StacksOnStacks User Manual

Purpose

The purpose of this document is to help a user with being able to use the main functionality of the application without any ambiguity.

Product overview

The ArivlApp is an Android application which provides a means of seamless access to registered users for boom gate(s) connected to an ArivlBox. The system is aimed to be installed for residential estates and office blocks at this point. The aim of the product is to minimize interaction between the user and access control system, in order to provide a more efficient access to boom gate with no security breaches.

System Configuration

The application can only be used on Android phones with a minimum Android APK of 18 with phones that support BLE(Bluetooth Low-Energy).

Installation

The application can only be installed on an Android phone if it fulfils the system configuration. Sequentially, the application will be available on GitHub for the user to download. Once the application is downloaded, the user needs to grant the application necessary permissions to run.

Getting Started

At this point in time, there are only two types of users to the system and an administrator, who manages the updating, addition, removal of users in the database. The administrator will be allowed to make changes in the database in the dashboard. The main user of the system is the resident of the residential estate or the employee of an office, who will have access to authorized boom gates.

Using the system

The main purpose of the system is for a resident user is for the ArivlApp to open the gate when the user is in proximity of the ArivlBox, which is attached to the boom gate, and if the user is authorized to access a specific boom gate. The process of how the system works is as follows:

1: New user register with the admin so that they could be added to the database.

2: For registered users, user enters user details to log in once only.

3: As the user comes in proximity of the authorized ArivlBox, which is attached to the boom gate.

4: User should then open the ArivlApp and the gate opens automatically and disconnects from the ArivlBox allowing other users in the queue to connect.

Troubleshooting

In case of a situation, where the ArivlApp is unable to give access to an authorized user, there could be one of the two potential problems: either the Bluetooth is disabled on the ArivlApp or the user with the ArivlApp is not in proximity of the ArivlBox.