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Features of the System

The spring application has the following features:

- CRUD operation for users
- CRUD operation for product categories
- CRUD operation for Products; here product is related with category in such each product belongs to utmost one category.
- CRUD operation for Purchases
- Report that shows purchases by user filter.

Application Layers

The application is divided in two the following components, each with distinct known function in spring world:

- Entities
- Services
- Controllers
- Repositories
- ✓ These components are realized by package structure in the project.

Concepts Used

- DI
- IOC
- Thymeleaf
- JPA

- Error handling
- Java Stream
- MvcConfiguration
- OneToMany entity relationship
- ManyToMany entity relationship

Database Used

In memory database- H2 was used for this application.

How to use the system

As the system uses H2 as persistence system, using entails entering data. The following should be the order the entities should have their data entry:

- 1. Add list of Users
- 2. Add list of Categories
- 3. Add list of Product
- 4. Add list of Purchases