

Business Requirements Document (BRD)

Project Overview:

The project aims to create a **User Registration Page** that allows users to register by filling out personal details such as SSN, name, gender, job role, and uploading a CV in PDF format. It will also include functionality for creating a username, email, and password with password strength validation. The form submission will be validated for format, field completion, and file types.

Objective:

The objective is to provide users with a seamless and secure registration experience with proper validations to ensure data accuracy.

Functional Requirements:

1. Form Layout and Design

- The registration form will have a clean and user-friendly design with aligned fields and responsive layouts.
- Users will fill out personal information, upload files, and choose from dropdowns.

2. SSN Field

- Users must enter their SSN in the format "XXX-XX-XXXX."
- Validation: Ensure the SSN contains only numbers and matches the required format.
- Error handling: Display an error message if the input doesn't match the format.

3. Name Fields (First Name, Last Name)

- **First Name:** Users must input only alphabetic characters (A-Z) with validation.
- **Last Name:** Same validation as the first name.
- Error handling: If non-alphabetic characters are entered, show a message indicating "Only letters are allowed."

4. Gender Selection

- Users must select their gender from three radio button options: Male, Female, or Other.
- One selection must be required.

5. Job Selection Dropdown

- Users will choose their job role from a dropdown menu containing options such as Developer, Tester, Designer, Manager, and Other.

- The job field is mandatory.

6. CV Upload

- Users must upload a CV in **PDF format** only.
- Validation: File type should be limited to PDFs. An error message should display if any other file type is selected.
- This field is mandatory.

7. Username Field

- Users must choose a unique username.
- No specific validation besides a required field.

8. Email Field

- The email input should follow a standard email format (e.g., user@example.com).
- The field is mandatory and validated.

9. Password Field

- The password must have a **minimum length of 8 characters**.
- It must contain at least one uppercase letter, one lowercase letter, and one digit.
- A password strength indicator should dynamically display the strength of the password based on these criteria.

10. Password Strength Indicator

- Users will see a real-time password strength meter.
- The meter will update based on the following:
 - Length (8 or more characters).
 - Includes at least one uppercase letter.
 - Includes at least one lowercase letter.
 - Includes at least one digit.

11. Submit Button

- Clicking the "Register" button will validate the form fields.
- If any field fails validation, a relevant error message will be displayed, and submission will be prevented.

- Upon successful validation, an alert "Form submitted!" will be displayed (final implementation may replace this with actual form submission logic).

12. Form Validation

- Client-side validation ensures that users fill out all mandatory fields and provide valid inputs.
 - Error messages should be clear and assist users in correcting their input.
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User Stories:

1. **User Story 1:** As a user, I want to enter my SSN in a specific format (XXX-XX-XXXX) so that my personal details are accurately recorded.
2. **User Story 2:** As a user, I want to enter my first and last name using only alphabetic characters to ensure name input is valid.
3. **User Story 3:** As a user, I want to choose my gender from pre-defined options (Male, Female, Other) so that my gender identity is accurately captured.
4. **User Story 4:** As a user, I want to choose my job from a dropdown list so that I can easily select my occupation.
5. **User Story 5:** As a user, I want to upload my CV in PDF format so that my resume is correctly uploaded and accepted.
6. **User Story 6:** As a user, I want to enter my email in a standard format so that I can ensure the system can contact me.
7. **User Story 7:** As a user, I want to create a strong password with at least 8 characters, including uppercase, lowercase letters, and digits, to ensure my account is secure.
8. **User Story 8:** As a user, I want to see a visual password strength indicator so that I know how strong my password is.
9. **User Story 9:** As a user, I want to be notified of any missing or incorrect fields upon submitting the form so that I can correct my mistakes.
10. **User Story 10:** As a user, I want to receive confirmation that my form has been successfully submitted so that I know my registration is complete.

Non-Functional Requirements:

1. Security:

- Sensitive information like SSN and password must be securely handled.
- Passwords must meet minimum security criteria (length, complexity).

2. Performance:

- The registration page should load within 2 seconds on a standard broadband connection.
- Form validation must occur in real-time without significant delays.

3. Usability:

- The form should be intuitive and easy to fill out with error messages that guide users.
- Labels and placeholders must be descriptive.

4. Accessibility:

- The form should be accessible with screen readers and have proper tab navigation for users with disabilities.

Technical Requirements:

1. Client-Side Technologies:

- HTML, CSS, and JavaScript for form creation, styling, and validation.

2. Cross-Browser Compatibility:

- The form must function correctly across modern browsers (Chrome, Firefox, Edge, Safari).

3. Responsiveness:

- The form must be fully responsive and adjust appropriately on various screen sizes, including mobile devices.

This BRD outlines the key functionality, user interactions, and technical considerations required to develop the User Registration Page.