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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