



Industry: Healthcare

Deliverables: iOS Mobile App

Technology: iOS, IoT

Country: Japan

Project Goal:

The following were the main project goals:

- To build an intuitive mobile app for maintaining the health of elderly people and prevent accidents while driving.
- To track the heart rate of the users while driving in Japan.
- To build a first of its kind mobile app with Smart Band integration.
- IoT integrated Mobile App Solution to quickly help the users monitor their heart rate.

Challenges:

Accidents often happened because of the increased pulses, anxiety or heart problems of elderly people while driving in Japan. In order to prevent accidents, the car manufacturing company wanted to observe the heart rate of the users while driving. There was no proper medium to do so. Other apps in the market required scanning fingerprints on the phone for monitoring heart rate. The client wanted a simple yet quick solution where users could automatically monitor their heart rate and get alerts while driving.

“Leveraged an Industry 4.0 and IoT Integrated Mobile App Solution along with Intelligent Application & Service Management (IASM) to the largest car manufacturing company in Japan. The solution enabled the users especially elderly people to monitor their heart rate and receive VOIP & Push Notifications while driving cars.”



Features

- 40 Seconds Critical Heart Rate Alerts
- IoT for User Presence
- Wearable Device Integration
- VOIP Notification (when critical condition lasts for a certain period of time)
- Push Notifications
- Color-Based Indications
- Graphs & Charts of Heart Rate vs Time
- Daily/Weekly/Monthly History
- Termination Mode
- Profile Management

Solution

Japan's car manufacturing company approached KCS for driving intuitive Mobile App Solution & Intelligent Application and Service Management Solution. Our team of professionals did deep insightful research before developing the solution. Our experts truly understood client's demand and rendered them with the following solution.

Personal Information: This is for the first time user where the app requires some common personal information of the user like first name, last name, blood group, and date of birth.

Dashboard: The dashboard consist of the prerequisite conditions that are to be fulfilled by the users so the app could function further. If anyone of the element is not connected, the app won't function to the next stage.

IoT Connection: The users can scan the barcode along with entering their unique codes in order to connect IoT with this application.

Monitor Heart Rate: The app quickly monitors the heart rate when all the connections are integrated and the user starts driving.

Alerts and Push Notifications: The app sends voice notifications and alerts while monitoring the heart rate of the users.

1. When the heart rate of the user is high or low for more than 40 seconds, the apps send voice alerts and notifications turning the entire mobile screen to a particular color to show the status of the user.
2. When the mobile screen turns to particular predefined color (that marks exceeding or falling heart rate of the user) for a certain period of time, the app sends alerts to the user to take quick actions. The users can quickly call to their close one whose numbers are already fed in the app through CMS or they can choose to stay as they are without taking any action.
3. When the heart rate is moderate or normal, the app sends voice alerts and notifications turning the entire mobile screen to another predefined color showing the stable status of the user.

Graphs and Reports: Different types of bar graphs, charts, and reports are displayed on the app so the user can easily view their average heart rate report.

History: The app shows the entire history of the user's heart rate while driving. It can be viewed on daily, weekly or monthly basis.

The application also supports **Termination Mode** making it extremely easy for the users to measure their heart rate during the drive.

Result:

At KCS, our professionals deliberately work to fulfill the requirements of the client and give them that extra piece of excellence they are searching for. Our team extensively developed a world-class mobile app solution for one of the largest car manufacturing company in Japan. The main aim of the client was to maintain the health of users especially elderly people while driving. Our stellar IoT Mobile App solution not only helped the users to automatically monitor their heart rate but also prevent accidents. It enabled the users to take quick actions when necessary.

We meticulously implement IT strategies and to enhance efficiency and make enterprises more productive. Our team of experts render extensive and customizable solutions with the ease of simplicity and speed. The solution helped the client innovatively use technology while contributing to the healthcare industry.



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