

Pseudocode – V Care Medicals Patient Registration Form

Goal: Collect new patient details with strong client-side validation, clear feedback, and a review step before submission.

On Page Load (DOMContentLoaded):

1. Show today's date in the banner.
2. Cache DOM elements (byId, setError helpers).
3. Attach event listeners:
 - Name fields → live validation (First: letters/apostrophes/dashes 1–30; Middle: 0 or 1 letter; Last: letters/apostrophes/dashes with optional 2nd–5th).
 - DOB (text) → auto-format as MM/DD/YYYY; validate real date; range = [today-120y, today].
 - SSN (password) → auto-format XXX-XX-XXXX; require 9 digits; setCustomValidity on error.
 - Phone → auto-format to (XXX) XXX-XXXX; require 10 digits.
 - Email → pattern check name@domain.tld.
 - Address → line lengths, City regex, State must be selected, ZIP 5 or 9 (ZIP+4).
 - User ID → enforces 5–30, starts with a letter, only letters/digits/_/-; lowercase on blur.
 - Password → real-time strength checks (upper, lower, digit, special, length); forbid quotes: ensure it doesn't contain userid/first/last; confirm matches.
 - Sliders → Salary + Home Budget update live text on input.
 - Review button → build and reveal read-only summary panel.

Helpers / Utilities:

- function byId(id): return document.getElementById(id) function
- setError(input, errEl, msg):
errEl.textContent = msg or "" input.setCustomValidity(msg or "")
- function digitsOnly(s): return remove all non-digits

Field Logic (selected):

1. FIRST NAME on input:
if not /^[A-Za-z'-]{1,30}\$/ then setError("Only letters, apostrophes, dashes (1–30).") else clear.
2. MIDDLE INITIAL on input:
if value not "" and not /^[A-Za-z]\$/ then setError("One letter only.") else clear.
3. LAST NAME on input:
if length not 1 to 30 OR not /^[A-Za-z'-]*([2-5](?:nd|rd|th))?[A-Za-z'-]*\$/ then setError("Letters/apostrophes/dashes; optional 2nd–5th.") else clear.
4. DOB input/blur:
auto-format to MM/DD/YYYY while typing. if not strict MM/DD/YYYY → error.
create Date(yyyy, mm-1, dd); if invalid calendar date → error.
if date > today → error; if date < today-120y → error; else clear.
5. SSN on input:
keep 9 digits; format as 000-00-0000; if digits != 9 → error else clear.

6. PHONE on input:
keep 10 digits; format as (000) 000-0000; if digits != 10 → error else clear.
7. EMAIL on input:
if not /^[^\\s@]+@[^\\s@]+\\.[A-Za-z]{2,}\$/ → setCustomValidity else clear.
8. ADDRESS on input:
Line1 length 2–30; Line2 empty or 2–30; City regex; State selected; ZIP 5 or 9 (ZIP+4).
9. USERID input/blur:
enforce /^[A-Za-z][A-Za-z0-9_-]{4,29}\$/; lowercase on blur; no spaces.
10. PASSWORD input:
check length 8–30, upper, lower, digit, allowed special (no quotes). reject if equals/contains
userid/first/last (case-insensitive). CONFIRM input: must equal password.
11. SLIDERS oninput:
SalaryValue = toLocaleString(Salary); HomeBudgetValue = toLocaleString(HomeBudget).

On REVIEW Button Click:

1. fd = new FormData(form)
2. Map fields → review panel IDs (name, dob, email, phone, address, history, vaccination, salary, homeBudget, symptoms, userid, password).
3. Truncate ZIP display to first 5 digits if ZIP+4 is provided.
4. Show the review panel and scroll into view.

On SUBMIT:

- Let browser + custom validity prevent submission if any field is invalid.
- If valid, navigate to `thankyou.html` via form action (simulated success).

