Frontend Learning Calendar

**Phase 1: HTML (1 Week)**

**Day 1-2:**

* Learn HTML structure and syntax.
* Topics:
  + HTML tags, attributes, and elements.
  + Forms and semantic HTML.
* Project:
  + **Single-Page CV**: Create a single-page HTML CV.

**Day 3-5:**

* Deepen understanding of forms and media.
* Topics:
  + Forms with input validation.
  + Embedding images, videos, and audio.
* Project:
  + **Basic HTML Website**: Create a simple multi-page HTML-only website.

**Day 6-7:**

* Review and practice by building projects.
* Projects:
  + Refine the Single-Page CV and Basic Website projects.

**Phase 2: CSS (2 Weeks)**

**Week 2 (Day 8-14):**

* **Day 8-9:**
  + Learn CSS basics: selectors, properties, and box model.
  + Project: **Personal Portfolio**: Convert the HTML website into a styled personal portfolio.
* **Day 10-12:**
  + Responsive design and media queries.
  + Flexbox and Grid layout techniques.
  + Projects:
    - **Image Grid Layout**: Create a grid layout of images.
    - **Changelog Component**: Build a changelog component for a website.
* **Day 13-14:**
  + Advanced CSS features and animations.
  + Projects:
    - **Testimonial Cards**: Create testimonial cards.
    - **Tooltip UI**: Add a tooltip for navigation items.

**Phase 3: JavaScript (4 Weeks)**

**Week 3 (Day 15-21):**

* Learn JavaScript fundamentals.
* Topics:
  + Variables, functions, and loops.
  + DOM manipulation.
* Projects:
  + **Age Calculator**: Create an age calculator using JavaScript.
  + **Restricted Textarea**: Build a textarea with live character count.

**Week 4 (Day 22-28):**

* Advanced JavaScript features.
* Topics:
  + Events and asynchronous JavaScript.
  + Fetch API.
* Projects:
  + **Accordion**: Create an accordion component.
  + **Tabs**: Build a simple tabs component.

**Week 5 (Day 29-35):**

* Real-world JavaScript projects.
* Projects:
  + **Task Tracker**: Develop a to-do list.
  + **Cookie Consent**: Build a cookie consent banner.

**Week 6 (Day 36-42):**

* APIs and data handling.
* Topics:
  + JSON and API integration.
* Projects:
  + **Weather Web App**: Build a weather app.
  + **GitHub Random Repository**: Create a random repository finder.

**Phase 4: Frameworks (3 Weeks)**

**Week 7 (Day 43-49):**

* Introduction to React.
* Topics:
  + Components, state, and props.
* Projects:
  + **Quiz App**: Build a browser-based quiz application.

**Week 8 (Day 50-56):**

* Advanced React features.
* Topics:
  + Context API and React Router.
* Projects:
  + **Pomodoro Timer**: Create a pomodoro tracker app.

**Week 9 (Day 57-63):**

* Capstone project using React.
* Project:
  + **Portfolio with React**: Build an interactive portfolio.

**Phase 5: Advanced Projects (2 Weeks)**

**Week 10 (Day 64-70):**

* Work on API-heavy projects.
* Projects:
  + **Reddit Client**: Develop a client for subreddit browsing.

**Week 11 (Day 71-77):**

* Focus on advanced features and design.
* Project:
  + **24hr Story Feature**: Create an Instagram Stories clone.

**Daily Routine**

1. Spend 2 hours learning topics.
2. Dedicate 2-3 hours on project implementation.
3. Allocate 30 minutes for review and debugging.

**Completion Goal**

By Week 11, you will have built a portfolio with multiple projects showcasing skills in HTML, CSS, JavaScript, and React, preparing you for entry-level frontend developer roles