|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Fields** | **Data Type** | **Require** | **PK/FK** | **Default** | **References** | **Note** |
| tb\_author | id | SERIAL | YES | PK |  |  |  |
|  | name | VARCHAR | YES |  |  |  |  |
|  | contact | VARCHAR | YES |  |  |  |  |
|  | books | INT | YES | FK |  | tb\_book(id) | <List> |
|  | status | BOOLEAN | YES |  | TRUE |  |  |
|  | created\_at | TIMESTAMP | YES |  | NOW() |  |  |
| tb\_book |  |  |  |  |  |  |  |
|  | id | SERIAL | YES | PK |  |  |  |
|  | title | VARCHAR | YES |  |  |  |  |
|  | ISBN | VARCHAR |  |  |  |  |  |
|  | book\_image | VARCHAR |  |  |  |  |  |
|  | authors | INT | YES | FK |  | tb\_author(id) | <List> |
|  | category | INT | YES | FK |  | tb\_category(id) |  |
|  | publish\_date | DATE | YES |  |  |  |  |
|  | status | BOOLEAN | YES |  | TRUE |  |  |
|  | created\_at | TIMESTAMP | YES |  | NOW() |  |  |
| tb\_category | id | SERIAL | YES | PK |  |  |  |
|  | name | VARCHAR |  |  |  |  |  |
|  | books | INT | YES | FK |  | Tb\_book(id) | <List> |
|  | status | BOOLEAN | YES |  | TRUE |  |  |
|  | created\_at | TIMESTAMP | YES |  | NOW() |  |  |
| tb\_user | id | SERIAL | YES | PK |  |  |  |
|  | username | VARCHAR | YES |  |  |  |  |
|  | fullname | VARCHAR |  |  |  |  |  |
|  | email | VARCHAR |  |  |  |  |  |
|  | gender | VARCHAR |  |  |  |  |  |
|  | status | BOOLEAN | YES |  | TRUE |  |  |
|  | created\_at | TIMESTAMP | YES |  | NOW() |  |  |

Step 1: Create POJO structure:

* models
* controllers
  + restcontrollers
* repositories
* services
  + implementation

Step 2: Create class in model, (DTO) (Author.class, Book.class, Category.class, User.class)

Step 3: Create Database and fields to match with the class in model

Step4: Create SQL statement in repositories (UserRepository.class)

Step 5: Create Service interface (UserService.class)

Step 6: Create service implementation (UserServiceImple.class)

Step 7: Create controller to call the service (UserRestController.class)