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SMART INDIA HACKATHON 2020

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R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

WhatsInANname

PS ID: DR135

(Virtual Tourist Guide)

Govt. of Goa

RECAP

- **EfficientNet** : current state-of-the-art for image classification. Trained on **15000+** images, spread across **15** distinct classes. achieving **98.24% training accuracy** and **96.71% validation accuracy**.
- **FastAPI** : helps decrease inference time to < 1 sec
- **Kubernetes Cluster:** makes the platform highly scalable
- **TensorFlow Lite** : enables usability without internet
- **SoS Button:** provides user with all the emergency contacts and local authorities.
- **Recommendation** : location based dynamic suggestions
  - Location based eateries/restaurants and hotel
  - Location based monuments/landmarks
- **Reviews** : add user reviews to the knowledge base.
- **Data Generation** : stores statistics about people visiting a monument/landmark over a period of time.

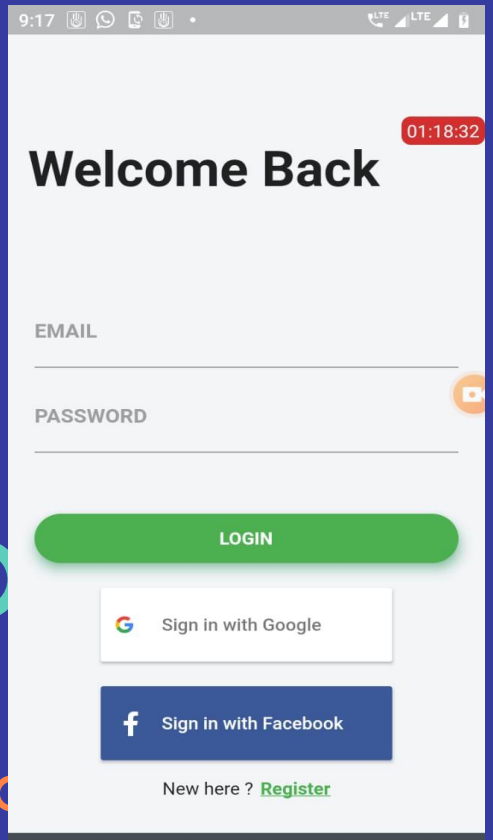
A lightweight (30 mb) mobile application that can run on android as well as iOS and recognize monuments and provide valuable information about them at a blazing fast speed even without being connected to the internet.

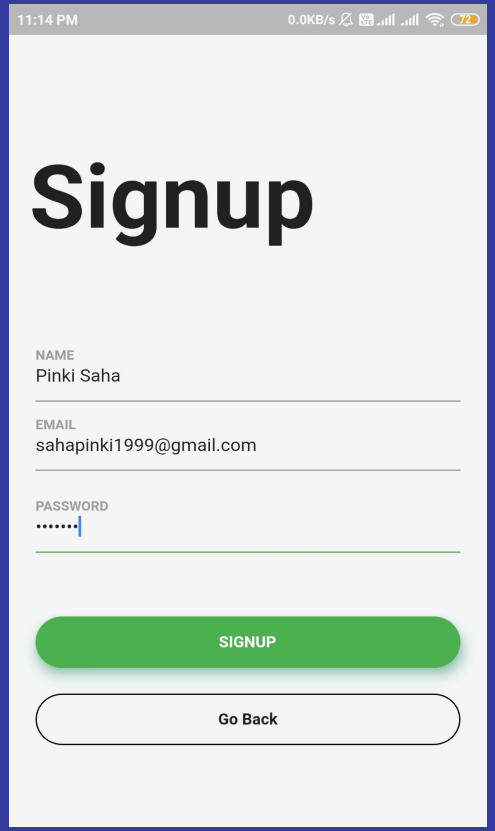
The app also allows users to write reviews and add to the knowledge base of the monument, while at the same time generating useful data for the
Government.

Day 1

Day 2

One Click Sign Up

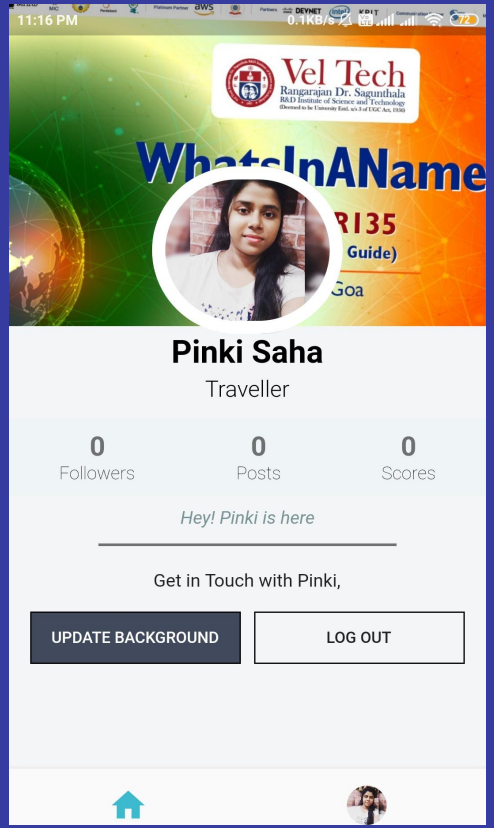


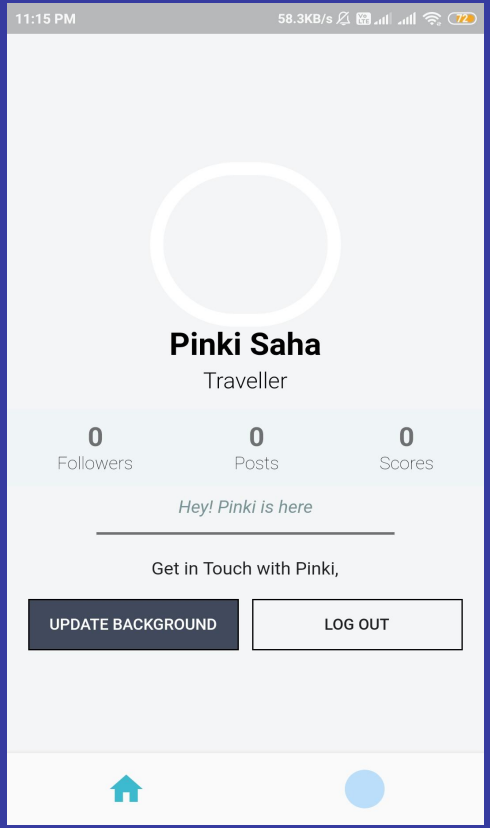


In addition to the email ID based login and sign up, there is an option for 1-click sign up and login using one's Google or Facebook account.

Profile

Our application maintains a user profile for the user. A user can personalize his profile (add profile picture, cover picture, short description bio, etc.).

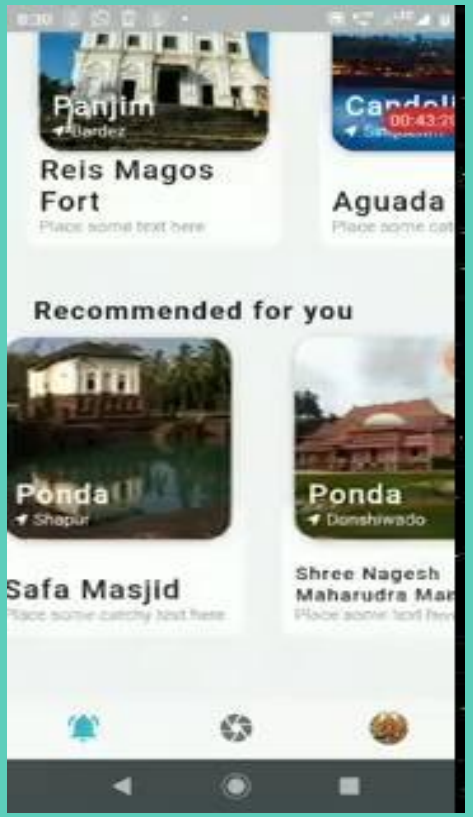




Personalized AI recommendation

Our app generates AI based recommendation based on user's profile and the pictures they click through our app.

This gives us information about what the person would like to visit next.



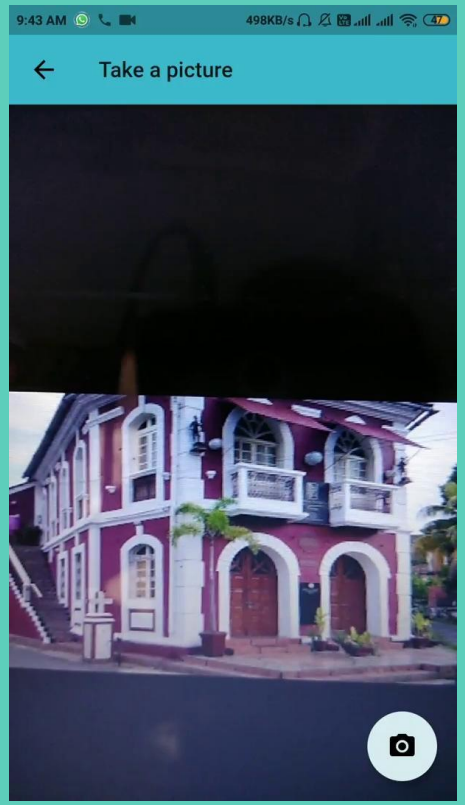
Top Hits

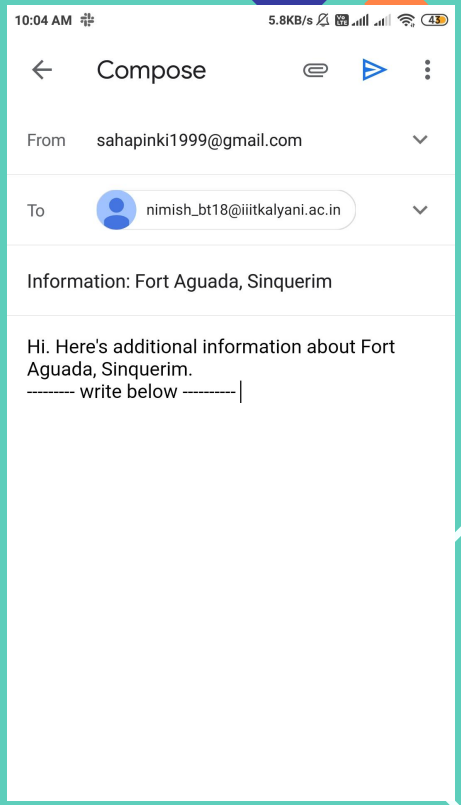
Shows the most visited places by visitors, based on user reviews, visits and searches.

Feedback

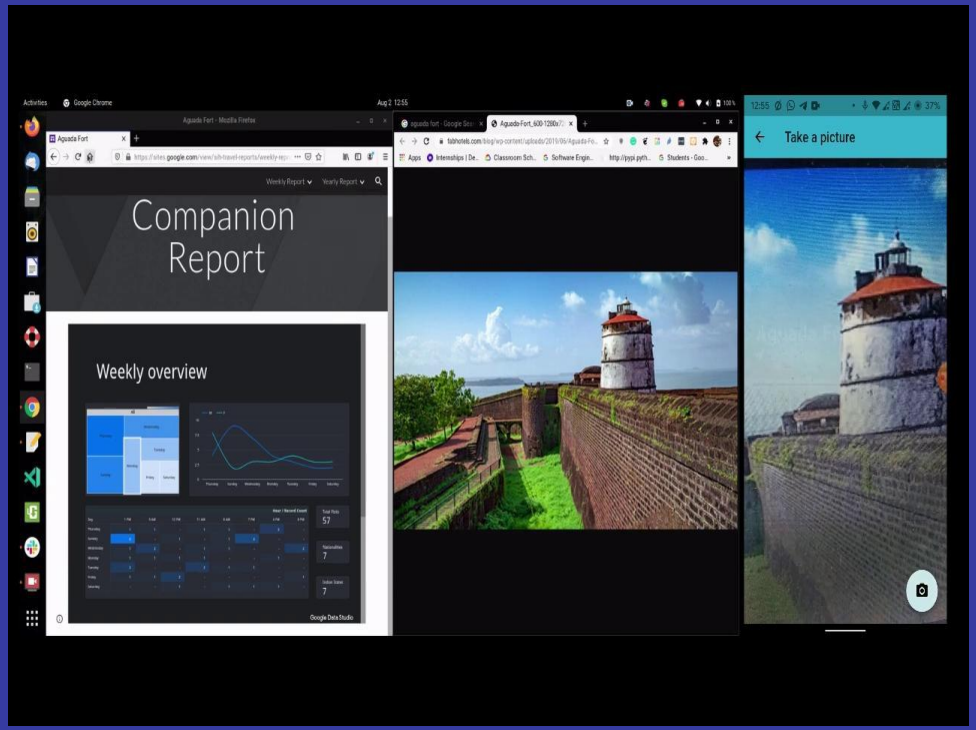
Knowledge base creation and expansion are an important part of the problem statement

Our app allows users to add information and pictures about the landmarks with our auto generated mail feature.



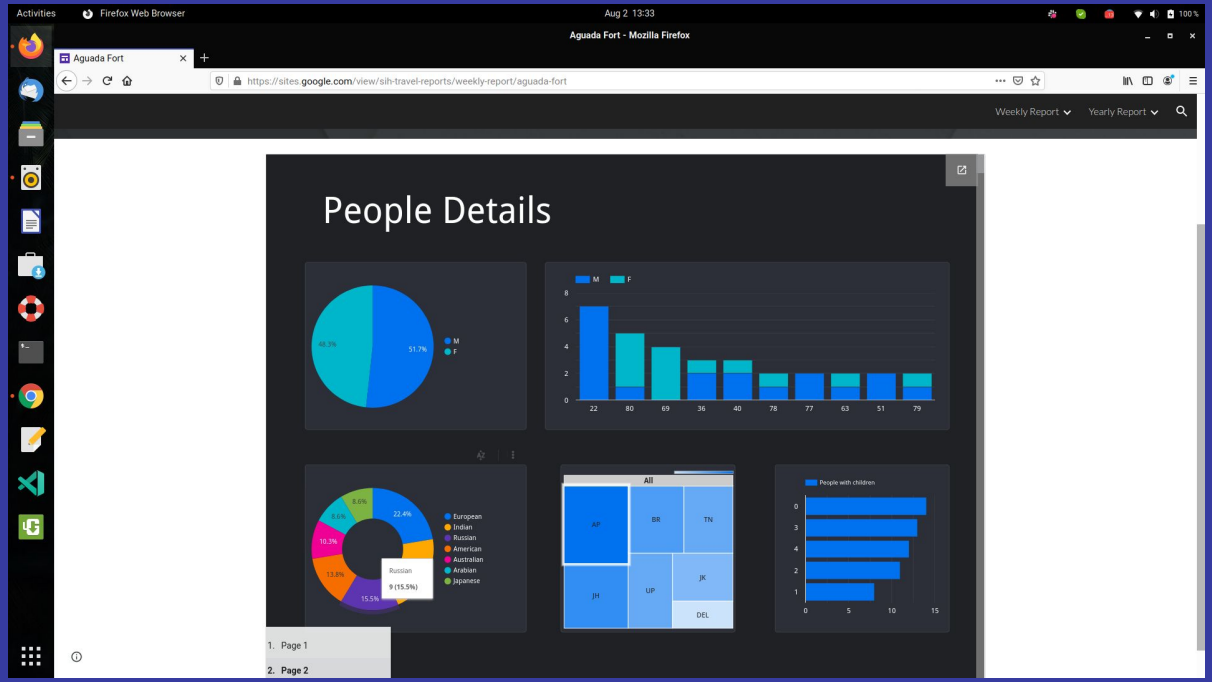


Data Analysis



With the help of the data that we collect using our app (maintaining the privacy of our user), we generate a statistics analysis tool that helps in analysing the trends and patterns of visits to a place.

Data Analysis Features

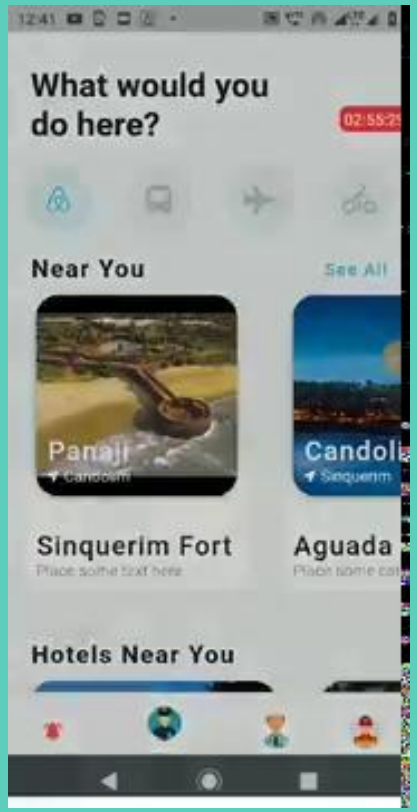


- Weekly / Yearly data reports
- Updated automatically
- Integrates with Google Data Studio seamlessly for scheduling report mails
- Heatmaps and advanced graphs

https://sites.google.com/view/sih-travel-reports/weekly-report/aguada-fort

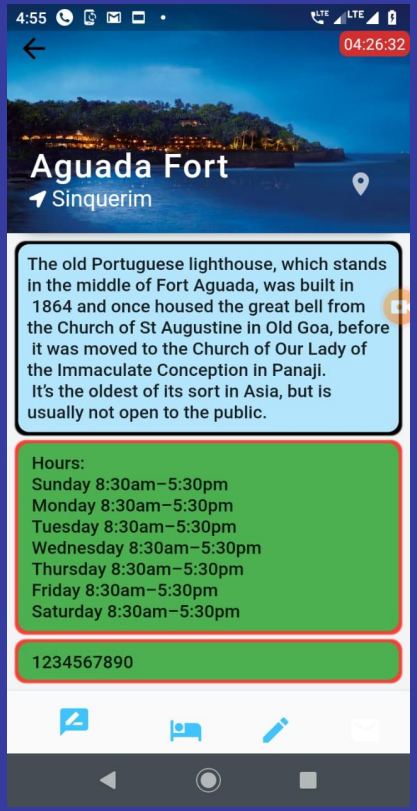
SOS System Improvement

In case of emergency, you may not know who to talk to or from where to find help.
Our application helps the user out, by providing various emergency helpline numbers and contact of local authority, so they are not lost in this new place.

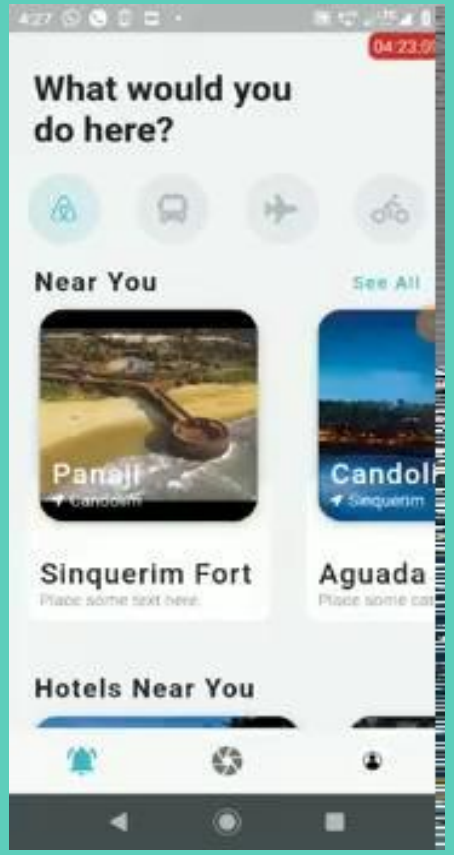


Monument Info Page

The Monument Info Page provides all the information one needs to have a complete experience of traveling. It includes ticketing details, special activities and attractions, best season(time) to visit, and little tips that can make your visits hassle free and more enjoyable.



Nearby Places of Interest



When you are visiting a monument, it's never just the monument. Hotels, eateries, shopping areas, and local events are a very essential part to the experience.

We have curated a list of such fun activities and their specialities so the user does not miss out on anything.

Travel Booking

One of the main activities of a tourist is to travel. To help facilitate this, our app contains ways to book multiple modes of travel. Book a cab and travel on the road, take a rickshaw or a bus for a more local experience and when it's time to go home, book a flight!

Questions?