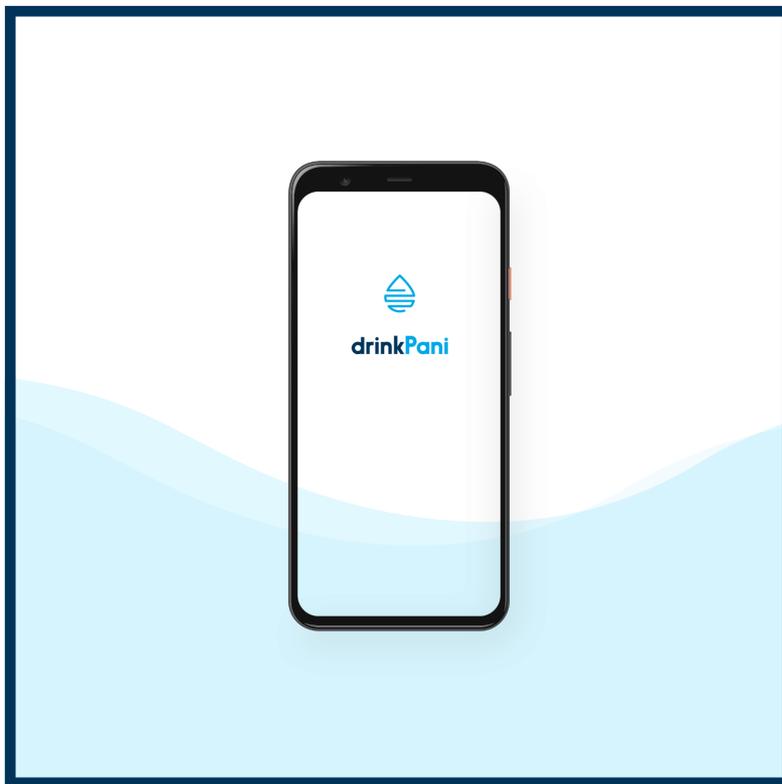


drinkPani Mobile Application Handbook



Software Manual

drinkPani Mobile Application Handbook
Contents: User's Manual. --Software Manual

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Original Instructions.

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1. General Information

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About the drinkPani mobile application

The “drinkPani –Drinking Water Information Kit” application is the software tool for recording, analyzing, and reporting data related to drinking water supply and its quality.

This user guide gives an overview of the application’s features and provides step-by-step instructions for completing a variety of tasks and its regular usage. Please note that the preview of the mobile application display view attached in this user guide may vary with its appearance on the software itself.

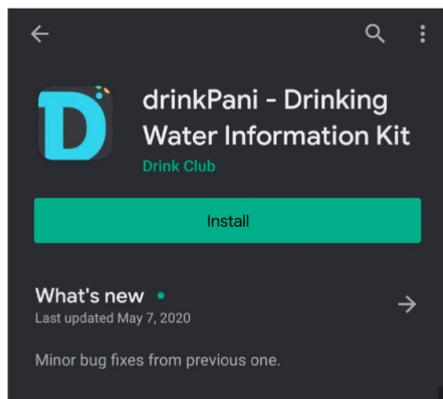
System requirements

Please ensure that your device meets or exceeds the following system requirements before installing the drinkPani application:

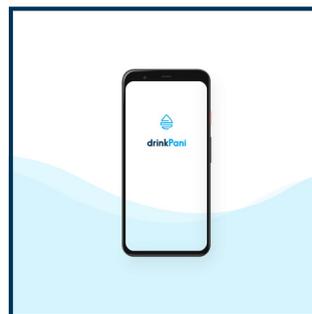
RAM	512 MB or higher
Available space	50 MB+
Operating system	Android 4.3 and higher

Download sources

The drinkPani application can be downloaded by the direct search on Google Play Store or through the drinkPani web portal.



www.drinkpani.net/d-learning/publications



Experience more features on drinkPani mobile app

- ▶ Faster and efficient
- ⚙️ AI Integrated
- 🔒 Safe and secure
- 📶 Offline, always at fingertips



■ Intended audience

The core reason in developing this android application is to assist in drinking water data collection by drinkPani members (currently being carried out by Young Water Volunteers - YWVs in specific regions in Gandaki Province, Nepal).

In the days to come, drinkPani will be using the same mobile application for community awareness campaigns.

■ Get additional help

To receive technical support and software assistance, please contact:

research@drinkpani.net

To get in-depth information about drinkPani, please visit:

www.drinkpani.net

■ Hardware requirement

For the data entry process, the operator should use the following equipments to perform the respective tests:

- pH meter:
- EC meter
- Turbidity tub
- FRC color comparator
- E-Coli presence/absence test tube
- Membrane Filtration kit

**Individual manual and guides for these equipments can be found on drinkpani.net/d-learning/publications

2. Comprehensive view

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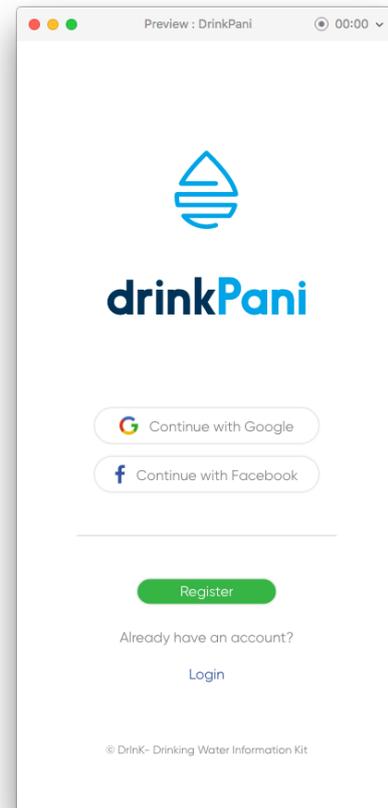
Data Status 19

Getting Started

Sign in options

The user has control over the sign-in procedures and can proceed with any of the three available options:

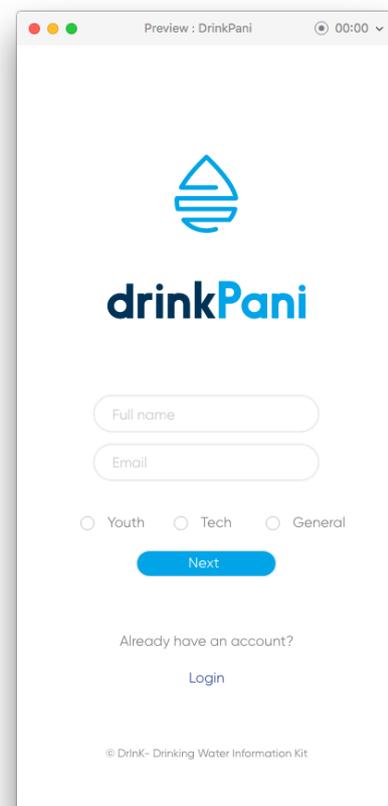
- **Sign in with Google:**
The user can get access to drinkPani resources with their Google account.
- **Sign in with Facebook:**
The user can log in with their Facebook account.



Registering a new account with an independent email

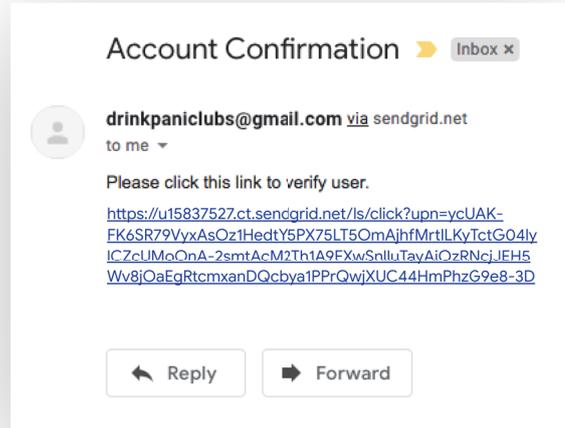
Alternatively, the user can create a new account with any independent email (eg.: mail@user.com.np). The user needs to choose their category from:

- **Youth:**
The primary data collectors (eg.: Young Water Volunteers – YWVs).
- **Tech:**
The technical support team of drinkPani.
- **General:**
Any guest users.



Account confirmation

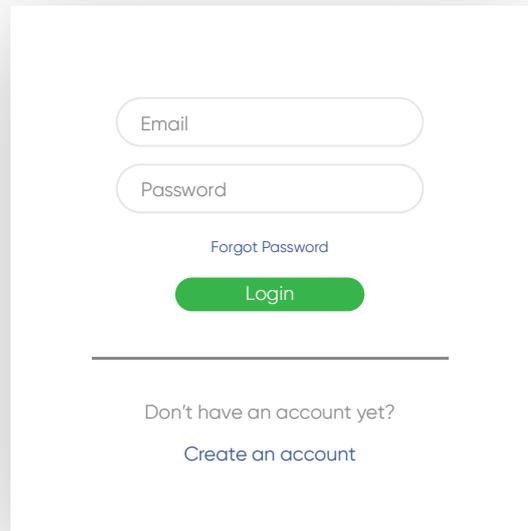
After the registration process, the user is required to verify the account by visiting the link provided to the associated email.



Logging in with an email

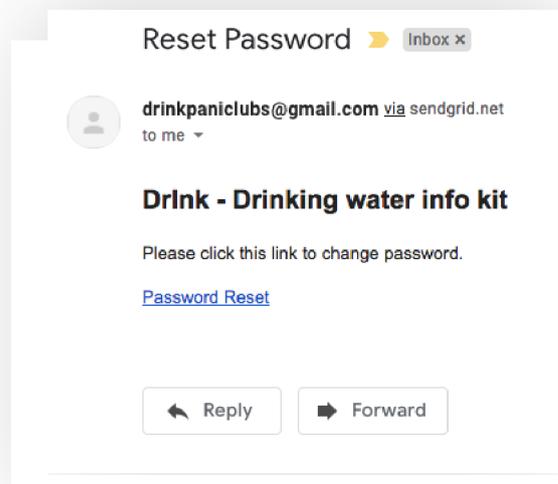
The user can log in to drinkPani mobile application after verifying and setting the password for the account.

Alternatively, the user can also log in through Google and Facebook as discussed earlier.



Password recovery

In case the user forgets the password or has to change the password of the account, clicking the 'forgot password' will guide the user to certain steps after which s/he can set a new password for their drinkPani account.



Homepage

This is the primary landing page of the drinkPani mobile application. This page hosts the general information of the drinkPani, notices and news, and the d-Learning section.

Icons



d-Learning

The d-learning section can be accessed by tapping its icon on the top right section of the homepage.



Home

The Home icon is on bottom navigation of all pages. Tapping this icon from any pages brings the user back to the homepage.



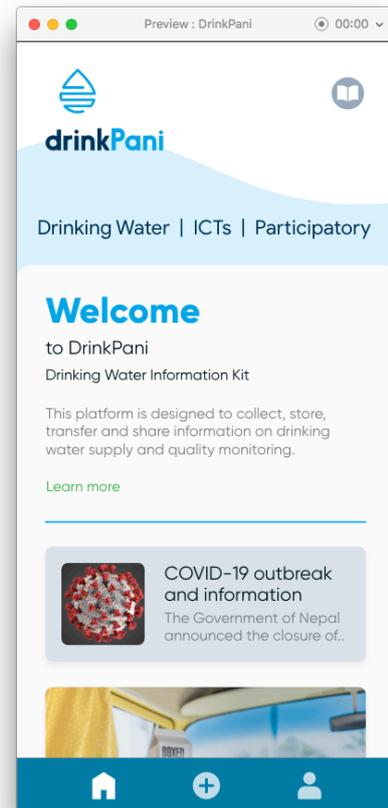
Data Collection

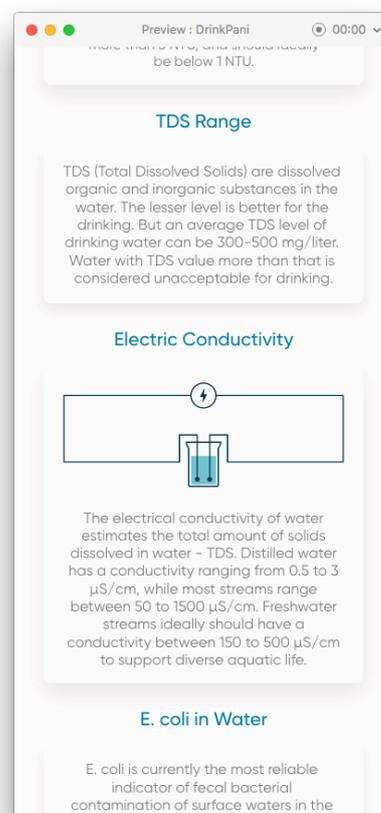
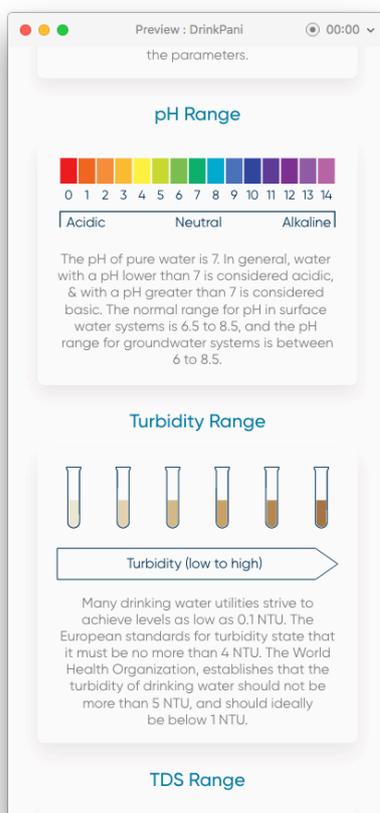
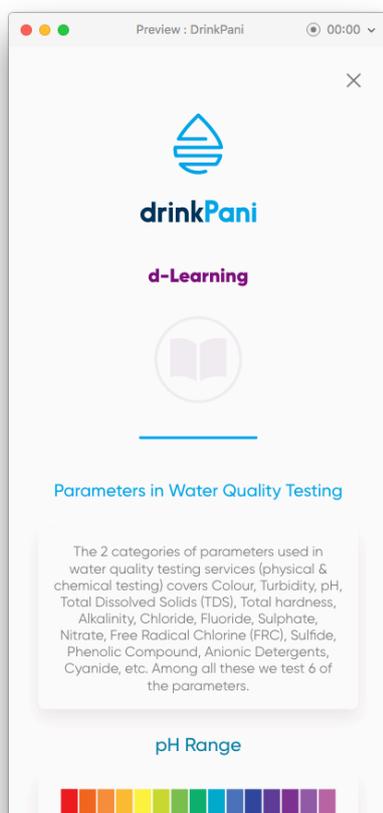
The Data Collection icon is also on the bottom navigation of all pages. Tapping this icon will take the user to the data collection page itself where the Youth registers the data from different locations. Further discussed on page 16.



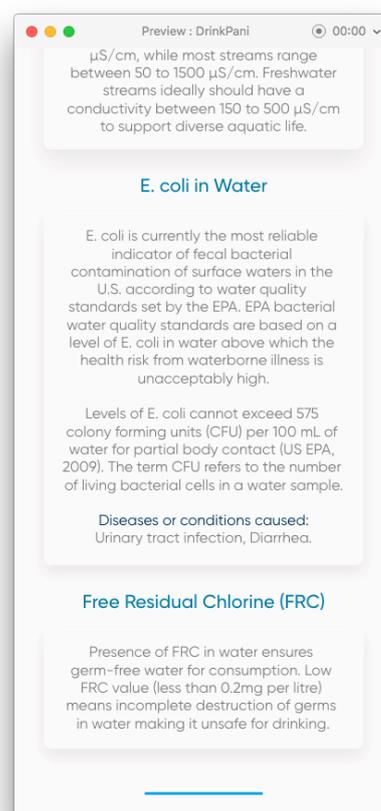
User Profile

The user profile is also on the bottom navigation. Tapping this icon will take the user to their user profile section. This page represents the digital representation of user identity. Further discussed on page 18.





The d-Learning page displays offline in-depth information about the parameters the Youth collects during the procedure. This page is also connected to the d-Learning web portal of drinkPani where further information can be accessed. This section is included in the application to minimize the risk of incorrect data collection. The Youth can always get access to this offline information section if s/he is unsure about datum to be filled on the 'Data Collection' section.



Data Collection

Status Parameters

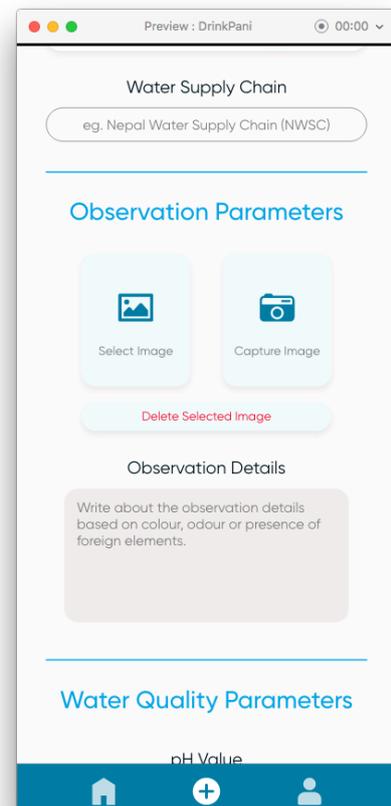
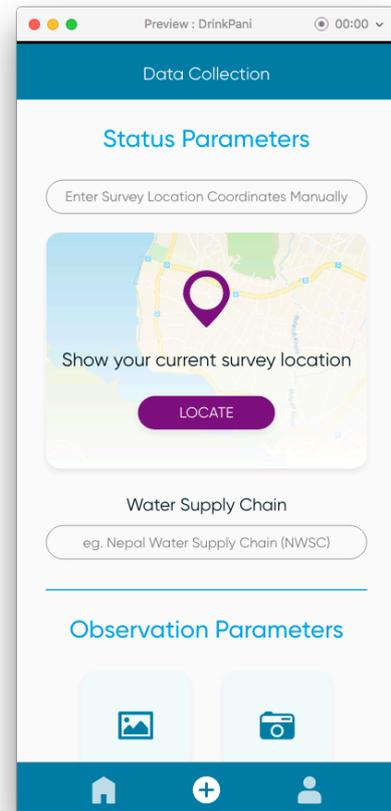
This section of the Data Collection accumulates the geographical information of the test site. If the data collector, Youth, is at the test site, s/he can tap the 'Locate' button to initialize the GPS reading or has the option of entering the survey coordinates manually if s/he is not in the survey site.

However, the water supply chain must be entered manually.

Observation Parameters

The Observation Parameters section covers the visual storytelling part of the overall drinkPani drinking water data collection. The data collector has both the selecting pre-shot image or capture a picture on-site to upload it to the database.

The data collectors are encouraged to note the details in this section.



Water Quality Parameters

This section of the Data Collection involves the use of provided equipment to collect the data. Seven different categories of water quality parameters are tested on all the sites.

The Water Quality Parameters section hosts the most significant data. Thus, to reduce the chance of inaccuracy, the data collector can tap on the 'i' section near each parameters title for brief details about the parameter.

The data collector has an option to save the recorded data locally on the smartphone by tapping 'Save Locally' button in case the data cannot be submitted on-site due to internet issues. The recorded can be later synced to the drinkPani database.

Preview : DrinkPani 00:00

Water Quality Parameters

pH Value ⓘ
Enter pH Value

Electric Conductivity (EC) ⓘ
Enter Electric Conductivity

Temperature ⓘ
Enter Temperature in Degree Celcius

Total Dissolved Solids (TDS) ⓘ
Enter TDS value

Turbidity (NTU) ⓘ
Enter the NTU value

Presence or Absence of Fecal Coliforms (E-Coli) ⓘ
 Present Absent N/A

E-Coli Count ⓘ
Enter count value

Free Residual Chlorine ⓘ
Enter FRC

Other Parameters ⓘ
Specify if there are any other parameters

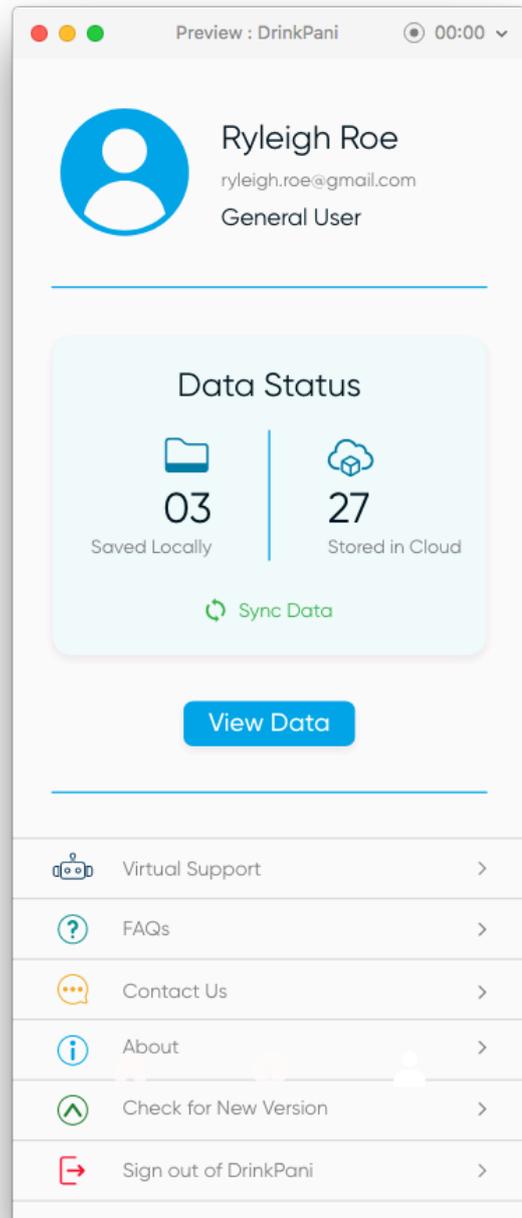
Save Locally **Submit Data**

User Profile

This page represents the digital representation of the user. The page shown alongside is the sample copy of the user profile of a data collector Youth. The data status here shows the number of unsubmitted locally stored data and the total number of data submitted by the Youth till date. Tapping the 'Sync Data' syncs the unsubmitted data to the database. The 'View Data' hosts the information about the data submitted by the youth till date (discussed in detail on page 19).

The bottom section of this page features additional features and services that the drinkPani provides:

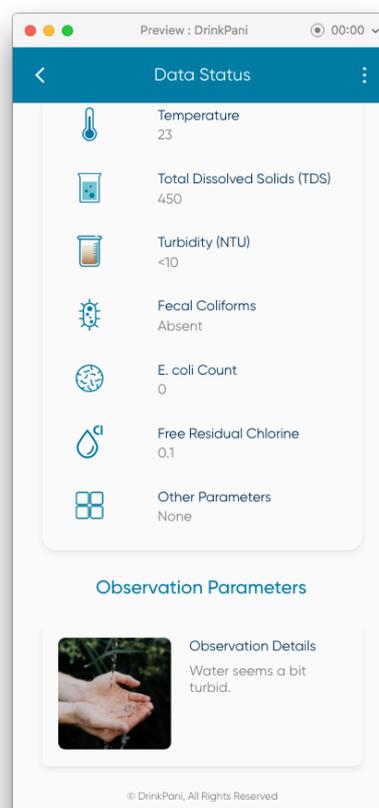
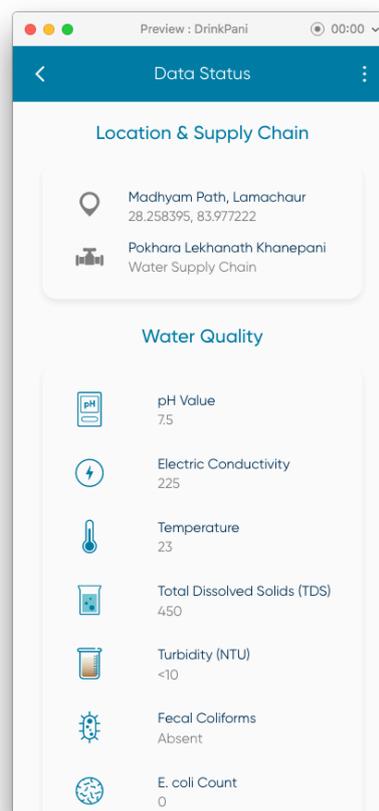
- **Virtual Support** is drinkPani's one of the major ongoing mobile application support project. This part involves Artificial Intelligence (AI) to support the user during the time of need (online and offline).
- **FAQs, Contact Us, and About** section redirects the user to the drinkPani web portal where the additional information can be found.
- Tapping on the **Check for New Version** takes the user to playstore where the new version of the application can be updated if available.
- Revoking access to the account can be done by signing out of the app.



Data Status

This section of the drinkPani application lets the data collector review the data s/he has collected over time. The data are stored based on the status parameter and are on the exact raw form the data collector submitted. This data can be visualized more comprehensibly on the dWaterInfo section on the drinkPani web portal.

Once the data of a specific survey location is submitted, the user cannot alter the data but s/he can suggest the edit to the drinkPani tech members by tapping on the vertical dots menu icon on the top right. Suggesting an edit, instead of resubmitting the whole data, is recommended as the incorrect data feed wrong information in the overall data visualization process and alters the result.





drinkPani

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