

# Web Development Foundation Course

## Day – 16 - Project

### Registration Form Project Guide

#### Objective

Create a **responsive registration form** using **Bootstrap 5** for styling and **JavaScript** for form handling, validation, and submission.

---

#### Project Structure

registration-form/

- index.html (Main HTML file with Bootstrap)
- script.js (Form validation & submission logic)
- (Optional: style.css for minor custom styles)

---

#### Sections to Implement

##### 1. HTML Structure (Using Bootstrap 5)

- **Container & Card Layout**
  - Centered card with shadow (mx-auto, shadow)
  - Max-width: 600px
- **Form Fields (Bootstrap-styled inputs)**
  - **Full Name** – Text input (form-control)
  - **Email** – Email input (HTML5 validation)
  - **Password** – Password input (with toggle option **Bonus**)
  - **Phone Number** – Tel input (with pattern validation)
  - **Gender** – Radio buttons (form-check-inline)
  - **Date of Birth** – Date picker (type="date")
  - **Course** – Dropdown select (form-select)
  - **Address** – Textarea (rows="3")
  - **Terms & Conditions** – Checkbox (form-check-input)
- **Submit Button**
  - Red button (btn-danger)
  - Full width (w-100)
- **Success Alert**
  - Hidden by default (d-none)
  - Green success message (alert-success)

---

##### 2. Bootstrap Styling Requirements

- ☒ **Layout & Spacing**
  - Use Bootstrap's container, card, and mb-3 for margins.
  - Responsive grid (if needed) with row and col-\*
- ☒ **Form Controls**
  - All inputs use form-control.
  - Radio buttons use form-check-inline.
  - Select dropdown uses form-select.
- ☒ **Colors & Styling**
  - **Primary Color:** Red (btn-danger, text-danger for heading).
  - **Background:** Light (bg-light on body).
  - **Card:** White with shadow (shadow).

---

☒ **Responsive Behavior**

- Works on **mobile** (stacked inputs).
- No horizontal overflow.

---

### 3. JavaScript Functionality

#### Form Handling (script.js)

1. **Collect Form Data**
  - Get values from inputs (getElementById).
  - Check radio buttons for gender selection.
  - Verify if terms checkbox is checked.
2. **Display Data in Alert (Demo Purpose)**
3. **Show Success Message**
4. **Reset Form**
  - **Required Fields Check**
  - **Email Validation**
  - **Password Strength (Bonus)**

---

### 4. Testing Checklist

☒ **Form Submission**

- Data collected correctly.
- Success message appears.
- Form resets after submission.

☒ **Responsive Design**

- Works on **mobile** (inputs stack vertically).
- No broken layouts.

☒ **Browser Compatibility**

- Works on Chrome, Firefox, Edge.

☒ **Bonus Features (If Implemented)**

- Password toggle visibility.
- Real-time validation (on input change).

---

### Submission Requirements

- index.html (Bootstrap CDN included)
- script.js (Form handling logic)
- (Optional) style.css (Minor custom tweaks)