Social Network Platform for Travellers

Overview:

The project involved developing a social networking platform to explore places in a city so that travellers can share their experience, reviews and ratings with others. The platform helps to build a community for travelers to explore exciting tourist places, attractions, hotels, restaurants and connect with other like-minded travelers. The client aims to provide travel news media services, Ecommerce and other related information in the city. After analyzing the client's need, Mindfire developed a platform with an admin managed portal.

Client details:

Name: Confidential | **Industry:** Software | **Location:** Myanmar

Technologies:

LAMP, Laravel, AWS, REST, Elasticsearch, GIT, Queue, Google API, Facebook API, Twitter API, Firebase, React Native, FFmpeg

Project Description:

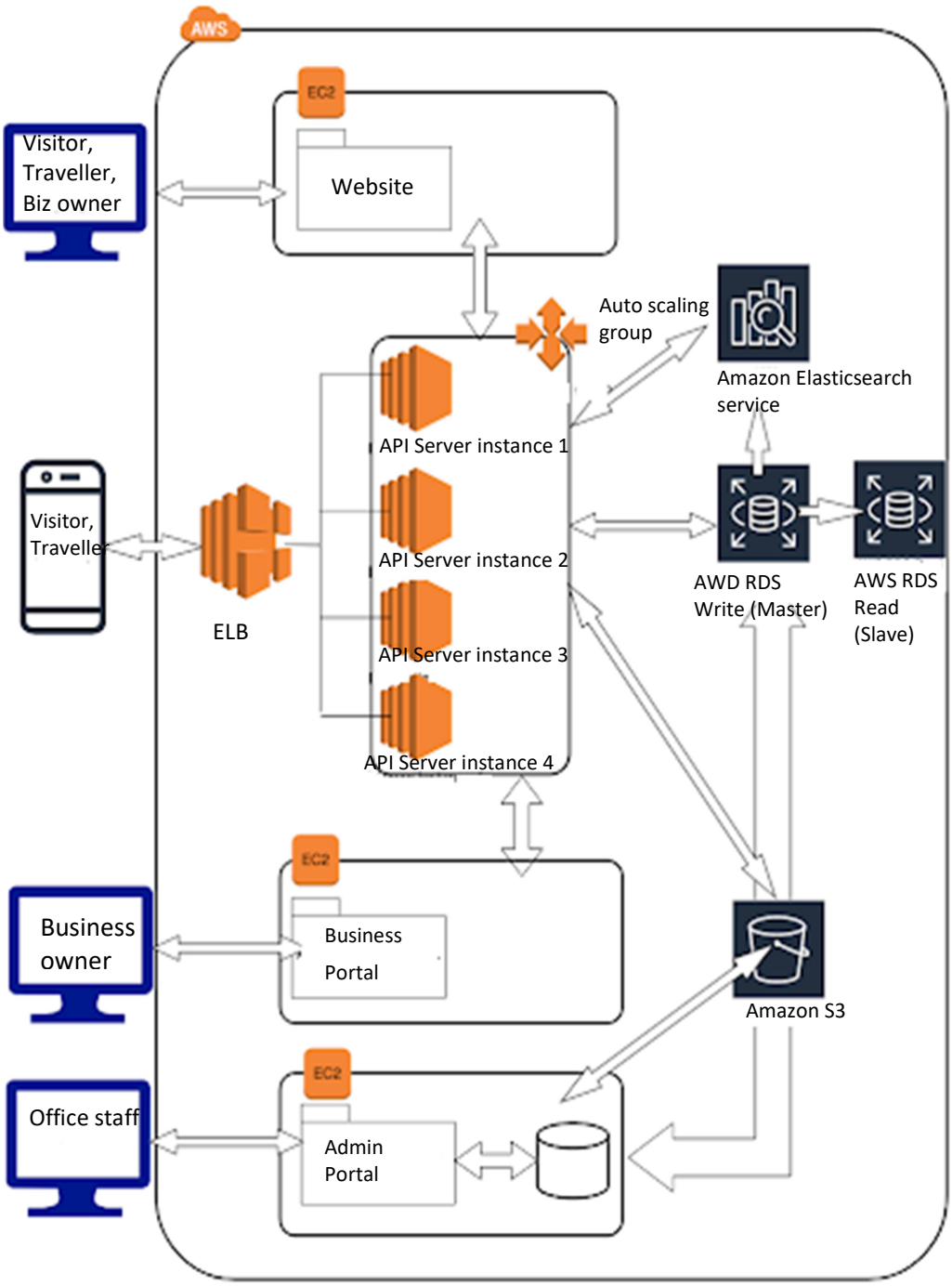
This application helped the client build a comprehensive unified platform with multiple functional modules i.e. the mobile application, web admin portal and backend. Some salient features of the application:

- Users can interact with each other via the mobile application. They can review and post comments, upload videos on the tourist areas and their experiences. React Native was chosen to develop both Android and iOS application due to its cross platform features. This helped to re-use 90% of the code base while developing the app.
- The user can authenticate via email and phone number. The home feed updates continuously which allow them to explore their surroundings. Search engine feature

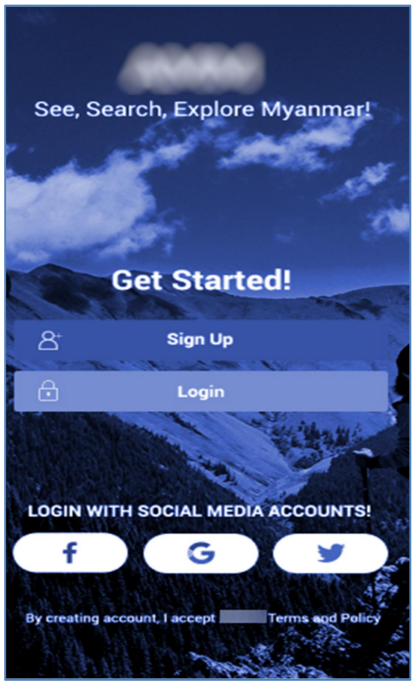
helps to view blogs, businesses or another user. They can also track another user with the help of geo location.

- AWS Elasticsearch is used as search and analytics engine. The user can perform free-text search, search as you type features etc.
- The platform has social networking features where users can create and share post, interact and comment on other users/posts.
- Push notification feature notifies the user of any new changes.
- The Web Admin Portal helps new businesses to register on the platform. The office staff can manage attractions, articles, hotels, restaurants etc. A business owner can also use the platform to create their own pages etc.
- The backend is built on the LAMP Stack with Laravel used as a PHP framework. AWS ec2 instance is used for hosting the PHP server and AWS RDS MySQL is used for data storage. The backend search engine is built on AWS Elasticsearch. Whenever the user creates any post/article the server sends a success response to the device. After that data is also sent to the Elasticsearch for searching purposes. Queue helps to send data from EC2 to Elastic server.
- A queue is used for faster API Response so that the application can do the heavy processing tasks like image/video processing, compression, data sync with AWS Elasticsearch in the background.
- Various types of security attacks like (SQL injection, XSS, phishing etc.) are handled properly. Rate limiting is also used on the API's request to prevent excessive requests.

Architecture:



Screenshots:

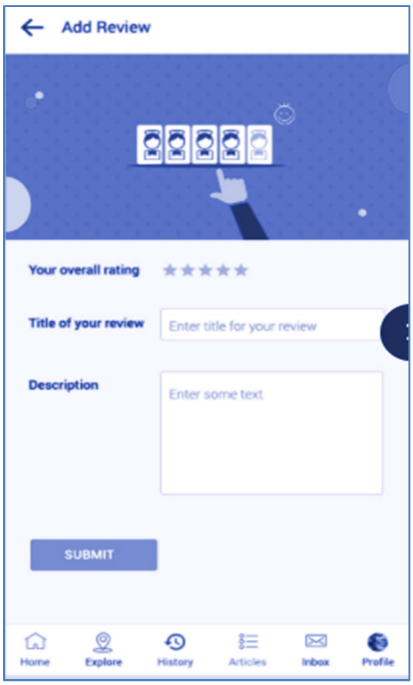


Screenshot 1: User signup/login

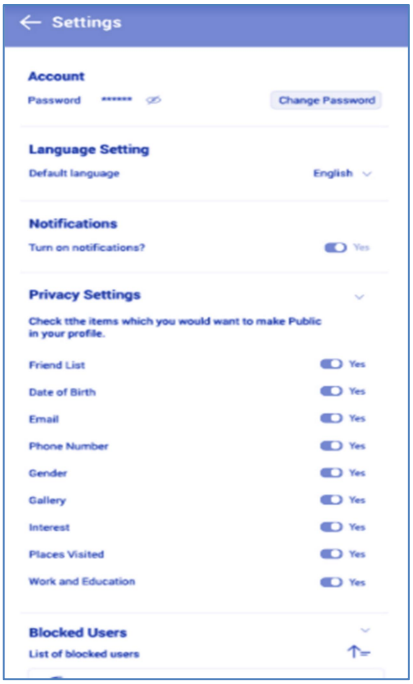
Screenshot 2: Other travellers nearby

Screenshot 3: Explore Destinations

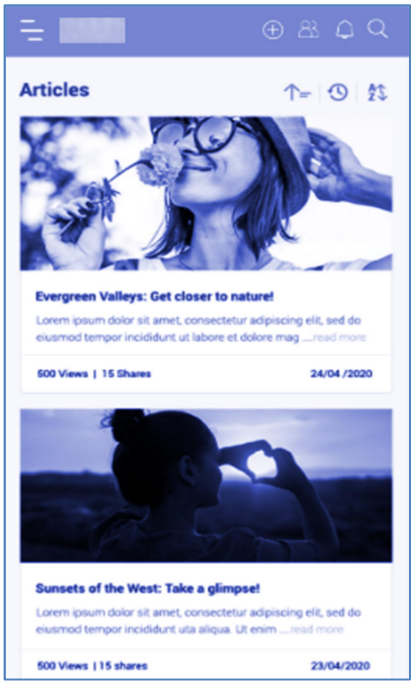
Screenshot 4: Explore People



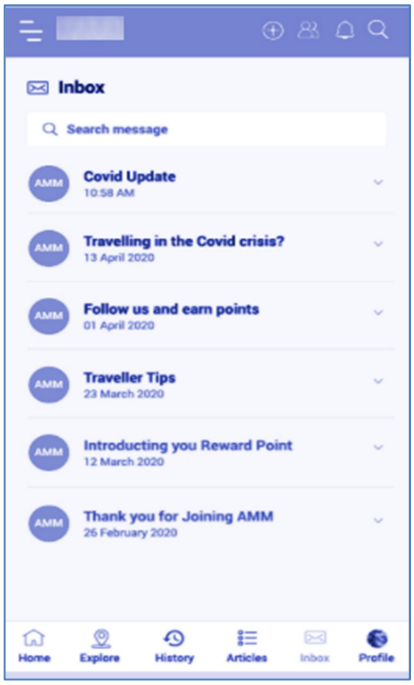
Screenshot 5: Add review



Screenshot 6: Settings



Screenshot 7: View articles



Screenshot 8: View messages