

Ownphotos

Problem

[Ownphotos](#) is a self-hosted photo management solution that is branded as a google photos replacement. Ownphotos is one of the main photo management solutions in the Owncloud platform. There are a few features that are missing that would help it towards replacing both google photos and apple photos. Your team will work on the following 3 problems:

- Lack of support for file formats other than jpeg.
- No easy way to browse photos by month/year
- No native mobile solution to view live photos (HEIC) and videos

Objective

Your goal is to solve each of the problems above. You will

- Support additional file formats such as (HEIC, PNG, RAW, and Video).
- Implement a user interface to easily browse photos by month/year
- Create a mobile app to browse photos and videos.

Roles

- Web frontend (2 people)
- Backend (1 people)
- Mobile (2 person)

Tasks

ALL

- Install docker
- Launch OwnCloud

Mobile

- Setup flutter development environment (Week 1)
- Create git repository for the mobile project (Week 1)
- Research and map out Ownphoto API (Week 3)
- Create mockups for app layout and workflow (Week 2)
- Create login page to connect to own photo backend (Week 4)
- Create a page to list photos (Week 4)

- Create a page to see full photo (Week 4)
- Support live photos (Week 5)
- Add search bar and search capabilities (Week 6)
- Add tabs for filtering by people, places, or things (Week 6)
- Create an app icon (Week 6)
- Publish app (Week 7)

Frontend

- Setup development environment (Week 1)
- Clone git repository (Week 1)
- Setup git branch (browse_month_year) (Week 1)
- Look over ReactJS Project (Week 2)
- Design API to get info to browse by month/year (Week 3)
- Create interface mockups to support browsing by month/year (Week 3)
- Implement feature to browse month/year (Week 5)
- Submit a pull request to integrate the feature (Week 6)

Backend

- Clone git repository (Week 1)
- Setup git branch (support_more_file_formats) (Week 1)
- Setup development environment (Week 1)
- Document photo import workflow (Week 2)
- Add support for HEIC files (Week 4)
 - Submit pull request to integrate feature
- Add support for Png files (Week 3)
 - Submit pull request to integrate feature
- Add support for videos (Week 5)
 - Submit pull request to integrate feature

Technologies

- Mobile
 - Android
 - Java
 - [Flutter](#)
- Web frontend
 - React JS
 - CSS
 - HTML
 - Javascript
- Backend
 - Django
 - Database
 - Postgres

- Docker/ Docker-compose
- Git
 - Fork (Mac)
 - SourceTree (Windows)
 - Signup for bitbucket. Up to 5 people groups for free.
- Text Editor
 - Visual Studio Code

Resources

- [Build your first app](#)
 - <https://developer.android.com/training/basics/firstapp/>
- [Create UI Mockups](#)
 - <https://www.mockplus.com/>
- Handling HIEC files
 - <https://github.com/david-poirier-csn/pyheif>