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## 02-Mini Project

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Requirement : User management with below functionalities

- 1) User Registration (with dependent drop downs)
- 2) Email Sending upon successfull registration with temp pwd
- 3) Password Reset (first time login)
- 4) Login
- 5) Dashboard (Random Quote display)

##### Third Party API To get Random Quote : <https://dummyjson.com/quotes/random>

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### Database tables

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#### 1) COUNTRY\_MASTER

- COUNTRY_ID	INT	PK	AUTO_INCREMENT
- COUNTRY_NAME	VARCHAR		

#### 2) STATE\_MASTER

- STATE_ID	INT	PK	AUTO_INCREMENT
- STATE_NAME	VARCHAR		
- COUNTRY_ID	INT	FK (COUNTRY_MASTER)	

#### 3) CITY\_MASTER

- CITY_ID	INT	PK	AUTO_INCREMENT
- CITY_NAME	VARCHAR		
- STATE_ID	INT	FK (STATE_MASTER)	

#### 4) USER\_MASTER

- USER_ID	INT	PK	AUTO_INCREMENT
- UNAME	VARCHAR		
- EMAIL	VARCHAR		
- PWD	VARCHAR		
- PWD_UPDATED	VARCHAR		
- PHNO	NUMBER		
- COUNTRY_ID	INT	FK (COUNTRY_MASTER)	
- STATE_ID	INT	FK (STATE_MASTER)	
- CITY_ID	INT	FK (CITY_MASTER)	
- CREATED_AT	DATE		
- UPDATED_AT	DATE		

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### JAVA COMPONENTS

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#### 1) CountryEntity.java

- 2) CountryRepository.java
- 3) StateEntity.java
- 4) StateRepository.java
- 5) CityEntity.java
- 6) CityRepository.java
- 7) UserEntity.java
- 8) UserRepo.java
- 9) CountryDto.java
- 10) StateDto.java
- 11) CityDto.java
- 12) UserDto.java
- 13) ResetPwdDto.java
- 14) QuoteApiResponseDto.java
- 15) ApiResponse.java
- 16) UserService.java & Impl
- 17) EmailService.java
- 18) UserRestController.java

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Development Process  
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- 1) Create spring-boot app with below dependencies

- a) web-starter
- b) data-jpa
- c) mysql-driver
- d) mail-starter
- e) devtools
- f) project lombok
- g) springdoc-openapi-starter-webmvc-ui

- 2) Create Entities and Repositories
- 3) Create DTO classes
- 4) Create Service interfaces with required methods
- 5) Create Rest Controller to handle request & response
- 6) Configure data source & SMTP props in application.properties file
- 7) Run the application and test it using postman / swagger-ui.

===== DB Script to load Static Data into DB Tables =====

use jrtp;

```
insert into country_master values(1, 'India');  
insert into country_master values(2, 'USA');
```

```
insert into states_master(state_id, state_name, country_id) values(1, 'AP', 1);  
insert into states_master(state_id, state_name, country_id) values(2, 'TG', 1);
```

```
insert into states_master(state_id, state_name, country_id) values(3, 'RI', 2);  
insert into states_master(state_id, state_name, country_id) values(4, 'NJ', 2);
```

```
insert into cities_master(city_id, city_name,state_id) values (1, 'Guntur', 1);
insert into cities_master(city_id, city_name,state_id) values (2, 'Ongole', 1);

insert into cities_master(city_id, city_name,state_id) values (3, 'Hyderabad', 2);
insert into cities_master(city_id, city_name,state_id) values (4, 'Warangal', 2);

insert into cities_master(city_id, city_name,state_id) values (5, 'Providence', 3);
insert into cities_master(city_id, city_name,state_id) values (6, 'New Port', 3);

insert into cities_master(city_id, city_name,state_id) values (7, 'Trenton', 4);
insert into cities_master(city_id, city_name,state_id) values (8, 'Newark', 4);
```

```
=====
1) GET : http://localhost:8080/countries
=====
```

## Response Body :

```
{
  "status": 200,
  "message": "Fetched Countries Successfully",
  "data": [
    {
      "countryId": 1,
      "countryName": "India"
    },
    {
      "countryId": 2,
      "countryName": "USA"
    }
  ]
}
```

```
=====
2) GET : http://localhost:8080/states/1
=====
```

## Response Body :

```
{
  "status": 200,
  "message": "States fetched Successfully",
  "data": [
    {
      "stateId": 1,
      "stateName": "AP"
    },
    {
      "stateId": 2,
      "stateName": "TG"
    }
  ]
}
```

```
=====
3) GET : http://localhost:8080/cities/1
=====
```

## Response Body :

```
{
  "status": 200,
  "message": "Cities fetched Successfully",
  "data": [
```

```
{
  {
    "cityId": 1,
    "cityName": "Guntur"
  },
  {
    "cityId": 2,
    "cityName": "Ongole"
  }
}
]
```

```
=====
4) GET : http://localhost:8080/unique/<your-email>
=====
```

## Response Body :

```
{
  "status": 200,
  "message": "Duplicate Email Found",
  "data": "DUPLICATE"
}
```

```
=====
5) POST : http://localhost:8080/user
=====
```

## Request Body :

```
{
  "name": "Ashok",
  "email": "ashokitschool@gmail.com",
  "phno": 54644545,
  "countryId": 1,
  "stateId": 1,
  "cityId": 1
}
```

## Response Body :

```
{
  "status": 200,
  "message": "Registration successfull",
  "data": "SUCCESS"
}
```

```
=====
6) POST : http://localhost:8080/login
=====
```

## Request Body :

```
{
  "email": "ashokitschool@gmail.com",
  "pwd": "45454"
}
```

## Request Body-1 : Invalid Credentials

```
{
  "status": 401,
  "message": "Invalid Credentials",
  "data": null
}
```

## Request Body-2 : Valid Credentials

```
{
  "status": 200,
  "message": "Login Success",
  "data": {
    "userId": 2,
    "name": "Ashok",
    "email": "ashokitschool@gmail.com",
    "pwd": "OLWCU",
    "pwdUpdated": "NO",
    "phno": 54644545,
    "countryId": 1,
    "stateId": 1,
    "cityId": 1
  }
}
```

=====  
7) POST : http://localhost:8080/reset-pwd  
=====

## Request Body :

```
{
  "email": "ashokitschool@gmail.com",
  "newPwd": "ABC@123",
  "confirmPwd": "ABC@123"
}
```

## Response Body :

```
{
  "status": 200,
  "message": "Pwd updated successfully",
  "data": "SUCCESS"
}
```

=====  
8) GET : http://localhost:8080/quote  
=====

```
{
  "status": 200,
  "message": "Quote Fetched successfully",
  "data": {
    "id": 1133,
    "quote": "Many Marriages Would Be Better If The Husband And The Wife Clearly Understood That They  
Are On The Same Side.",
    "author": "Zig Ziglar"
  }
}
```