



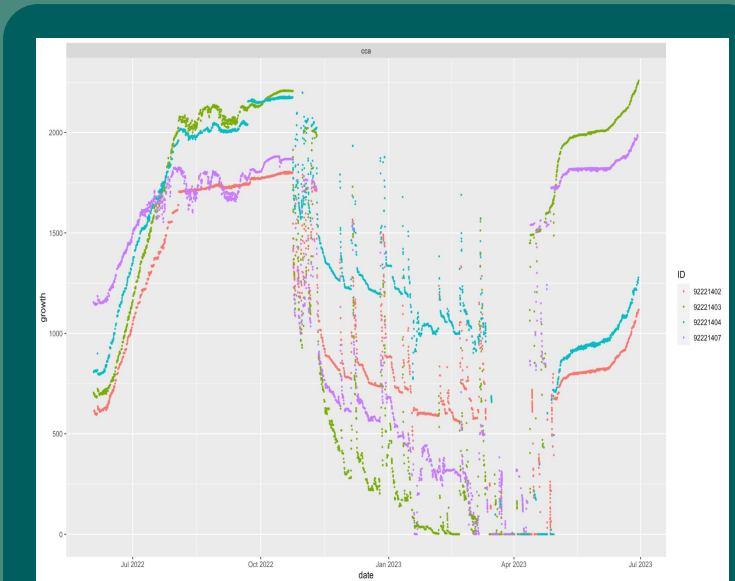
What is the Problem?

- Need to bring a laptop up a Redwood
- Two handed use, with a long download
- Can only view one set of data at a time
- Difficult to share data with others



Solution Review

Develop a mobile application
- One handed, safer and cheaper

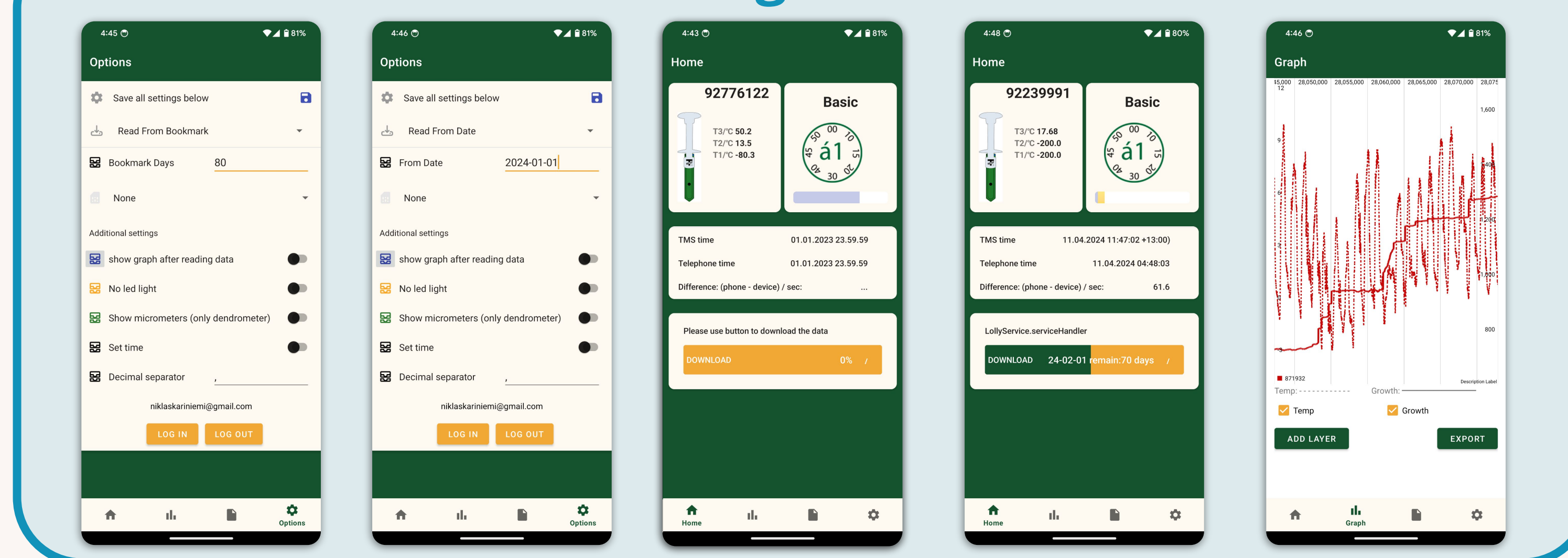


Several dendrometers, trees, or sites at a time
- Interactive graphs
- Comprehensive data

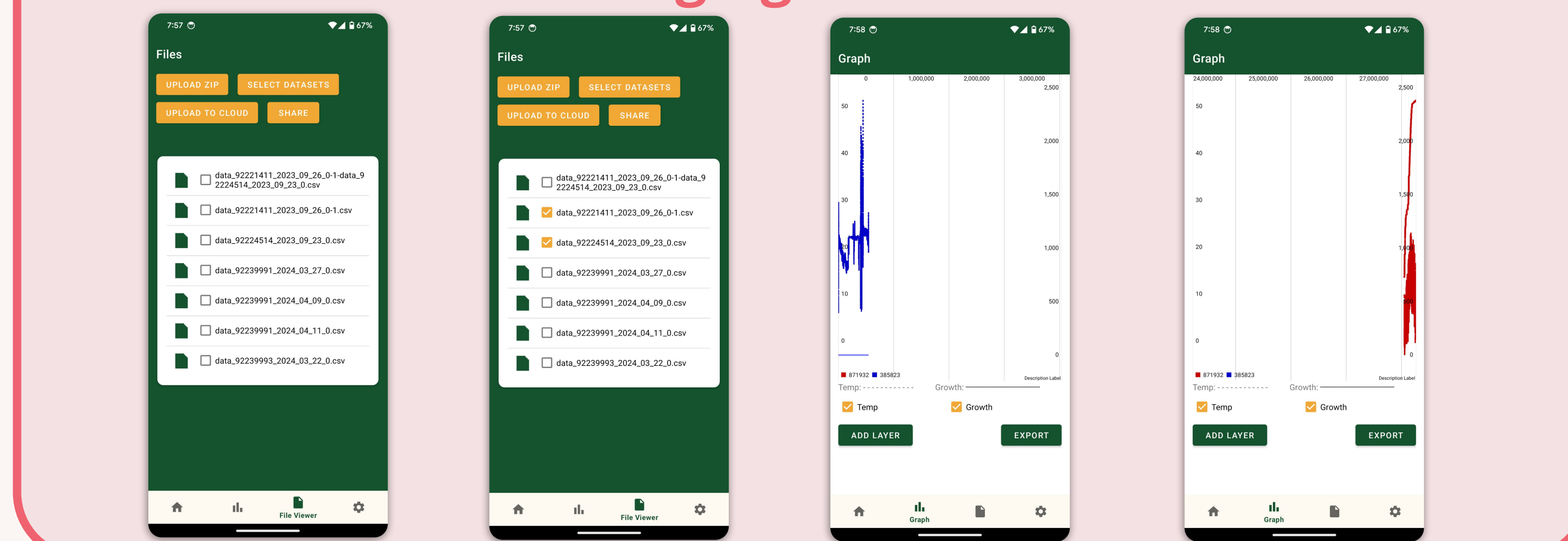
Export data to the cloud
- Easy data and file sharing
- Viewable from anywhere



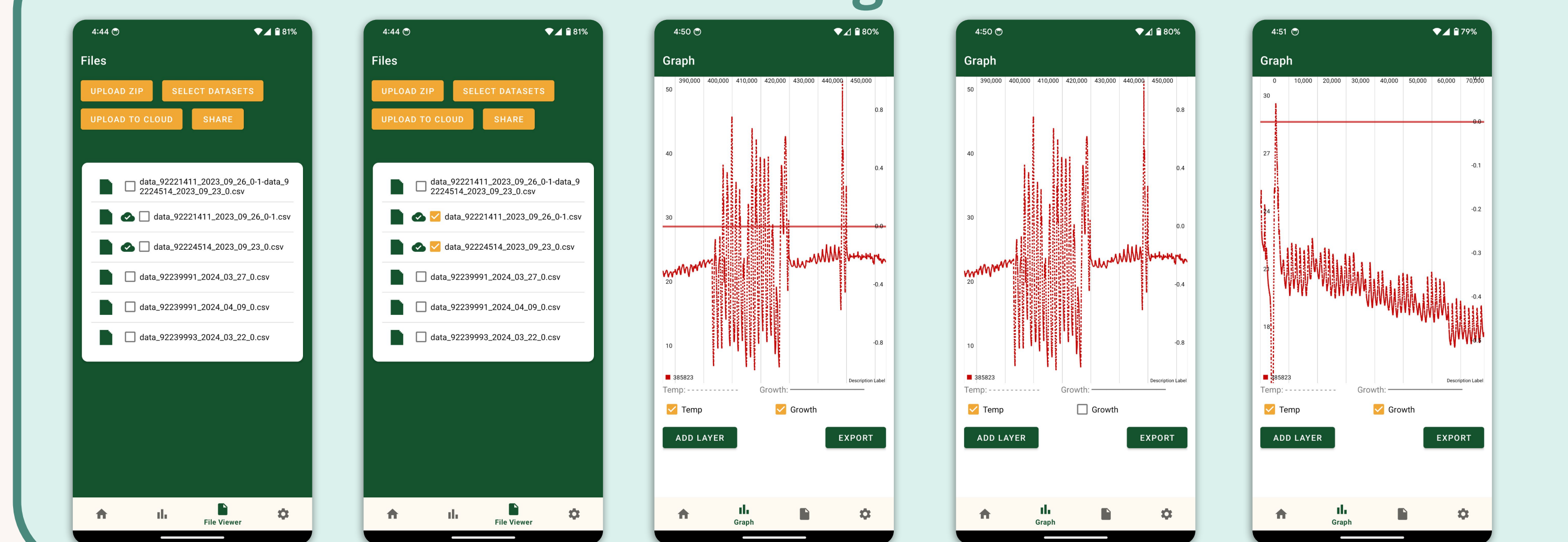
Reading in Data



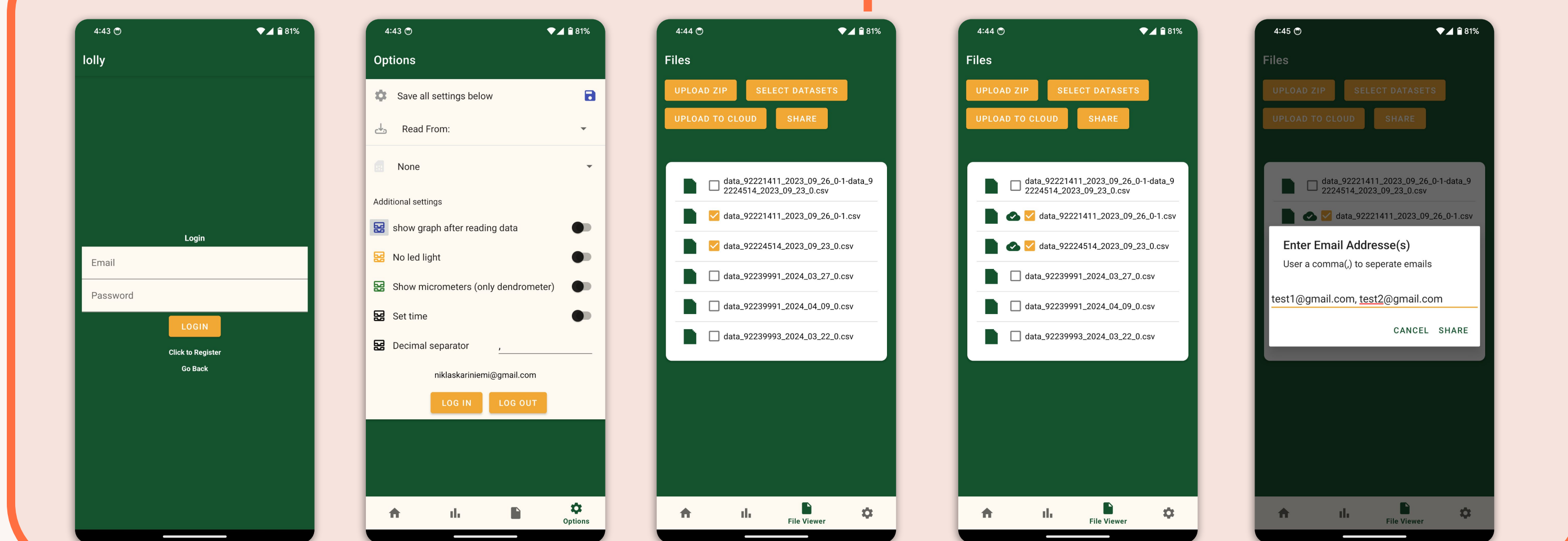
Merging datasets



Visualizing data



Cloud export



Implementation

Frontend: Java
- Future proof
- Easy to develop Android apps

Backend: c
- Large community of developers
- Allows access to low-level systems

Cloud Export: Firebase
- Powerful cloud platform
- Easy to implement

Graph Display: MPAndroidChart
- Large variety of charting options
- Allows customization of graphs

Technologies

