MUSEUM APP

We want to give the visitors of the museum a diverse experience by using technologies like Augmented Reality, Virtual Reality, Indoor Mapping and break the language barrier by providing the tour in different languages.

To achieve this we will be using beacons which are low energy Bluetooth devices. Beacons are cheap transmitters and a single battery lasts for years. With the help of beacons we will be able to provide visitors a hassle free experience at their own pace and their own choice.

Features of the app:-

1. To avoid long queues visitors will be directed to the online payment portal on their phones with the help of beacons.
2. They can choose the language they want the tour to be provided in.
3. Whenever they come near to a display they will automatically be provided with relevant information, images, audio clippings and videos on their phones.
4. The audio and text information will be provided in different languages so as to make it relevant for all the visitors.
5. Using beacons we provide Indoor Mapping so the visitor can look around in their phone to locate themselves and different sections of the museum.
6. With the help of Virtual Reality we can provide people an experience of the museum at their homes.
7. With the help of Google Maps we can provide visitors some fun activities near the museum to make it an everlasting experience for them.

Beacons are low energy Bluetooth devices which consistently sends signals and whenever a mobile device receives a signal it responds to it based on signal strength and the message transmitted by the beacon. Based on this technology we can display various information on mobile devices whenever the device is at a certain distance from the beacon.

With the help of three or more beacons we can locate the exact position of an individual and make indoor maps.

Using Unity we can design different character models for different players and can make them interactive for fun activities. Unity can also be used for adding hairstyles filters for different players of the team. With the help of image recognition we can detect a person's face and add the chosen hairstyle.

With help of Virtual View we can show 360 images of the museum to fans at their which will tempt them to experience it in person.

With the help of Google Maps API, we can integrate Google Maps in our app to show near places to visit like clubs, bars, restraunts, parks etc.

TECHNOLOGY STACK USED-

Device Used - Beacons

3D Modelling/VR - Unity

Frontend – Android

Backend – NodeJS

Database - MongoDB