**EZPIC**

**Summary**

FaceFind is a photo management app that lets users scan their face and automatically find all photos containing them from a collection. It solves the problem of manually searching large photo libraries by leveraging facial recognition technology.

**Problem Statement**

People often have thousands of photos from events. Manually finding photos of a specific person is time-consuming and frustrating.

**Goals**

* Allow a user to scan their face and find all photos in which they appear.
* Provide an intuitive and fast search experience.
* Ensure privacy and secure handling of user data.

**Use Cases**

* *As a user, I want to scan my face so that the system can identify my photos in the album.*
* *As a user, I want to upload an album so the system can scan for matches.*
* *As a user, I want to view all my photos grouped together in a gallery.*
* *As an event organizer, I want attendees to find their photos without scrolling manually.*

**Requirements**

**Functional Requirements**

1. User uploads a photo or scans their face using camera.
2. System extracts facial features and stores a face embedding.
3. User uploads or links an album (Google Photos, local storage, cloud).
4. App scans album, detects faces, and compares them with the user’s face embedding.
5. Matches are displayed in a gallery view.
6. User can download or share selected photos.

**Dependencies**

* Face recognition library (e.g., FaceNet, DeepFace, AWS Rekognition).
* Cloud storage integration (Google Drive, Dropbox, etc.).
* Mobile frameworks (React Native/Flutter) or Web (React).

**UX & Design**

* **Flow**:
  + Onboarding → Upload/Scan Face → Join Group using Link/Code → Face Search → Results Gallery.
* **Screens**:
  + Login / Signup
  + Face Scan / Upload
  + Album Upload / Selection
  + Search Progress Screen
  + Gallery of Matches (with Download/Share option)