ALMS

**✅ 1. Basic Structure (HTML)**

* HTML form banaya gaya hai jisme:
  + **Name input**
  + **Roll number input** (type = number)
  + **Class dropdown** with options like BBA, BCA, etc.
  + **Other class input** (only visible when "Other" is selected)
  + **Semester dropdown** (1 to 6)
  + **Generate QR button**
  + **QR Display section**
  + **Download QR button**
  + **Message display for errors (like duplicate entry)**

**✅ 2. Styling (CSS)**

* Center aligned layout with neat margins.
* Buttons styled with different colors:
  + Green for "Generate QR"
  + Blue for "Download QR"
* Error messages styled in red and bold.
* Hidden elements (like "Other" input) appear dynamically.

**✅ 3. Functionality (JavaScript)**

* **Window load:** Clear all fields and reset localStorage.
* **Class dropdown:** If "Other" selected → show new input box.
* **Generate QR:**
  + Fields validate hote hain (sab fill hone chahiye).
  + Roll number only numeric hona chahiye (no A-Z).
  + Duplicate check: Agar same name, roll, class, and semester localStorage mein already hai → error message.
  + Data QR code mein convert hota hai (JSON format).
  + QR code canvas ke form mein page pe show hota hai.
  + QR download ka option show hota hai.
  + Fields clear ho jaate hain after QR generation.

**✅ 4. QR Code Library**

* qrcode.min.js library ka use hua hai to generate canvas QR code.

**✅ 5. Download Feature**

* Canvas QR ko image ke form mein download karne ka button diya gaya hai (downloadQR() function).

**✅ 6. Local Storage**

* Students data localStorage mein temporary store hota hai (page refresh hone tak).
* Duplicate data prevent kiya jaata hai.
* Refresh hone par localStorage clear hota hai, taaki naya entry ho.

**✅ 7. Extra Features Added**

* **Class field dynamic hai**: "Other" choose karne pe text input dikhta hai.
* **Roll number input** only accepts numbers (ab text allowed nahi).
* **Message area** user feedback ke liye.
* **Download button** sirf QR generate hone ke baad hi show hota hai.
* Tumne request kiya tha **refresh button (footer)** ke liye — uska addition baaki hai (agar chaho toh main abhi add kar deta hoon).