Password Generator

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Objectives

- Validate software concept and test feasibility
- Reduce exposure to risk
- Demonstrate usability and user interaction
- Gather early feedback and make data driven engineering decision
- Gather technical insights to drive later development directions and make informed decisions

System Overview

Key Features

- 64 character long password using standard pool
- Regenerate and copy password
- User option to choose password characteristics
- Entropy, bit, crack time, and strength indicator

Process & Lifecycle
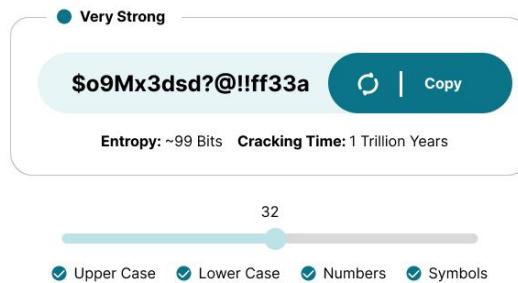
- **Process:** Waterfall Method
- **Lifecycle:**
    - Planning
    - Analysis
    - Design (Figma Prototype)
    - Implementation (Web-Based)
    - Testing & Integration
    - Maintenance

Scope, Budget, & Risk

- The minimum viable product approach
- Validating core concepts to keep the budgets low, and initial cost and scope limited
- Prevent scope creep

Mockup & Prototype

Conclusion & Recommendation

1. Responsive design
2. Reduce load time and increase performance
3. Add password manager and alert for breach