

## **1. Responsive Portfolio Website (One Page Layout)**

### **Goal:**

**Build a full one-page responsive portfolio site with scroll-based sections.**

### **Features:**

- **Hero section with background image and intro text**
- **About, Projects, Contact sections**
- **Responsive navbar with scroll highlight**
- **Sticky header**
- **Mobile hamburger menu with smooth slide toggle**

### **Use:**

- **Flexbox, Media Queries, Sticky Positioning**
  - **Scroll behavior, CSS animations**
  - **Grid for project cards**
  - **@media, z-index, position: fixed, overflow**
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## **2. Admin Dashboard Layout (CSS Grid Focus)**

### **Goal:**

**Design a 4-panel responsive admin dashboard.**

### **Features:**

- **Left sidebar (fixed), top navbar, content panel, and stats cards**
- **Cards with responsive layout (4/2/1 cards per row)**
- **Sidebar collapses into a drawer on mobile**

### **Use:**

- **CSS Grid for layout (grid-template-areas, minmax)**
- **grid-auto-flow, fr units, auto-fit/auto-fill**
- **Media queries for responsive restructuring**
- **overflow: auto, vh, calc(), gap, transitions**

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### **3. Product Landing Page With Animation**

#### **Goal:**

**Create a product landing page like Apple or Samsung.**

#### **Features:**

- **Hero section with animated text/image**
- **Feature sections with icons (Font Awesome or images)**
- **Pricing cards with hover/scale animation**
- **Responsive layout with clamp() for font sizes**

#### **Use:**

- **Keyframe animations, transform, transition**
  - **CSS Flexbox and Grid for structured layout**
  - **:hover, :focus, :nth-child**
  - **Media queries for column layout changes**
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### **4. Responsive Magazine Layout (Multi-column)**

#### **Goal:**

**Design a news site/magazine with a 3-column grid and complex sidebar widgets.**

#### **Features:**

- **Multi-column layout that breaks down to 1 column on mobile**
- **Responsive article cards with preview image, date, category, and tag**
- **Sticky sidebar widgets for trending/newsletter**
- **Article hover effects**

#### **Use:**

- **CSS column-count, column-gap**
- **CSS Grid + Media Queries**

- Pseudo-elements for date/time tags
  - position: sticky, object-fit, box-shadow
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## 5. CSS-Only Mega Dropdown Menu

**Goal:**

**Build a fully functional dropdown and mega menu without JavaScript.**

**Features:**

- Large dropdown menu on hover
- Submenus open in a grid layout
- Mobile version converts to vertical accordion dropdown

**Use:**

- :hover, :checked, :focus-within hacks
  - CSS Grid for mega menu content layout
  - Media queries for responsive stacking
  - Transitions and animation for smooth effects
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## 6. Responsive E-Commerce Product Grid

**Goal:**

**Design a responsive product listing page with a card grid layout.**

**Features:**

- Product image, title, price, rating, “Add to Cart” button
- Hover effect on cards
- Grid layout (4 on desktop, 2 on tablet, 1 on mobile)
- Filter sidebar collapses on smaller screens

**Use:**

- CSS Grid (repeat(auto-fit, minmax()))

- **grid-template-columns, gap, media queries**
  - **Card animation on hover**
  - **Sticky sidebar for filters**
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## **7. Full Website Footer with Widgets**

### **Goal:**

**Create a responsive footer with newsletter form, quick links, contact info, and social icons.**

### **Features:**

- **4-column layout on desktop, stacked on mobile**
- **Social icons with hover effects**
- **Newsletter with input validation style**

### **Use:**

- **Grid and Flexbox mix**
  - **::placeholder, :valid, :invalid**
  - **border-radius, box-shadow, input[type]**
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## **8. Responsive Resume (Printable + Web Version)**

### **Goal:**

**Design a personal resume page printable in A4 format and responsive for web.**

### **Features:**

- **Web version: multi-section resume**
- **Print version: A4-aligned single page layout**
- **Downloadable as PDF**

### **Use:**

- **@media print {}**

- CSS break-inside, page-break-after
  - grid-template-rows, font responsiveness
  - Use CSS-only collapsibles for skills/experience
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## 9. Animated Skill Bars + Responsive Grid

### Goal:

Create an animated skills section with progress bars.

### Features:

- Each skill bar fills on scroll
- Responsive layout (2 columns desktop, 1 mobile)
- Includes % counters and icons

### Use:

- @keyframes, animation-delay, animation-fill-mode
  - Flexbox + media queries
  - CSS custom properties (--color, --size)
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## 10. Responsive Form UI Kit

### Goal:

Build a complete, styled form UI with all input types.

### Features:

- Text, radio, checkbox, select, file input, datepicker
- Validation styles
- Responsive and accessible on mobile
- Floating label styles

### Use:

- :focus, :checked, :valid, :invalid
- CSS variables

- **flex-wrap, input layout in grid**
- **Responsive font sizing using clamp()**