

School of Informatics, Computing, and Cyber Systems

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DendroDoggie - An app to read data from a TOMST dendrometer

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Client:

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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

Solution Review

Develop a mobile application

- One handed, safer and cheaper

Difficult to share data with others

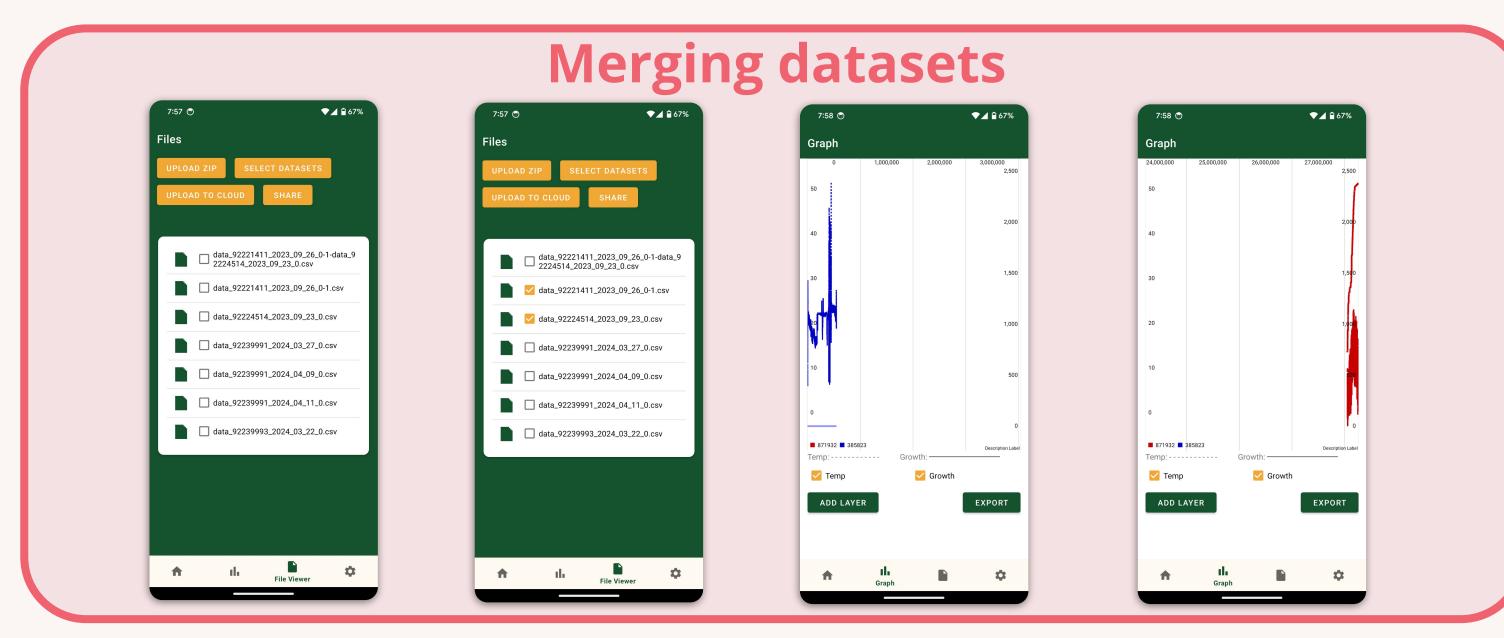


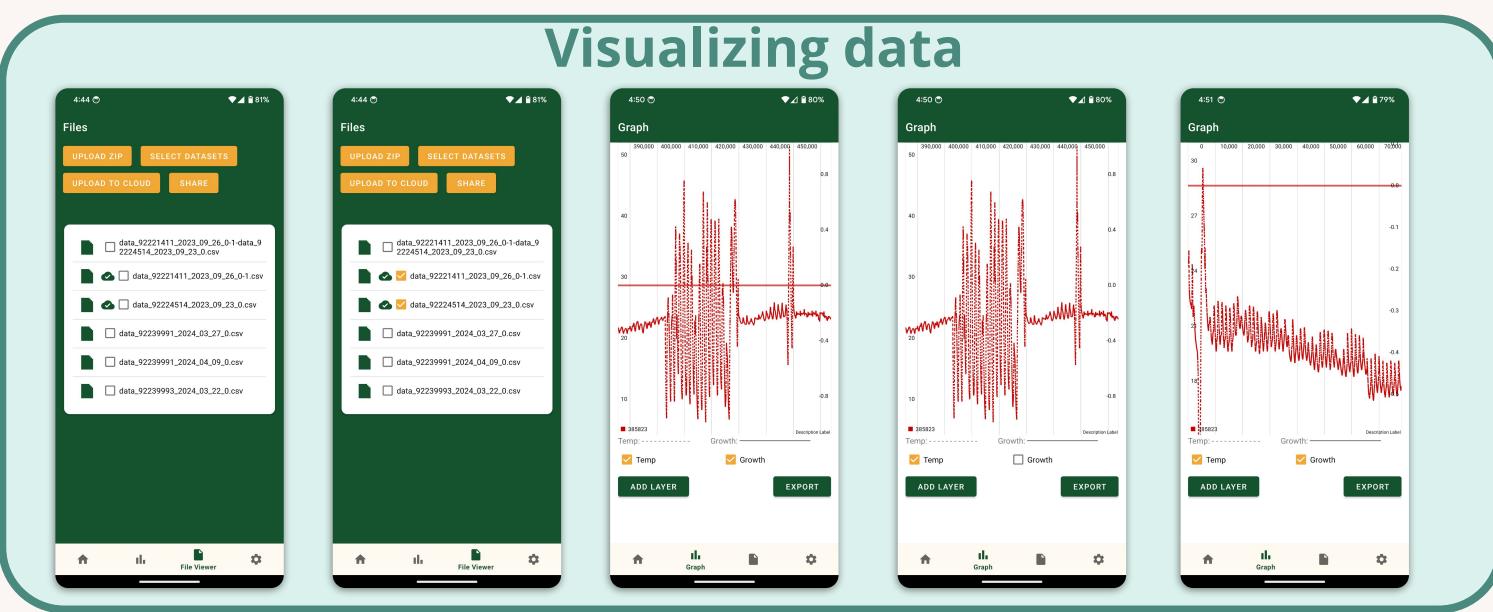


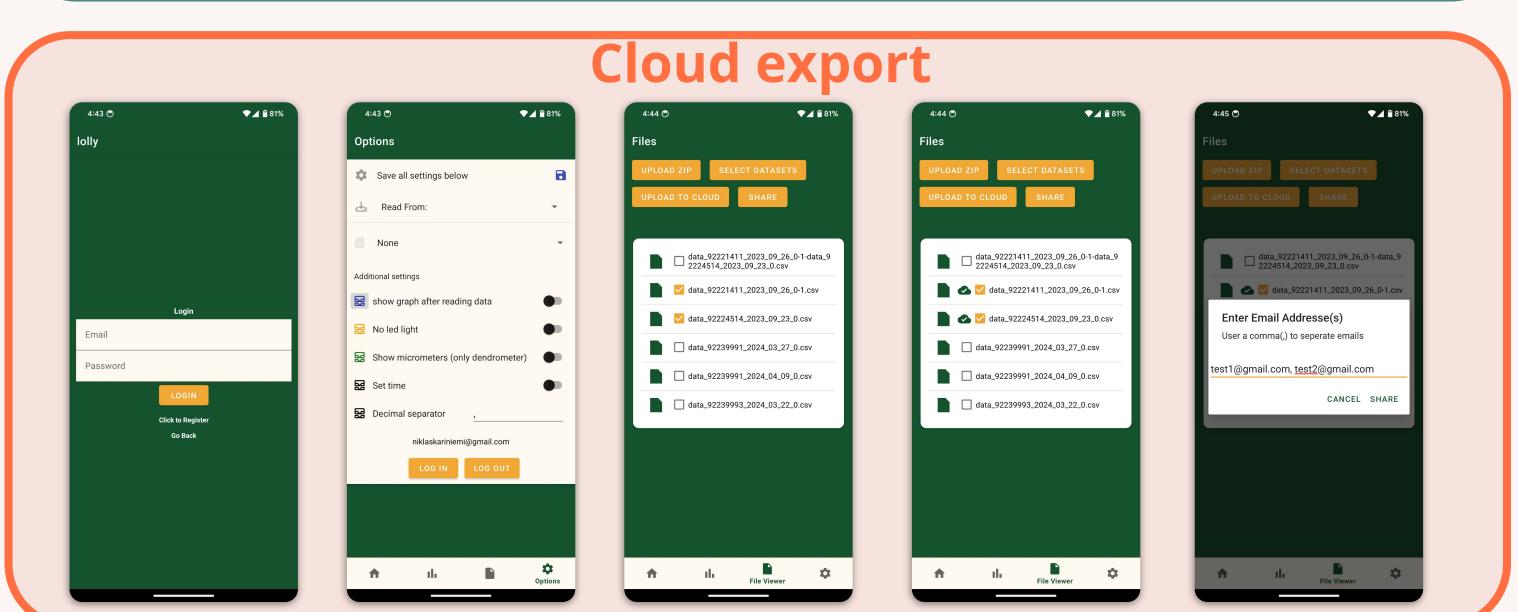
android

Team:

Reading in Data show graph after reading data fraph







Implementation

Frontend: Java

- Future proof
- Easy to develop Android apps

Backend: C

- Large community of developers
- Allows access to low-level systems

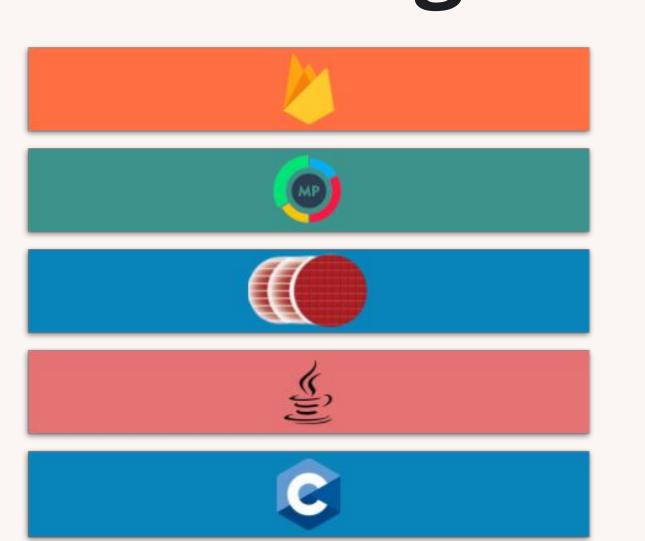
Cloud Export: Firebase

- Powerful cloud platform
- Easy to implement

Graph Display: MPAndroidChart

- Large variety of charting options
- Allows customization of graphs

Technologies











- Interactive graphs

- Comprehensive data

Several dendrometers,

trees, or sites at a time

- Viewable from anywhere

