

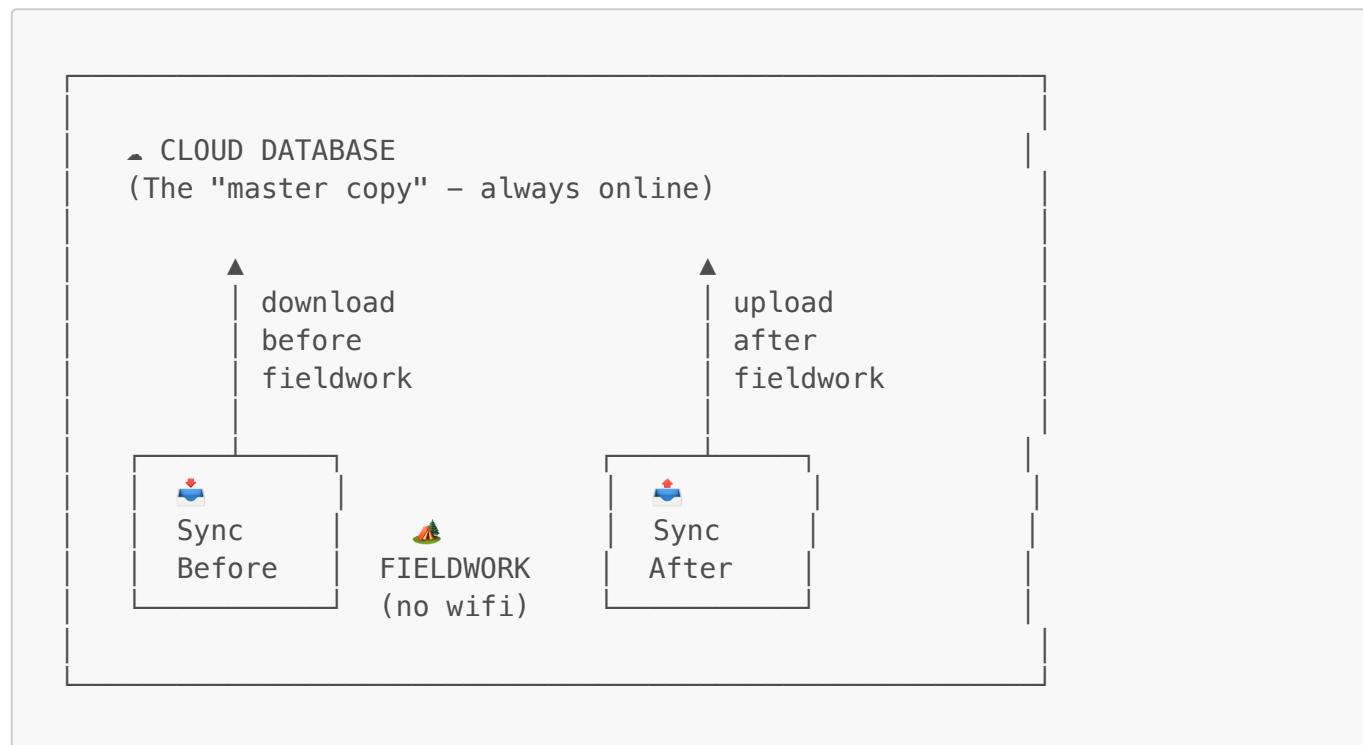
# MBO Database - Offline Desktop App Proposal

## What We're Building

A desktop app that lets you record bird data in the field **without internet**, then sync it back when you're online.

## How It Works

Think of it Like a Shared Notebook

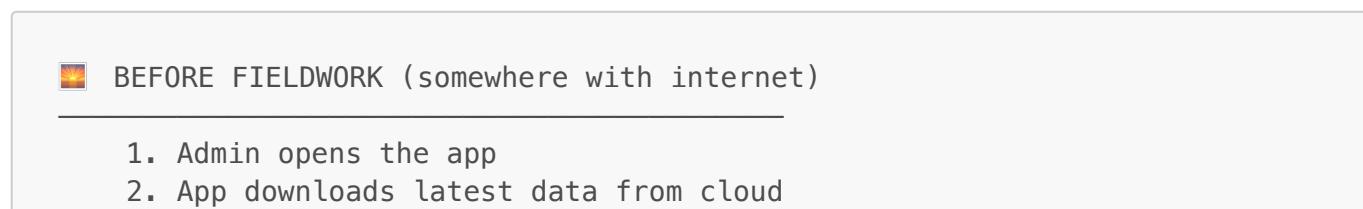


## User Roles

Role	What They Can Do	Offline Access?
Admin	View, add, edit, delete data	<input checked="" type="checkbox"/> Yes
Regular User	View data only	<input type="checkbox"/> No (online only)

## The Daily Workflow

### 17 A Typical Field Day



3.  "Ready for offline use!"

 DURING FIELDWORK (no internet)

- 4. Admin records new bird captures
- 5. Data saves locally on laptop
- 6. App shows " Offline Mode"

 AFTER FIELDWORK (somewhere with internet)

- 7. Admin opens app (auto-connects)
- 8. App uploads all new data to cloud
- 9.  "All changes synced!"

## The Golden Rule

Only ONE offline admin at a time!

CORRECT

Day 1: Alice  
goes offline  
  
↓  
Alice  
returns,  
uploads  
  
↓  
 All good!

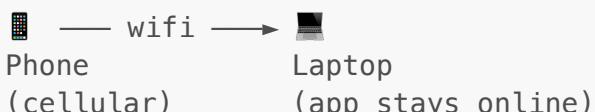
WRONG

Day 1: Alice AND Bob  
both go offline  
  
↓      ↓  
Alice   Bob  
both add  
Bird #50  
  
↓      ↓  
 CONFLICT!  
Whose Bird #50  
is correct?

**Why?** If two people edit data offline at the same time, the system can't know whose changes are correct.

## Alternative: Use Mobile Hotspot

If possible, admins can use their phone's mobile hotspot for internet access in the field:



- No syncing needed

- Multiple people can work
- Changes save instantly

## How to Get the App

### Download

Visit our website and download the app for your computer:

Computer Type	Download
 Mac	<a href="#">Download the .dmg file</a>
 Windows	<a href="#">Download the .exe file</a>

### Install

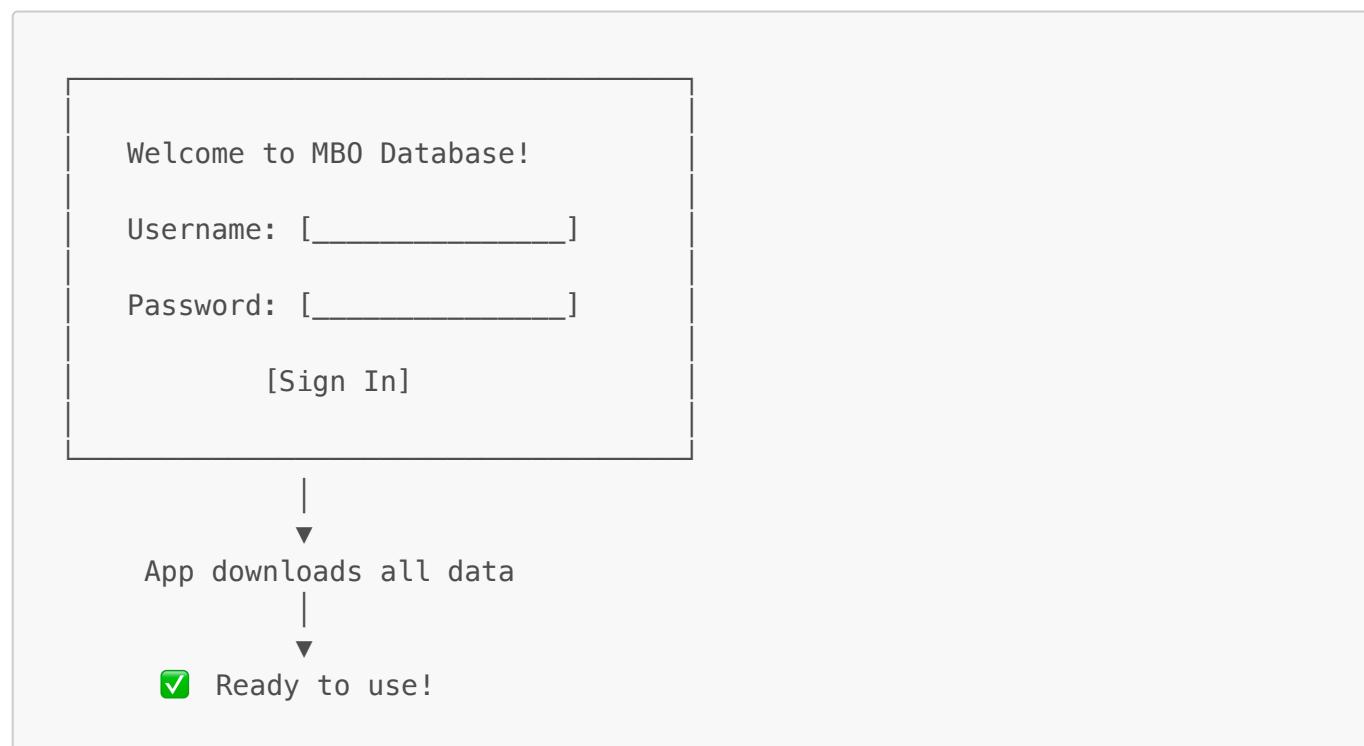
#### Mac:

1. Open the downloaded .dmg file
2. Drag the app to your Applications folder
3. Done!

#### Windows:

1. Run the downloaded .exe file
2. Follow the installation wizard
3. Done!

### First Launch (requires internet!)



## Quick Reference Card

Situation	What to Do
<b>Going to field (no wifi)?</b>	Open app with internet first, let it sync, then close. You're ready!
<b>Back from field?</b>	Connect to internet, open app, wait for "Synced ", done!
<b>Someone else needs offline access?</b>	Make sure YOU upload first, then they can download
<b>Have mobile hotspot?</b>	Use online mode - no syncing worries!
<b>Just want to look at data?</b>	Any user can view anytime (needs internet)

## Summary

Feature	Details
<b>Available for</b>	Mac and Windows
<b>Who can use offline?</b>	Admins only
<b>How many offline at once?</b>	ONE admin at a time
<b>Who syncs?</b>	The admin who worked offline
<b>What can regular users do?</b>	View data (online only)
<b>Best practice</b>	Use mobile hotspot when possible

## Frequently Asked Questions

### Q: What if I forget to sync after fieldwork?

A: Your data is safe on your laptop! Just sync next time you have internet. BUT make sure no one else goes offline before you upload.

### Q: Can I see who made changes?

A: Yes! All entries are tagged with who added them and when.

### Q: What if the app crashes in the field?

A: Data is saved after each entry. Reopen the app and continue - nothing is lost.

### Q: What if I don't have internet for several days?

A: No problem! Data stays on your laptop until you can sync. Just remember: only one admin should be working offline during that time.

### Q: Can two admins work at the same time if they both have internet?

A: Yes! When everyone is online, multiple people can work at the same time with no issues.

## Visual Summary

