

# h4\$h3d- Your Digital Fortress Proposal

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**Customer (C):** Hello, I've been thinking about the need for a reliable password manager app. With so many online accounts, I often struggle to keep my passwords secure and easily accessible. Do you think your team can help with that?

**Team Executive (E):** Absolutely, C! We've been working on a Password Manager project, and it addresses all your concerns. Let me explain how our app can solve these problems:

## 1. Random Password Generator:

- Our app can generate strong, random passwords for you, ensuring your accounts are secure.

## 2. Checking for Password Breaches (Pwned):

- We integrate a feature that checks if your passwords have been compromised in any prior data breaches using *k-anonymity*. Your security is our priority.

## 3. Strength Checking:

- The app will assess the strength of your existing passwords and suggest improvements, ensuring you have robust credentials.

#### 4. Secured Storage and Management:

- We employ state-of-the-art encryption to store your passwords securely, giving you peace of mind about your data's safety. Also we manage your credentials for different applications so you don't need to remember all of them.

#### Planned Additional Features:

- **2-Factor Authentication (2FA):** Enhance your account security with 2FA for supported services.
- **Secure Alias Password Generator: Share Complex Passwords with Ease:** Are you tired of sharing lengthy, complicated passwords? Our Secure Alias Password Generator offers a smart solution. Generate a temporary, easy-to-remember 'alias' password for your lengthy credentials, and keep your accounts secure.

#### Key Features:

1. **Password Alias Generation:** Create a simplified 'alias' password for any complex credential.
  2. **Sharing with others:** An alias password with temporary validity can also be generated for sharing with your friends and family. It is only valid for a limited time, typically 5 minutes. After that, it becomes obsolete, adding an extra layer of security.
- **Forget Password:** Able to retrieve your account even after forgetting your password.
  - **MFA:** Conveniently manage multi-factor authentication codes (similar to Google Authenticator).
  - **Autofill:** Automatically fill up credentials on any website you wish to login for a smooth and seamless experience.

#### C: Is the Project Feasible for 2nd-Year Students?

**E:** This project is indeed challenging but exciting, and it's well-suited for second-year students. We'll have the opportunity to apply our programming and security knowledge in a real-world context, which will be an invaluable learning experience. Our team is ready to take on the challenge and build a secure and user-friendly app.

**Additionally, our team will mentor and support each other throughout the project to ensure its success.**

**C:** That sounds promising! I believe this app could be a game-changer for users like me. Let's go ahead with the project!

**E:** Great! We'll start working on it and keep you updated on our progress. If you have any specific requirements or features you'd like to add, feel free to share them along the way.