MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : **Framework for Development of Villboard :Web Application.**
2. Name of the Guide : Vasudevan T
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
SAFEELA NASRIN CK	MESMCA-2041	

Date:

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

Introduction:

A village is a community with one administration that manages the whole town with the help of the homeowners. However, when the population of the community becomes bigger and bigger, it becomes non-manageable. Besides, during the pandemic, all the transactions are online, and homeowners use the internet for updates, news, and announcements inside the village. Also, physical contact would be problematic when they have an appointment, transactions, or report from the admin. The Web Management System framework for a Subdivision is proposed to resolve the village's problem. In line with our objective of the proposed project is to develop a web system application that homeowner can use either their phone or PC/Laptop. Those homeowners can manage their guests and family members, add them to their profile and update what's happening inside the village. In addition to that, homeowners can upload their payment transaction receipt online for the maintenance of the village and help the homeowners report to the admin what is currently happening towards their area like noise, trash, safety, complaints. They can register their vehicle using the application for any emergency that can occur. Villboard will also create a specific account for the security guard to monitor the village's people going in and out. Homeowners would be able to contact the guard/admin about the application. In backend, we have used the SQLite database and python/django to be connected on both platforms.

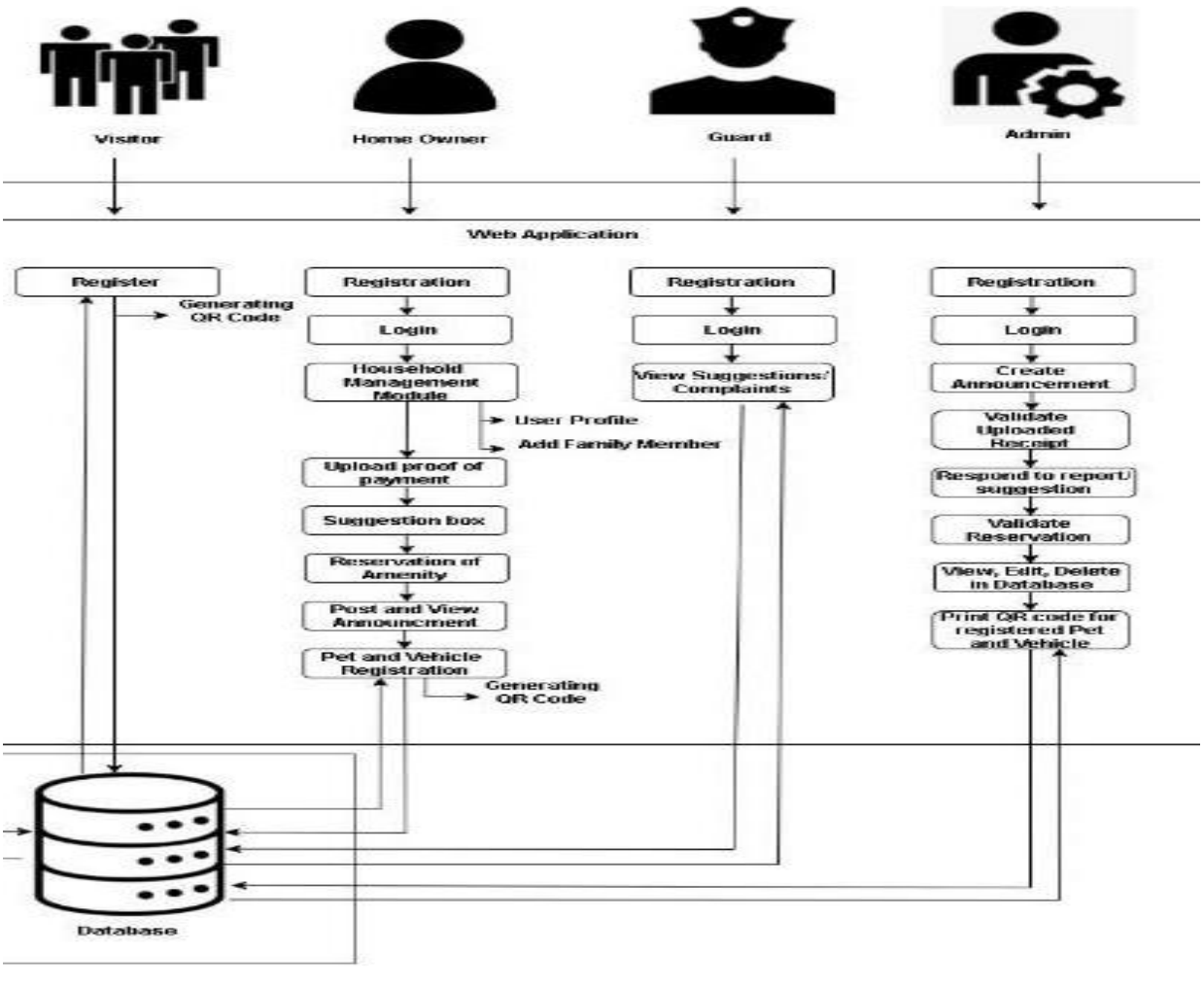
Objectives:

1. To create a module for web application that manage the household residential information of the village.
2. To create a module for web where the homeowners can upload any form of receipts as payment for monthly dues.
3. To create a module for web application that report complaints/incidents and send suggestions/comments from the homeowners; once an incident is reported, admin/security will respond to an incident.
4. To create a reservation module for web application of different amenities of the village such as swimming pool, basketball court, clubhouse, and other amenities.
5. To create an announcement module for web application to notify the homeowners about the village's news, events, and other activities.
6. To create a tracking module for web application that generate QR codes for visitors, collared animals, and cars.

Functionalities:

- Registration and login
- Generating QR Code
- Post And View Annoncement
- Complaints
- Payment and Upload Transaction
- Reservation of Amenities
- Registration of Pet
- Registration of Vehicle
- . Chat Admin

System Architecture:



Tools / Platform, Hardware and Software Requirements

HARDWARE SPECIFICATION

- Processor : i3 or above
- Hard Disk : 500 GB
- RAM : 4 GB

SOFTWARE SPECIFICATION

- Frontend : HTML,CSS,BOOSTRAP,JAVASCRIPT
- Backend : Python-Django
- DBMS : SQLite
- IDE : Visual Studio Code
- OS : Windows/Linux