Section 1

A) Name of project: PictPass

B) Spring 2024

C) Group 4

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Section 2

Section 3

Section 4

Section 5

What is your product, on a high level?

A website gatekeep with image selection order as a cybersecurity method

Whom is it for?

It is for anyone who visits the website, or anyone who wants to install or use it on their website.

What problem does it solve?

provides security for users who are logging in and the data contained behind the security. It adds a new method for protecting data that hasn't been used publicly yet.

What alternatives are available?

There are image rotating games (make the hippo right-side up), image choosing game, write the poorly drawn letters and numbers.

Why is this project compelling and worth developing?

It’s always important to develop new methods and ways of protecting data to help mitigate brute force and bot attacks.

Describe the top-level objectives, differentiators, target customers, and scope of your product.

To provide a new security method/product that brings a new approach to login security. It’s different because most people haven't seen an image choice order-based security method. It would be developed for anyone who has sensitive data that needs protecting but wants a new option from the ones that are already available.

What are the competitors and what is novel in your approach?

Captcha and related are similar in structure and use. There are always ways around or ways to trick the security of applications, especially those that contain private personal data, which includes social security numbers, credit card numbers, banking information, email accounts, heath data, etc. Evolving new methods and changing old methods is paramount to keeping data safe and secure.

Make it clear that the system can be built, making good use of the available resources and technology.

20 images would provide a password complexity of 20! Image choice-based passwords would be a departure from standard these days that require letters, numbers, symbols, and case sensitive.

What is interesting about this project from a technical point of view?

The security app should be written in a way for it to be modified, scaled easily, or improved.

Do you have a client login and an admin login?

It should have a client log in for making user password, but also an admin login for changing and enforcing new password requirements and standards.

Section 6

Contextual Diagram

A black and white diagram

Description automatically generated

Activity Diagram

A screenshot of a computer screen

Description automatically generated