**Foundation for Advancement of Education and Research**

G5, Swiss Complex, 33, Race Course Road, Bangalore- 560001

E-mail: office@faer.ac.in, Website: www.faer.ac.in FAER - McAfee SCHOLAR PROGRAMME: 2021-2022

**Proposal**

1. **Name of the Students:** Venkatesh Kelam.

**Degree registered:** B.Tech

**Branch:** IT

**Year:** III Year

**Address (residential):**

**E-mail address:**

**Phone / Cell no:**

**Address of the College:** Meenakshi Sundararajan Engineering College, 363, Arcot road, Kodambakkam, Chennai-600024

**Web site of the college:** www.msec.edu.in

**Phone No:** 044-24801636 / 24721977

**Name of the Supervisor / Project Guide with E-mail address and mobile Number:**

1. **Whether the students belong to SC/ST:** No
2. **Title of the Project:** Vehicle Authorization System

**Area:** Small communities, Schools, Colleges, etc.

**Relevance to the area of the contest (Explain):** Creation of mobile and web application.

**Type of Project: Application**

**Objective of your project:** To prevent unauthorized vehicles inside the desired perimeter.

**Brief description:** A QR code will be generated (using a web application) and sent to every authorized vehicle and using a scanner mobile application, the code will be verified and authorized vehicles will be accepted.

**Implementation Plan from: February 2022 to May 30, 2022**

**Existing Approaches:** Our particular approach using QR code for Vehicle Authorization System has not been implemented yet, although some of the shopping malls use bar code for parking ticket for charging the customers.

**What is new in the project:** The method of using “QR code” for Vehicle Authorization.

**How is this proposal** **different from existing approaches based on**:

**• Originally:** Both Generation and Scanning of the QR code have been built by our team.

**• Performance:** The result of the verification process is graphically represented which makes it user friendly.

**• Costs/ benefits:** Apart from database and printing of QR sticker, there is no cost involved in / which makes this cost efficient than the other security systems for vehicle authorization.

**References (literature):**

**Approach to solving the problem:**

♣ **Modelling:** The product will be reviewed by the development team and the necessary changes will be implemented by the development team.

♣ **Construction / experiments / programming:** Our team will identify and debug the code.

**♣ Testing:** Development team cross checks the program.

♣ **Results:** Validate the required user specification.

♣ **System integration issues:** Updates will be released according to the issues.

**Support infrastructure Required:** Yes.

**Likely problems that may be encountered:** There may be delay in the user interface.

**Reasons why this proposal should be considered for selection:** It is cost efficient than other authorization system.

**Budget estimates:** 2000 INR (per month) for Database maintenance.

1. **Declaration**

We will take up this project if selected, for FAER Scholar Project only and will not submit this to any other contest.

Signature of Students

Signature of Project Advisor / Project Guide

Date: Signature of Principal

(On institutional letterhead)

**DECLARATION / UNDERTAKING**

This is to certify that Mr. / Ms. ................................................ ……………….................. is a bonafide student of .................... year in the degree program of our college. If the proposal is selected by FAER, we will provide the requisite laboratory/computer support in our college.

Date: Signature of Principal Seal of the institution