Group Nice

NiceH&R
Use-Case Specification: Log in/ Log out/ Registration

Version <1.0>

Revision History

Date	Version	Description	Author
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1. Use-Case Name

1.1 Brief Description

The use case diagram illustrates the interactions between actors and the system for user authentication on a hotel and restaurant website. It encompasses three primary functionalities: "Login," "Logout," and "Registration." These functionalities facilitate the interaction between the system and the users, allowing new users to registration, existing users to log in, and all users to securely access and utilize the services offered by the website.

2. Flow of Events

2.1 Basic Flow

2.1.1 Login

1. The User accesses the website's login page.
2. System presents fields for email and password.
3. User enters valid credentials and submits.
4. System verifies the entered credentials.
5. - If credentials are valid, the system authenticates the user and grants access to the user's account.
   - If credentials are invalid, the system displays an error message, prompting the user to re-enter the correct credentials.

2.1.2 Logout

1. Authenticated User navigates to the logout option within their account.
2. User clicks on the logout button.
3. System terminates the user's session and redirects to the homepage or a confirmation page, confirming the successful logout.

2.1.3 Registration:

1. The Customer navigates to the "Registration" section on the website.
2. System presents a form requesting necessary information such as email, password, personal details, etc.
3. User fills in the required information.
4. System validates the provided information (checks for unique email).
5. - If all information is valid, the system creates a new user account and sends a confirmation message.
   - If any information is invalid or incomplete, the system prompts the user to correct the errors and resubmit the form.

2.2 Alternative Flows

2.2.1 Invalid Login Credentials

1. System verifies the entered credentials.
2. If credentials are invalid: System displays an error message indicating the incorrect credentials.
3. User is prompted to re-enter the correct credentials

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2.2.2   *Existing User During Registration*

1. System detects that the entered email or username already exists in the database.

2. System prompts the user with an error message indicating the need to choose a different email or username.

3. User is informed to provide unique credentials that are not already registered in the system.

3.   Special Requirements

3.1   Usability Requirement

The interface must be intuitive and user-friendly, ensuring ease of navigation and accessibility for users of varying technical proficiency. This includes clear instructions and appropriate form fields.

3.2   Data Integrity and Security

- Password Encryption: All passwords stored in the database must be encrypted using encryption algorithms to ensure data security and prevent unauthorized access.
- Secure Connection: The website has to ensure secure communication between the user's device and the server.

3.3   Performance Requirement:

Optimize website performance to ensure fast loading times and responsiveness, even during peak traffic periods.

3.4   Compatibility:

Should be compatible across various web browsers (e.g., Chrome, Firefox, Safari) and devices (desktops, tablets, mobile phones) to cater to a wide range of users.

4.   Preconditions

4.1   Login

- The website is accessible and operational.
- The user has an active and stable internet connection.
- The user has reached the login page of the website.
- User credentials (email and password) have been previously created and exist in the system.

4.2   Logout

- The user is currently logged into their account.
- The website is accessible and operational.
- The user has navigated to the logout option within their account settings.

4.3   Registration

- The website is accessible and operational.
- The user has reached the registration page of the website.
- The user provides valid and complete information required for registration (unique email, password, personal details).
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5.   Postconditions

5.1   Login

- If successful:
  - The user is authenticated and logged into their account.

- o Access is granted to the user-specific features, services, or information available within the logged-in state.
- o Session variables are set, allowing the user to navigate through different sections of the website without re authentication.
- If unsuccessful:
  - o The user remains in a non-authenticated state and is not granted access to their account.

5.2 Logout

- If successful:
  - o The user's session is terminated, revoking access to the account-specific features or services.
  - o The system redirects the user to the homepage or a designated landing page, confirming the successful logout.
- If unsuccessful:
  - o The user remain logged in or experience issues terminating the session

5.3 Registration

- If successful:
  - o The system creates a new user account associated with the provided credentials and personal details.
  - o The user receives confirmation of successful registration
  - o The newly registered user can proceed to log in using the registered credentials.
- If unsuccessful:
  - o The system does not create a new user account due to invalid or incomplete information provided during registration.
  - o The user is prompted to rectify the errors or provide missing information before resubmitting the registration form.
  - o No new account is created until successful submission of valid registration information.

6. Extension Points

6.1 Inactivity Timeout

Implement an inactivity timeout feature that automatically logs out users after a specified period of inactivity, enhancing security and protecting user accounts.

6.2 Instant Account Activation

Implement instant account activation upon successful registration