MINI PROJECT IDEAS

Here's a list of some mini project suggestions :

1. **Expense Tracker**

   A simple app to log daily expenses with categories (food, transport, etc.) and visualize spending patterns.

2. **Recipe Finder**

   Search recipes by ingredients; displays cooking instructions and nutritional info using a food API.

3. **Password Generator**

   Creates strong, customizable passwords (length/special characters) with copy-to-clipboard functionality.

4. **Language Flashcards**

   Interactive flashcards for vocabulary practice with flip animation and progress tracking.

5. **Bookmark Manager**

   Chrome extension or web app to organize bookmarks with tags, search, and quick links.

6. **Pomodoro Timer**

   Focus timer with work/break intervals, task tracking, and productivity statistics.

7. **Quiz App**

   Timed trivia game with multiple categories (science, history) and score leaderboards.

8. **URL Shortener**

   Web service that converts long links into short, shareable URLs with click analytics.

9. **Memory Game**

   Card-matching game with difficulty levels (grid size) and move/timer counters.

10. **BMI Calculator**

   Tool to calculate Body Mass Index with personalized health category feedback.

11. **Currency Converter**

   Real-time exchange rate calculator using financial API (e.g., Forex).

12. **Habit Tracker**

   Calendar-based app to log daily habits and visualize streaks (e.g., meditation, exercise).

13. **Music Player**

   Minimalist audio player with playlist support, progress bar, and volume control.

14. **Word Counter**

   Text analysis tool that counts words, characters, and reading time; highlights frequent words.

15. **Local Restaurant Finder**

   Uses geolocation and APIs like Yelp/Zomato to show nearby eateries with filters (cuisine, rating).

Tech Stack Suggestions:

- Web: HTML/CSS/JavaScript (React/Vue)

- Mobile: Flutter/React Native

- APIs: RESTful services (free tiers available)

- Backend: Python/Node.js for data processing

Choose based on your learning goals! Each project can be scaled from basic to advanced features.