

h4\$h3d- Your Digital Fortress

Feasibility Report

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Customer: The project, titled "h4\$h3d - Your Digital Fortress," is undertaken for our esteemed customer, YOU. That's right, the project is envisioned to be a helpful tool for any internet user who feels the need for a reliable password manager application that enhances security while simplifying password management.

Visibility Plan: Given that our customer is a representation of the general internet user seeking a reliable password manager, our visibility plan aims to ensure accessibility and ease of use. We will try to ensure a user-friendly design and proper documentation to ensure users can make the most out of our application. Our team will use a combination of communication tools, including Slack for real-time messaging and collaboration, and Trello for project task management. We will have weekly team meetings to discuss progress, address challenges, and plan the upcoming tasks.

Statement of the Task: The task at hand is to design, develop, and deploy a comprehensive password manager application that incorporates advanced security features, user-friendly interfaces, and robust data management capabilities.

Preliminary Requirements Analysis: The following mandatory high-level requirements have been identified:

- Password generation with strong encryption
- Password breach checking
- Password strength assessment
- Secure password storage and management

Following additional features have also been identified:

- 2-Factor Authentication (2FA) support
- Alias password generation and sharing
- Password recovery mechanism
- Multi-factor authentication (MFA) code management
- Autofill functionality

Suggested Deliverables:

1. Detailed project proposal
2. Feasibility study report
3. Design document
4. Final production-ready application
5. Comprehensive documentation

Process to be Followed: We plan to follow an iterative development process, combining elements of the modified waterfall model and phased development. This approach will allow us to incrementally build and refine the application, addressing critical features first while ensuring quality and security at each stage, and then adding on additional features if time permits.

Outline Plan (Principal Activities and Milestones):

- ❖ Requirement analysis and documentation
- ❖ UI/UX design and prototyping
- ❖ Core functionality development (password generation, breach checking)
- ❖ Security implementation and testing
- ❖ Additional functionality development (alias passwords , 2FA and MFA authentication)
- ❖ Final testing, bug fixes, and optimization
- ❖ Documentation completion

Risk Analysis: While we are enthusiastic about this project, we acknowledge potential risks, including:

- Security vulnerabilities
- Technical challenges in encryption and password management
- Scope creep
- Resource constraints
- Unforeseen external dependencies

Our fallback plan includes a commitment to addressing bugs and scope changes systematically along with limiting the functionality provided.

Probable Technical Requirements:

- ★ Web development frameworks: Django, Express.js, Bootstrap
- ★ Programming languages: Python, JavaScript
- ★ Public APIs

★ Encryption libraries and protocols

In conclusion, the "h4\$h3d - Your Digital Fortress" project is both technically feasible and well-aligned with the customer's needs. With a well-defined development process, risk mitigation strategies, and a talented team, we are confident in our ability to deliver a secure and user-friendly password manager application.