Book Alley

Use-Case Specification: Registration

Version 1.0

Revision History

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Table of Contents

[**1. Use-Case Name 4**](#_heading=h.30j0zll)

[1.1 Brief Description 4](#_heading=h.1fob9te)

[**2. Flow of Events 4**](#_heading=h.3znysh7)

[2.1 Basic Flow 4](#_heading=h.2et92p0)

[2.2 Alternative Flows 4](#_heading=h.tyjcwt)

[2.2.1 Invalid data 4](#_heading=h.3dy6vkm)

[2.2.2 Password strength 4](#_heading=h.1t3h5sf)

[2.2.3 If user already have an account 4](#_heading=h.lka2uov0a3tn)

[**3. Special Requirements 4**](#_heading=h.4d34og8)

[3.1 Security 4](#_heading=h.2s8eyo1)

[3.2 User experience 4](#_heading=h.w5h01a98mda8)

[3.3 Performance 4](#_heading=h.zcc52lmbsk9d)

[3.4 Compatibility 5](#_heading=h.2xtpsiuct0xk)

[**4. Preconditions 5**](#_heading=h.17dp8vu)

[4.1 Internet connectivity 5](#_heading=h.3rdcrjn)

[4.2 User access 5](#_heading=h.5hl05lmkmk0i)

[4.3 User information 5](#_heading=h.mmfvene2fq7m)

[4.4 No duplicate account 5](#_heading=h.dfau774e9zgp)

[**5. Postconditions 5**](#_heading=h.26in1rg)

[5.1 Account created 5](#_heading=h.lnxbz9)

[5.2 User login 5](#_heading=h.tuvijemqy6eu)

[5.3 User credentials 5](#_heading=h.bqy3ll8rw923)

[5.4 Access to user profile 5](#_heading=h.vs69zr2uq5el)

[5.5 Error handling 5](#_heading=h.cck0mpihws0q)

[**6. Extension Points 5**](#_heading=h.35nkun2)

[6.1 Social media integration 5](#_heading=h.1ksv4uv)

[6.2 Two-factor authentication 5](#_heading=h.8yby1xzh1l53)

[6.3 Multi-language support 5](#_heading=h.xunbv6dszijo)

[6.4 Captcha 6](#_heading=h.txhxw9y14e2)

[6.5 Third-party integration 6](#_heading=h.c2rpjz1hp3f6)

[6.6 User notification 6](#_heading=h.rn7thfqkvnw9)

Use-Case Specification: Registration

# Use-Case Name

## Brief Description

The registration use case for Book Alley enables user to create a new account to gain access to the all of the website features

# Flow of Events

## Basic Flow

1. The user navigates to the register page when click on “Register now” on the login page
2. The user is presented with a registration form to enter their information such as username, email, password
3. The user click “Submit” to submit the registration form
4. The system checks for valid data, ensuring that the email address is in the correct format, the username is not already in use, and the password meets security requirements.
5. If the data is valid, the system creates a new user account and stores the user's information in the database.
6. The system displays a confirmation message, indicating that the registration was successful.
7. The user is now able to log in using the newly created account.

## Alternative Flows

### Invalid data

1. If the system detects invalid data (e.g a poorly formatted email address or an already existing username), the user is prompted to correct the errors
2. The user then re-enter their information

### Password strength

1. If the user's chosen password does not meet the required security criteria (e.g., minimum length, including numbers and special characters), they are prompted to choose a stronger password
2. The user then re-enter their password to comply with the restriction

### If user already have an account

1. If the system detects the email that the user use to register already link to an account then they are notify with a message indicate that the email have been registered
2. The user is redirected back to the login screen

# Special Requirements

## Security

* The register process must be secure, using strong encryption protocols to protect the user’s information. User password must utilize industry-standard hashing algorithms to stored effectively

## User experience

* The register page must be intuitive, provide clear instructions and easy to use even for non-technical users
* The register page should provides other social media register options

## Performance

* The register process must be fast, responsive, the delay must be under 5 seconds

## Compatibility

* Register functionality must be supported on many popular browser such as Chrome, Opera, etc

# Preconditions

## Internet connectivity

* The user's device should have a working internet connection to access the registration form and submit the data.

## User access

* The website is accessible to the user, and they are on the registration page.

## User information

* The user has the necessary information required for registration, such as a valid email address, username, and password.

## No duplicate account

* The user does not already have an account with the same email address or username (if the system does not allow duplicate accounts).

# Postconditions

## Account created

* After successful registration, the user should have a new account created in the system.

## User login

* After successful registration, the user is automatically logged in or prompted to log in with their newly created credentials.

## User credentials

* The system should provide the user with information on how to log in, typically with their new username and password.

## Access to user profile

* Upon registration, the user should be able to access and customize their profile.

## Error handling

* In the event of a registration failure (e.g., due to a duplicate email or username), appropriate error messages should be displayed to the user, guiding them on how to resolve the issue.communication.

# Extension Points

## Social media integration

* This extension point can be triggered if the users want to register or log in using their social media accounts (e.g., Facebook, Google) as an alternative to traditional email-based registration.

## Two-factor authentication

* Enables users to set up and configure two-factor authentication methods for added security during the registration process.

## Multi-language support

* Offer the option for users to select their preferred language during registration and use the website in their chosen language.

## Captcha

* Implement captcha or other anti-spam mechanisms to prevent automated registration by bots or malicious users.

## Third-party integration

* Integrate with third-party services, such as a payment gateway or a loyalty program, during registration, if applicable to the website's functionality.

## User notification

* Provide users with notifications or prompts during registration about helpful features, tips, or opportunities to complete their profiles