



Ganga data collector

An Android application for field data collection



Biodiversity & Ganga Conservation

The project, Biodiversity and Ganga Conservation is an initiative under the Namami Gange Programme of the Ministry of Jal Shakti. The project entrusted to the wildlife Institute of India, Dehra Dun, aims at science-based species restoration plan involving multiple stakeholders. One of the main pillars of the project is establishment of baseline on the status of the species of conservation concern in the Ganga River and subsequent formulation of species restoration plan.



Survey and monitoring are systematic tools that establish baseline and help in assessing the trend. However, the management of such large amount of information from surveys need a systematic data management tool.

Data management and successive analysis and interpretation involve survey entry, curation, location tagging, storage, enrichment and meta-data addition. The rigor involved in collection and entry of an array of different data need elaborated data sheets and entry of intricate and often excessive detailed information. As an improved technique for this purpose an Android-based apps is proven suitable.

Why go for an app ?

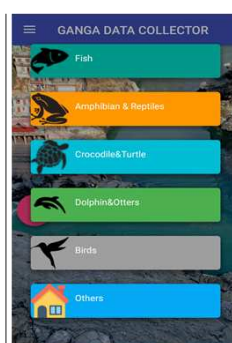
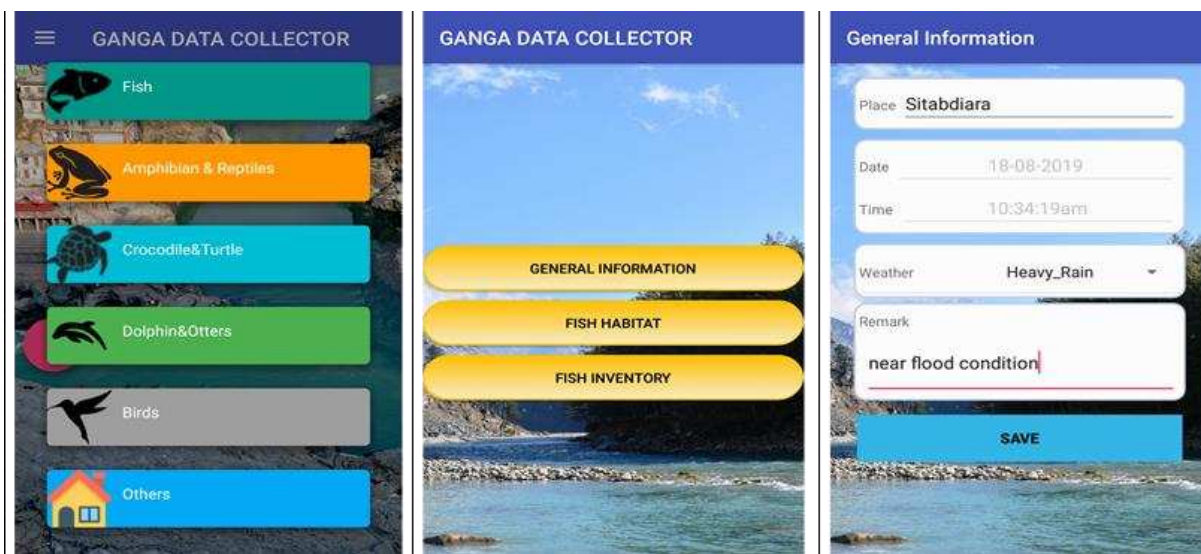
- ✓ **To quicken the tedious process of data entry.**
- ✓ **To ensure data standards, and uniform formats**
- ✓ **Protection from data loss**
- ✓ **Centralized repository management**
- ✓ **Data reception and visualization**

About the App

Today smartphones are programmable and come with a growing set of cost-effective yet powerful embedded sensors, such as Internet, accelerometer, digital compass, gyroscope, GPS, microphone, and camera.

The combination of these may open the door for GIS based mobile survey.

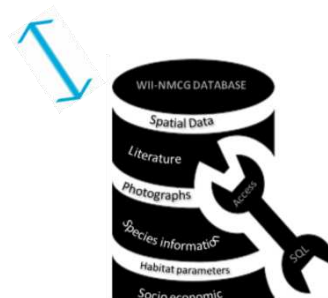
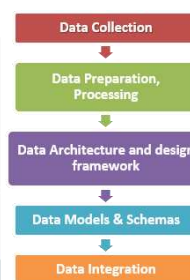
Ganga App collector is an Android-based application which would mainly be contributed by the science community in terms of habitat information and water parameter data, socio economic data, and species-specific information collected by researchers.



Android based Application



Desktop Version Application



Architectural Design Framework

Quick user Guide

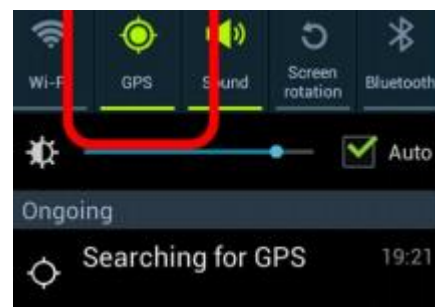
Using web browser in mobile and key-in the URL as mentioned below.

<https://drive.google.com/file/d/19yi4lsqdeWg8YSp0QVa0JKThevPMx6hb/view?usp=sharing>

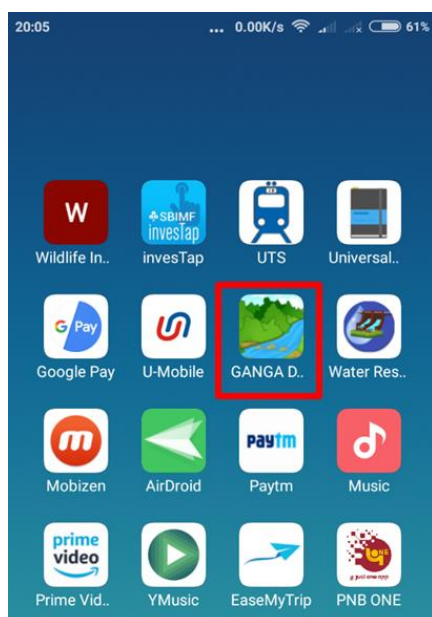


Or Scan this QR code

- The installation requires allowing installation of apps from unknown sources and after installation, it can be disabled.
- On completion of download, user can tap on the 'Install'.
- A confirmation box appears to start installation and finally tap on 'Done' to complete installation process.
- The automatically acquired location in the form of longitude and latitude, the GPS receiver in the mobile must be switched-on.
- The following are the step to enable GPS receiver data.



- The GANGA DATA COLLECTOR mobile application can be seen in the list of apps and can be brought to home screen by tap on the icon for 2 seconds.
- The user needs to tap on the icon to open the app in the mobile device.



Main screen Shows the front view of the app



It will take approx 20 second to get in enable mode, when we start it first time

NMCG
National Mission for Clean
Ganga,
Ministry of Jal Shakti

GACMC
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Monitoring Centre
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WII
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