**Guest Book Registration API**

**ABOUT**

Guest book authentication API will be a REST service that will allow different applications both web and mobile to access guests details maintained in a central database. The application will register new non-existing guests with their provided details such as (Name, National ID number, telephone, email). This will include the guests time in and out and also their comments. Existing guests’ details will be populated upon input of an existing primary identifier which in this case will be National ID or Email.

**IMPLEMENTATION STRUCTURE**

To achieve this, we need to have the following API services that the web/mobile clients applications will connect to through REST:

* Login API – this will authenticate users to access the Guest Book Registration page using REST API and JSON Web Tokens (JWT). The login API will;
* Use OAuth framework where users can access their resources through any another application
* Be able to support browser-based apps or native mobile apps
* Will keep an authentication server that keeps track of JSON web tokens generated to
* Guest Registration API – Using credentials from the Login API, it will receive CRUD operations requests from the web/mobile app that will be used to register the guests.

**The Process**

* A user will request to use the web/mobile app in order to register guests.
* The web/mobile app will check if the user is authenticated to use the web/mobile app and send an authorization to the Login API if the user is not authenticated
* With the existing user details the API will check and return an authorization code in this case a JSON Web Token whose expiry can be specified. This token will be used to call the Registration API for the CRUD operations

1. **Registration API**

This will register;

* Properties
* Companies
* Floors
* Employees

Calls – Onboard register, get hosts

Unit tests

Lean documents

Scripts on git

Docker file

Daily status reports