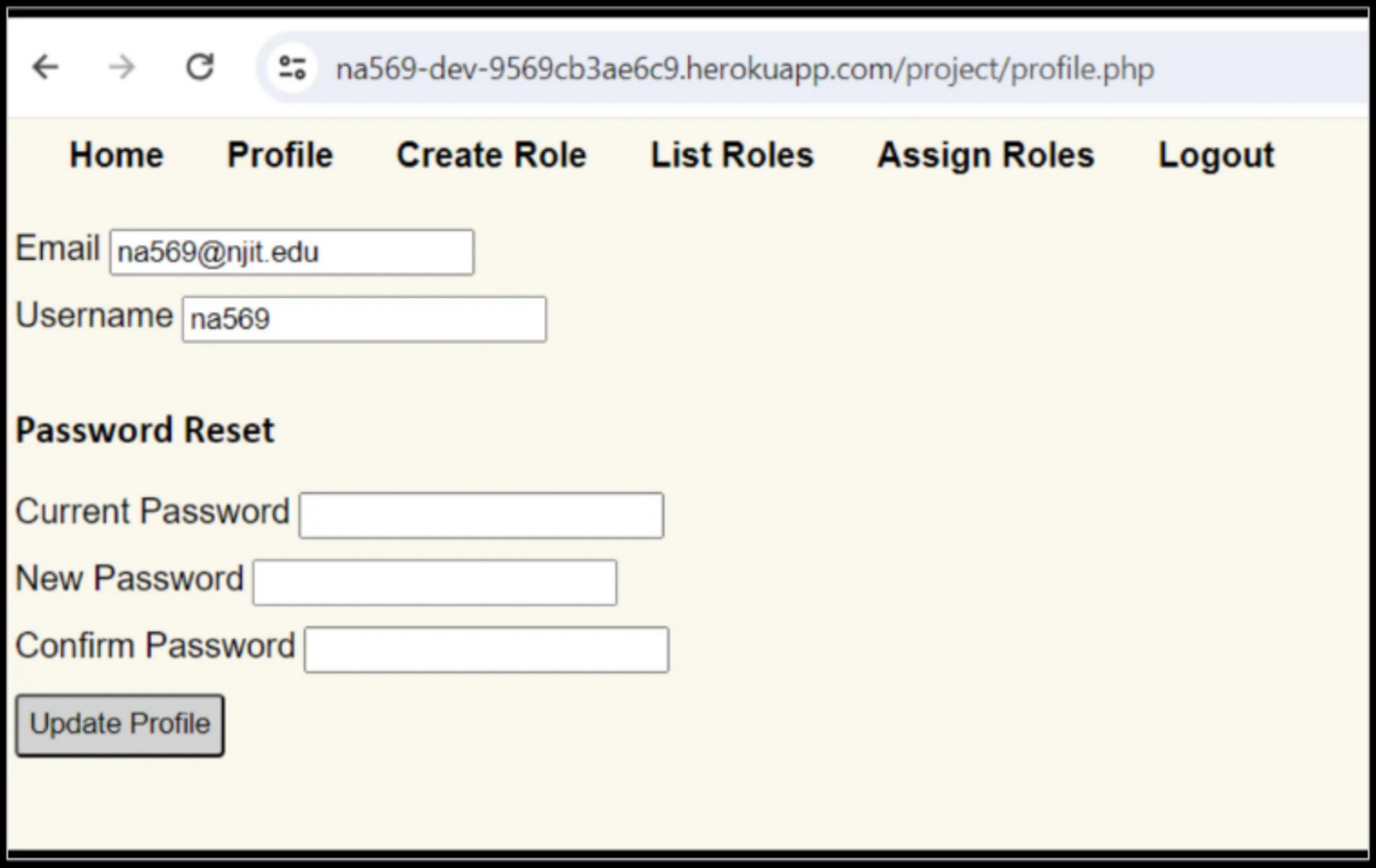
*The checkboxes are for your own tracking

#	Points	Details
#1	1	Heroku dev url should be present in the address bar
#2	1	Should have thoughtful CSS applied
#3	1	Show the profile form correctly populated on page load (username, email)
#4	1	Should have the following fields: username, email, current password, new password, confirm password (or similar)

Task Screenshots:

Gallery Style: Large View

Small Medium Large



profile page

Checklist Items (4)

#1 Heroku dev url should be present in the address bar

#2 Should have thoughtful CSS applied

#3 Show the profile form correctly populated on page load (username, email)

#4 Should have the following fields: username, email, current password, new password, confirm password (or similar)

^COLLAPSE ^

Task #2 - Points: 1

Text: Explain the logic step-by-step of how the data is loaded and populated when the profile page is visited

Details:
Don't just show code, translate things to plain English

Response:

When the profile page is visited, the page checks to make sure that the user is logged in. It uses the session data. After making sure the user is verified, get_user_email() and get_username() are called to retrieve data that is populated into the input fields. The se() function allows the user to view and update their information as needed.

^COLLAPSE ^

Task #3 - Points: 1

Text: Edit Profile Website Page

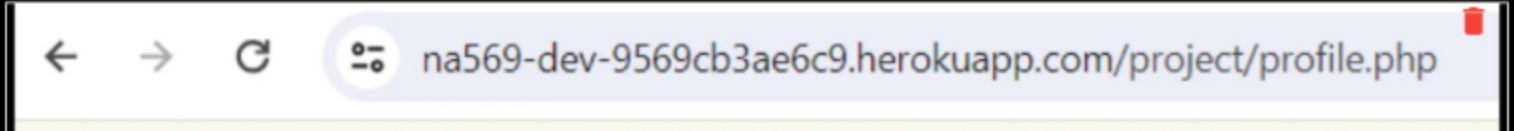
Checklist *The checkbox are for your own tracking

#	Points	Details
#1	1	Heroku dev url should be present in the address bar
#2	1	Should have thoughtful CSS applied
#3	1	Demonstrate with before and after of a username change (including success message)
#4	1	Demonstrate with a before and after of an email change (including success message)
#5	1	Demonstrate the success message of updating password
#6	1	Demonstrate JavaScript user-friendly validation messages (email format, username format, password format, new password matching confirm password)
#7	1	Demonstrate PHP user-friendly validation messages (desired email is already in use, desired username is already in use, current password doesn't match what's in the DB)

Task Screenshots:

Gallery Style: Large View

Small Medium Large



Home Profile Logout

Email naf@test2.com

Username testing

Password Reset

Current Password

New Password

Confirm Password

Update Profile

before email change

Checklist Items (3)

#1 Heroku dev url should be present in the address bar

#2 Should have thoughtful CSS applied

#3 Demonstrate with before and after of a username change (including success message)

na569-dev-9569cb3ae6c9.herokuapp.com/project/profile.php

Home Profile Logout

Profile saved

Email naf@test3.com

Username testing

Password Reset

Current Password

New Password

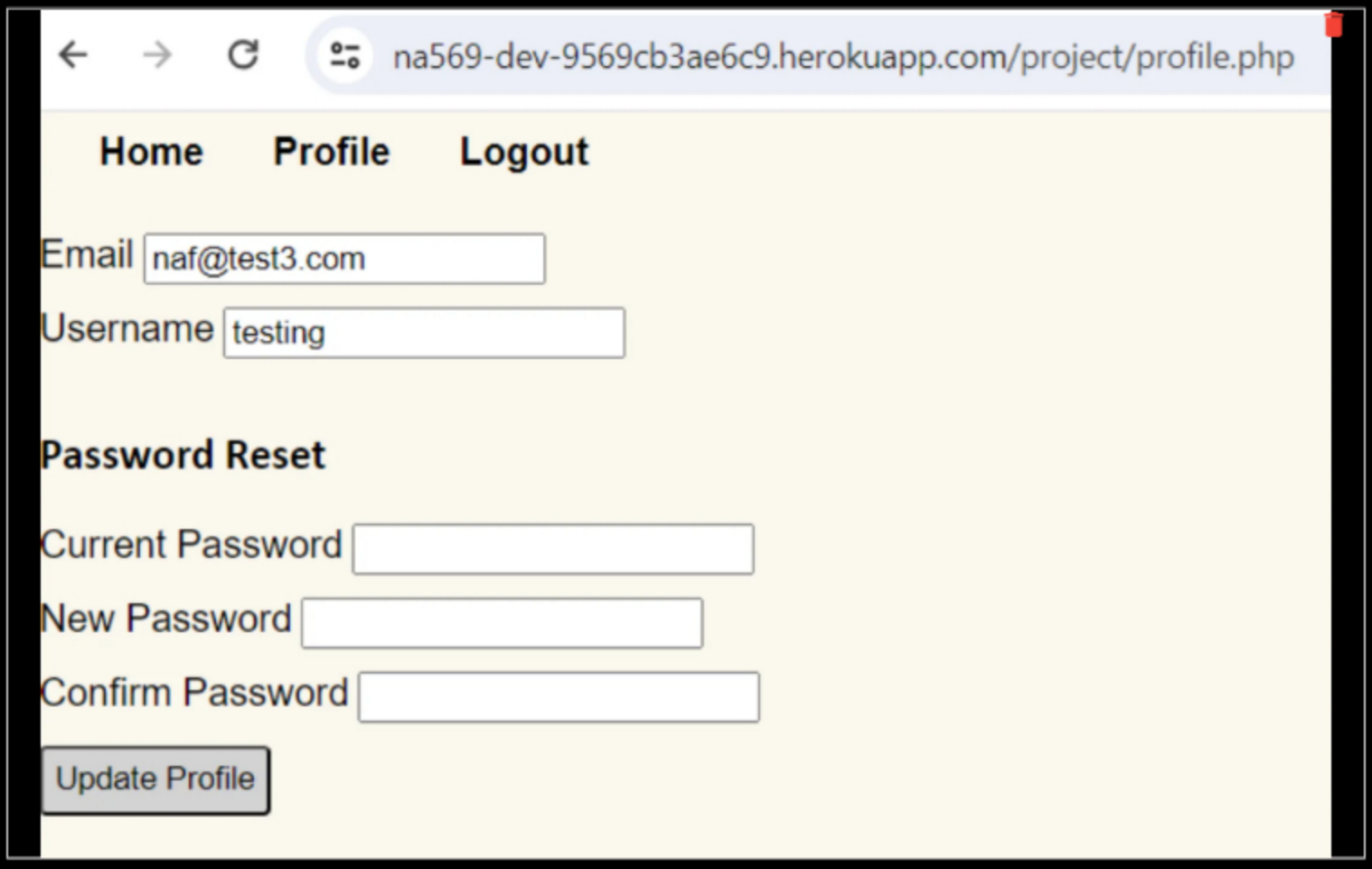
Confirm Password

Update Profile

after email change

Checklist Items (1)

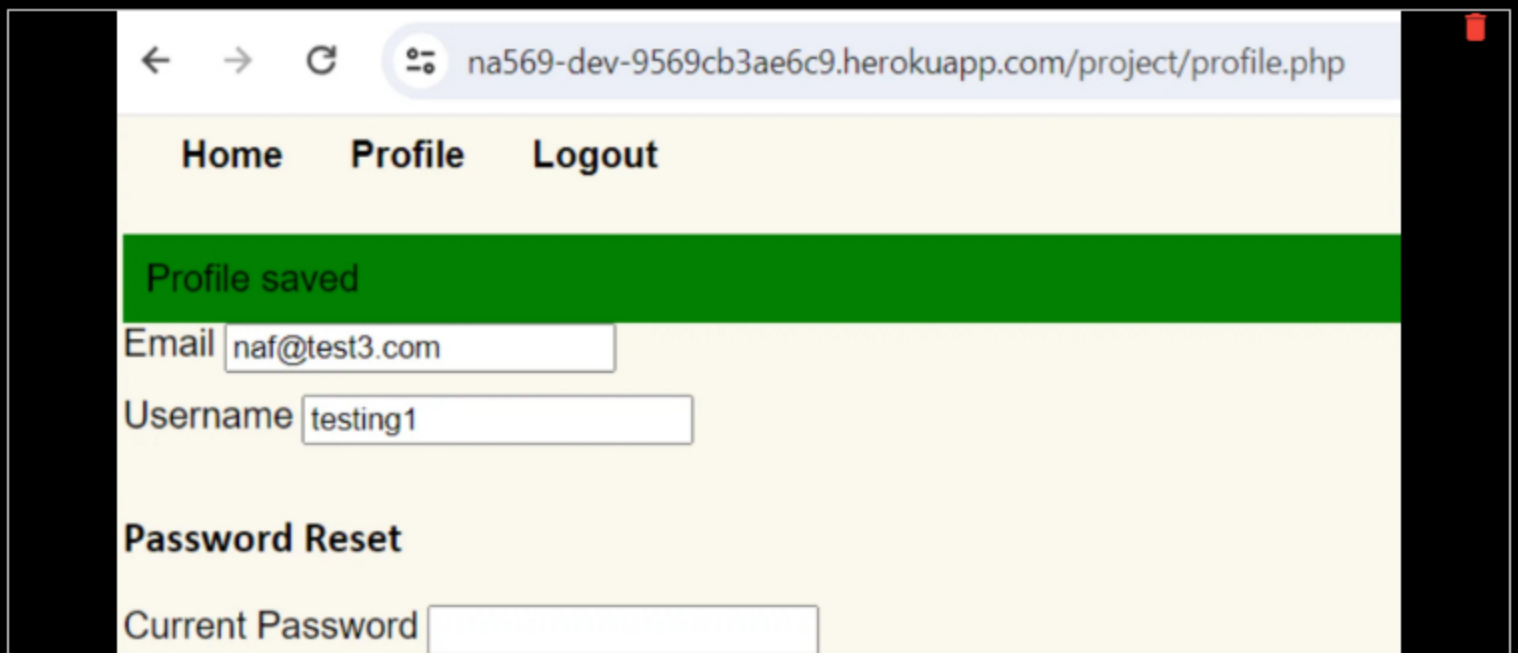
#3 Demonstrate with before and after of a username change (including success message)



before username change

Checklist Items (1)

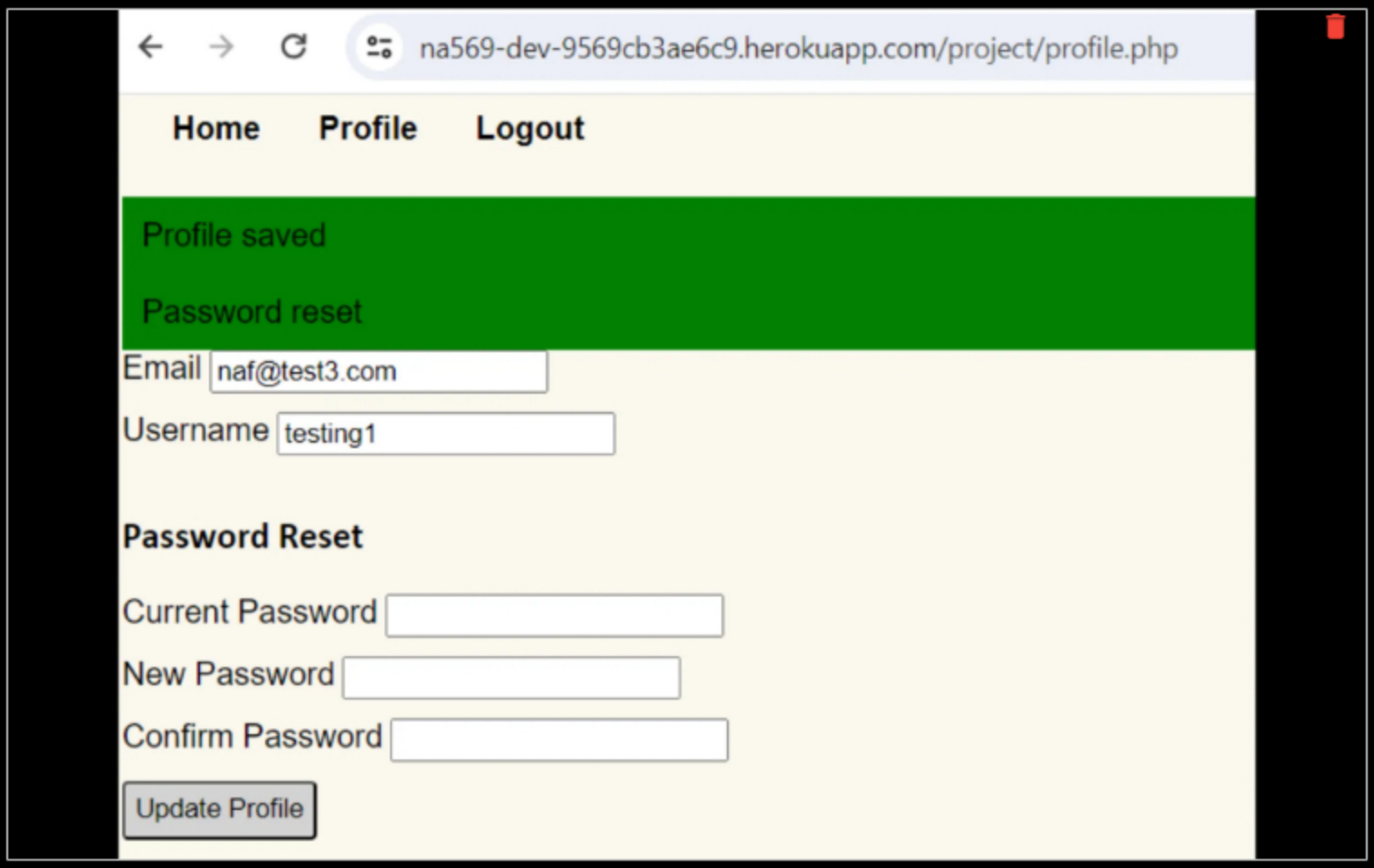
#3 Demonstrate with before and after of a username change (including success message)



after username change

Checklist Items (1)

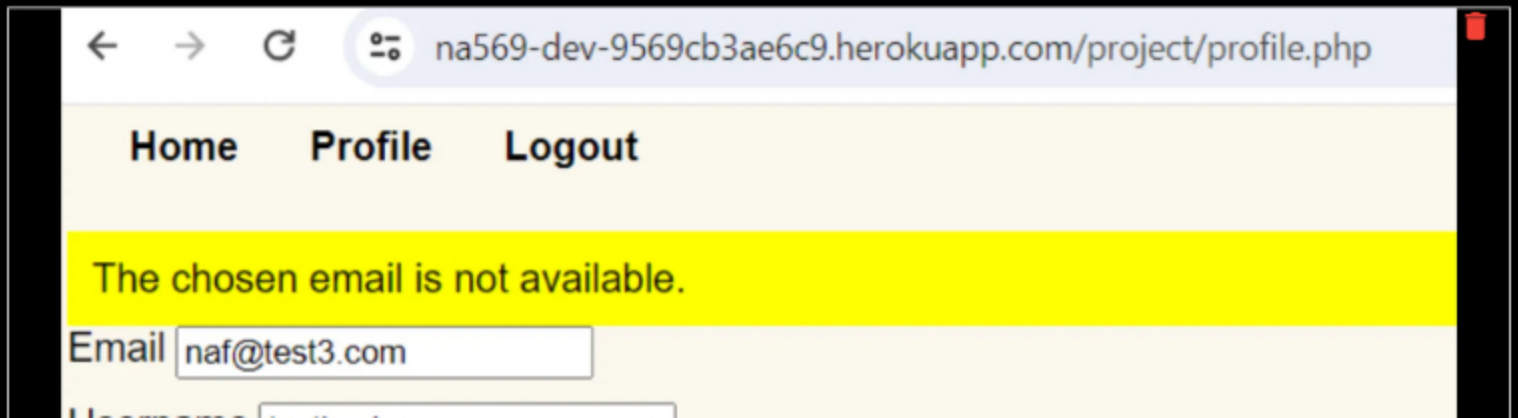
#3 Demonstrate with before and after of a username change (including success message)

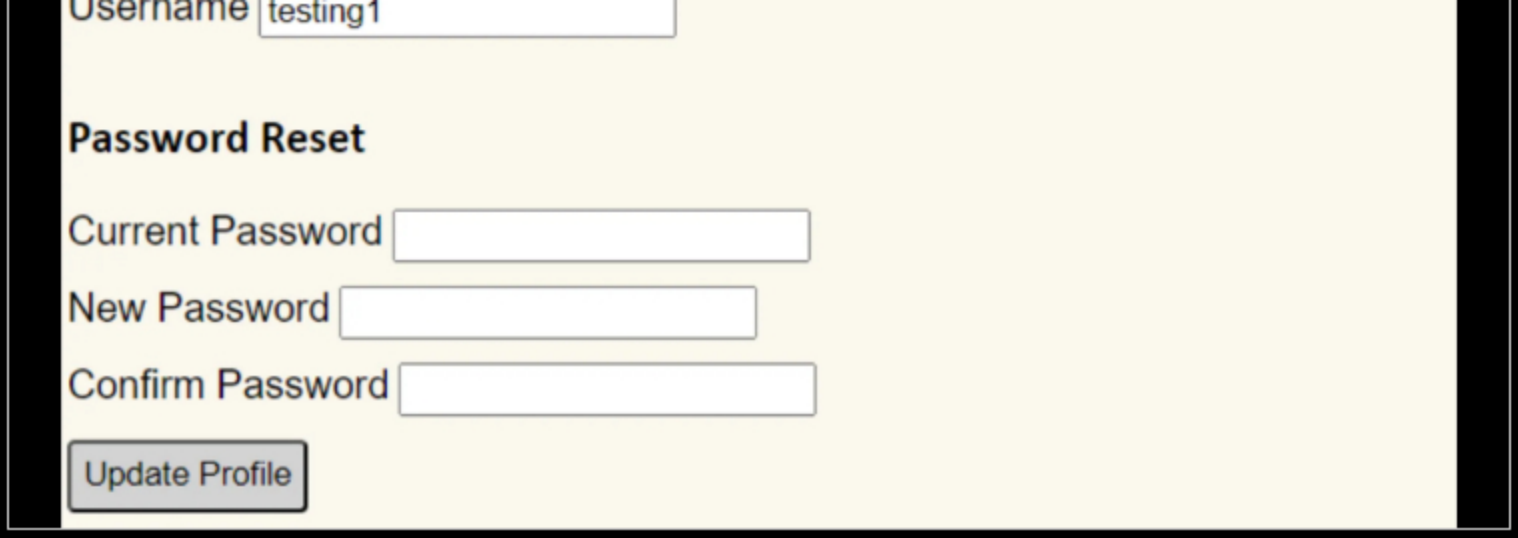


password reset

Checklist Items (1)

#5 Demonstrate the success message of updating password

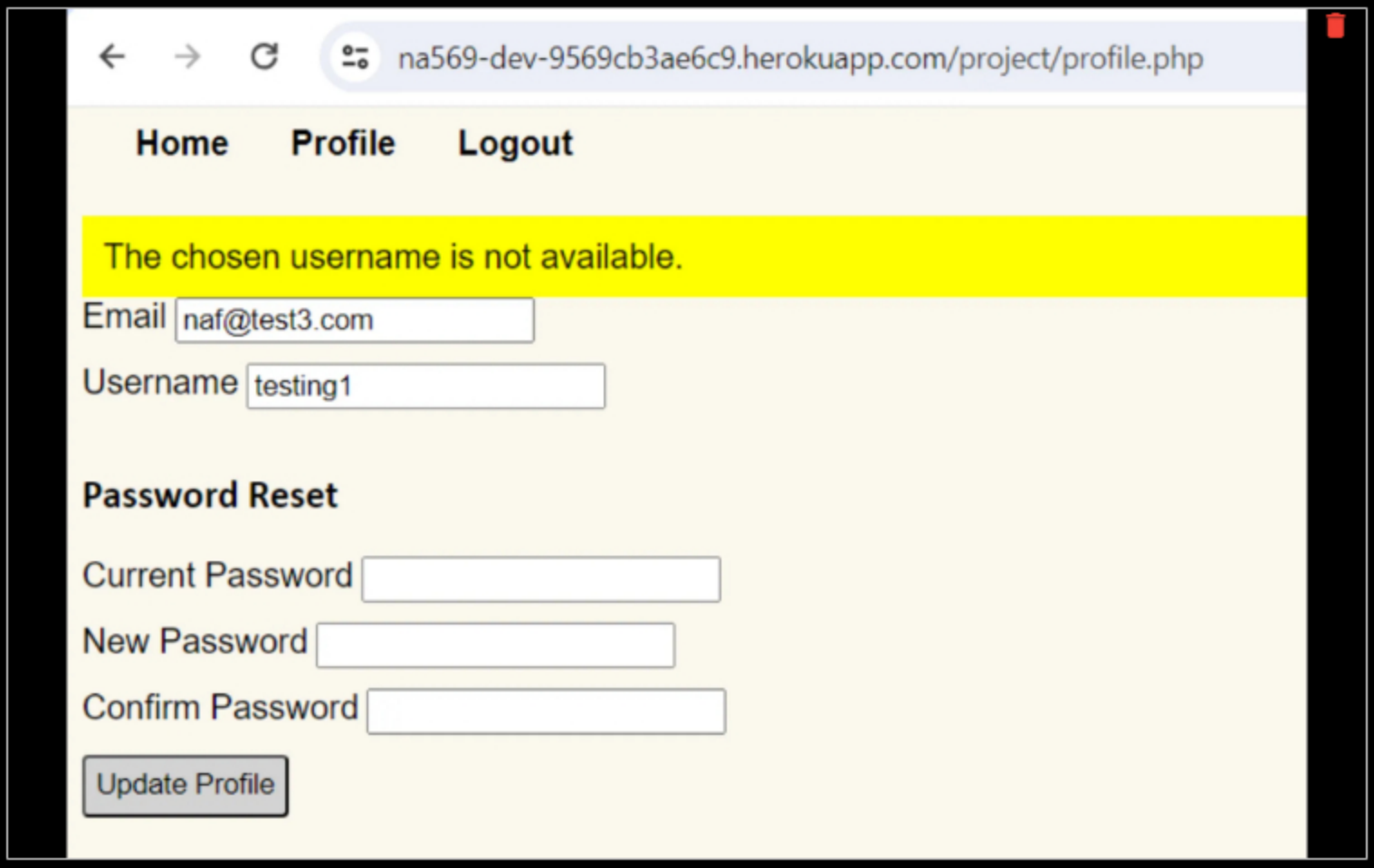




email already in use

Checklist Items (1)

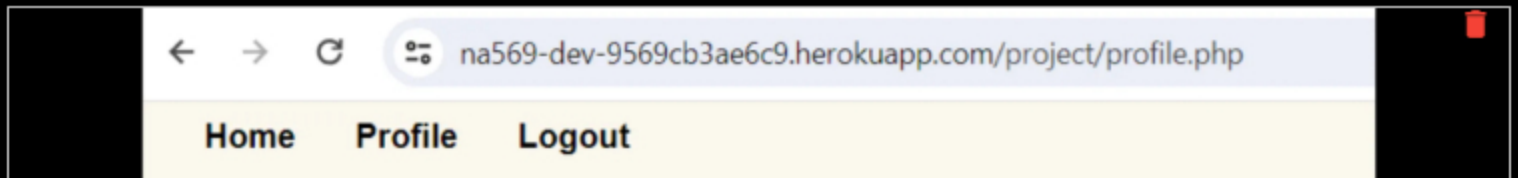
#7 Demonstrate PHP user-friendly validation messages (desired email is already in use, desired username is already in use, current password doesn't match what's in the DB)

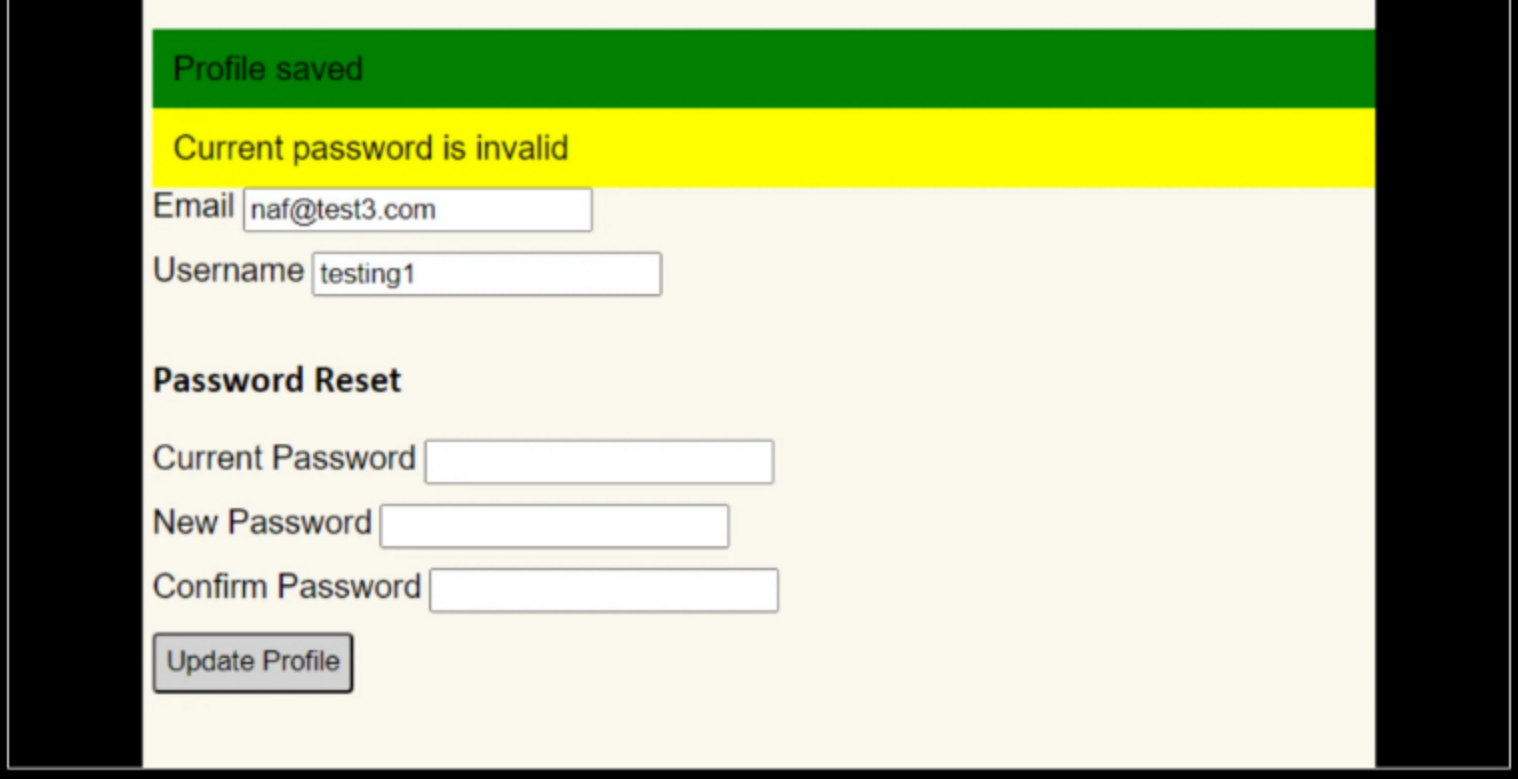


username in use

Checklist Items (1)

#7 Demonstrate PHP user-friendly validation messages (desired email is already in use, desired username is already in use, current password doesn't match what's in the DB)





current password doesn't match

Checklist Items (1)

#7 Demonstrate PHP user-friendly validation messages (desired email is already in use, desired username is already in use, current password doesn't match what's in the DB)

COLLAPSE

Task #4 - Points: 1

Text: Explain the logic step-by-step of how the data is checked and saved for the following scenarios

Checklist

*The checkboxes are for your own tracking

#	Points	Details
#1	1	Updating Username/Email
#2	1	Updating password
#3	1	Don't just show code, translate things to plain English

Response:

When the form is submitted, the code validates the information entered. If the data is valid, the SQL update query updates the information in the database. The password validity is also checked and updates. After submitting, the new profile data is fetched from the database and stored in the session.

COLLAPSE

Task #5 - Points: 1

Text: Include pull request links related to this feature

Details:

Should end in /pull/#

URL #1
https://github.com/nafisa37/na569-it202-008/pull/24

Misc (1 pt.)

COLLAPSE

COLLAPSE

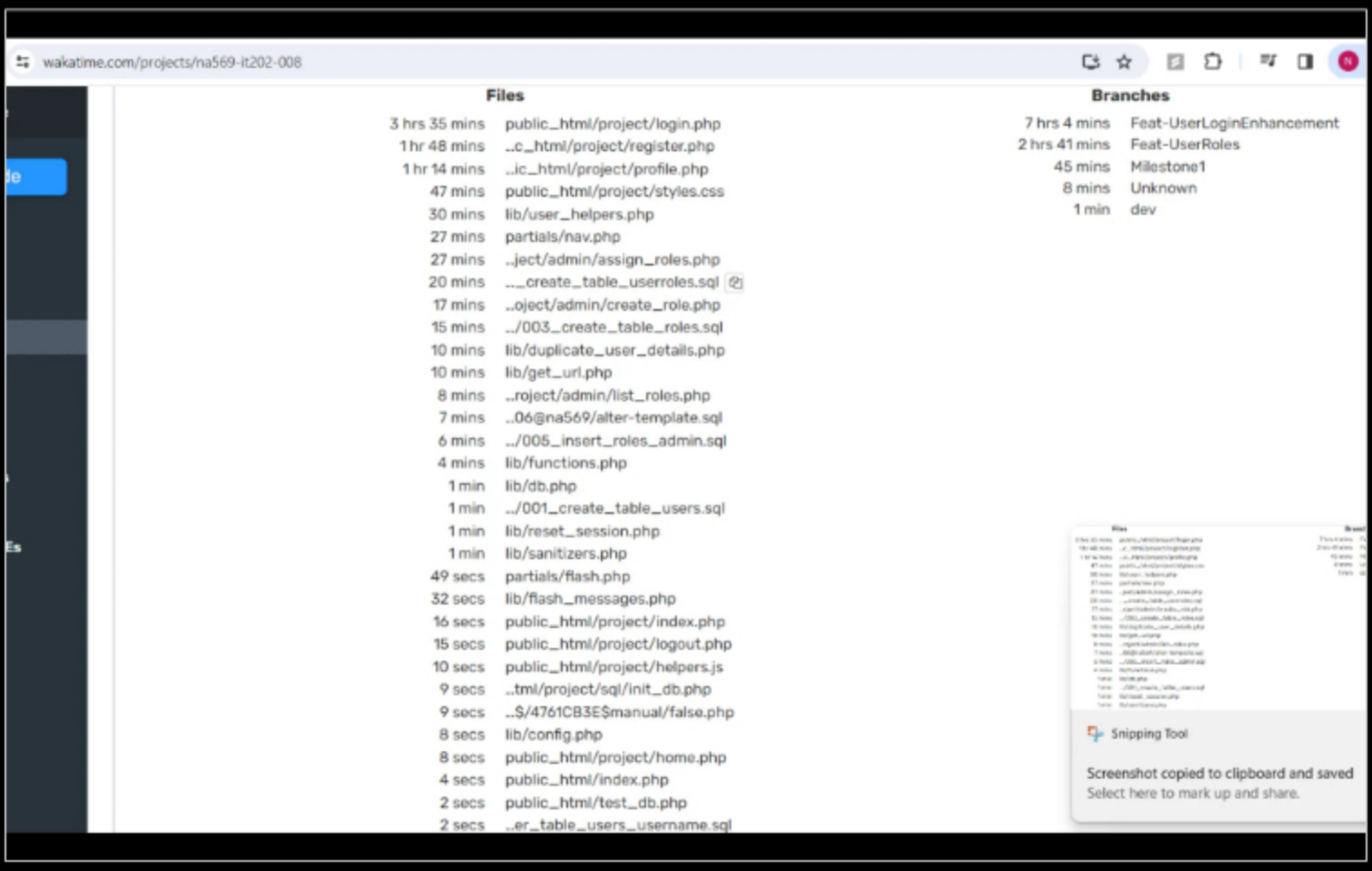
Task #1 - Points: 1

Text: Screenshot of wakatime

Task Screenshots:

Gallery Style: Large View

Small Medium Large



wakatime screenshot

COLLAPSE

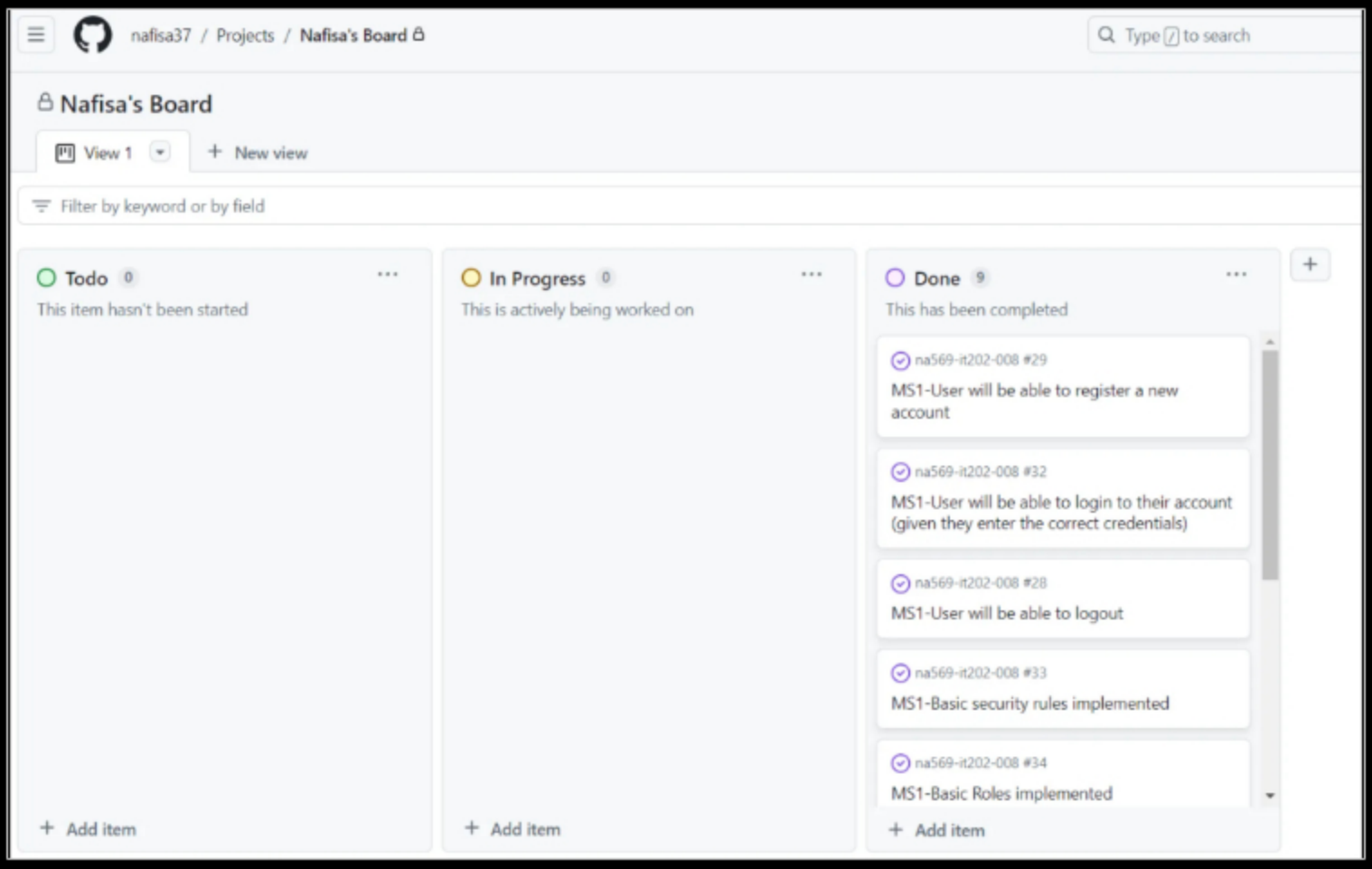
Task #2 - Points: 1

Text: Screenshot of your project board from GitHub (tasks should be in the proper column)

Task Screenshots:

Gallery Style: Large View

Small Medium Large



screenshot of 9 tasks for Milestone 1

COLLAPSE

Task #3 - Points: 1

Text: Provide a direct link to the project board on GitHub

URL #1

https://github.com/users/nafisa37/projects/1/views/1

COLLAPSE

Task #4 - Points: 1

Text: Provide a direct link to the login page from your prod instance

URL #1

https://na569-prod-74aadc581478.herokuapp.com/project/login.php

End of Assignment