**Database Design Document**

1. **User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Uid | Int | / | N | Unique ID of a user, auto generate by database from 100000. |
| Username | String | / | N | Name used in login |
| Password | String | / | N | Password used in login |
| Role | String | / | N | Role(admin/user) |
| Email | String | / | N | Email address |
| Phone | String | / | Y | +xx\_1xxxxxxxxxx |
| Nickname | String | / | Y | Shown name in web, if not set in register, it will initiate with user\_uid |
| Register\_Time | String | / | N | YYYYMMddHHmmSS |
| Verification | Int | 0 | Y | 0: not verified  1: verified |

1. **Property**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Pid | Int | / | N | Unique ID of a property, auto generate by database from 100000. |
| Owner | Int | / | N | Uid of owner |
| State | String | / | N | State of address |
| City | String | / | N | City of address |
| District | String | / | N | District of address |
| Code | String | / | N | Mail-code of address |
| House\_number | String | / | N | House number of address |
| Longitude | Double | 0 | N | Generate by map api |
| Latitude | Double | 0 | N | Generate by map api |
| Status | Int | 0 | N | 0: init  1: verified/shown  2: on auction  3: sold  4: failed |
| Create\_time | String | / | N | YYYYMMddHHmmss |
| Area | Double | 0 | N | Areas of property |
| Bedroom | Int | 0 | Y | Number of bedrooms |
| Bathroom | Int | 0 | Y | Number of bathrooms |
| Carport | Int | 0 | Y | Number of carports |
| Type | Int | 0 | Y | 0: House  1: Apartment  2: Store |
| Verification | Int | 0 | Y | 0: not verified  1: verified |
| Description | String | / | Y | Description from owner |
| Remark | String | / | Y | Remark from website |

1. **Auction**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Aid | Int | / | N | Unique ID of an auction, auto generate by database from 1000000. |
| Uid | Int | / | N | Uid of seller |
| Pid | Int | / | N | Correspond property |
| Base\_price | Double | / | N | Base price setting by owner |
| Date\_time | String | / | N | Auction time, 10-60 days after property verified, setting by owner;  YYYYMMddHHmmss |
| Status | Int | / | N | 0: init  1: verified  2: on auction  3: failed  4: success |

1. **user\_favorite**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Uid | Int | / | N | Uid |
| Pid | Int | / | N | Pid |
| Serial | Int | / | N | Auto generate by system from 1 |

1. **user\_view\_history**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Uid | Int | / | N | Uid |
| Pid | Int | / | N | Pid |
| Serial | Int | / | N | Auto generate by system from 1 |

1. **user\_search\_history**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| \*Uid | Int | / | N | Uid |
| Search\_time | String | / | N | YYYMMddHHmmss |
| State | String | / | Y | State of address |
| City | String | / | Y | City of address |
| District | String | / | Y | District of address |
| Code | String | / | Y | Mail-code of address |
| House\_number | String | / | Y | House number of address |
| Longitude | Double | 0 | Y | Generate by map api |
| Latitude | Double | 0 | Y | Generate by map api |
| Type | Int | 0 | Y | 0: House  1: Apartment  2: Store |
| Area | Double | 0 | N | Areas of property |
| Bedroom | Int | 0 | Y | Number of bedrooms |
| Bathroom | Int | 0 | Y | Number of bathrooms |
| Carport | Int | 0 | Y | Number of carports |
| Serial | Int | / | N | Auto generate by system from 1 |

1. **auction\_register**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| Uid | Int | / | N | Uid |
| Pid | Int | / | N | Pid |
| \*Aid | Int | / | N | Aid |
| Serial | Int | / | N | Auto generate by system from 1 |
| Type | Int | / | N | 0: watcher  1: bidder |

1. **auction\_bid**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Type** | **Default** | **Nullable** | **Description** |
| Pid | Int | / | N |  |
| \*Aid | Int | / | N |  |
| Uid | Int | / | N |  |
| Bid\_time | String | / | N | YYYYMMddHHmmss |
| Serial |  |  |  |  |