



HWC Nepal

Ver. 1.6

USER MANUAL

Wildlife Presence Reporting And Alert System





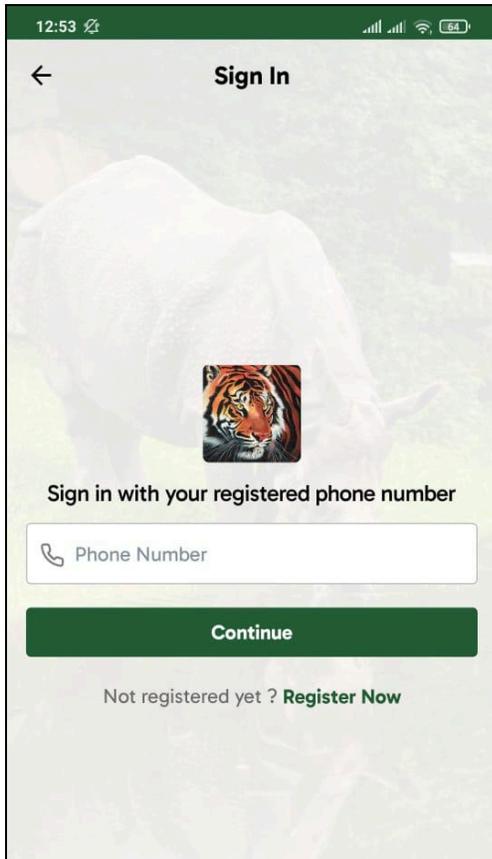
HWC Nepal

The HWC Nepal Mobile application is designed to collect wildlife presence data from registered users and serves as a platform for authorized users to digitize relief fund documentation with permission from relevant organizations. Additionally, it provides an Information Section to raise awareness and share updates on Human-Wildlife Conflict (HWC) related knowledge. The app can be downloaded via the provided [link](#).

After downloading the HWC Nepal Mobile application, it needs to be installed. Once installed, the app icon labeled "HWC Nepal" will appear. To launch the application, simply tap on the app icon.



SIGN IN / REGISTER SECTION

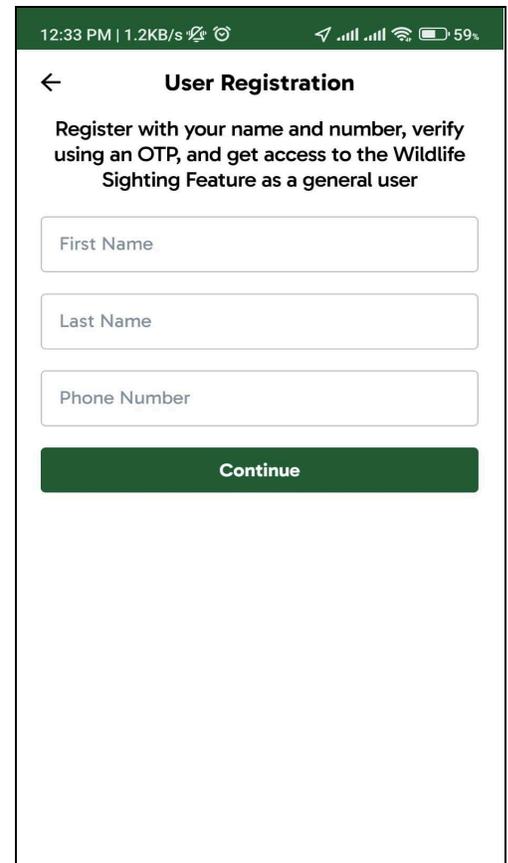


After installation, the app will take you to the Sign In/Register page. New users should tap the Register button, enter their Full Name and Phone Number, and then tap Register again. An OTP will be sent to the provided mobile number via SMS. Upon entering and confirming the OTP, users can access the app. However, only accredited registered users approved by authorities can use the animal conflict reporting feature.

For existing users, tapping the Sign In button will prompt them to enter their pre-registered phone number.

An OTP will be sent to their mobile device via SMS. After confirming the OTP, users will be directed to the home screen, where they can access wildlife presence reporting and the Information Section.

To access the animal conflict reporting feature, users must first register, fill out the membership form available in the Profile section, and await approval from the authorities. Once approved, they can explore additional features of the app.





Landing Page

The Home Screen is the main navigation area of the app, allowing users to access key features and stay updated. It includes in-app notifications and stay alert information for animal presence reports.

Alongside Alerts & Notifications, the app provides access to Animal Sighting reports, User Profile, Information, and Documents.

The home screen also features an infographic slider displaying insights on HWC mitigation and coexistence, along with a section for news, articles, and policies related to human-wildlife conflict.

For navigation, the Home button returns users to the main screen, while the Animal Sighting button allows reporting of wildlife presence. The Profile section provides access to documents, language selection, feedback, privacy policy, conflict reporting forms, data, and log-out options.



ANIMAL SIGHTING

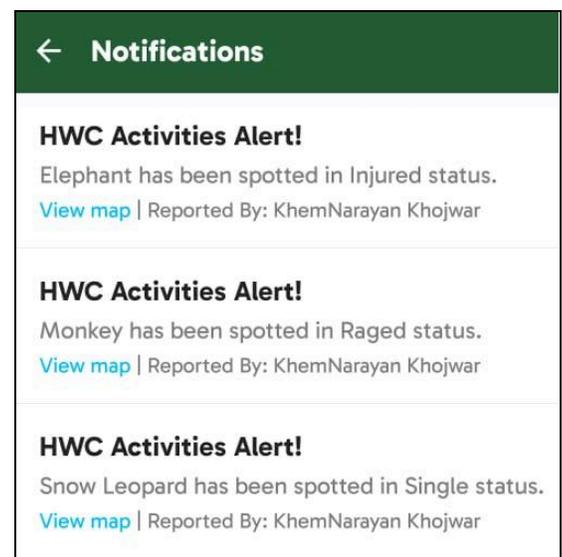


When an alert is triggered, a siren sound plays for one minute and can be stopped by clicking on the alert dialog box or the notification bell icon. The notification icon also animates, resembling a ringing bell.

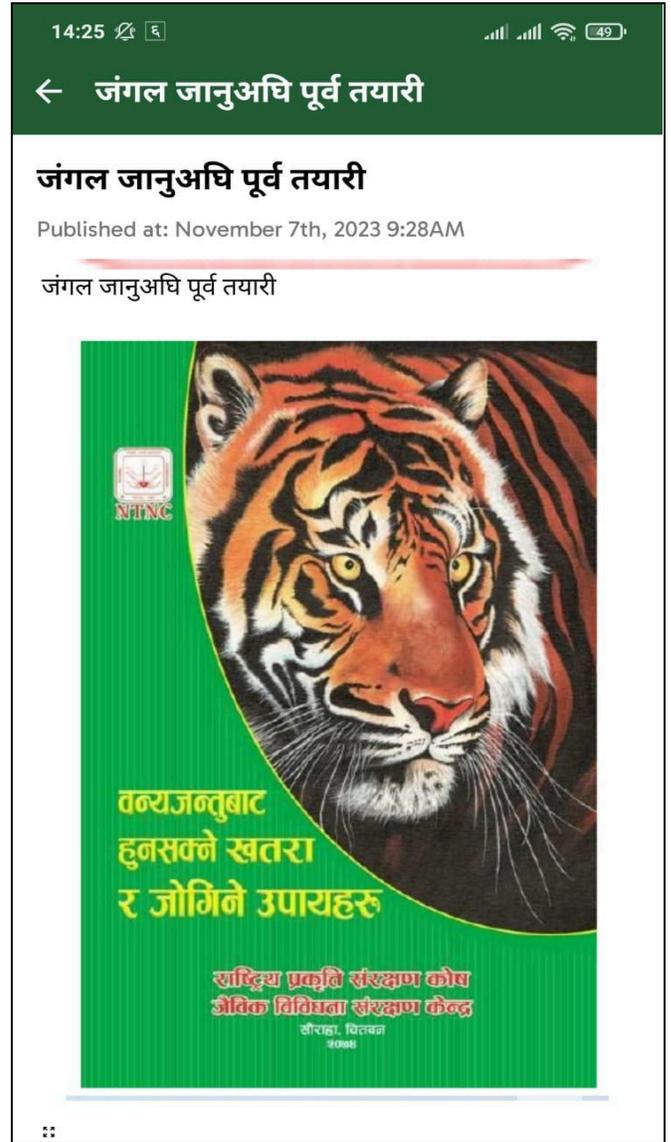
However, administration users receive the exact location of the animal via SMS to ensure a prompt rescue response.

“Animal Sighting” section where we can report about the animal’s status and location. We will be navigated to the page where one has to fill information on Wildlife’s name, condition and location and if feasible add images as well. After these information is filled in, we can click on the submit button.

Since the information submitted is sensitive, users get a disclaimer about the authenticity check of their information. After confirmation, wildlife presence is submitted. Authorities get SMS while app users get in-app notification.



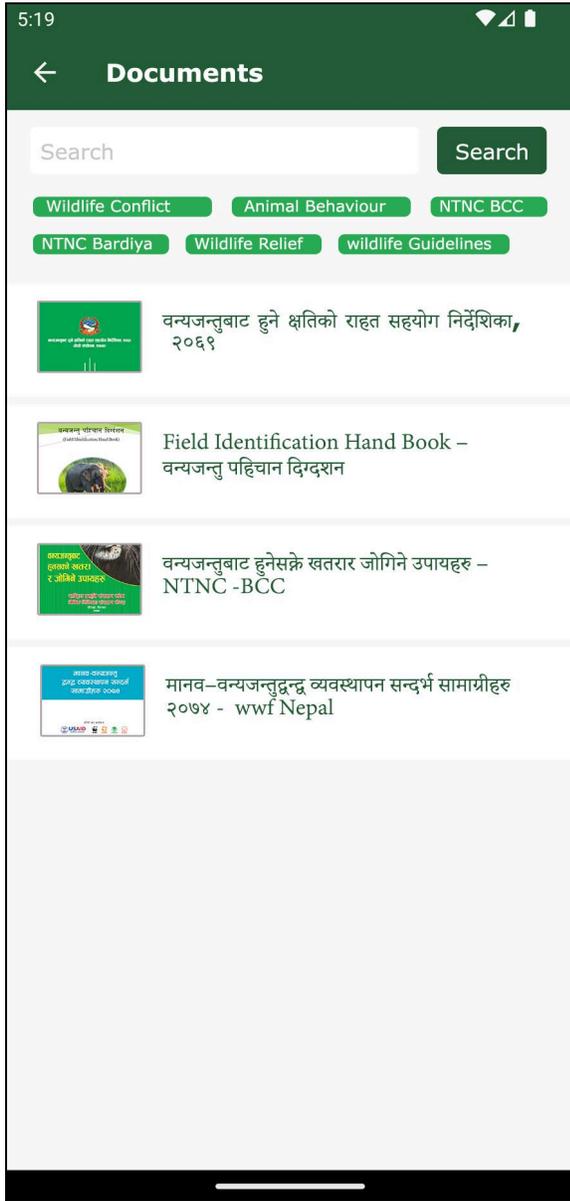
INFORMATION SECTION



The Information Section contains documentaries, YouTube videos, and articles, all of which can be accessed within the app. Articles and videos are clickable and open directly in the application. Users also have the option to download files and articles for offline access.

This section can be accessed by clicking on the information banner on the Home Screen.

DOCUMENTS SECTION



The Document Section, accessible from both the Profile Section and the Home Screen, provides detailed information on published and shared documents related to human-wildlife conflict.

Users can click on article headings to read the full content within the app and also have the option to download files and articles for offline access.

CONFLICT REPORTING

To fill the new data of human wildlife conflict, we can go to the profile section and click on the conflict button. Then click on the “new conflict” button. A new record tab will be open where we need to fill the data accordingly.

Users can list out one or more types of damages and loss. We can use the arrow button on the bottom left and right to navigate onto the previous and next page. The following screens will appear as you proceed along filling the information.

The 'New Conflict' screen features a green header with a back arrow and the title 'New Conflict'. The form includes several input fields: 'Event occurred date and time' with a calendar icon, 'Form filled location' with a dropdown arrow, 'Latitude' and 'Longitude' with a location pin icon, 'Informer first name' and 'Informer last name' text boxes, and 'Informer contact number' text box. Below these are location selection options: 'Event occurred location' with a 'Select Province' dropdown, and 'Select District', 'Select VDC', and 'Select Ward' dropdowns. Further down are 'Tole' and 'House number' text boxes, and 'Related Reserve Area/Forest Area' with a 'Select Area Type' dropdown and two 'Select One' dropdowns. A 'Community Forest / CAMC' text box is at the bottom. A green arrow button is in the bottom right corner.

The 'Types of Damage' screen has a green header with a back arrow and the title 'Types of Damage'. It displays 'Event ID: undefined-0NaN'. There are six damage categories represented by icons: 'Human Loss' (three people), 'Animal Loss' (a cow with a green checkmark), 'Crop Loss' (wheat stalks), 'Property Damages' (a house), and 'Other Damages' (a yellow box). At the bottom, there are '< Back' and 'Next >' navigation buttons.

The 'Event Details' screen has a green header with a back arrow and the title 'Event Details'. It shows 'Event No. undefined-0NaN'. The 'Date and Time of the Incident' is set to '11/1/2023, 2:15:00 PM GMT+5:45' with a calendar icon. Below is a dropdown for 'Where was the form filled?' with 'Select One' above it. The 'Incident Spot' is 'Victim's house'. There is a 'Contact No.' text box. The 'Place of Incident' section has a dropdown and three smaller dropdowns. Below that are 'Street' and 'House Number' text boxes. The 'Related Reserve Area/Forest Area' has a dropdown. At the bottom right is a 'Next >' button.

← **Additional Information**

Event No. 0040-0001

Photos

Click here to upload

Who did you report the incident to?

Select One

Relief Process

Select One

What would you like to do to this form?

Save as draft Upload online

Is there any other details that you would to add in the form?

< Back Next >

The draft record section enlists two types of records; first, records that are not complete to be sent, and second those which are complete and require proper internet connection to be sent. Records inside the draft record are completely editable and users can make changes if required by clicking on any of the records inside the list.

These records can be uploaded individually by clicking on the list and navigating to the end of the section ensuring the form is completely filled. Upon selecting the “Upload Online” button, the form will be uploaded to the server.

Events that are successfully sent to the server are stored and recorded as “Published” records. From here onwards, any action on form data cannot be taken but we can only view them. All the uploaded records will be stored in the “Records” section in the web dashboard.

HOME PAGE

The homepage gives users a platform to login, access to contact and records sections. The data can be filtered as per location, date, area and species type. Users can access the conflict data of specific animal species without requiring

HWC Nepal

[Log in](#)
[Contact](#)
[Records](#)

Human Wildlife Conflicts

Disclaimer: The information contained on this page is based on the human-wildlife conflict incidents reported by the mobile users registered in our system and compiled in the database. The information may not be complete. The information (including figures and graphs) generated from the database can be used for educational and non-commercial purposes with acknowledging the source. To access and use data for research and educational purpose, please contact us.

New Conflicts Count

00

+12.5% Since last month

Total Conflicts Count

6

+12.5% Since last month

Species wise conflicts

2
Elephant

0
Rhinoceros

0
Tiger

0
Bear

0
Leopard

0
Snow Leopard

0
Clouded Leopard

0
Wolf

0
Wild Dog

0
Wild Boar

3
Wild Buffalo

0
Mugger Crocodile

0
Python

0
Gaur

0
Monkey

0
Blue Bull

1
Others

Filter Data by

Provinces

Start Date

End Date

Conflict Type

Forest Type

Bar Graph of Conflict Types

Filter Criteria Province : All, Year : All, Month : All, Conflict Types : All, Forest Type : All

Food Crops Loss
Number of Conflicts: 5

- Human Loss
- Livestock Loss
- Food Crops Loss
- Property Damage
- Other Loss

HWC Nepal

Dashboard

- [Animal Activities](#)
- [Conflict Events](#)
- [Maps](#)
- [Mobile Users](#)
- [Address](#)
- [Areas](#)
- [Messages](#)
- [Learning \(Beta\)](#)
- [Settings](#)

Animal Activity

Total Activities Count

179

SN	USER NAME	PHONE NUMBER	ANIMAL	CONDITION	LATITUDE / LONGITUDE	ACTIONS
1	KhemNarayan Khajwar	9840955813	Elephant	Injured	lat: 27.875050898329535, long: 85.35419253832428 View map	View Delete
2	KhemNarayan Khajwar	9840955813	Monkey	Raged	lat: 27.897198586495545, long: 85.34777032218423 View map	View Delete
3	KhemNarayan Khajwar	9840955813	Snow Leopard	Single	lat: 27.844867286853483, long: 85.3647720384928 View map	View Delete

[View More](#) →

Animal Conflicts

Total Conflicts Count

6

SN	EVENT ID	EVENT INFO	WILDLIFE CAUSING PROBLEM	LOCATION	PA/UC/CF	AFFECTED PEOPLE BY EVENT	ACTIONS
1	0000-0000	Food Crops Loss	Wild Buffalo, 2	lat: 27.8840733,	DATE ASS		View Delete

Web dashboard is the main web portal for the HWC application. Data, visualization and reporting are its main functionalities. Only authorized username and password will be able to access the dashboard. For web dashboard login go to <https://salyani.org/app/test/hwcnepal>, you will get the following window.

Then click on Login to get logged in to the web dashboard.

CONFLICT EVENTS

SN	EVENT ID	EVENT INFO	WILDLIFE CAUSING PROBLEM	LOCATION	PA/UC/CF	AFFECTED PEOPLE BY EVENT	ACTIONS
		Reported By: Khem Khojwar	-1, Child -1	View map			
9	0055-0002	Food Crops Loss Reported By: Khem Khojwar	Mugger Crocodile, 2 Male -1, Female -1, Child -1	lat: 27.684073303695868, long: 84.43227170035243 View map	2		
10	0055-0002	Food Crops Loss Reported By: Khem Khojwar	Mugger Crocodile, 2 Male -1, Female -1, Child -1	lat: 27.684073303695868, long: 84.43227170035243 View map	2		
11	0055-0002	Food Crops Loss Reported By: Khem Khojwar	Wild Buffalo, 2 Male -1, Female -1, Child -1	lat: 27.684073303695868, long: 84.43227170035243 View map	2		

The conflict events section provides us with the records of all the published conflict forms from the mobile application. Only administrators have permission to edit or delete the conflict reports.

ANIMAL ACTIVITIES

USER ID	USER NAME	PHONE NUMBER	ANIMAL	CONDITION	LATITUDE / LONGITUDE	ACTIONS
81	sneha bajracharya		Rhinoceros	Normal	lat: 27.6851088, long: 85.3073965 View map	
80	Google Test		Tiger	Raged	lat: 27.68470884637212, long: 85.30717178418882 View map	
79	sneha bajracharya		Wolf	Raged	lat: 27.6850544, long: 85.3073185 View map	
78	KhemNarayan Khojwar		Snow Leopard	Raged	lat: 27.68470884637212, long: 85.30717178418882 View map	

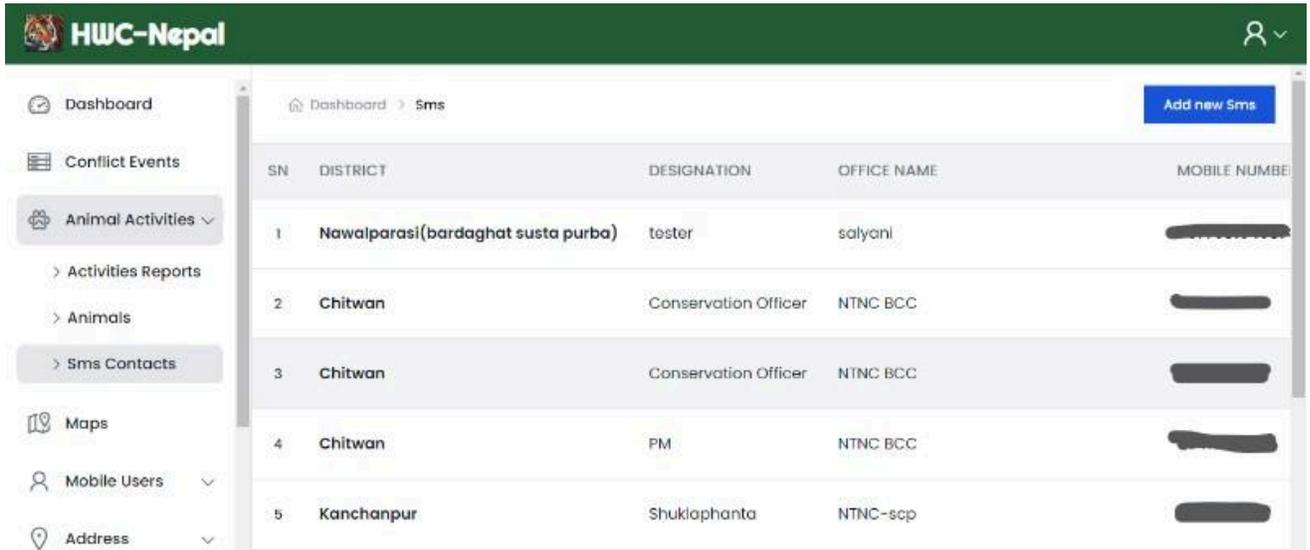
The Animal Activities section has three subsections - Animal Reports, Animals and SMS Contacts. Activities Reports provides data on the reported animal activities with an edit and delete option to the administrators.

ANIMALS

SN	ANIMAL ENGLISH NAME	ANIMAL NEPALI NAME	ANIMAL ICON	ACTIONS
1	Elephant	हाली		
2	Rhinoceros	गैंडा		
3	Tiger	बाघ		
4	Bear	भाल		

This section allows administrators to add new animals and edit the existing animal list.

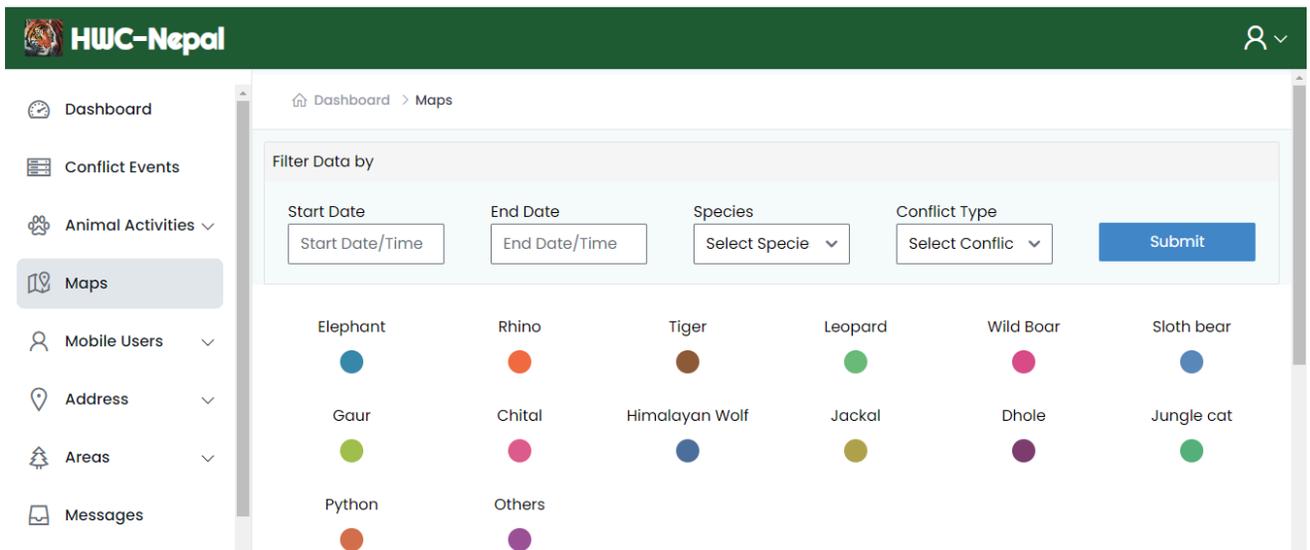
SMS CONTACTS



SN	DISTRICT	DESIGNATION	OFFICE NAME	MOBILE NUMBER
1	Nawalparasi(bardaghat susta purba)	tester	salyani	[REDACTED]
2	Chitwan	Conservation Officer	NTNC BCC	[REDACTED]
3	Chitwan	Conservation Officer	NTNC BCC	[REDACTED]
4	Chitwan	PM	NTNC BCC	[REDACTED]
5	Kanchanpur	Shuklaphanta	NTNC-scp	[REDACTED]

This section allows administrators to add new numbers of authorities who are to receive alert sms notification for any animal activity reporting.

MAPS

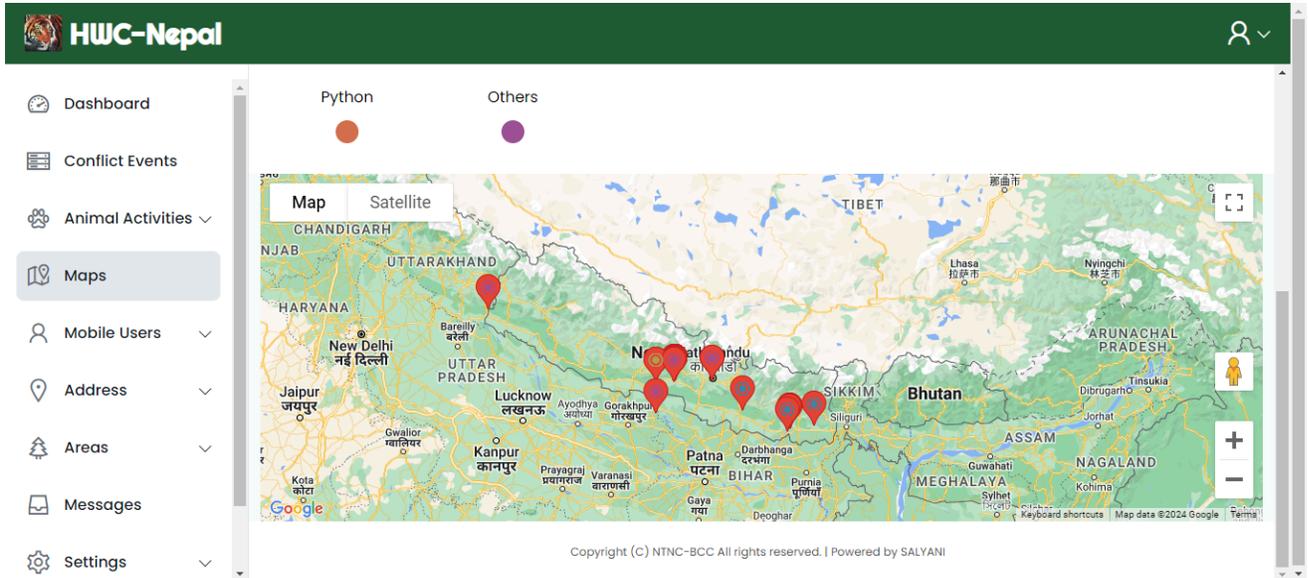


Filter Data by

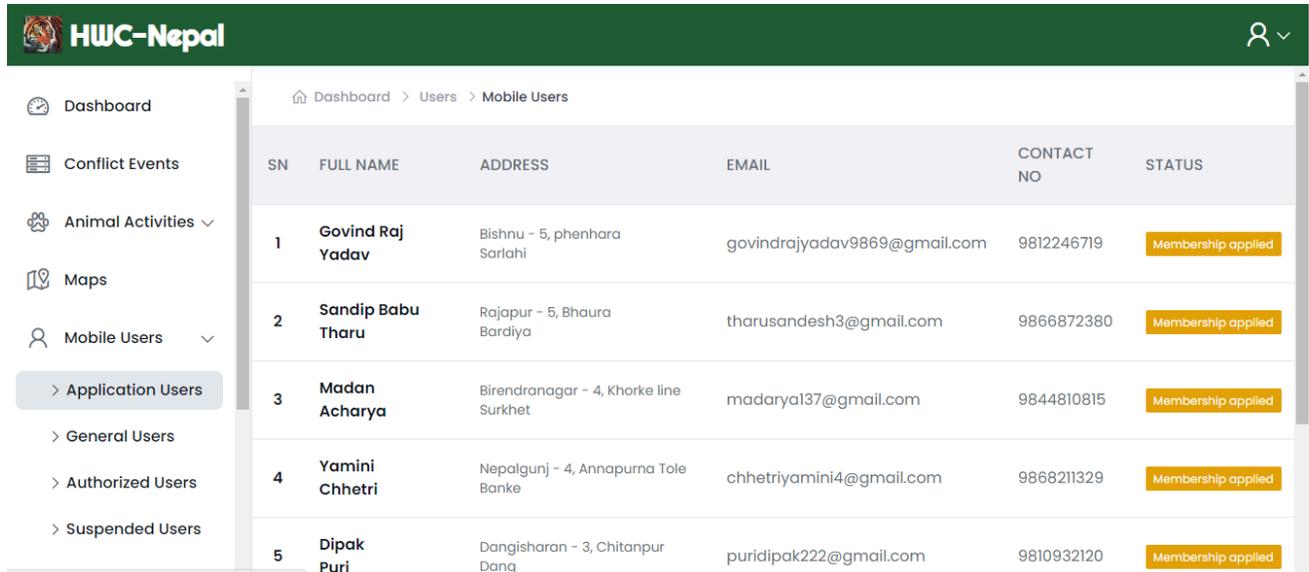
Start Date: End Date: Species: Conflict Type:

Elephant	Rhino	Tiger	Leopard	Wild Boar	Sloth bear
Gaur	Chital	Himalayan Wolf	Jackal	Dhole	Jungle cat
Python	Others				

The maps section allows us to filter the animal data as per date, time, species and conflict type. Upon clicking the submit button after data selection, the animal conflict data is represented in the map of Nepal as below.



MOBILE USERS



Dashboard > Users > Mobile Users

SN	FULL NAME	ADDRESS	EMAIL	CONTACT NO	STATUS
1	Govind Raj Yadav	Bishnu - 5, phenhara Sarlahi	govindrajyadav9869@gmail.com	9812246719	Membership applied
2	Sandip Babu Tharu	Rajapur - 5, Bhaura Bardiya	tharusandesh3@gmail.com	9866872380	Membership applied
3	Madan Acharya	Birendranagar - 4, Khorke line Surkhet	madarya137@gmail.com	9844810815	Membership applied
4	Yamini Chhetri	Nepalgunj - 4, Annapurna Tale Banke	chhetriyamini4@gmail.com	9868211329	Membership applied
5	Dipak Puri	Dangisharan - 3, Chitanpur Dang	puridipak222@gmail.com	9810932120	Membership applied

The Mobile User Section has four sub sections. Namely, Application users, General users, Authorized users and Suspended users. Application users are the ones who have applied for membership and are yet to be approved. General users are the registered users who access the app through the Sign-In option.

Authorized users are those whose application for membership has been approved and suspended users are those authorized users who have been suspended due to engaging in prohibited activities. The dashboard has options to approve, delete, suspend and unsuspend users.

ADDRESS

SN	PROVINCE NO.	PROVINCE NAME	ACTIONS
1	Province No. 1	Koshi	
2	Province No. 2	Madhesh	
3	Province No. 3	Bagmati	
4	Province No. 4	Gandaki	
5	Province No. 5	Lumbini	
6	Province No. 6	Karnali	
7	Province No. 7	Sudurpaschim	

The Address section contains all the names of provinces, districts and rural/ municipalities, which can be added further and edited.

AREAS

SN	PARK AREA NAME	CORRESPONDING PROVINCE	ACTIONS
1	Chitwan National Park (province 3) चितवन राष्ट्रिय निकुञ्ज	Bagmati	
2	Parsa National Park (province 2) पर्सा राष्ट्रिय निकुञ्ज	Madhesh	
3	Shuklaphanta National Park शुक्लाफाँटा राष्ट्रिय निकुञ्ज	Sudurpaschim	
4	Bardiya National Park (Province 5) बर्दिया राष्ट्रिय निकुञ्ज	Lumbini	
5	Koshi Tappu Wildlife Reserve (province 2) कोशीटप्पु बन्धनजन्तु आरक्ष	Madhesh	

This section has data of parks, forest, bufferzone user community and range posts, which are editable.

MESSAGES

The screenshot shows the HWC-Nepal Messages dashboard. The sidebar on the left contains the following menu items: Conflict Events, Animal Activities, Maps, Mobile Users, Address, Areas, Messages (highlighted), and Settings. The main content area displays a message from Sneha BAJRACHARYA. The message details are as follows:

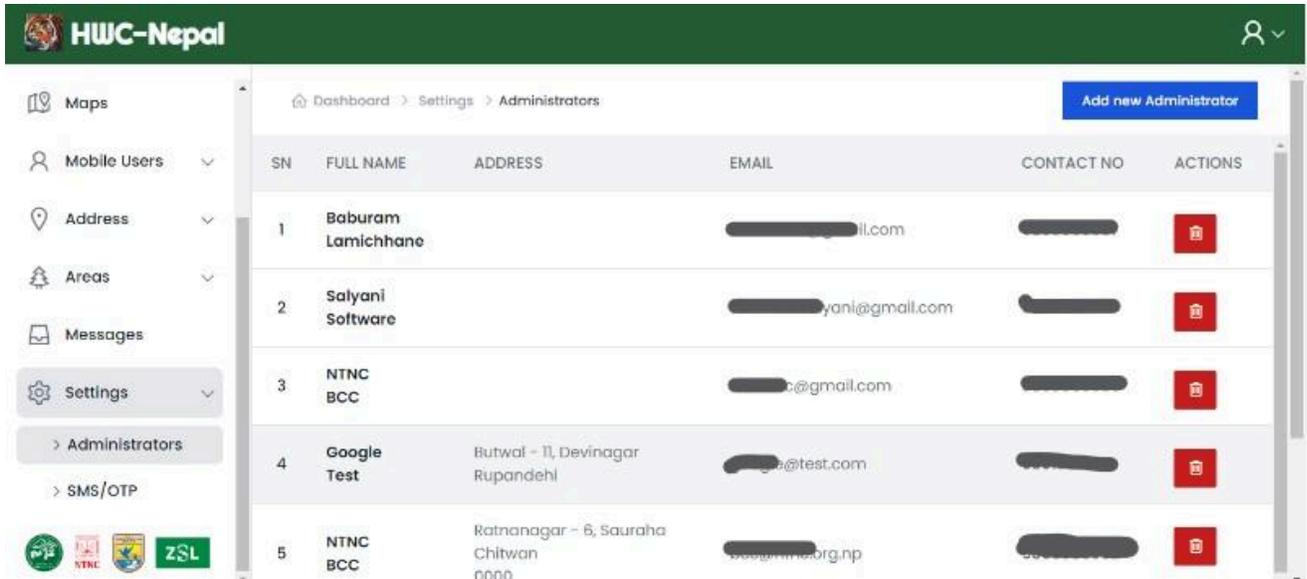
SN	PERSONAL INFORMATION	SUBJECT	MESSAGE	ACTIONS
1	Sneha BAJRACHARYA sneha.bajracharya0205@gmail.com 12345678 2024-02-20 10:15 am	Regarding animals	I wanted to know the source of data please. Thanks.	

The contact section has a link to send any queries about the HWC-Nepal application. Contact form message section collects all the messages from the contact form web dashboard login and feedback section in the mobile application.

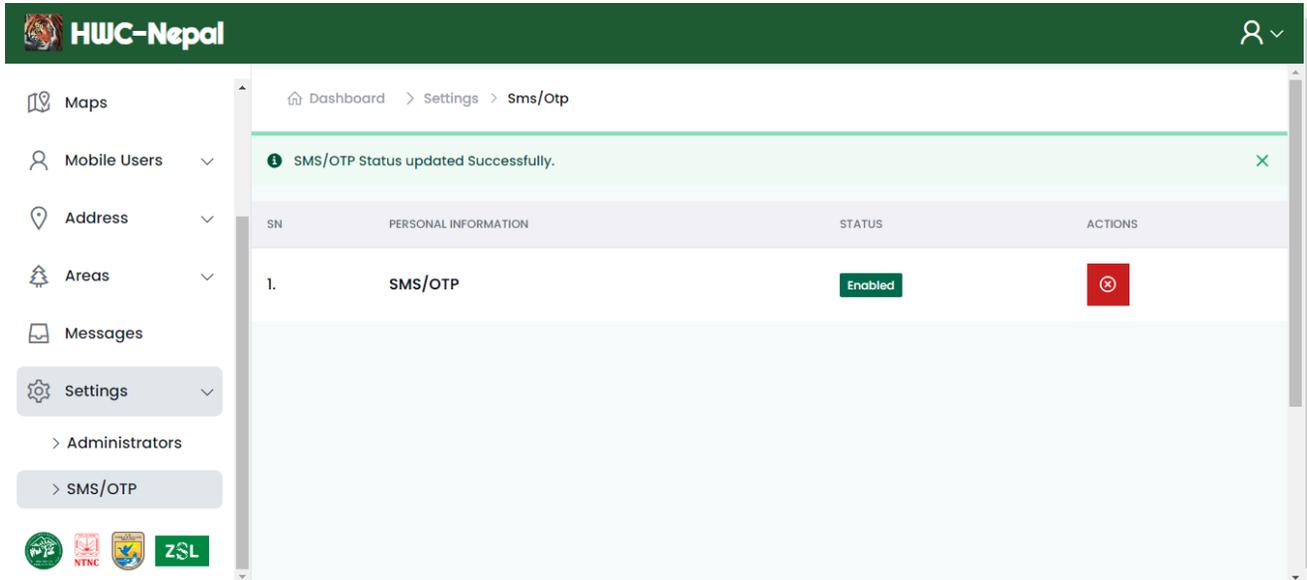
Administration can log in and see the entire contact message and take appropriate action.

SETTINGS

The Settings section includes Administrators and SMS/OTP sub-sections. Administrators are authorized personnel to have access to amend major details of the application. Upon requirement, administrators can be added and deleted.



The SMS/OTP section incorporates SMS API enable disable module. The Actions button allows you to either disable and enable the SMS/OTP. Upon enabling it, users get access to SMS alerts and OTPs and disabling it halts the process. The access is provided only to the administrators.



FOR MORE DETAILS

Administrative Contact

Zoological Society of London
Bishalnagar, Kathmandu

Technical Contact

Salyani Technologies (P) Ltd.
Mid-Baneshwor, Kathmandu
www.salyani.com | info@salyani.com.np
+977 9801533977

