International Institute of Information Technology, Bangalore

Smart Water Networks - Project Scope

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1 Web Application

1.1 Admin Console

1. Constructing smart water network
2. Subscribing field staff to notifications
3. Tracking of notification/alert resolution by field staff
4. Getting Notifications
   a) When there are leaks...
   b) When to water the garden...
   c) When quality of water goes down below a certain level...
   d) When level of water goes below a certain level in storage or sources...
   e) When water consumption increases beyond a certain in level...

1.2 Geospatial representation of water network

Graphical representation of the whole water network. Relevent details for each network asset like the below with options to drill down w.r.t. time

1. Quality of water
2. Storage levels

3. Consumption of water
4. Status information of pumps
5. Electricity consumed to pump water

1.3 Dashboard

1. Reports
   a) Water consumption pattern with options to drill w.r.t to buildings and activities
   b) Water consumption vs time vs number of students
2. Predictions
   a) Water tanker requirement prediction

2 Android Application

2.1 For general populace

1. Report leaks and water usage pattern

2.2 For field staff

1. Customized notifications and options to update status of resolution

3 Sensor Data Simulator

1. Fill database with sensor data