

## Mini Project — Registration Form (HTML + Bootstrap + JavaScript)

### Objective:

Create a registration form webpage that accepts a user's name, email and password. When the user clicks Register, the page validates entries and shows a success message or an alert when something is wrong.

### Requirements (what the student must build)

1. A single HTML page named index.html.
2. Use Bootstrap CSS for styling (students should include Bootstrap via CDN in the head).
3. A centered card or container with a title “Registration Form”.
4. A form that contains these fields:
  - **Full Name** — text input (cannot be empty)
  - **Email** — email input (cannot be empty; must look like an email)
  - **Password** — password input (minimum 6 characters)
5. A **Register** button that triggers the validation and registration action.
6. A visible message area (below the form) where a successful registration message appears.

### Step-by-step instructions (student-facing, no code)

#### 1. Create project folder and file

- Make a folder named registration-form.
- Inside it create a file called index.html.

#### 2. Add page boilerplate

- Create a standard HTML page structure (doctype, html/head/body).
- In the head, set the page title to “Registration Form”.
- Add the Bootstrap CSS link (via CDN) in the head so you can use Bootstrap classes.

#### 3. Build the layout

- Inside the body, add a centered container or card (use Bootstrap utilities for margin, padding and width).
- Add the page heading “Registration Form” at the top of the card.

#### 4. Add form fields

- Add three labeled input fields stacked vertically:
  - Full Name (single-line text)
  - Email (email-type input)
  - Password (password-type input)
- Mark fields as required for the user (you will enforce the checks in JavaScript).

## 5. Add the Register control

- Add a button labeled “Register” below the fields.
- This button should not reload the page — it should run your JavaScript validation function when clicked.

## 6. Add a message area

- Add a small text area below the button where you will display “Registration Successful!” in green when the form passes validation.

## 7. Write JavaScript logic

- Place a script at the bottom of the HTML file (so it runs after the DOM is loaded).
- Create a function that:
  - Gets the input values for name, email, and password.
  - Trims whitespace from text fields.
  - If any field is empty, show an alert: “All fields are required!”
  - If the password length is less than 6, show an alert: “Password must be at least 6 characters!”
  - If all checks pass:
    - Set the message area text to “Registration Successful!” (visible and styled as success)
    - Clear/reset the form fields.

## 8. Save and test

- Open the index.html file in a browser.
- Test these cases:
  - All fields empty → alert shown.
  - Missing one field → alert shown.
  - Password shorter than 6 → alert shown.
  - Valid inputs → success message appears and form resets.

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## Deliverables (what students will submit)

1. index.html file.
2. A screenshot of the page after successful registration showing the success message.
3. A 3–4 line explanation describing:
  - Which elements were used (e.g., form fields, button, message area).
  - How validation is implemented (brief).