**HW Assignment #1**Due Date:10/25/2020

In this assignment, you are asked to implement a REST server which will manage the following Claim entity in its SQLite3 database:

|  |  |  |
| --- | --- | --- |
| **Property Name** | **Description** | **Data Type** |
| id | Unique claim id, randomly generated UUID | UUID |
| title | Claim tile, brief description about the claim | String |
| date | The data (format “yyyy MM-dd”) when the claim happens | String |
| isSolved | This indicates if the claim is closed | boolean |

Like the server we implemented in the class, the server exposed two services for clients to call whose specification is defined in the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Service Name** | **HTTP Request** | | | **HTTP Response** | |
| **Method** | **Parameters** | | **Format** | **Data** |
| **Format** | **Data** |
| /ClaimService/add | POST | JSON | Claim object without id and isSolved (encoded string) | Plain Text | Same as the server we implemented |
| /ClaimService/getAll | GET | N/A | N/A | JSON | List of Claim objects (encoded string) |

Please note that id and isSolved of the input Claim object will be initialized by the server before inserting the Claim object into its database. You need to use Kotlin UUID class to generate a random UUID object and assign it to the id of the Claim object. On the other hand, the isSolved property should be initialized as false.

Since SQLite3 database does not support UUID type, you will use a Text column to store the string representation of UUID. Because of this, you need to do a type conversion between UUID and Text to insert/retrieve a Claim record into/from the database (pls refer to p. 225 of the textbook). For boolean property, you can store it as an SQLite3 integer.

You can follow the development steps that we use in the class for your implementation.

**Submission**

Turn in the code for this homework by uploading your project to a public repository on GitHub. While you may discuss this homework assignment with other students, you must complete the work on your own.

To complete your submission, upload the below information to Titanium:

**Your name**

**Repository** https://github.com/ /