Requirement Specification Analysis

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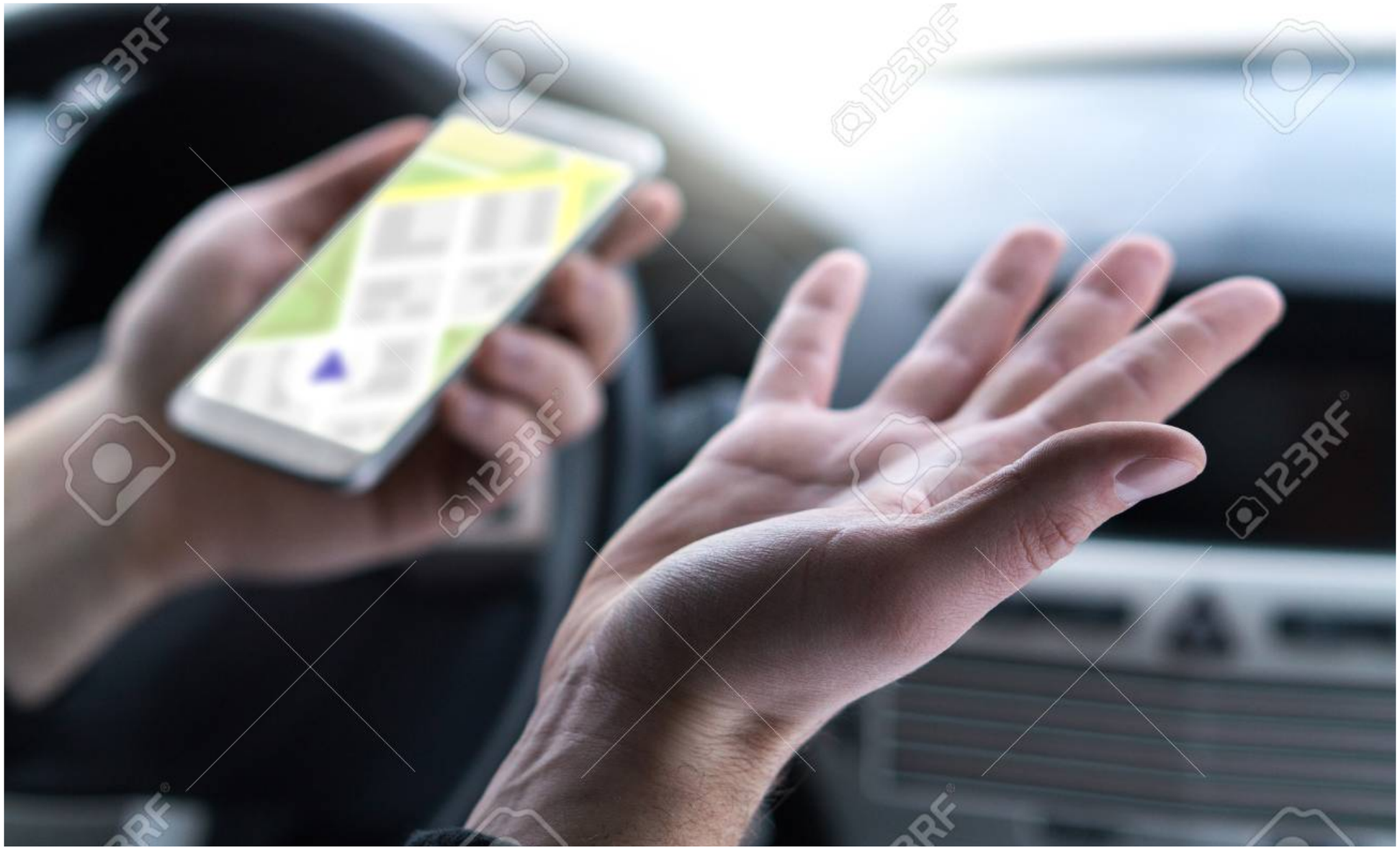
The Problem

- Time is precious. People look to reach places faster.
- Google maps or any other maps do not provide indoor navigation.
- To find a location within indoors is difficult task.
- Due to this time is consumed, which in turn will cost a lot in time constraint period.

Every time Scenario



Of Getting Lost

The Proposed Solution

- We propose a System using Augmented Reality for efficient tracking.

- This system will use phone’s camera for location tracking and understanding the current location.

- It will overlay a path on the mobile screen to the desired destination.

Functional Specification

Persona

- Gayatri uses the ARMaps. She wants to navigate from Library to principal’s office. She will open the application, for current location System will automatically detect it or she can enter her current location in textual format. She will enter the destination address and the system will provide a path overlaid in the live camera feed accordingly.

Details of Scenarios

Errors/Mistakes and Messages

- Gayatri does not hold the phone properly, the system will not be able to find the desired features and location will not be provided for which she will be notified to tilt the phone properly.

- A message will be displayed whether she wants to enter text format current location or camera feed based current location.

Non-Functional Requirements

- Initially, Mobile’s Camera will capture the Live Feed.

- System will detect your current location Using Google’s MapsIndoors API.

- System will ask for destination address, check it with the database and if location is found in the database the System will return a valid path to the user accordingly on the live Feed.

- And then the system will check if the user has arrived at the correct location based on the live feed which is compared with the Database.

Technical Specification

- Hardware Details:- Iphone 6s or further model which supports ARKIT.
- SDKs:- Unity3d and MapsIndoors SDK.
- OS:- IOS
- Languages:- Objective-C, Python, NoSQL