Graphical Password Authenticator
Team UM7 Sprint 3

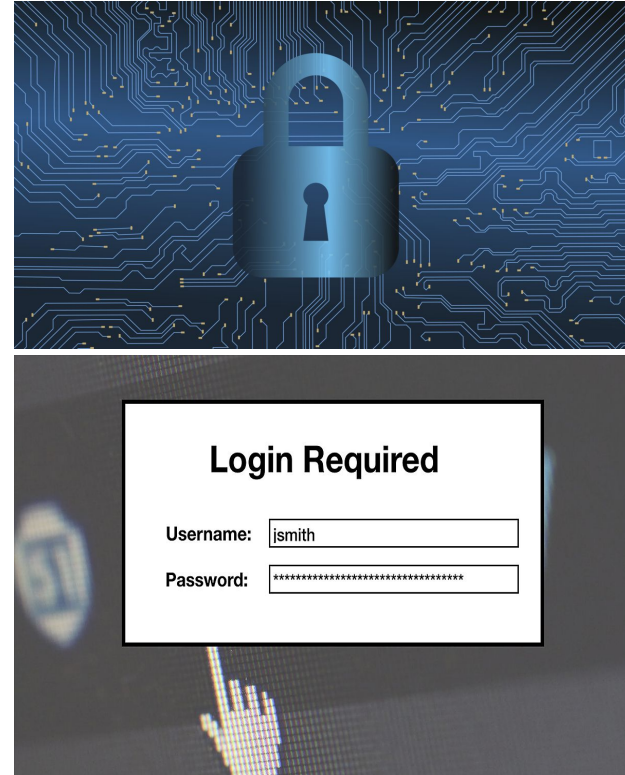**PM:** Ugonma Nnakwe, Eunice Olorunshola
SM: Tommy Lim, Nafis Hoque
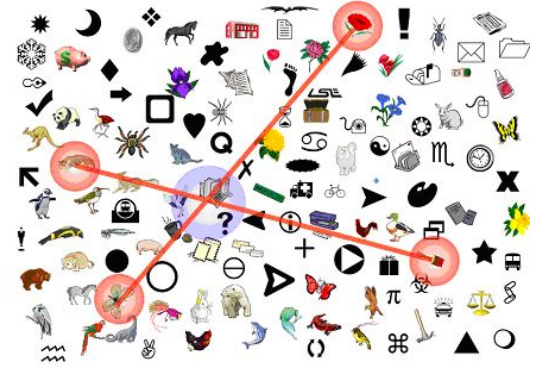**Programmers:** Nicholas Tatgenhorst, Rafaan Ahsan

Product Overview

What is a Graphical Password Authenticator?

- Images rather than letters, digits, or special characters

- User-friendly (convenience/simplicity)

- *May* be more secure*

Purpose

- Implement an image sequence, graphical password authentication system

- Successfully register and authenticate users

Live Demonstration

Product Design

System Technology Platforms & Technologies Used

- HTML and Javascript for UI and frontend

- PHP for server-end operations

- mySQL database

- Developed primarily for web based browsers

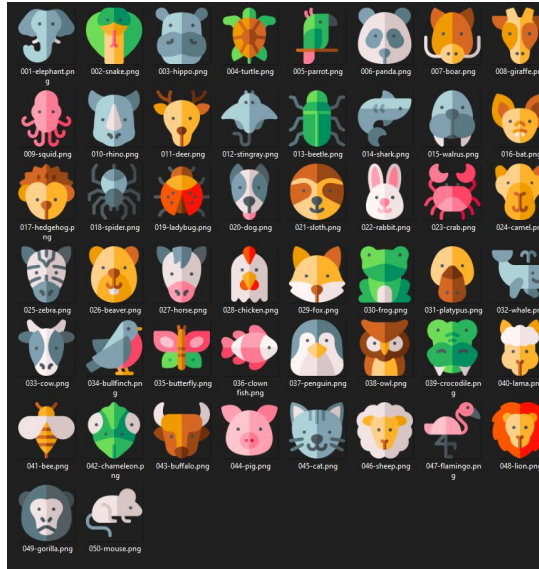- Not fully optimized for mobile devices

Assets Used

- 350 icons used from flaticon.com from three different packs

gastronomy pack (food): 230 icons
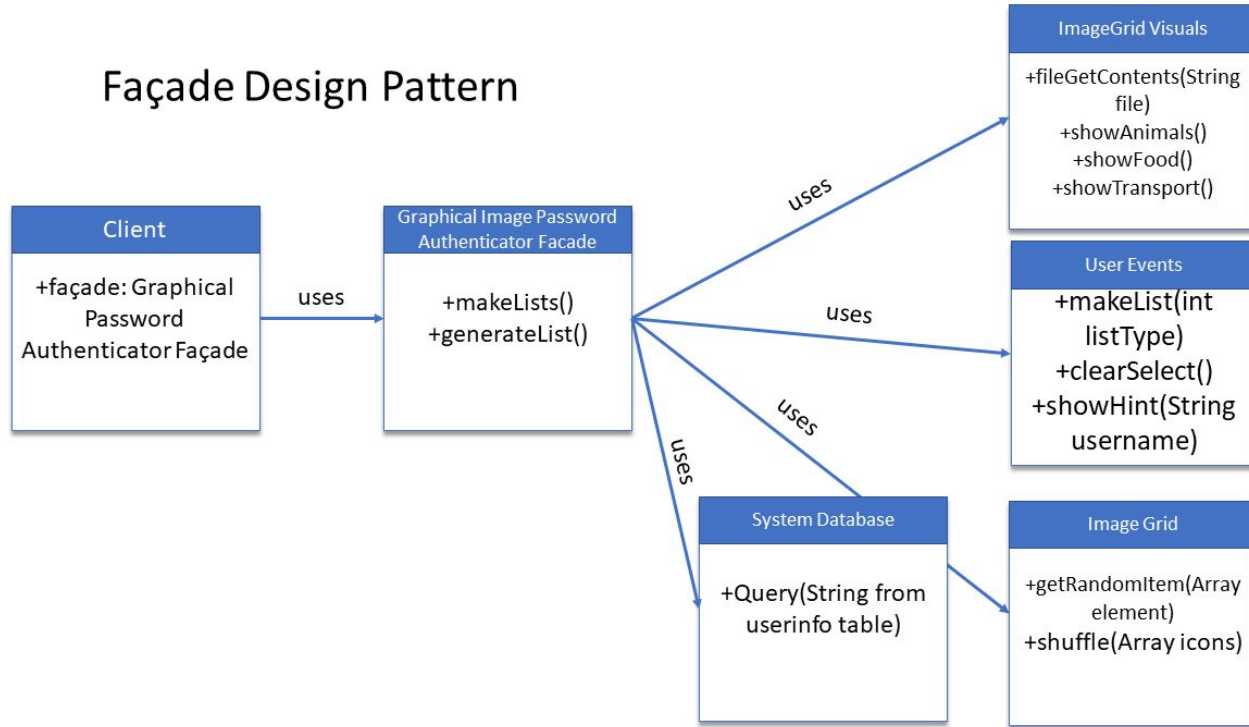

animals pack: 50 icons
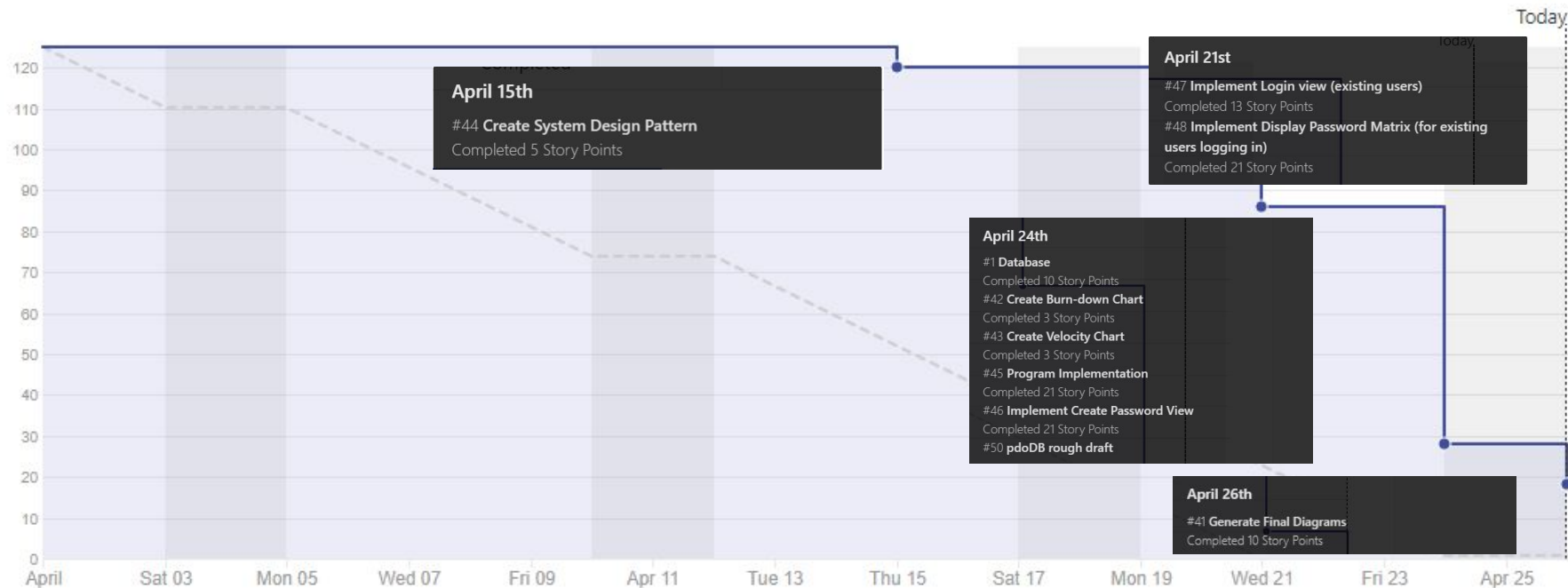

transportation pack: 70 icons

Design Pattern

Façade Design Pattern

Client

+façade: Graphical Password Authenticator Façade

→ uses →

Graphical Image Password Authenticator Facade

+makeLists()
+generateList()

uses

ImageGrid Visuals

+fileGetContents(String file)
+showAnimals()
+showFood()
+showTransport()

uses

User Events

+makeList(int listType)
+clearSelect()
+showHint(String username)

uses

System Database

+Query(String from userinfo table)

Image Grid

+getRandomItem(Array element)
+shuffle(Array icons)

ZenHub Components

Burndown Chart
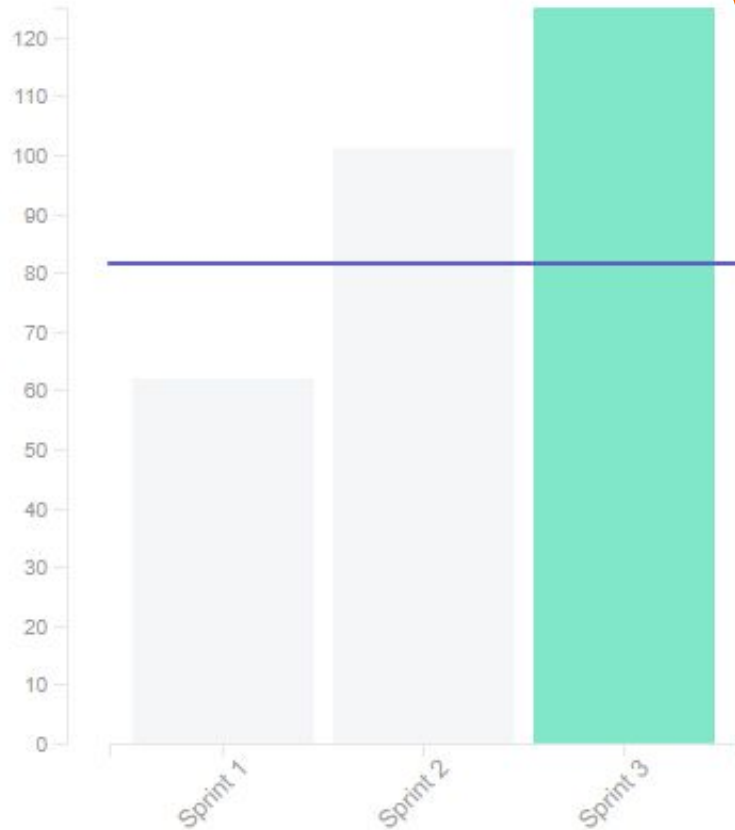
Issues Not Completed

Remaining Issues and Pull Requests   **Story points**

⊘ Encryption `Epic`   `10`
   graphical-image-password-authenticator #52 - ▯▯▯ New Issues ⚐Sprint 3

⊘ Implement lockout function   `8`
   graphical-image-password-authenticator #53 - ▯▯▯ New Issues ⚐Sprint 3

- Unable to implement the lockout function in time

Sprint Obstacles

Technology Roadblocks & Developmental Setbacks

- Inexperienced programmers

- Faulty/inefficient initial planning & research

- Complicated initial concept that was hard to follow, we had big ambitions that were ultimately hard to implement

Team Collaboration Obstacles

- Lack of Face-to-Face communication
  - Harder to connect
  - Harder to gain full perspective/understanding

- Indecisiveness on what should be prioritized

- Initiative could have been better

Summary

- Create graphical password authenticator

- Using HTML (CSS), Javascript, and PHP

- Using MySQL

- Team faced collaboration obstacles

- Some key features could not implemented