

NAVAR

Team Odyssean Cartographers



Problem Statement

Lost in your campus or struggling to find your way to the right classroom? NAVAR is here for you! Our app is designed to solve the problems that students face in navigating large campuses like SRM, providing real-time guidance and helping you find your way around the buildings. With NAVAR, you'll never be lost on campus again.

Features



Step by Step
Navigation



Indoor Navigation



Outdoor Navigation



Real-Time
Experience



User-Friendly
Interface



Personalization

How NAVAR Works ?

AR Navigation

Once you're on track, the app switches to AR mode, and you can point your camera at the chosen spots where you should move next.

1

Input the Building Name

Start by entering the name of the building you're looking for in the app. NAVAR searches the buildings and presents a map with the location and navigation directions.



2

More Features

You can also use NAVAR's search function to find locations inside buildings and rooms, and the app shows you the path(s) to the room or service

Process Model :

1 Planning

Structural, Technical Planning and environment identification

2 Location Positioning

Mapbox Route using Geocoding is set with accurate coordinates and altitudes using Google Earth KML files

3 Model Construction

Used Unity Platform for the integration of KML files and Android UI implementations

4 .apk Construction

Build Settings were modified according to user requirements for Android users and apk was exported

5 Review & Testing

Exported .apk was tested and reviewed for multiple iterations.

Indoor Navigation Stats :

According to Vantage Market Research's report, the Indoor Positioning & Navigation System Market is expected to reach USD 35.65 Billion by 2028, growing at a CAGR of 39.45% from 2021 to 2028. This rapid growth shows the increasing need for indoor navigation solutions in various industries, including education and





Unity



Mapbox API



KML



XML

Keyhole Markup
Language

Extensible Markup
Language



UI/UX



Altitude
Finder



Longitude-
Latitude
Finder



Augmented
Reality

Meet the team :



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