

Know Your Ghats

An Android Informative Application

Dedicated to

National Mission for Clean Ganga, DoWR, RD and GR, Ministry of Jal Shakti

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What is the problem statement ?

- The Ganges river is the largest river in India, providing water to 40 % of India's population across 11 states.
- Today it is considered to be the sixth-most polluted river in the world.
- Most of the pollutants include industrial waste, human waste and sewage.
- Pollution of ghats is a huge factor leading to the pollution of the rivers.
- The National Mission for Clean Ganga (NMGC) was set up in October 2016 with only one aim, to clean the Ganges and its tributaries.
- Different cleaning stations were built all these years till date, but it seems to be not much effective. The main reason was the lack of people's knowledge about the river's pollution level and extensive use of river Ghats.
- So the aim of this initiative is to give citizens awareness by means of an user-friendly mobile application containing river Ghat informations.

What is new ?

- People will now come to know about different ghats and their specifications, what they can offer, what they lack, what can be improved.
- This app has a review feature for every single ghat. It can only be given when the individual is located within a 1 km radius of the ghat.
- This information will be sent to the Admin side app where the officials can view review for each and every ghat and what problems people face.
- This app has a survey feature where an individual has to answer a few questions regarding the government's initiative and whether he/she wants to help out.
- This app has a feature of adding new ghats which are not present on the app. The user can put in the details of that ghat along with at most 2 pictures. All this information will be verified in the Admin App by the officials.
- This app has a donation portal which will contain donation links of all the government fund raising events regarding Clean Ganga initiative.

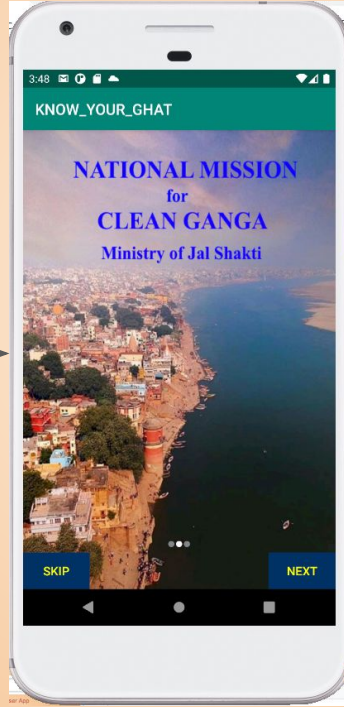
What is new?

- This app has a nearby Ghat locator which will detect the closest Normal / Cremation / Ferry / Tourist Ghat based on the user's location and will also show the distance between them.
- In every description page, if one clicks the address of the Ghat, then Google Maps will open up showing how to travel to that ghat.
- One of the main features of this ghat is real time synchronization. From the Admin app, current status of every single ghat can be edited and changed accordingly in a matter of seconds. The local river officials can change each and every ghats status accordingly.

Opening Slides



First Slide- App Logo



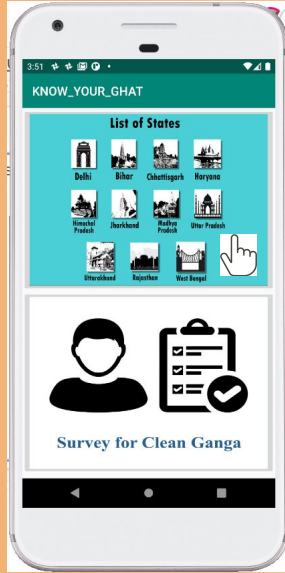
Second Slide - NMGC Poster



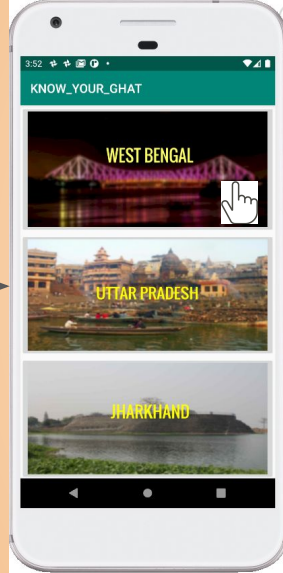
Third Slide - App Features

Features - User App

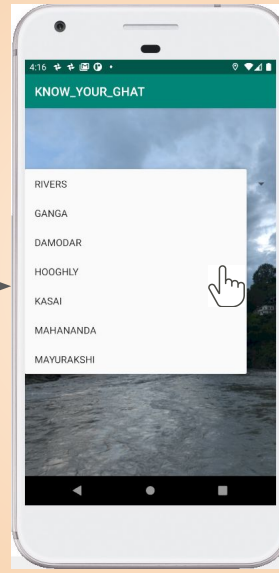
1. Ghat Description Page :



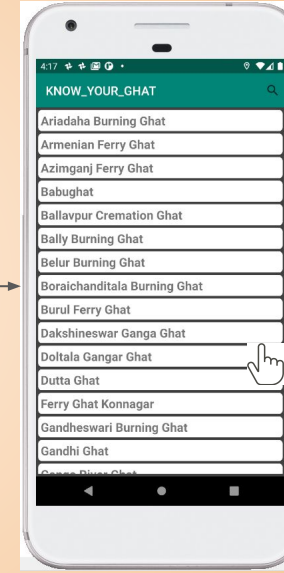
First Page



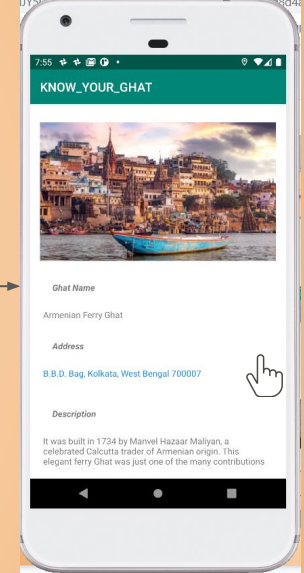
State List



River List



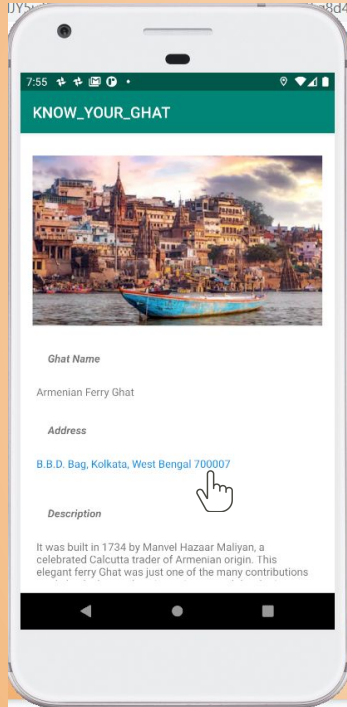
Ghat List



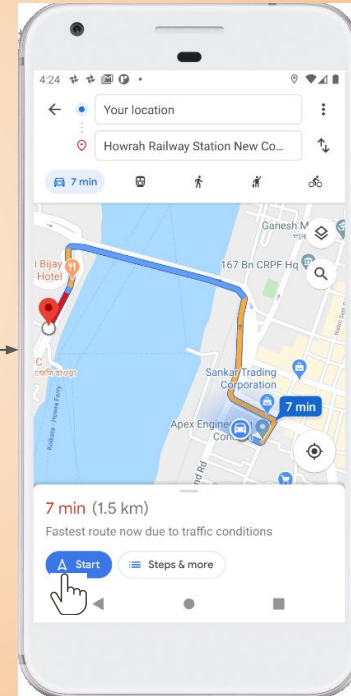
Description of Ghat

Features - User App

2. Ghat Address Locator :



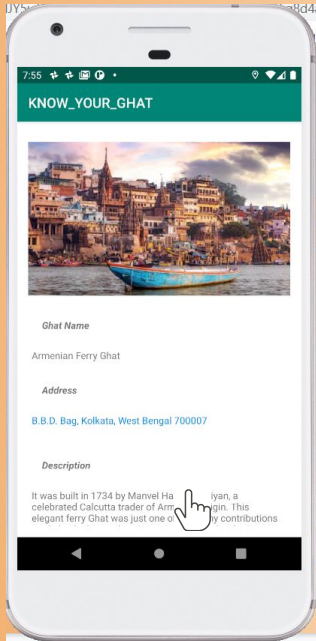
Description Page 1



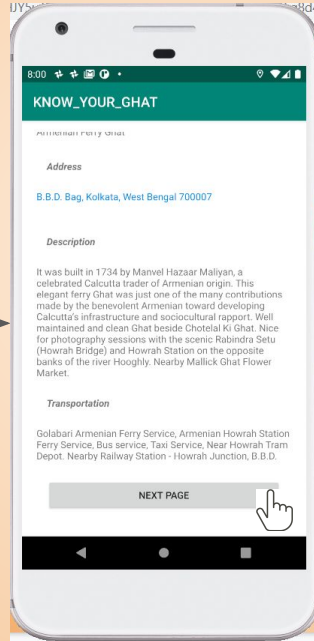
GPS Route to Ghat

Features - User App

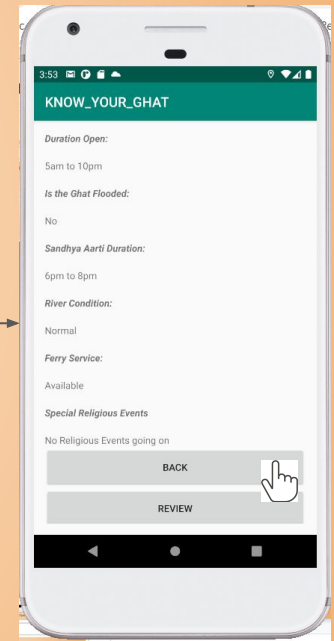
3. Ghat Current Status Page :



Description Page 1 Top



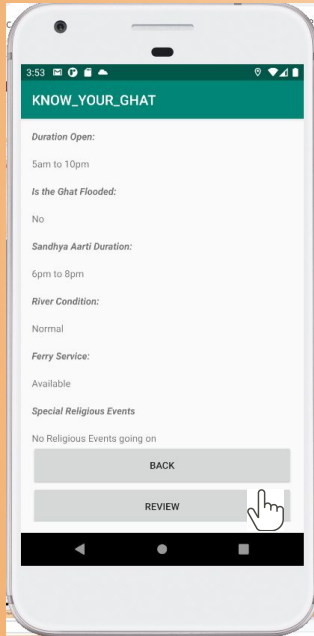
Description Page 1 Bottom



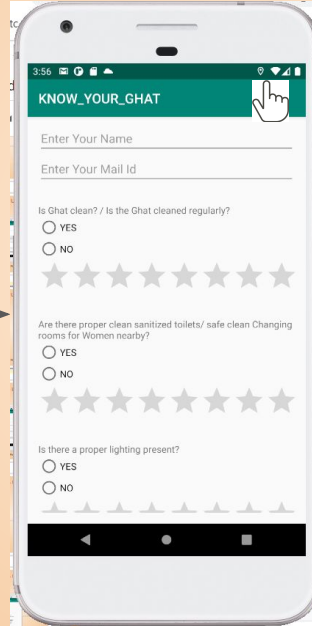
Ghat Current Status Page

Features - User App

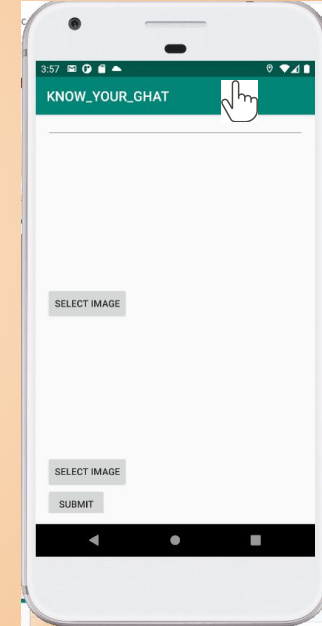
4. Ghat Review Page :



Description Page 2 Review Button



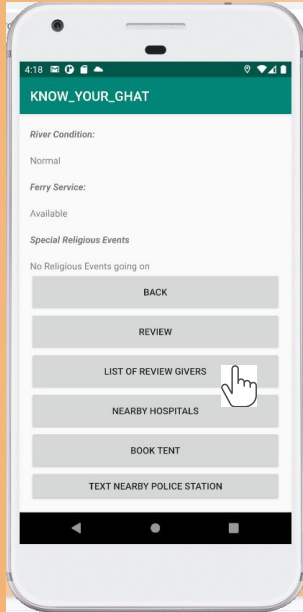
Review Page Top



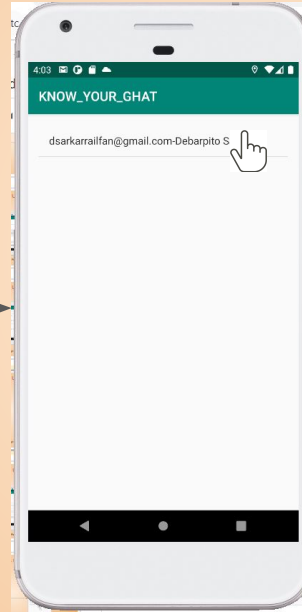
Review Page Bottom

Features - User App

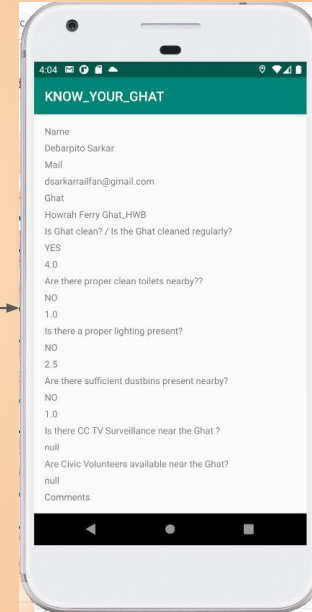
5. Ghat Review List Page :



Review List Button



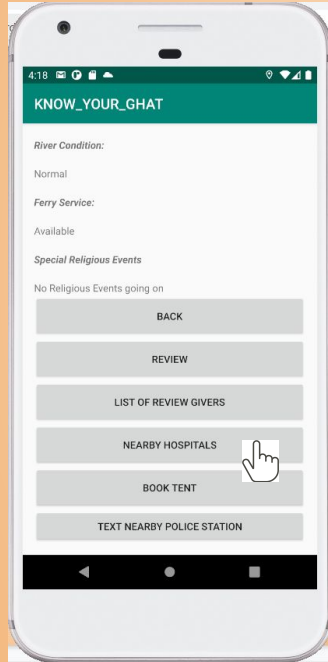
User Review List



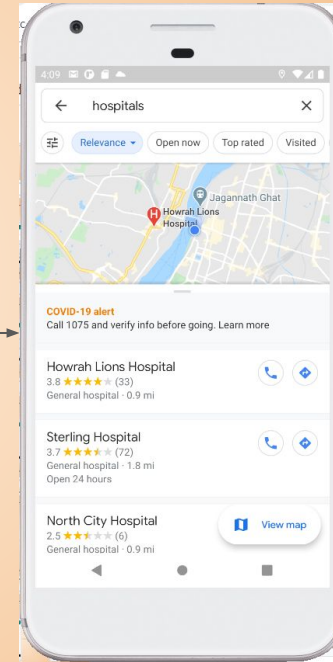
User Review Details

Features - User App

6. Nearby Hospital Locator :



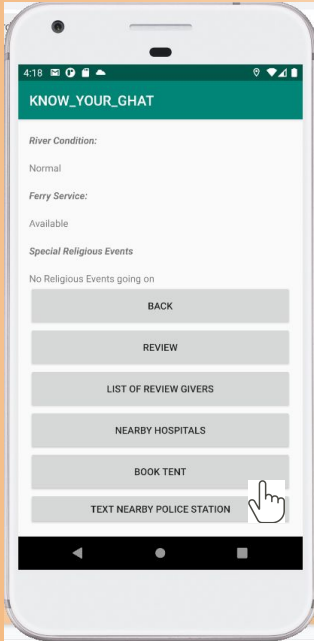
Nearby Hospitals Button



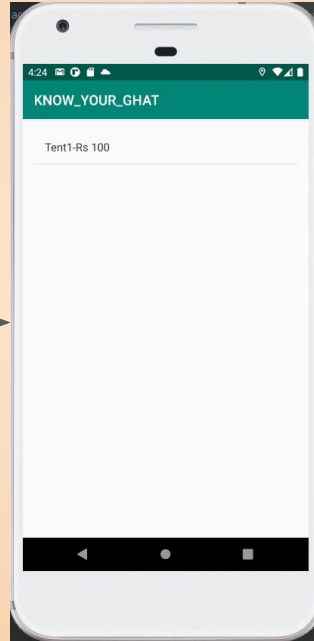
Google Maps Showing Nearby Hospitals

Features - User App

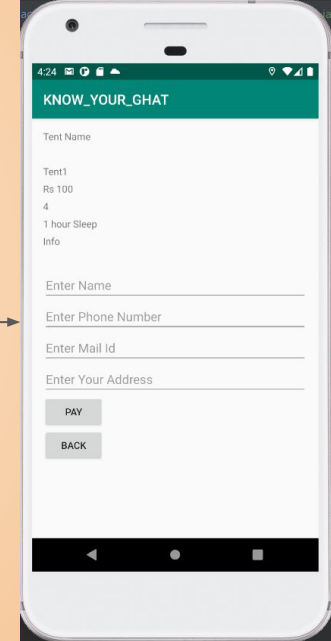
7. Book Tent Button :



Book Tent Button



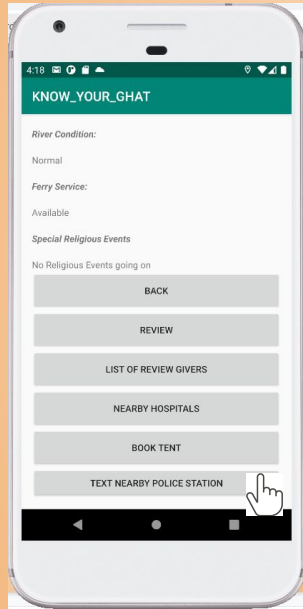
Tent Name & Price List



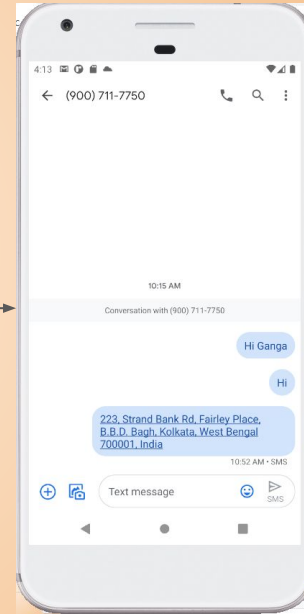
Tent Details and Booking

Features - User App

8. Emergency Button :



Emergency Text Police Station Button



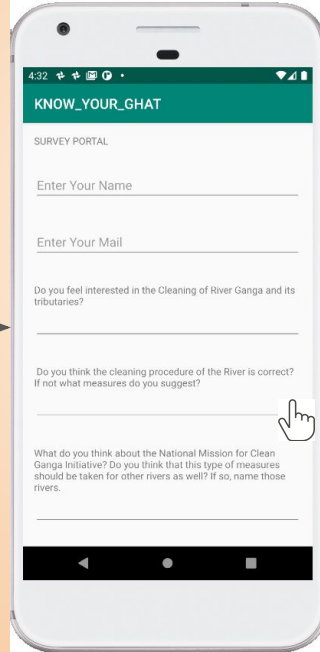
Address of User sent via SMS to Police Station

Features - User App

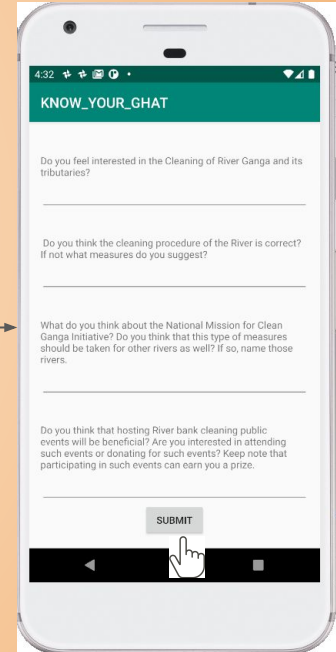
9. Survey for Clean Ganga



First Page Survey Button



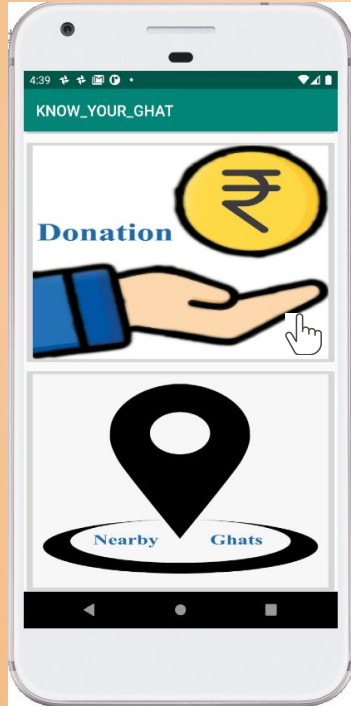
Survey Page Top



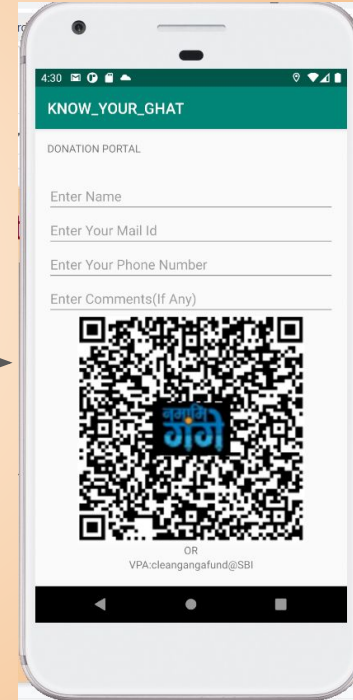
Survey Page Bottom

Features - User App

10. Donation Portal :



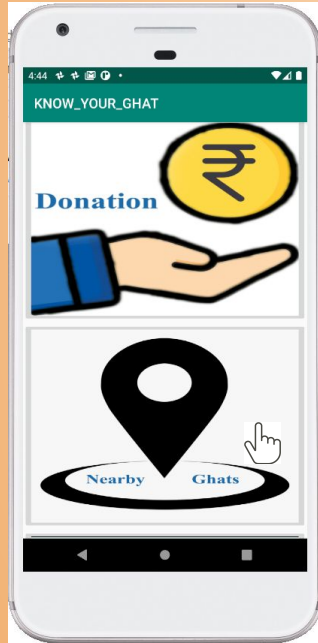
First Page Donation Button



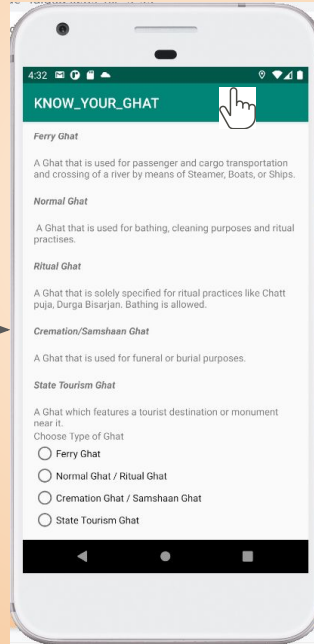
Donation Portal

Features - User App

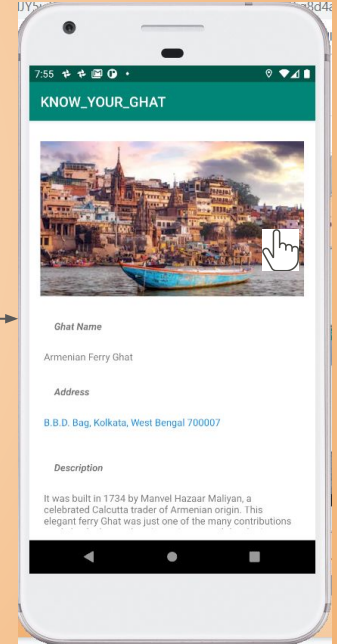
11. Nearby Ghat Locator :



Nearby Ghat Button



Ghat Type Options



Nearest Ghat Description
Page Opens

Features - User App

12. Add New Ghat Page :



Add New Ghat Button

KNOW_YOUR_GHAT

Enter Your Name

Enter Your Mail

Enter Ghat Name

Enter Name of River

Enter Address of Ghat

Enter Description of Ghat

Choose Type of Ghat

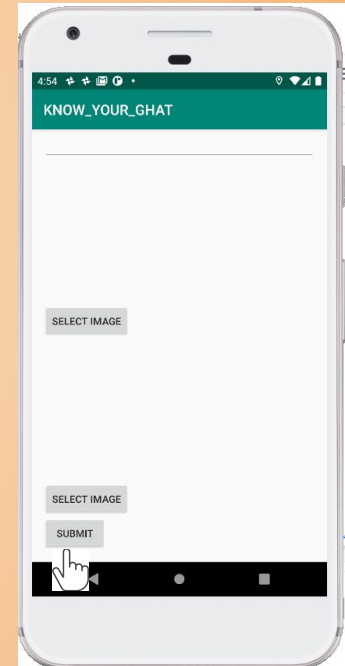
- ☐ Ferry Ghat
- ☐ Normal ghat
- ☐ Cremation ghat
- ☐ State Tourism Ghat

Is Ghat clean? / Is the Ghat cleaned regularly?

- ☐ YES
- ☐ NO

What is the opening and closing time of this Ghat?

Add New Ghat Entry Page Top



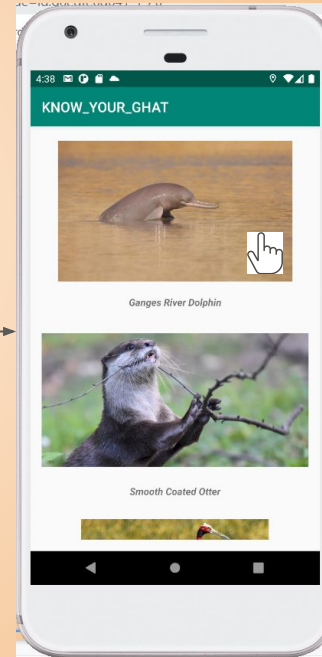
Add New Ghat Entry Page Bottom

Features - User App

13. Biodiversity of Ganga Basin :



Ganga Biodiversity Button



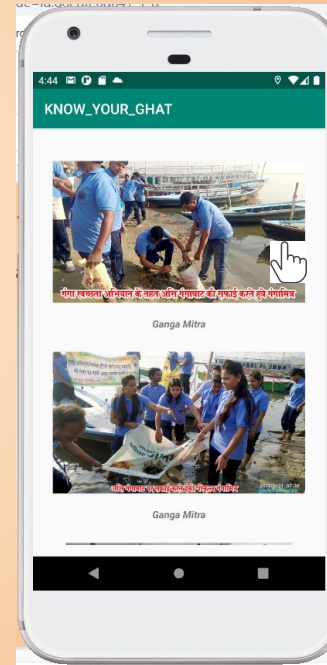
Marine Animals Images

Features - User App

14. National Mission for Clean Ganga Volunteers :



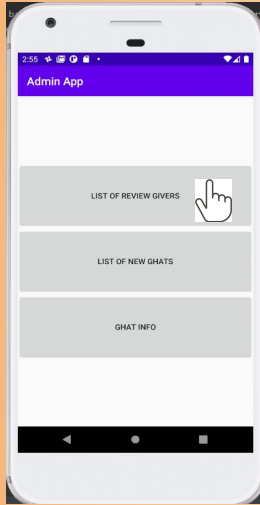
Namami Gange Volunteers Button



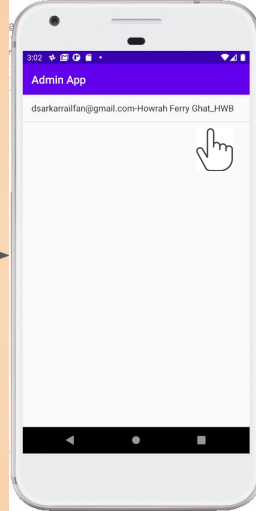
Volunteers Project Images

Features - Admin App

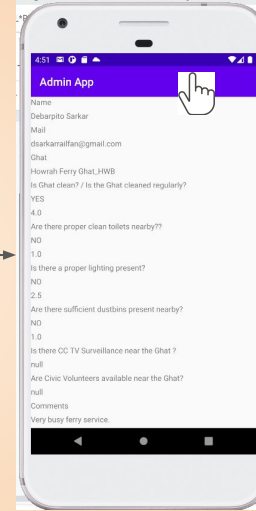
1. User Review Viewer :



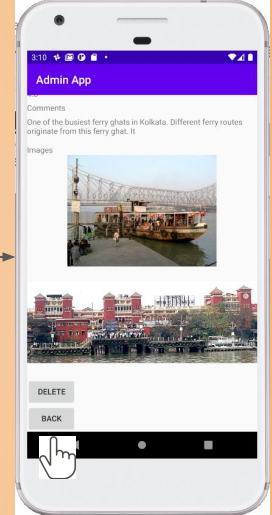
First Page



List of User Reviews



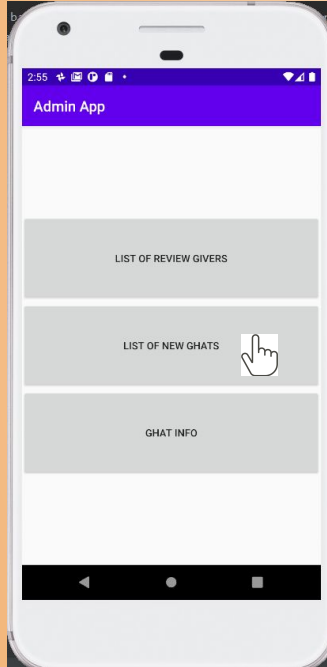
A User Review



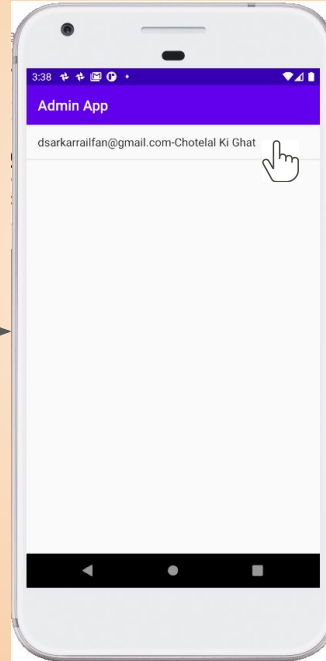
A User Review Contd.

Features - Admin App

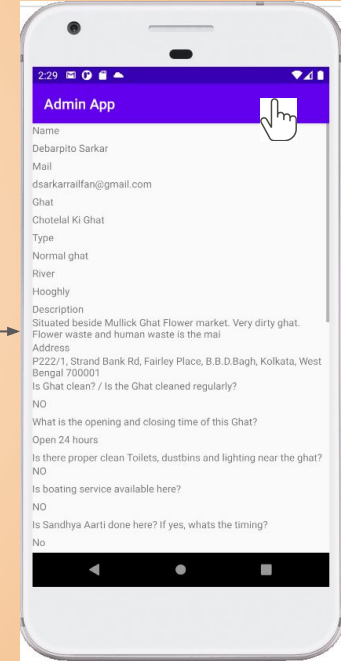
2. New Ghat Add Page :



First Page



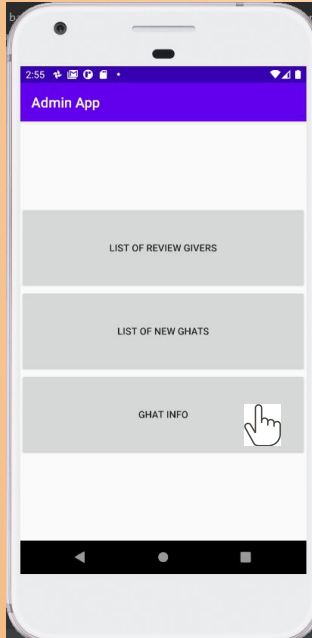
List of New Ghats User Entries



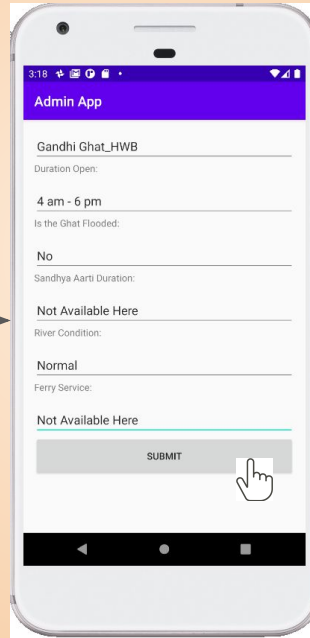
One User Entry

Features - Admin App

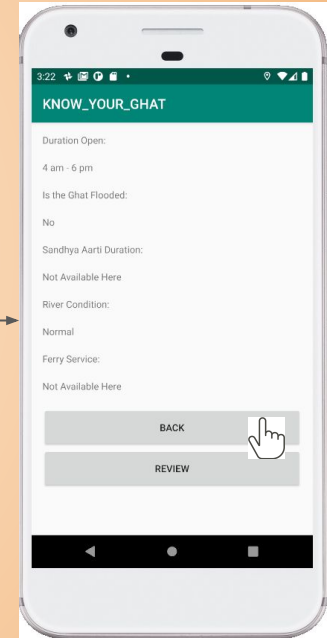
3. Ghat Status Update Page :



First Page



Ghat Status Insert



Display on User App Ghat
Description Page 2

Future Enhancements

- Introducing Machine Learning to detect waste in user given Ghat images.
- Better visualization of the App.
- Adding Multilingual Feature in both the User app and the Admin App.
- Designing a website both for User and Admin.
- Adding Description in Namami Gange Volunteers and Ganga Biodiversity List.
- Voice Search of Ghats (Hindi and English)

THANK YOU