

PinBerry: A Lightweight and Personalized System for Photo Navigation

Presented by
J.S Herrera Rodriguez

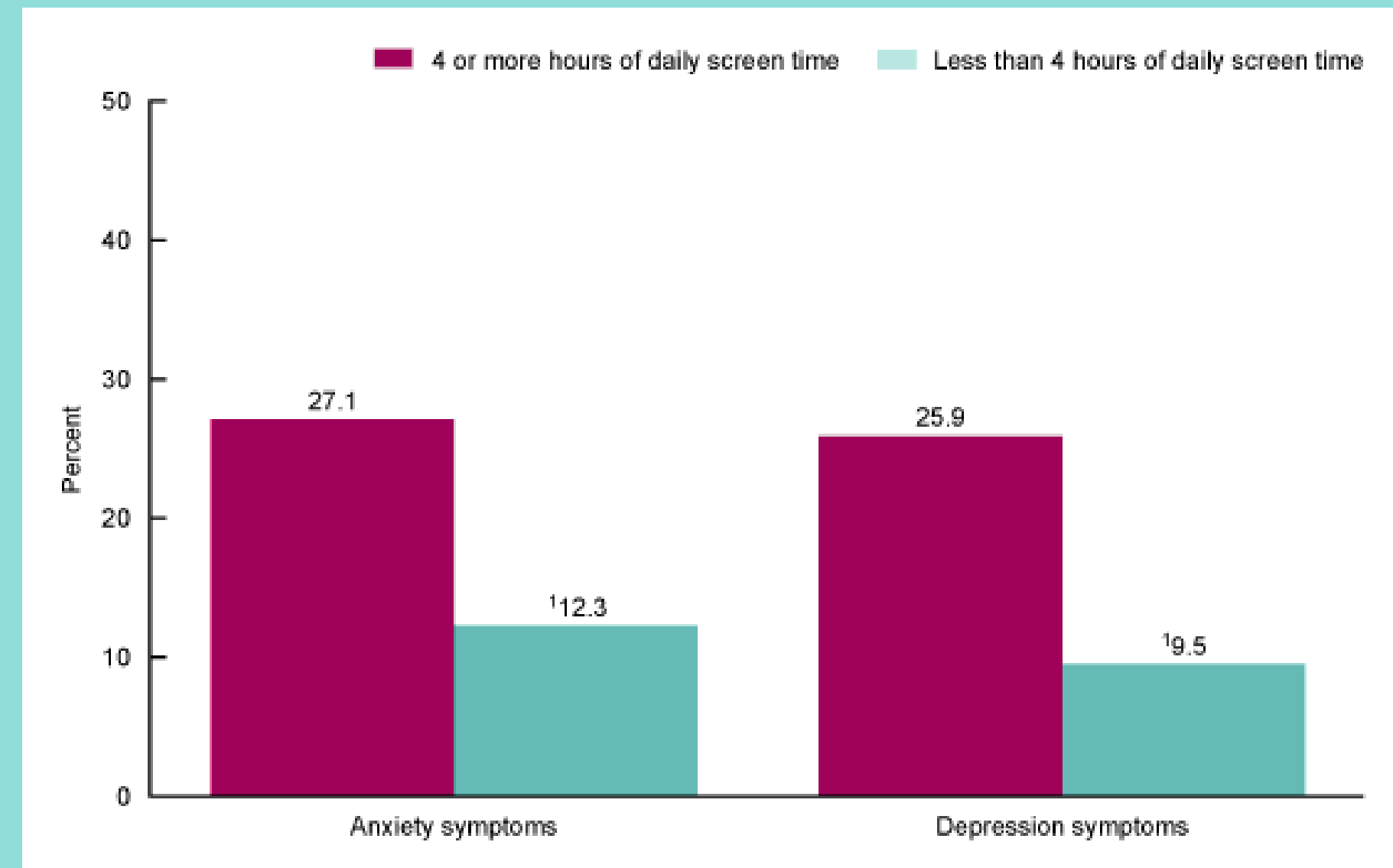
Presented by
I. Chica Becerra



Problem

Current social networks have too many features.

Some users just want a simple space to store and view memories without social pressure.



Percentage of teenagers ages 12-17 who had symptoms of anxiety or depression in the past 2 weeks, by daily screen time: United States, July 2021-December 2023

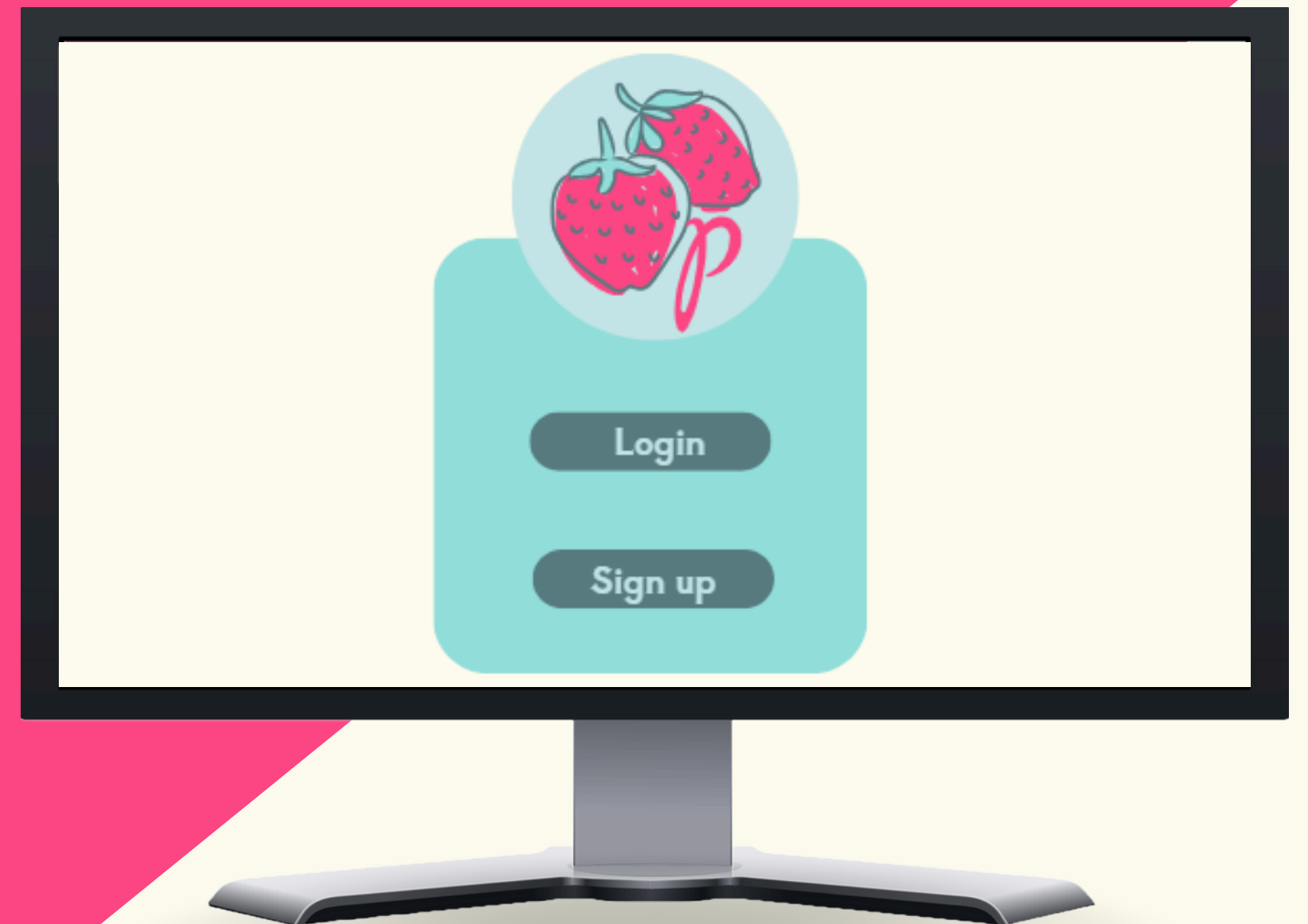


Project motivation

We created PinBerry to provide a calmer experience, focused on the essentials: your photos and your mental health.

General objective

To develop a web application that allows users to view, upload, delete, and download images in a simple and user-friendly way.



Inheritance & polymorphism

PinBerry uses inheritance for media types and polymorphism to handle them uniformly.

SOLID

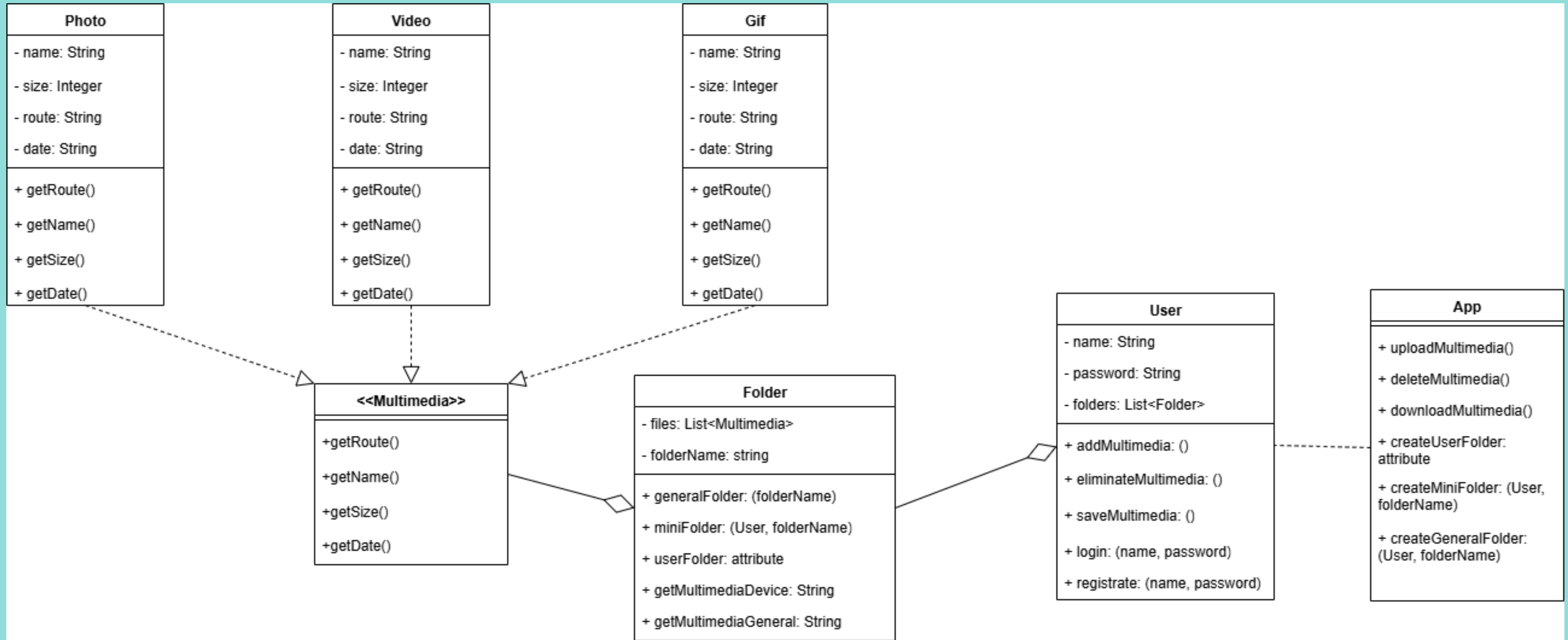
SRP:
Each class has one reason to change, e.g., User handles only user actions like login and registration.

OCP:
New media types can be added via interfaces without changing existing code, like multimedia extension.

LSP:
Subclasses (Photo, Video, Gif) can replace the interface Multimedia without issues, ensuring uniform handling

ISP:
Interfaces are specific; Multimedia only includes necessary methods, avoiding unnecessary dependencies.

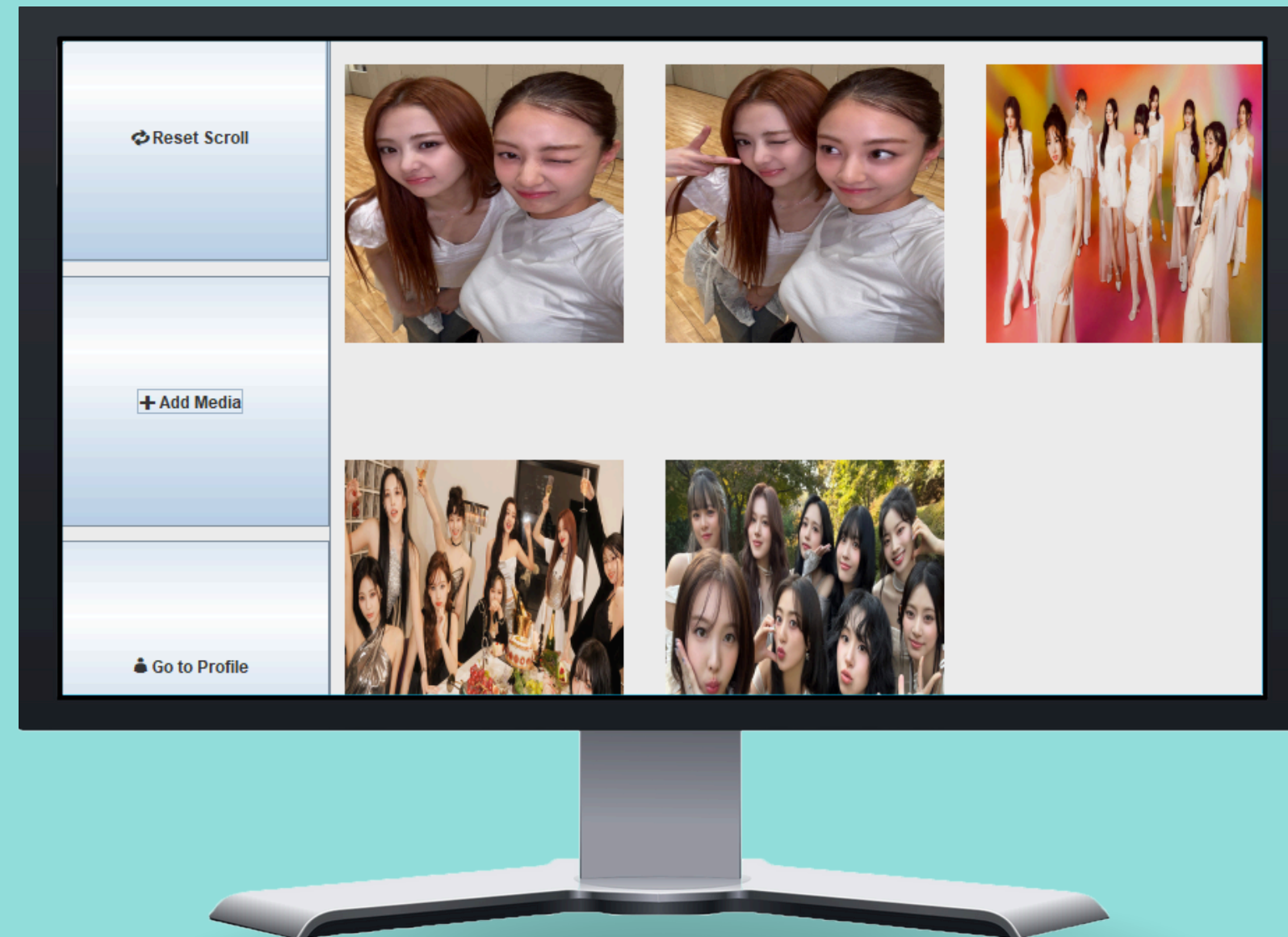
Class diagram



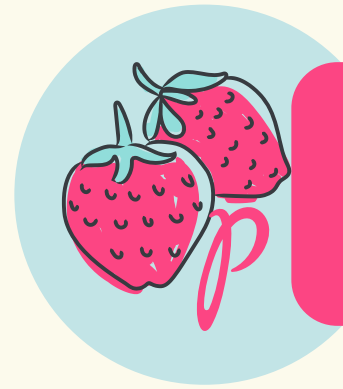
MVC

PinBerry uses MVC mostly out of convenience given the small scope and tight timeline; but it's not the optimal design choice.

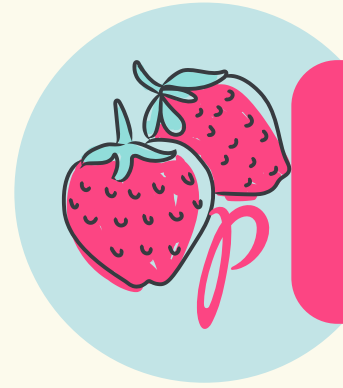
Mobile home mockup



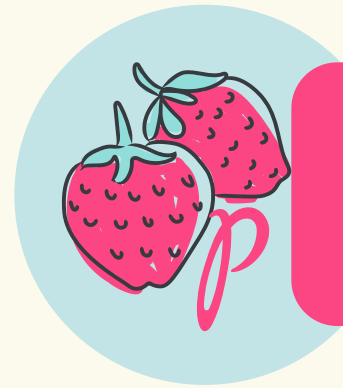
At startup, users can sign up or log in.
The interface is clean and friendly from the beginning.



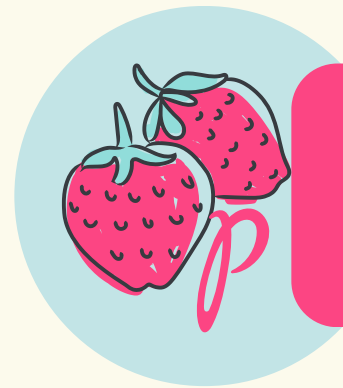
Upload images



Delete photos



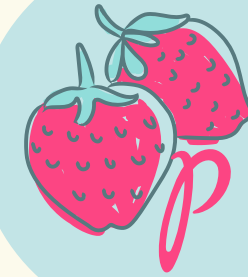
Download photos



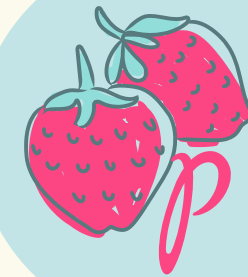
View personal gallery

**Core
functionalities**

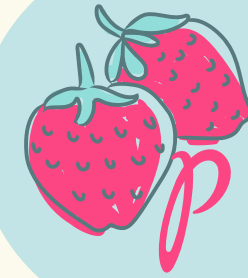
No Functionalities



Design a visually pleasant interface



Apply basic visual design principles

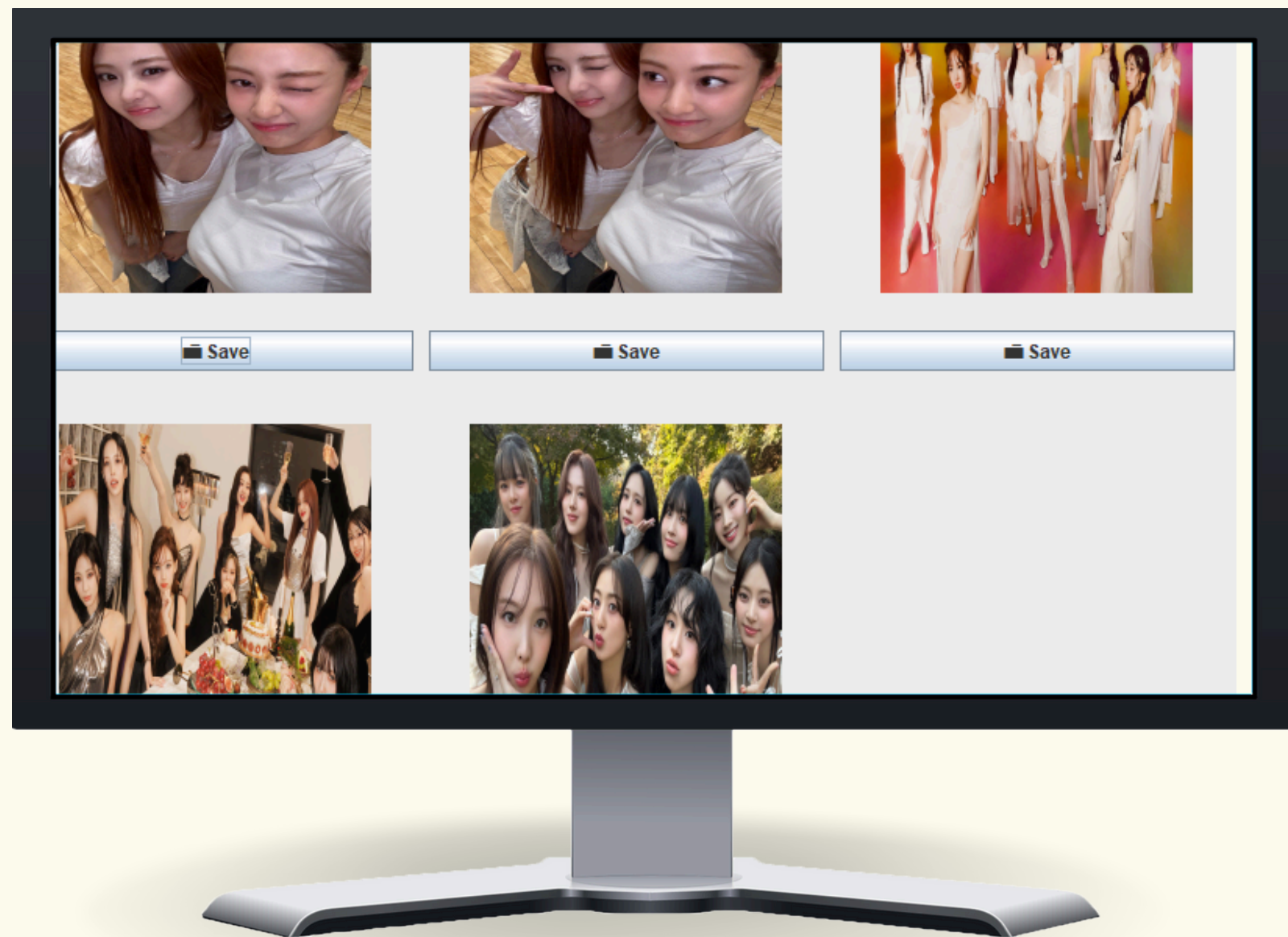


Flexibility and Maintainability



Focus only on photo-related
functions

Profile mockup



**On the profile page, users can
view their photos
and delete any image with a
single tap.**

Bibliografía

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