FLATWORLD CREATED A PLANT RECOGNITION MOBILE APP FOR A US-BASED ENTREPRENEUR

The Client

The client is a well-known and dynamic entrepreneur based in the United States and is deeply involved in the field of technology and is a nature enthusiast.

The Requirement

The client was looking for a reliable mobile app development partner who could develop a mobile application which would recognize the plant by just uploading the image of the flower, leaves, or the fruit. They were looking for a user-friendly solution which would help the users to easily recognize the plant within a quick time.

The Challenges

Our mobile app development team had to face a few challenges while implementing the project for our client. Some of them were -

+ The existing solution made use of crowdsourcing which would take a long time when some other user would guess the name of the plant on the social platform. Our solution needed to recognize the plant instantly by using image recognition
+ There are more than 300,000 species of plants in the world, which meant we had to collate over 90 million plant images into our database

Our Solution

After carefully analyzing the requirements of the client and various challenges involved, our experienced team of mobile app developers devised the following plan -

+ We first created the database of tens of thousands of plants images along with details of each of the plant species
+ Our mobile app developers created a mobile app which would recognize the plant instantly by searching in the plant database and through different learning algorithms
+ The app is designed to work even with low resolution and dark images as long as the subject of the image is in the center of the frame and has the right exposure
+ In cases where the app is unable to identify the plant, it provides the user with different options to choose the best match
+ We used SQLite and MySQL for the database, PHP and Smarty 2.0 for the framework, and the Facebook SDK for social integration

The Result

The client was extremely delighted to see the app identifying plants from across the globe with over 92% accuracy. This app has made it very simple for users, especially nature enthusiasts, to identify plants from different parts of the world.

Outsource Mobile App Development Services to Us

Flatworld Solutions has been a leading provider of mobile app development services and a plethora of other software development services. Our team comprises of some of the most talented and experienced mobile app developers who are capable of developing apps for different platforms including Android, iOS, Hybrid, Xamarin, etc. We also have a data science team onboard who can help us make the mobile apps more intelligent by incorporating artificial intelligence and machine learning algorithms.

If you are looking for a reliable, cost-effective, efficient, and high-quality mobile app development provider, then look no further. Get in touch with us today!