Server Side Documentation

# 1. About

## 1.1 About document

This document is intend to help developer set up and running NU E-Commerce server side project. With this help, we provide developer with needed tools and link for download. Please step by step guide and

## 1.2 About project

NU E-Commerce is a smartphone e-commerce app that build to serve the user with faster buy and sell process in the online platform for selling and buying goods. We aim to make the user painless in finding their item and get notify once it’s available on market, as well as to help the seller find the right owner of their items. We aim to make the app as simple as possible by starting with a straight forward login process which utilize facebook’s AccountKit passwordless authentication library, which the user require no password or accountname to remember in order to login the app, what they need is just their phone number to login and start using the app. Further more, we made the UI simple to use, and easy to understand.

NU E-Commerce server side project serve as an API endpoint to serve the data to the front end mobile app. The project involve business logic and control of the data that expose to the user.

## 1.3 About technology

NU E-Commerce server side project using below technology to build:

* PHP 7 (Language for the programming)
* Laravel Framework for the architecture
* MySQL database for the database server
* Laravel Voyager for back office dashboard
* AccountKit as authentication system
* OneSignal as notification system

# 2. Set up and Installation

## 2.1 Github repository

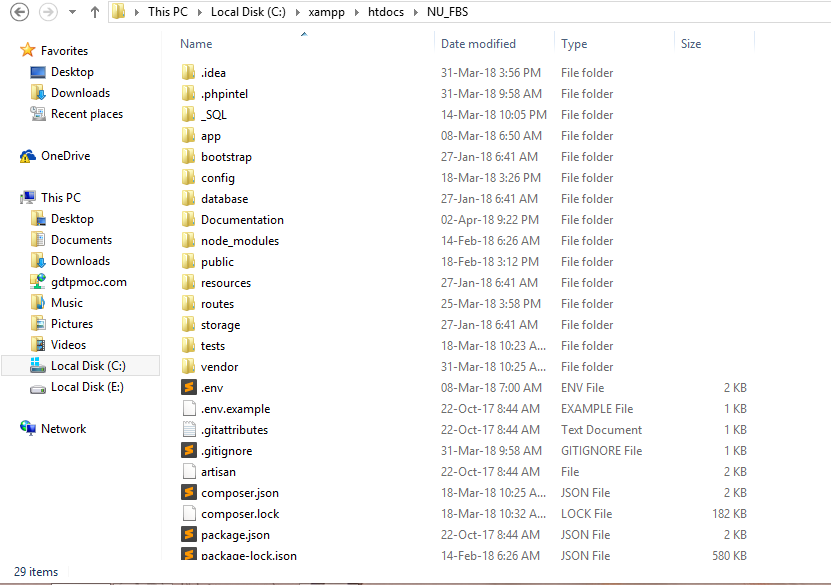
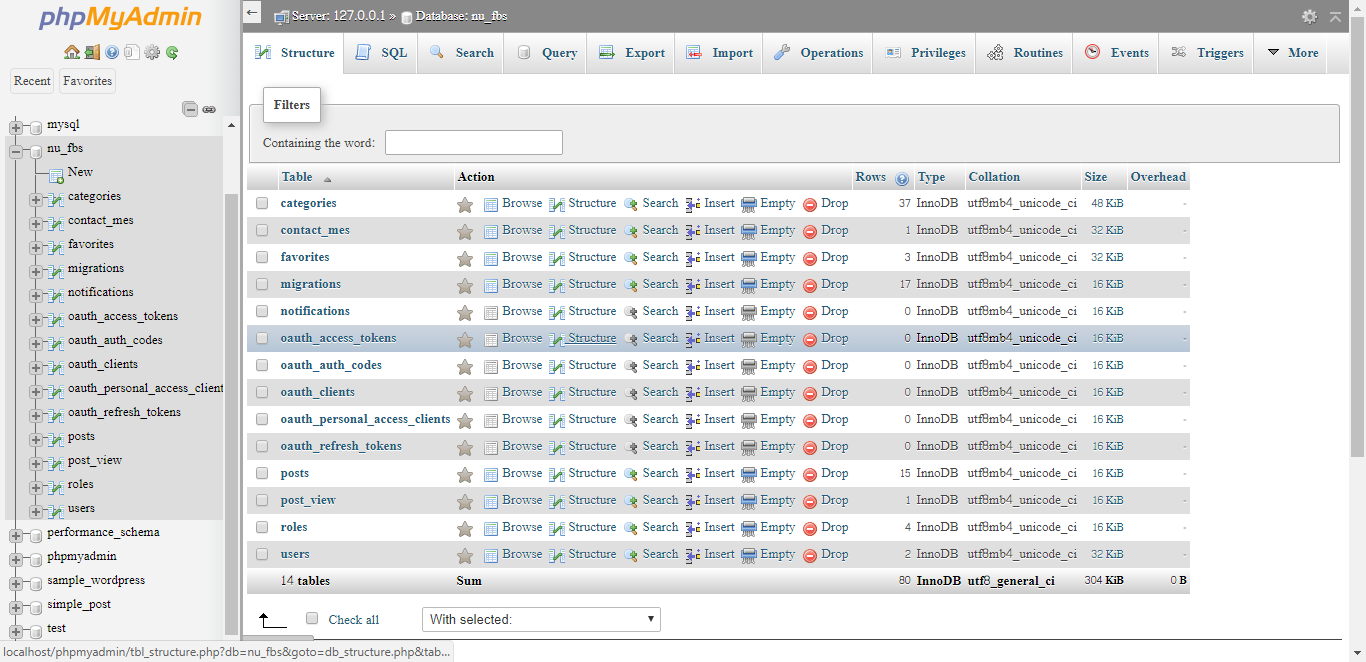
Whole project can be pulled from github repository at <https://github.com/HenryHeng91/NU-Fast-Buy-and-Sell-APP>

## 2.2 System Requirement

Below requirements are needed for a server to run the project:

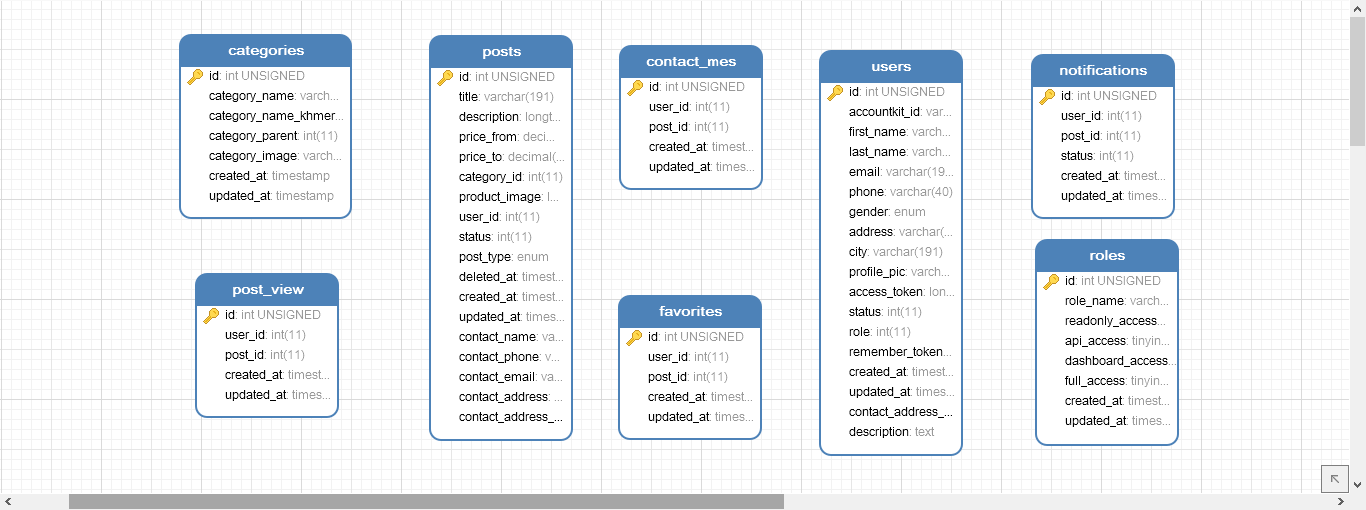
* Apache web server (Linux hosted, or server like XAMP, WAMP)
* MySQL database server
* PHP >= 7.1.3
* Min RAM 1GB
* Min CPU 1Ghz
* Hard disk space 300MB

## 2.3 Installation and Configuration

1. Download or pull from github repository <https://github.com/HenryHeng91/NU-Fast-Buy-and-Sell-APP> and extract them to public root of your web server. Here we use XAMP server as demo, so the public root path is **C:\xampp\htdocs:**
2. Download and install Composer:  
   - Download composer at <https://getcomposer.org/download/>  
   - Follow instruction and install composer
3. Download project packages:  
   - Open your project folder, example **C:\xampp\htdocs\NU\_FBS  
   -** Hold Shift key and Right-Click and choose “**Open command windows here**”  
   - In the terminal windows, type command **composer update** to download needed packages   
   - type command composer **dump**-autoload to rebuild the project
4. Generate application key:  
   - On your project folder, hold Shift key and Right-Click and choose “**Open command windows here**”  
   - type command **php artisan key:generate**
5. Set up your database:  
   - Run XAMP server and open phpMyAdmin  
   - Create a new database name **nu\_fbs**- Leave the database empty, we will come back to it later after configure the project
6. Configure project:  
   - Go to your project folder **C:\xampp\htdocs  
   -** Open file **.env** with your text editor
   1. Set your database connection as follow:  
       DB\_CONNECTION=mysql  
       DB\_HOST=127.0.0.1 (Your database host url if you host it)  
       DB\_PORT=3306  
       DB\_DATABASE=nu\_fbs  
       DB\_USERNAME=root (Your database username)  
       DB\_PASSWORD= (Your database password)
   2. Set up AccountKit as follow:  
       APP\_ID=156194398367372  
       APP\_SECRET=7c8b4db6c53cd66458b260a62f228b73  
       TOKEN\_EXCHANGE=https://graph.accountkit.com/v1.0/access\_token?  
       END\_POINT=https://graph.accountkit.com/v1.0/me?access\_token=  
       APP\_LOGOUT=https://graph.accountkit.com/v1.0/logout?access\_token=  
       ALLOW\_USER\_ACCESS\_TOKEN=true
   3. Set up OneSignal as follow:  
       ONESIGNAL\_APP\_ID=890552b1-50fe-418e-af8b-7ebe6fbf947f ONESIGNAL\_REST\_API\_KEY=NDFiZDU1MjMtNmQzNi00YjE2LTlhNTEtYTllZWZhOGJmMzg0
   4. Set up project resource path:  
       AVATAR\_PATH='/images/avartars/'  
       IMAGE\_PATH='/images/posts'
7. Migrate database:  
   - Open terminal from your project by hold shift + right-click and select Open command prompt here  
   - type command **php artisan migrate,** this will migrate all database scheme to your database  
   - check your database in phpMyAdmin if you saw all the database tables there  
     
   
8. Running project:  
   - You can type command php artisan serve to run your project as development mode  
   - Or you can host it and run from your domain name if you use hosting server  
   - To access your project from development mode, open browser and access <http://localhost:8000>

# 3. Database and schema

## 3.1 Schema



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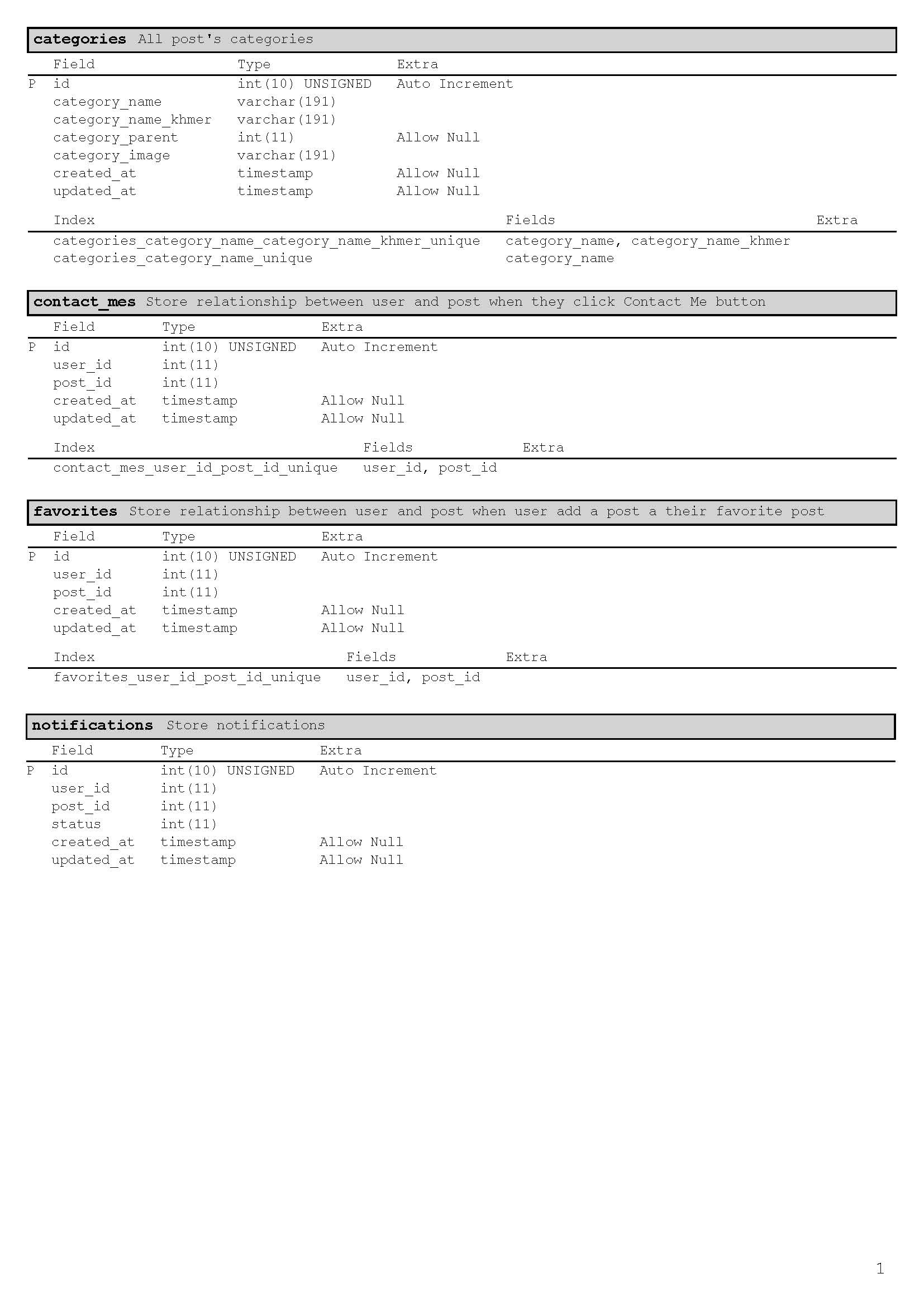
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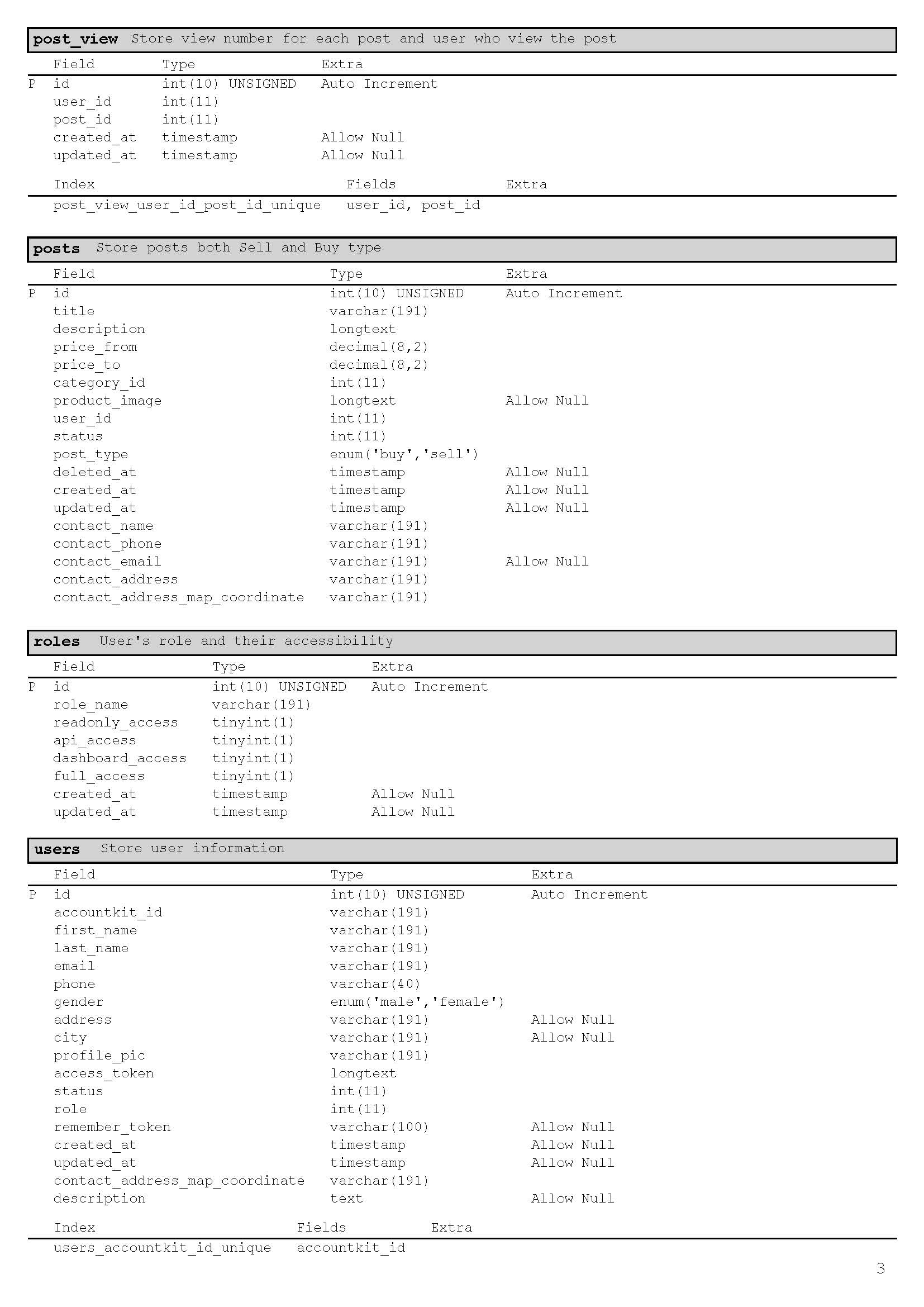
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## 3.2 Table and Datatype





# 4. API Endpoints

We have an online API document which list all the endpoints showing both meaning and their sample request and response. The online API document can be found at:  
 <https://documenter.getpostman.com/collection/view/839076-8b9f004e-ba2c-86b8-f9a3-2223f938c346>.

|  |  |
| --- | --- |
| Get All Users | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/users |
| Description | List all users in the system |
| Authentication | NO |
|  |  |
| Get All Buy Posts | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/buys |
| Description | List all posts with buy type |
| Authentication | NO |
|  |  |
| Get buys top view | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/buys/topview |
| Description | List top 10 most view buy posts |
| Authentication | NO |
|  |  |
| Get sells top view | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/sells/topview |
| Description | List top 10 most view sell posts |
| Authentication | NO |
|  |  |
| Get a user's specifc buy post | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/buy/{postId} |
| Description | Get specific buy post which belong to the user who request it |
| Authentication | YES |
| Parameter | postId (int) : ID of the post to request |
|  |  |
| Get may like posts | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/post/maylike |
| Description | Get 10 posts that related to user recently posted item |
| Authentication | YES |
|  |  |
| Get expired posts | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/post/expire |
| Description | List user's expired posts |
| Authentication | YES |
|  |  |
| Active expired post | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/post/active/{postIds} |
| Description | Activate expired post, only can be activated if the post belong to the user |
| Authentication | YES |
| Parameter | postIds (int[]) : Array of expired posts to active, delimit by comma (“,”) |
|  |  |
| Get a user's all buy posts | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/buys |
| Description | Get all buy posts of the user who request |
| Authentication | YES |
|  |  |
| Get a user's all buy posts by category | |
| Method | GET |
| URL | www.nu-ecommerce.ml/api/user/buys/category/{categoryId} |
| Description | List all buy posts of the user filtered by category id |
| Authentication | YES |
| Parameter | categoryId (int) : Id of the category to filter the post |
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