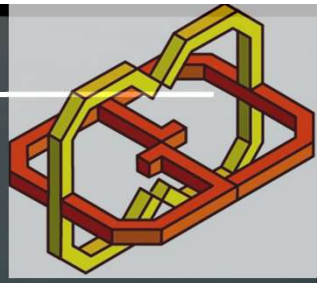
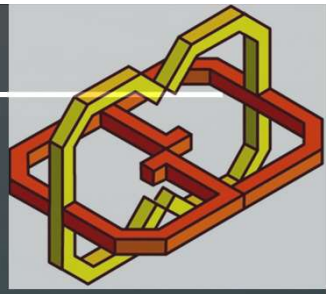


Find Closest Defibrillator

Sameer Hamada

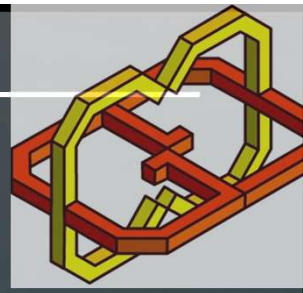
Shadi Abu Saleh



Introduction

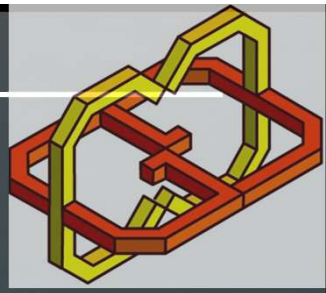
Using AR, We introduce a mobile App to navigate to the closest Defibrator in the Technion Campus

- By Starting The App, The app will calculate the closest Defibrillator depending on the user current location.
- The App provide 2D and 3D graphical and vocal instructions to the user until he reaches the Defibrillator.



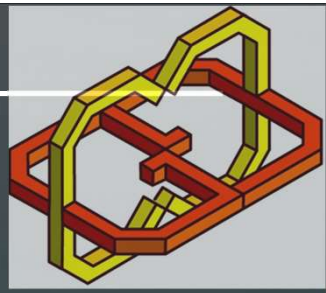
Challenges

- How can we figure out our current location ?
- How do we find and calculate the closest path to the Defibrillator ?



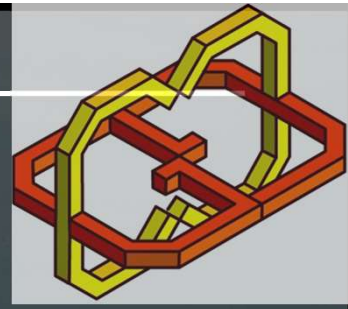
Challenges

- Solution : We use CoreLocation in order to determine our location
- Having our location in hand, we use MapKit (which is build above Apple Maps) in order to calculate the closest Defibrillator and get the path to it



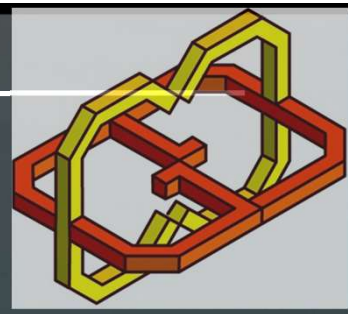
Challenges

- How can we synchronize the current user`s location and the navigation instructions ?



Challenges

- Solution: by using MapKit Api, we build multiple regions. Each region resemble a certain change in the direction.
- Upon reaching each of these region we update the UI of the app with the updated direction.
- And broadcast the appropriate vocal instruction.



Challenges

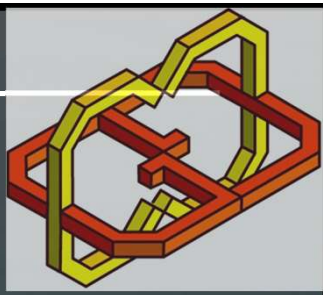
- How Do we Know That we reached the desired Defibrillator?

Challenges

- Solution : Using Object Detection Through Reality composer we train our App to detect each Defibrillator And point to it in the user Camera.

Future Ideas

- Add The ability for authorized users to add defibrillators Location For the Technion and Other Locations.
- Adding the ability to update the user`s path upon taking a wrong way.
- Add a feature in which users can contact Emergency Services.
- Expand the current App to include other services for the Technion community (Libraries, Restaurants, etc....).
- Indoor Navigation.



Thank You

- Questions ?

Project Web Site:

https://hsameer051.wixsite.com/definion