Bhuvan Yoga

A mobile application to report celebrations on International Day of Yoga - 2019

The Bhuvan Yoga mobile app helps in capturing the event by collecting the location information (Longitude/Latitude) automatically with provision for the user to take two photographs and fill in parameters like number of participants, event organizer, name of the instructor and place of event.

The Bhuvan Yoga mobile app is designed with a simple GUI and user-friendly work flow on Android platform. When the user installs and opens the app, he/she is taken to the data collection page, where user has to fill in all the mandatory parameters. The parameters filled will be preserved until updated by the user with subsequent observations.

**The user is requested to ensure location is enabled on the device with high accuracy before opening the application. The settings can be accessed under settings > location of the device**

There are 3 main tasks in this app

1) Filling event related information
2) Taking photograph(s) of the location (two photos) and
3) Sending the collected information to Bhuvan Yoga servers, either immediately or later.

The step by step procedure for using the app is given below.

1) **Filling the details**
   A. Number of Participants - Number field
      Ex: 200
   B. Organizing Agency - Text field
      Ex: Hyderabad Youth Club
   C. Yoga Instructor Name - Text field
      Ex: Ram dev
   D. Event Place and Address - Text field
      Ex: Town hall Kakinaada
   E. Volunteer Name - Text field
      Ex: Ram
   F. Volunteer Email - Text field
      Ex: xyz@gmail.com
   G. Volunteer Mobile Number - Number field
      Ex: 9898989898

**Step-1 Fill Data**
2) Capturing Photographs
After entering these details, user can capture photographs of the event by using the 'PHOTO' button (if GPS location accuracy less than 50m).

Step-2 Photograph Capture
3) Sending data to Bhuvan
3A) Sending data immediately
There are 2 buttons below 'SEND' and 'SAVE'. Click 'SEND' to send the captured data immediately if device is connected to internet.

Step-3A If connected to internet: Uploading collected data
Data uploading...

Please wait . . . .
3B-i) Saving data to send later
In case of no internet connectivity, save the data by clicking 'SAVE' button and send it later when the device gets access to internet.

Step-3B(i) If internet is not available: Saving collected data to upload later
Number of Participants: 260
Organizing Agency: Hyderabad Youth Club
Yoga Instructor Name: Dev
Event Place and Address: Town Hall Hyderabad
Volunteer Name: Saketh
Volunteer EMail: sakethxyz@gmail.com
Volunteer Mobile Number: 9999999999

GPS Accuracy: 3.0 m

Save Data and Send Later
**3B-ii) Sending saved data to Bhuvan**

To send the saved data to Bhuvan later, click 'MANAGE' under which user can find 2 buttons: 'SEND LATER' and 'VIEW SENT'. Click 'SEND LATER' and select the data. There is also a provision to check/edit the attributes of saved data before sending.

**Step-3B(ii) Uploading saved data using Send later option**
<table>
<thead>
<tr>
<th><strong>Number of Participants</strong></th>
<th>260</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organizing Agency</strong></td>
<td>Hyderabad Youth Club</td>
</tr>
<tr>
<td><strong>Yoga Instructor Name</strong></td>
<td>Dev</td>
</tr>
<tr>
<td><strong>Event Place and Address</strong></td>
<td>Town Hall Hyderabad</td>
</tr>
<tr>
<td><strong>Volunteer Name</strong></td>
<td>Saketh</td>
</tr>
<tr>
<td><strong>Volunteer EMail</strong></td>
<td><a href="mailto:sakethxyz@gmail.com">sakethxyz@gmail.com</a></td>
</tr>
<tr>
<td><strong>Volunteer Mobile Number</strong></td>
<td>9999999999</td>
</tr>
</tbody>
</table>

GPS Accuracy: 3.0 m

Click Manage
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Participants</td>
<td>250</td>
</tr>
<tr>
<td>Organizing Agency</td>
<td>Hyderabad Youth Club</td>
</tr>
<tr>
<td>Yoga Instructor Name</td>
<td>Dev</td>
</tr>
<tr>
<td>Event Place and Address</td>
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<td><a href="mailto:sakethxyz@gmail.com">sakethxyz@gmail.com</a></td>
</tr>
<tr>
<td>Volunteer Mobile Number</td>
<td>99999999999</td>
</tr>
</tbody>
</table>

GPS Accuracy: 7.0 m

Click Send Later to upload saved data
Name of the Activity: Yoga2019
GeoTag Creation Time: 2019-5-29 13:17:50
Number of Participants:
250
Organizing Agency:
Hyderabad Youth Club
Yoga Instructor Name:
Dev
Event Place and Address:
Town Hall Hyderabad
Volunteer Name:
Saketh
Volunteer Email:
sakethxyz@gmail.com
Volunteer Mobile Number:
9999999999
Privacy Policy of Bhuvan mobile apps

Bhuvan (ISRO's Geo-portal for visualisation and analysis services and Earth observation data to users in public domain) mobile App is ISRO's initiative to enable volunteers to collect and report information on various activities in sync with location based services. These mobile apps will enable a platform to collect information of events and to monitor objects' development using crowd sourcing. Thus enabling
decision makers at different levels in different departments of Government of India to prioritize interventions or record ground information.

The main features of the apps are
1) Taking photograph(s) of the object (two photos) which require access to the mobile's camera
2) Adding the attribute information about the object and
3) Sending the collected information to Bhuvan web server, either immediately or later.

The apps also provide facility to store the captured data in the mobile which require access to local storage of the mobile device. The stored data can later be accessed on app for uploading it to Bhuvan servers. Thus enabling user to capture information even in remote areas.

The app also has option to edit attributes or delete collected observations saved for send later or unsent data-set in the mobile device. It has provision to tag user profile to each observation which is useful to trace the source of collected data. The sent observations can be visualized by officials of respective government departments in near real time at field data visualization session of Bhuvan Geo-portal. The collected field information can be visualized by public after due moderation based on data sharing policy of the respective departments.

The user is made to fill in his or her personal information such as user name, mobile number and organisation in the user profile section. This information will be used only to find users by the respective departments of Government of India for their respective programmes.