Melinda Minton

SWDV 691 – Capstone

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The Health Spot Database Design

For my web application, I decided to use Django framework which uses SQLLite3 relational databases with python. I picked Django because I am fairly familiar with the framework and I have had good luck having my databases work with the framework. I thought about using MongoDB or Microsoft SQL, but I have had issues getting those to interface with my projects in the past. Therefore, using Django ProstgresSQL databases through SQLLite is the route I chose to use for my web application, the Health Spot.

My databases will be built up of seven made tables. For each table I listed the fieldnames, the field type, field description, and weather a field is unique/optional/has defaults.

Category Table

|  |  |  |  |
| --- | --- | --- | --- |
| Category\_name | Character field | Category name | unique |
| Slug | slugfield | Category slug fields (for Django interface) | unqiue |
| Description | textfield | Category description | Optional |
| Cat\_image | imagefield | Category image | Optionsal |

Product table

|  |  |  |  |
| --- | --- | --- | --- |
| product\_name | Char field | Product Name | unique |
| slug | Slug field | Product slug fields (for Django interface | unique |
| description | Text field | Product description | Optional |
| price | Integer field | Product price |  |
| images | Image field | Product image |  |
| stock | Integer field | How many are available |  |
| is\_available | boolean | If the product is available | Default = true |
| category | Foreign key | Category the product belongs to |  |
| created\_date | Date/time field | Product creation date | True |
| modified\_date | Date /time field | Product last modified date. | true |

Accounts table

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Integer (PK) | User ID | Unique |
| Password | Char field | password |  |
| firstName | Char field | First name |  |
| lastName | Char field | Last name |  |
| Username | Char field | Username | Unique |
| Email | Email field (char (200)) | Email | Unique |
| phoneNum | Char field | Phone number |  |
| Date\_joined | Date/time field | Date user joined | Automatically field |
| Last\_login | Date/time field | Last time user logged in | Automatically field |
| Is\_admin | Boolean | Is the user admin? | Default=false |
| Is\_staff | Boolean | Is the user staff? | Default=false |
| Is\_active | Boolean | Is the user active | Default=false |
| Is\_superadmin | Boolean | Does user have super admin priveledges? | Default=false |

User profile table

|  |  |  |  |
| --- | --- | --- | --- |
| User | One to one field on Account (fk and pk ) | User | Unique |
| Addressline 1 | Char field | Address line 1 | Optional |
| Address line2 | Char field | Address line 2 | Optional |
| Profile\_picture | Image field | Profile image |  |
| City | Char field | City information |  |
| State | Char field | State information |  |
| Country | Char field | Country information |  |

Orders table

|  |  |  |  |
| --- | --- | --- | --- |
| User | User (FK on account) | User that made order | Unique |
| Payment | (Fk on payment) | Payment method | optional |
| Order\_number | Char field | Order number |  |
| firstName | Char field | First name |  |
| lastName | Char field | Last name |  |
| Phone | Char field | Phone number |  |
| Email | Email field | Email address |  |
| Address line 1 | Char field | Addr line |  |
| Address line 2 | Char field | Addr line 2 | Optional |
| Country | Char field | Country |  |
| State | Char field | State |  |
| City | Char field | City |  |
| Order note | Char field | Notes for the order | Optional |
| Order total | Float field | Order total price |  |
| Tax | Float field | Sales tax |  |
| Status | Char field | Order status |  |
|  |  |  |  |

Payment table

|  |  |  |  |
| --- | --- | --- | --- |
| User | (FK on accounts) | User that made order |  |
| Payment\_id | Char field (PK) | Payment id |  |
| Payment\_method | Char field | Payment method |  |
| Amount\_paid | Char field | Amount paid |  |
| Status | Char field | Payment status |  |
| Created\_at | Date/time field | Time payment was made |  |

Cart table

|  |  |  |  |
| --- | --- | --- | --- |
| Cart\_ID | Char field (PK) | Cart instance for current order |  |
| Date\_added | Date field | Date cart was started |  |
| User | (FK on accounts) | User that’s making order |  |
| Product | (FK on products) | Product being ordered |  |
| Quantity | Integerfield | How many of the items to add to the order |  |
| Is\_active | Boolean field | Is this an active order | Default= true |

The account table is the table that keeps up with the account information while the user profile table extends off of the information in the account table to include address, city, state, and profile image of the user. The category table is what splits up each product into a given category for filtering purposes. The product time holds all the information for each product. The order table keeps up with all the order information such as billing information, payment method, and user information. The payment table stores the form of payment the user used for their order, the status of the payment, and amount paid. Finally, we have the cart table that holds information of what currently is in the cart for a given order.