**Entity Dictionary**

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| --- | --- |
| **Entity name** | **Description** |
| user | Describe all user in system |
| role | Describe all role in the system |
| permission | Describe all permission in the system |
| role\_has\_permission | Describe all permission that link to a role in the system |

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| **Entity** | **Attributes** | **Description** | **Domain** | **Allow Null** |
| **user** | id | Unique identifier of user, auto increment | int | No |
| username | username of user | varchar (50) | No |
| password | password of user | varchar(255) | No |
| email | email of user | varchar(100) | No |
| address | address of user | varchar(50) | Yes |
| image\_profile | image profile of user | varchar(100) | No |
| full\_name | full name of user | varchar(100) | No |
| status | status of user (0: disabled, 1: active) | bit | No |
| create\_date | create date of user | long | No |
| last\_login | last login date of user | long | No |
| role\_id | role of user | int | No |

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| --- | --- | --- | --- | --- |
| **role** | id | Unique identifier of role, auto increment | int | No |
| name | Name of role | varchar (255) | No |
| description | Description of role | varchar (255) | Yes |
| price | Price of role | double | No |
| **permission** | id | Unique identifier of permission, auto increment | int | No |
| name | Name of permission | varchar (255) | No |
| description | Description of role | varchar (255) | Yes |
| **role\_has\_permission** | id | Unique identifier of a permission assigned to a role, auto increment | int | No |
| role\_id | role id | int | No |
| permission\_id | permission id | int | No |