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=====
e-Commerce Application
=====
```

- 1) Discovery Service (Eureka)
- 2) Admin Server
- 3) Zipkin Server
- 4) Config Server
- 5) Authorization Service
- 6) Product Service
- 7) Cart Service
- 8) Order Service
- 9) Payment Service
- 10) Reports Service
- 11) Gateway Service (Api Gateway)

```
=====
Database Tables
=====
```

- 1) USERS
- 2) ROLES
- 3) USER_ROLES
- 4) CATEGORY
- 5) PRODUCTS
- 6) CART
- 7) ORDERS

```
=====
DB Tables Structure
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```

```
## Table Name : USERS
```

| USER_ID | INT | PK | AUTO_INCREMENT |
|------------|--------------|----|----------------|
| FIRST_NAME | VARCHAR(500) | | |
| LAST_NAME | VARCHAR(500) | | |
| EMAIL | VARCHAR(500) | | |
| PWD | VARCHAR(500) | | |
| MOBILE | INT(15) | | |
| ADDRESS | VARCHAR(500) | | |
| CITY | VARCHAR(500) | | |
| STATE | VARCHAR(500) | | |
| PINCODE | VARCHAR(45) | | |
| USER_PIC | VARCHAR(45) | | |

```
## Table Name : ROLES
```

| ROLE_ID | INT | PK | AUTO_INCREMENT |
|-----------|-------------|----|----------------|
| ROLE_NAME | VARCHAR(20) | | |

```
## Table Name : USER_ROLES
```

| USER_ID | INT |
|---------|-----|
| ROLE_ID | INT |

| | | | |
|-------------|-----------|------------|----------------|
| FOREGIN_KEY | (USER_ID) | REFERENCES | USERS(USER_ID) |
| FOREGIN_KEY | (ROLE_ID) | REFERENCES | ROLES(ROLE_ID) |

```
## Table Name : CATEGORY
```

| CATEGORY_ID | INT | PK | AUTO_INCREMENT |
|-------------|-----|----|----------------|
|-------------|-----|----|----------------|

```
TITLE VARCHAR(100)
CATEGORY_IMAGE VARCHAR(100)
```

Table Name : PRODUCTS

```
PRODUCT_ID          INT PK AUTO_INCREMENT
PRODUCT_NAME        VARCHAR(100)
CATEGORY_ID          INT
DESC                 VARCHAR(500)
PRICE                INT
STOCK                INT
IMAGE                VARCHAR(100)
DISCOUNT            INT
```

```
FOREIGN KEY (CATEGORY_ID) REFERENCES CATEGORY (CATEGORY_ID)
```

Table Name : CART

```
CART_ID              INT      PK      AUTO_INCREMENT
PRODUCT_ID           INT
USER_ID              INT
QUANTITY              INT
```

Table Name : ORDERS

```
ORDER_ID              INT      PK      AUTO_INCREMENT
USER_ID               INT
PRODUCT_ID            INT
QUANTITY              INT
PRICE                 INT
PAYMENT_TYPE          VARCHAR
ORDER_STATUS          VARCHAR
ORDER_DATE            VARCHAR
```

```
=====
01-Jun :: Assignment
=====
```

- 1) Develop Discovery Server (Eureka)
- 2) Develop Admin Server
- 3) Develop Config Server
- 4) Develop Authorization Service with Spring Security

- Register
- Login
- Forgot Pwd

```
=====
02-Jun :: Assignment
=====
```

- 1) Develop PRODUCT-Service which contains category and products related functionality

Note: Category and Product tables having one to many relationship so prepare entities accordingly.

Category endpoints

```
POST - category
GET - category/{id}
GET - categories
PUT - category
DELETE - category/{id}
```

Product endpoints

```
POST - product
```

PUT - product
GET - product/{id}
GET - products
DELETE - product/{id}