

Ministry / Organization Name	Dte of IT & Cyber Security, DRDO
Problem Statement	Indoor Navigation
Team Name	Pied_Pipers
Team Leader Name	Pragati Gaikwad
College Code	1-3508248462

## Literature Survey

- Infrastructure Dependent  
Necessity
- Cost Dependent  
Necessity
- User Dependent  
Necessity

## Solution Details

### Map Input Methodologies

- Only Admins Can  
Provide Full Path
- Individual Path Entry

### Path Finding Methodologies

- Photo Mapping and  
Q&A
- Augmented Reality

# Idea / Approach Details

## Solution

- A progressive web app which assists the user to the destination.
- Our System will **accept destination** from the user.
- It will **interact** with the user assisting him/her towards the destination.
  - **User** has to **answer the question** by selecting yes or no so the system can understand where he/she has reached.
  - **User** has to **follow the directions** given by the system.
- Our **strategy** is to '**Keep It Simple**', go for the **cost effective** solution - before development after development.

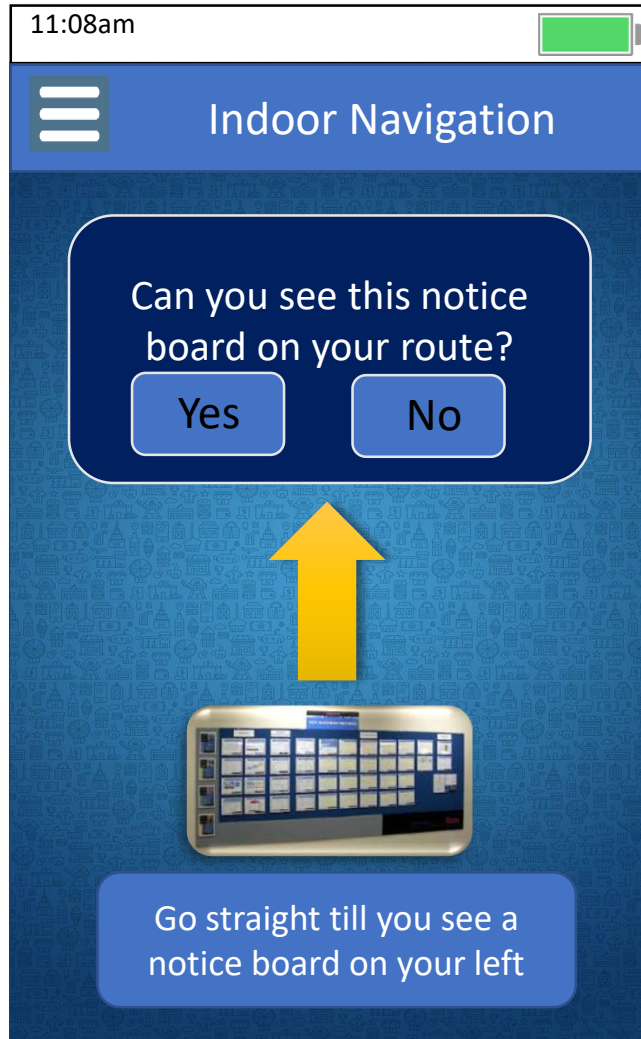
## Technology Stack

- **Front End** : HTML, CSS, Javascript, JQuery, Ajax, Progressive Web App
- **AR Libraries** : Ar.js, Argon.js, GeoAR.js
- **Backend** : PHP
- **Database** : MongoDB

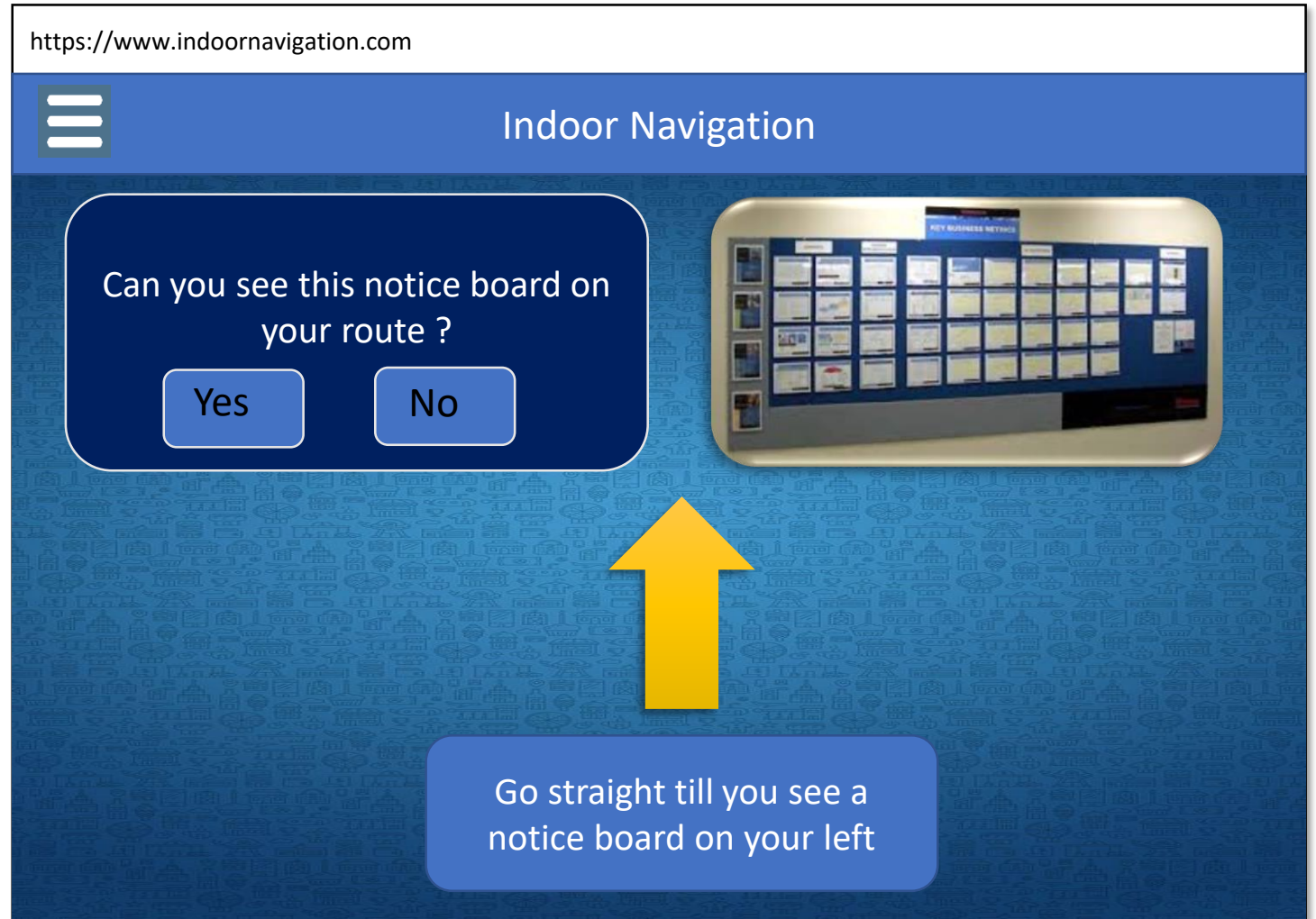


# Prototype

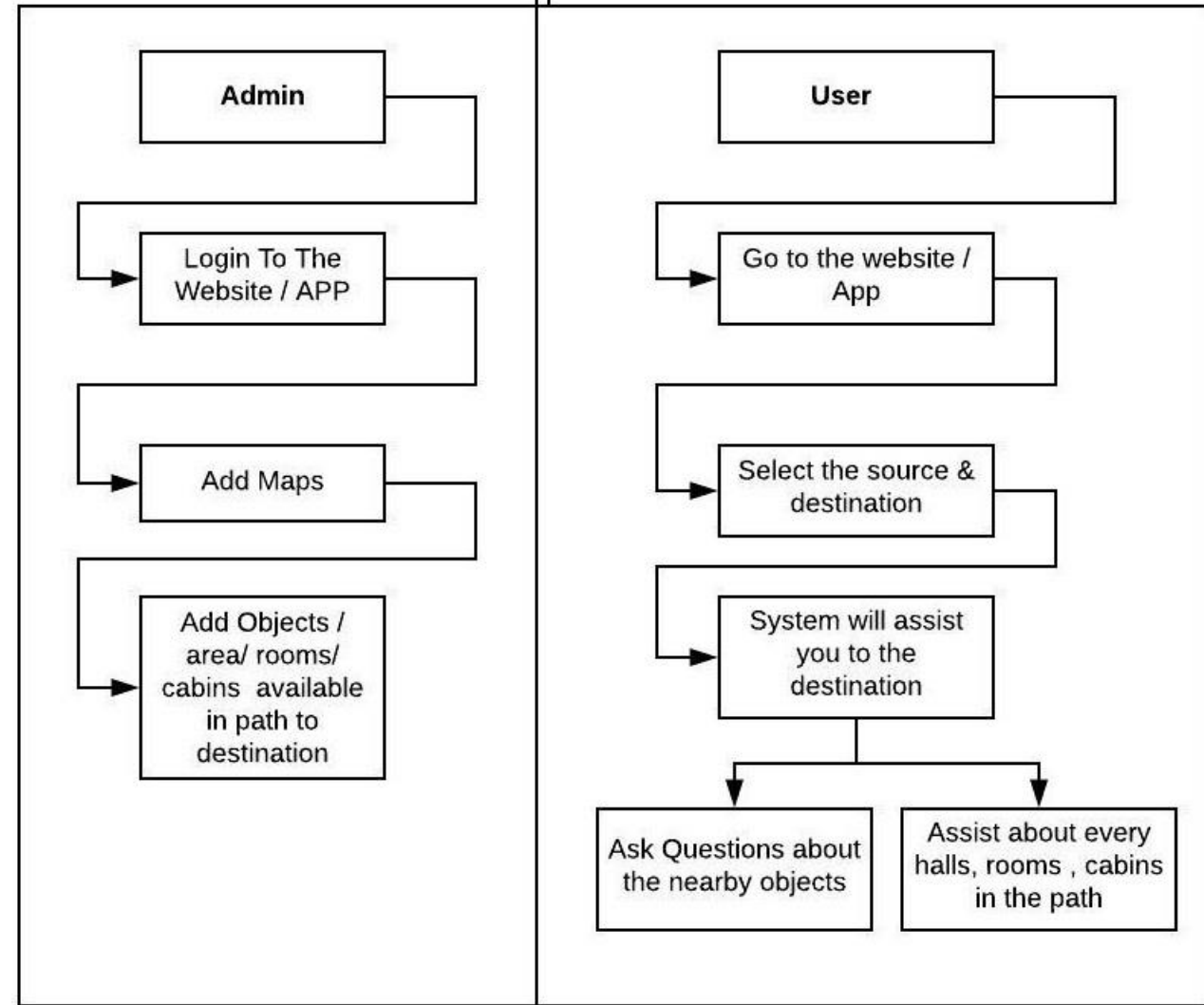
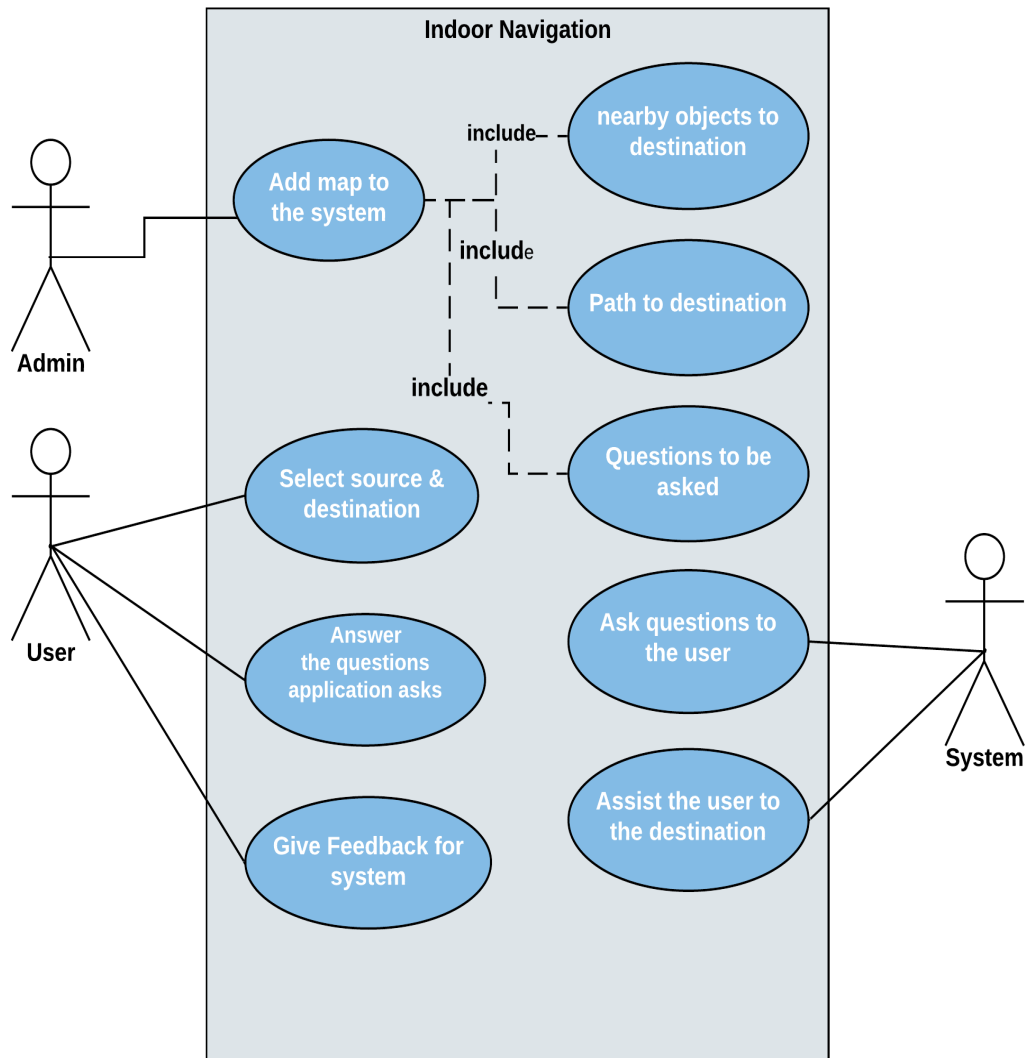
Android View



Web View



# Use Case Diagram System Flow Chart



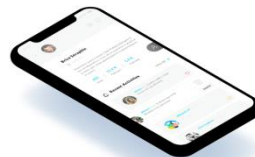
## Additional Features

- Text To Speech
- Native Language Support
- Assist user with the help of no of steps he/she walks.



## Dependency

- Internet Connectivity
- Smart Phone



## Showstopper

- Improper Infrastructural Details (Maps)
- Wrong Input By User