

# KFUPM, COE 445

## Assignment 5

Deadline: Thursday 9/4/2020

### Assignment Objective

1. Add fast check-in/check-out feature to your VMS
2. Check-in and check-out notification feature
3. Learn how to use git

### Tasks

#### Task 0

In this task, you need to fork assignment5 repository from the following link

<https://github.com/mfelemban-COE/445-assignment5>

Create a folder titled with your name. Create a README file and append your name in the file. Then, you need to create a pull request to the above repository. For further details, please consult the following link

<https://education.github.com/guide/forks>

#### Task 1

Implement a fast check-in/check-out feature in your VMS application. In particular, when a new visit is created, a user is given a unique random number (e.g. 457642). The visitor should use this number in order to check himself in at the gate. You may need to modify your database schema (i.e. add more attributes to visits collection).

To check-in/check-out, you need to create a new page (**check.html**), which includes a form. Using the form, visitors will enter the random number to simulate a check-in/check-out. This form can be also used by a security officer to retrieve and verify the visitor information (e.g. visitor name, car make and model, plate number, etc.) upon check-in/check-out time.

When the security officer verifies the visitor information, the database entry (document) associated to the visit request will be updated to indicate that the visitor is "inside" or "outside" KFUPM, respectively. At the same time, the host will be notified when the visitor is checked-in or checked-out. The way of notification is up to you (e.g. email, SMS, etc.).

#### Task 2

This step is similar to Task 0. To complete this task, add and commit the source code including the features implemented in Task 1 to your local repository. You need to push the code to your github, and then create a pull request to assignment5 repository.

## Deliverables and Grading Criteria

You must submit a zipped folder including the Node.js project files implemented for this task. The grading criteria is as the following

- (2 points) Correctly clone, change, and create a pull request to the assignment repository
- (4 points) Implementation of fast check-in/check-out feature
- (3 points) Implementation of notification feature
- (1 points) Novelty and innovation