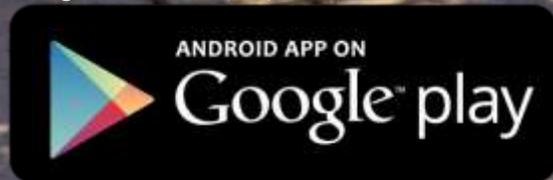


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Motivation

Climate Change

Mangrove is world's **best hope to combat climate change** [1], reduce CO2 for almost 700 tonnes carbon stock/ hectar

[1] **Indonesia's mangroves one of the world's best solutions to climate change**, Down to Earth, 8 Aug 2016, <http://www.downtoearth.org.in/news/indonesia-s-mangroves-one-of-the-world-s-best-solutions-to-climate-change-55205>

Indonesia's rich ecology

Indonesia is the home to **25% world's mangrove ecosystems** [2]

[2] Indonesia's mangroves one of the world's best solutions to climate change, Conservation International, 8 Aug 2016, <https://www.conservation.org/NewsRoom/pressreleases/Pages/Indonesias-mangroves-one-of-the-worlds-best-solutions-to-climate-change.aspx>

One of Fauna & **Flora's main habitat**

The **unique habitats** Provide valuable shelter and breeding sites for fish, stabilising coastlines, **reducing erosion from storm surges & tsunamis** [3]

[3] 'Let mangroves recover' to protect coasts, Mark Kinver, 19 Sept 2016, <http://www.bbc.com/news/science-environment-37386267>

The Team



Irmasari Hafidz
(Irma):

Responsible for user & requirement analysis, designing draft UI for mobile application & database, presentation materials



Nur Aini Rakhmawati **(lin):**

Responsible for designing web service, creating web service and application



Weny Kinanti Putri
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Responsible for designing web service and creating mobile application



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Magrid Prisca Juwita
(Magrid):

Responsible for designing database and creating mobile application

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Mangrove as a Habitat & Nature Conservation

The Problem

How to **TRACK & SAVE** historical data about the mangrove's flora & fauna from time to time?

Can anyone involved in this activity?

Can environmental *Community* helps the citizen in educating the importance of mangrove's habitat?

How anyone can **crowdsource the data** together in order to submit, manage & see report about the current condition about flora & fauna **EASILY** in **REAL-TIME**?



Record historical data about the mangrove's ecosystems by crowdsourcing.

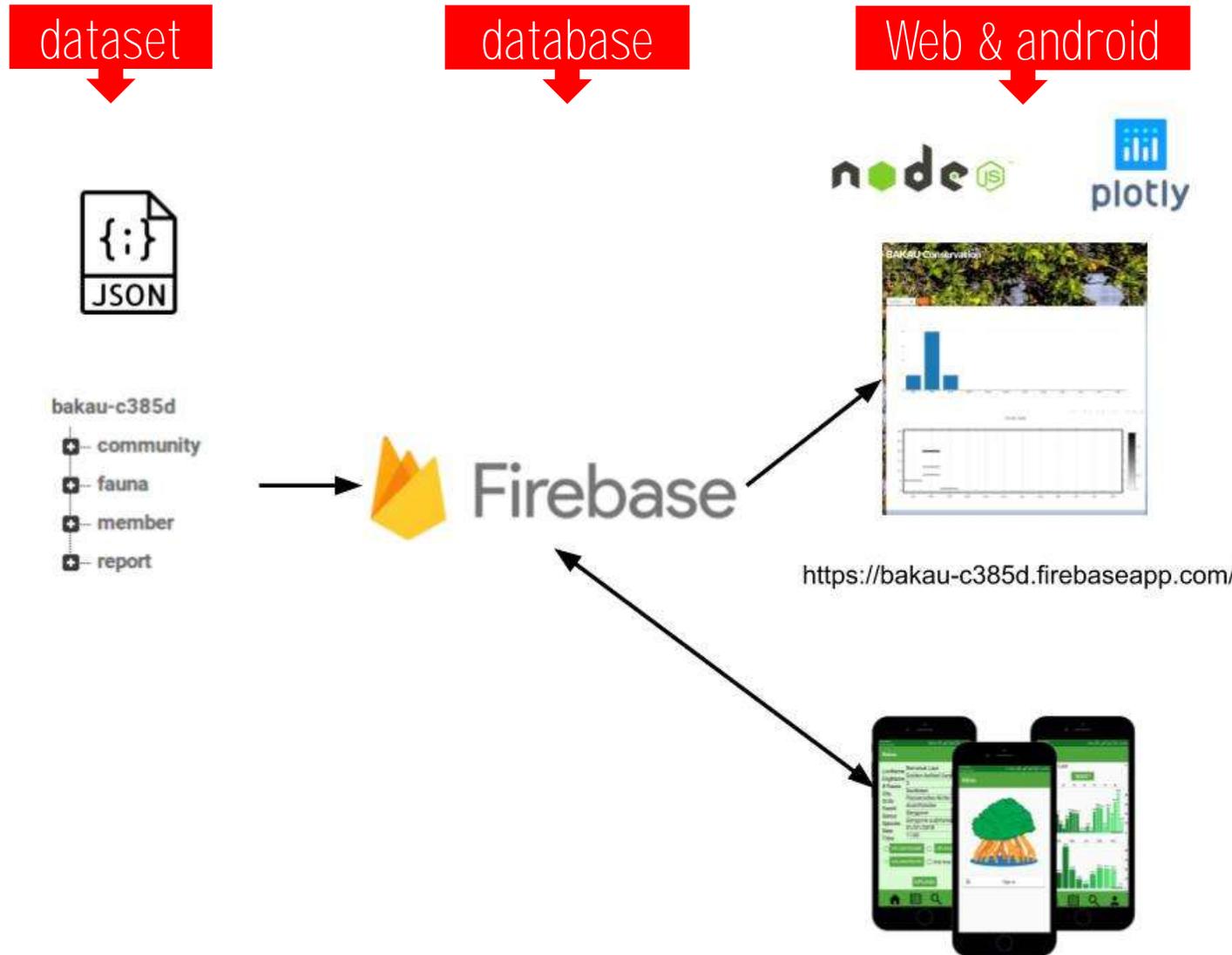
Educating the society about the importance of mangroves ecosystems.

Preserving the nature as well as engaging actively to improve the quality of mangroves ecosystems.

SOLUTION

bakautm

Solution: Bakau framework



Bakau dataset format is in .json format.

Bakau stores its dataset into Firebase platform.

Bakau uses node.js and plotly library to show the analytics data about the fauna in its web app. Android is the mobile version of bakau and used libraries, such as MPAndroidChart[4].

[4] MPAndroidChart, <https://github.com/PhilJay/MPAndroidChart>



bakau

Crowdsourcing & Conserving Mangroves' Wildlife



An Citizen

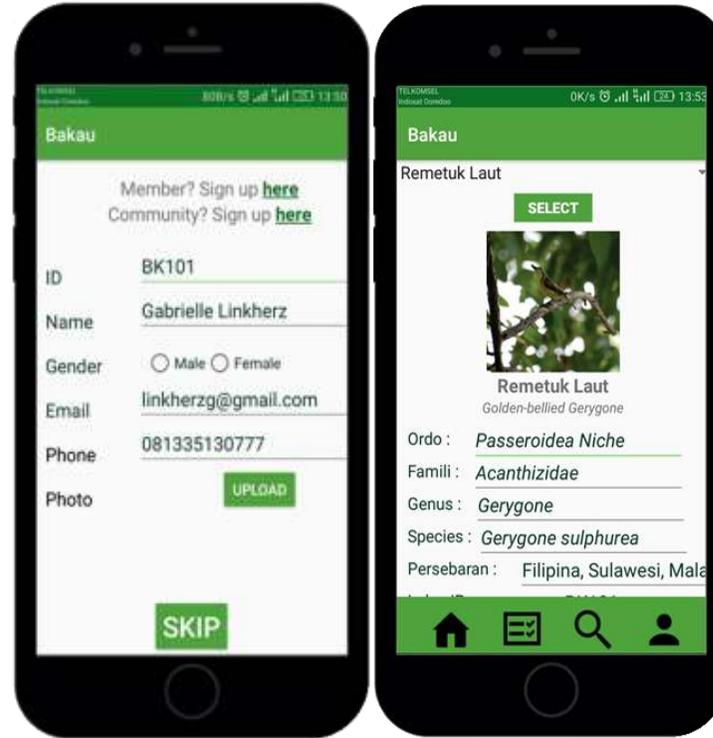
A Community



submit explore

manage community verify

An individual can help the society by submitting fauna's data that found in Mangroves (or bakau in Indonesian) easily in real-time. Other than that he/ or she can explore more about the Mangrove's ecosystem & learn more about the environmental aspects in his/ her area.



Bakau is the Indonesian word for mangroves. Bakau is an app where a citizen is able to submit, manage and report about wildlife of a Mangroves area. This tools is intended for tracking the behavior of the Mangrove wildlife. Each report will be validated by a related community.

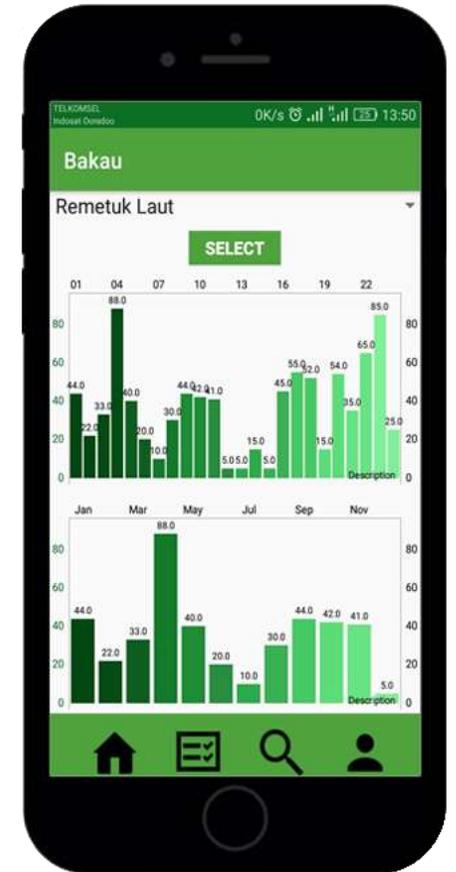
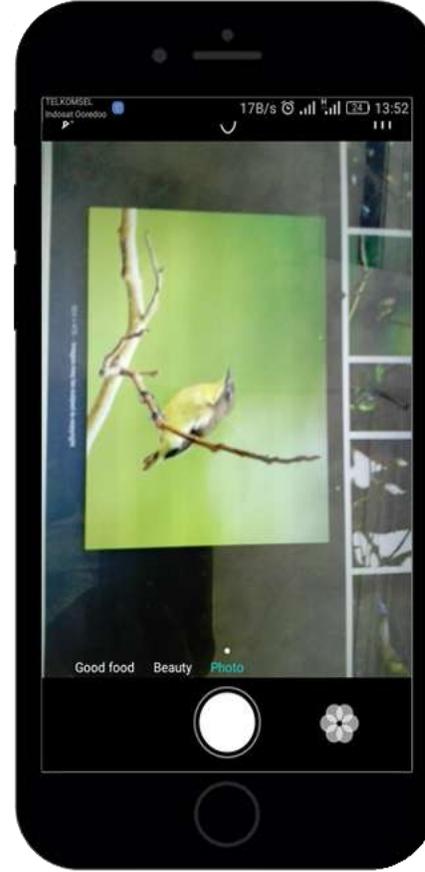
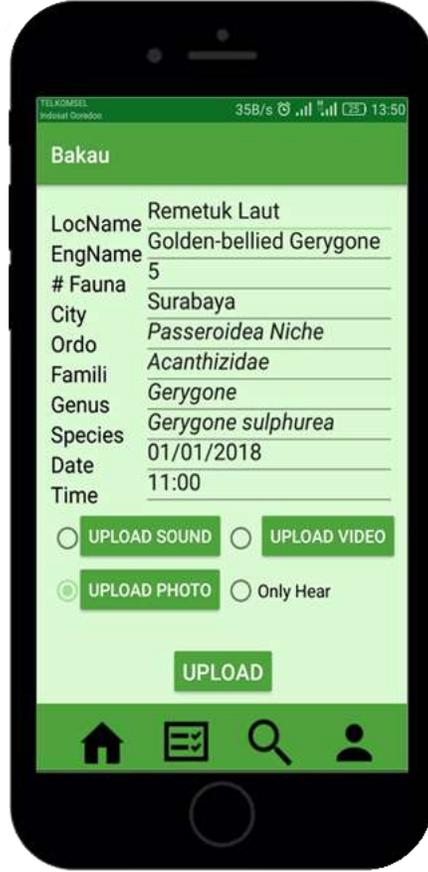
A community can manage it's member and help to verify the data that submitted by anyone to Bakau app.

A Community

manage community

+

verify

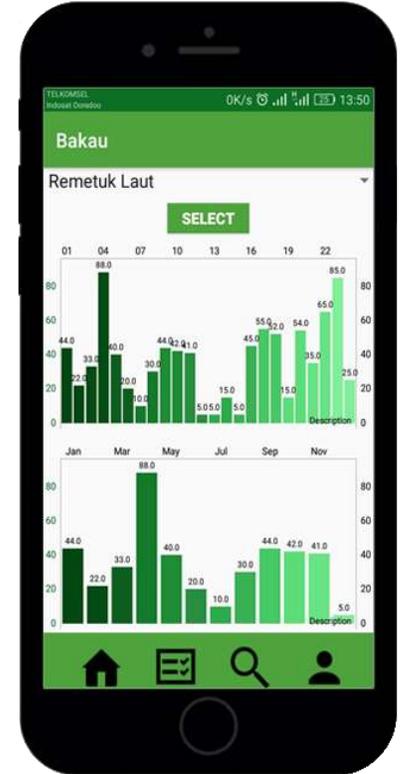
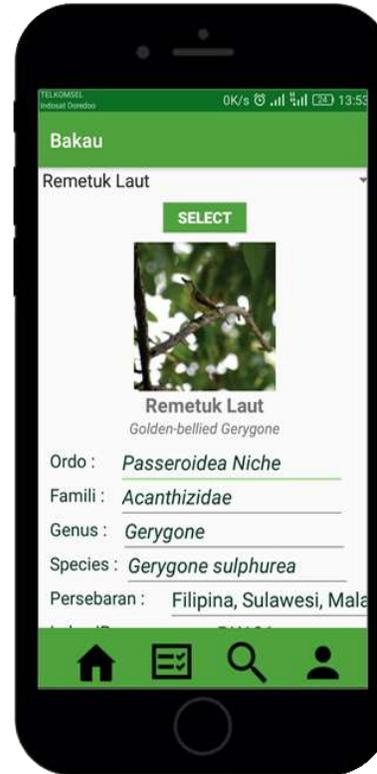
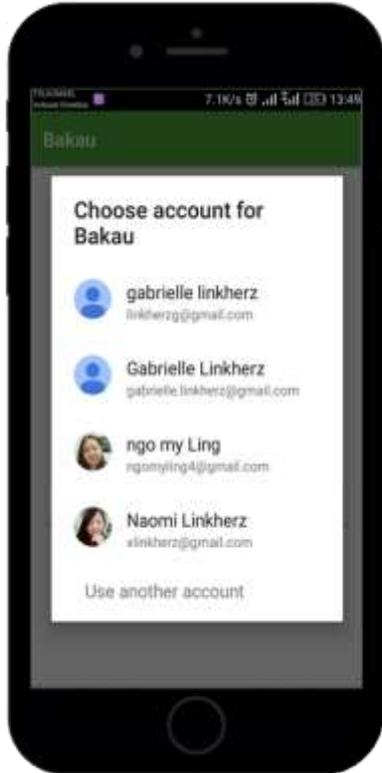


Citizens

submit

+

explore



bakau

- **Crowdsourcing & Conserving Mangroves' Wildlife**

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Try our alpha version:

