EdgeTech

EdgeTech Registration Form – Design Rationale

COLOR Rationale

Primary Color: ■ Purple

I selected the color #703AB3 because it offers a balance of creativity and professionalism, provides excellent contrast with white text for accessibility, and works well across both desktop and touch-screen interfaces. Its deep violet tone supports a modern, premium visual identity and adapts cleanly to hover, focus, pressed, and disabled UI states.

Default	■	#703AB3	Main brand color.
Hover	■	#64349F	Slightly darker for mouse interactions.
Pressed	■	#592E8F	Deeper shade for touch feedback.

- ✓ WCAG-friendly
- ✓ Readable
- ✓ Legible
- ✓ Good for all screen types

Neutral Palette: Gray Scale

This keeps the interface clean and improves readability by giving contrast to each elements.

Dark: ■ #1A1A1A (not pure black)

Medium: ■ #555555

Light: ■ #9A9A9A

Border: ■ #DADCE0

Background: ■ #F9FAFB (not pure white)

- Pure black (#000000) on white causes **eye strain** (too much contrast) this the reason that I preferred #1A1A1A
- Dark gray (#1A1A1A) maintains readability with **less fatigue**
- Off-white background (#F9FAFB) reduces **glare** on bright screens.

Hierarchy Creation:
- **3 text weights** create clear information hierarchy
- Dark for primary content (labels, headings)
- Medium for secondary (hints, descriptions)
- Light for tertiary (placeholders, disabled states)

Semantic Colors

Error Red: 🟥 **#E63946**
- **Universal recognition:** Red = stop, danger, error
- High visibility and urgency
- 5.8:1 contrast ratio (WCAG AA compliant)
- Warm red (not pure red) - less aggressive

Success Green: 🟩 **#22C55E**
- **Universal association:** Green = go, success, correct
- Complements purple/pink palette
- Used sparingly for confirmation states
- Calming, positive reinforcement

Shadows

Light shadows are used only for elevation cues (buttons). They help users understand the visual hierarchy and clickable elements.

TYPOGRAPHY Rationale

Font Family: INTER

A clean, sans-serif font improves readability on both Full HD and 4K screens. Inter fonts ensure fast loading and native feel . Used **Font weight**s are regular, medium, semi-bold and bold (400, 500, 600, 700). This hierarchy helps guide the user's eye through the form logically. The **Sizing system** (12/14/16/24px) with a fixed scale ensures consistency while keeping the UI comfortable on desktop displays. Keeping **Line height (140%)** Improves legibility and reduces crowding on dense forms and comfortable reading option.

Type Scale:

Heading (24px/1.5rem) - Bold/700
- Subheading (16px/1rem) - Regular/400
- Body (14px/0.875rem - Regular/400
- Label (14px/0.875rem) - Medium/500
- Button (16px/1rem) - Semibold/600
- Caption (12px/0.75rem) - Regular/400

SHAPES Rationale

- **Fully rounded corners (100%)**
  Rounded shapes feel modern, friendly, and less rigid compared to sharp edges. They help create a welcoming experience for users during onboarding. Rounded corners reduce visual harshness.
- **Consistent geometry**
  Buttons, inputs, and cards follow a unified radius and spacing system. This improves visual harmony and reduces cognitive load. Generous spacing prevents mis-taps on touch screens
- **Card layout for grouping**
  Central **Single-column** layout maintains focus. Sectioning the registration form inside a card helps focus attention and reduces visual clutter, improving scanability. Vertical rhythm creates predictable scanning pattern.
- **Shadow** and elevation guide visual hierarchy

Form Container
- **Max Width:** 672px (42rem) - optimal line length for reading
- **Padding:** 40px - generous breathing room
- **Border Radius:** 8px - modern, friendly aesthetic
- **Shadow:** Soft elevation creates depth and focus

Input Fields
- **Height:** 48px - minimum **56px** touch target (Used)
- **Border Radius:** Full radius - consistent with container but more subtle
- **Border Width:** 1px - visible focus states
- **Spacing:** 24px between fields - clear separation

Button

- **Height:** 56px - larger for primary action prominence
- **Full Width:** Maximizes touch target area
- **Rounded:** Full radius - matches form field aesthetic

USER INTERACTIONS

Hover States

- Subtle color shifts on interactive elements
- Cursor changes to pointer for clickable items
- Border color preview on form fields

Click Feedback

- Immediate focus states with ring indicators
- Button press color scale transform
- Dropdown expansion with smooth transition

TECHNICAL SPECIFICATIONS

Asset Formats

Images:

- **Format:** PNG with transparency
- **Resolutions:**
  - @1x (baseline 1920x1080)
  - @2x (retina displays)
  - @3x (4K displays 3840x2160)
- **Color Space:** sRGB
- **Compression:** Lossless

Icons:

- **Format:** SVG (primary), PNG fallback
- **Size:** 24x24px base unit
- **Stroke Width:** 2px
- **Color:** Currentcolor (CSS inheritable)

Logos:

- **Format:** SVG (scalable), PNG @2x and @3x
- **Safe Area:** 16px minimum clearance

Mockups:

- **Wireframes:** JPG (high quality, 90%)
- **Final Designs:** PNG
- **Resolution:**
  - Full HD: 1920x1080px
  - 4K UHD: 3840x2160px