#### APPLICATION INTERFACE

## Things required to set up an api

• **Postman**: It is an extension which is found on the browser. It is used to test your apicalls.

## How do you install Postman

Assuming, you are using chrome, go to apps... Locate web store and install postman.

• Slim: It is a rest api framework which is used for routing of api calls.

## How do you install Slim

Go to <a href="https://github.com/slimphp/Slim/releases">https://github.com/slimphp/Slim/releases</a> to download the zip file. You can visit <a href="http://www.slimframework.com/">http://www.slimframework.com/</a> to understand more.

# Don't panic I will work you through everything step by step

Lets take a simple project.. Build an api for users that own houses.. i.e. each user is attached to a house with its description.

Starting with the query aspect. A user has a name, password, username, sex, houses, house description, house colour, house location and many more about houses.

To avoid data redundancy, its better to have a user table and a house table. So how does a user claim a house in house table.

#### 1. Create a Database

#### Database Schema

```
CREATE DATABASE IF NOT EXISTS apitest;
USE apitest;
CREATE TABLE IF NOT EXISTS users(
 user id INT UNSIGNED AUTO INCREMENT NOT NULL,
 username VARCHAR (40) NOT NULL,
 password VARCHAR (100) NOT NULL,
 created at DATETIME NOT NULL,
 modified at DATETIME NOT NULL,
 active status BOOLEAN DEFAULT 1,
 PRIMARY KEY (user id)
);
CREATE TABLE IF NOT EXISTS houses(
 house id INT UNSIGNED AUTO INCREMENT NOT NULL,
 user id INT UNSIGNED NOT NULL,
 house name VARCHAR (40) NOT NULL,
 house location VARCHAR (40) NOT NULL,
 house color VARCHAR (40) NOT NULL,
 created at DATETIME NOT NULL,
 modified at DATETIME NOT NULL,
 active status BOOLEAN DEFAULT 1,
 PRIMARY KEY (house id),
 CONSTRAINT fk houses user id FOREIGN KEY (user id) REFERENCES users (user id)
);
```

### apitest Entity Relation Diagram generated by DbSchema

This can be found in the project..

You can check the project and go through the code ... It is explanatory. At this stage, the slim framework has been downloaded. (vendor directory contains slim stuff).

On the index.php file.. It is where we would be routing our functions with required url.

E.g for the test function .. \$app ->get("/name/:name", "test"); is made.

**get** is a method, /name/:name is the api call and the test is the function. :name means a name should be included while testing. e.g <a href="http://localhost/apitest/name/mesh">http://localhost/apitest/name/mesh</a>

#### Methods:

- GET: to request details on a particular resource/set of resources.
- POST: to supply details on a particular resource/set of resources.
- PUT: to update a particular attribute of a specific resource.
- DELETE: to permanently remove a specific resource.

the index page is the real deal.

Work through the code, play with it and feel free to ask questions....

You can manipulate the project to your own taste i.e. use it as your own work ...

#### Note:

To test your functions using POST