

Case Study: Online Food Ordering System

You are required to develop a user and product management system using CodeIgniter 4, focusing on Model and Entity implementation. This system will be used for an online store that requires product and user management. The main focus of implementation is on form validation (client-side using Pristine.js and server-side using CI4 model validation), searching, filtering, sorting, and pagination of student data. Modify [Mini Project 4](#) to complete the tasks.

Required Features

1. Product Management

- Create, read, update, and delete product data (CRUD) for admin
- Implementation validation:
 - Client-side
 - Implement Pristine.js for client-side form validation
 - Display clear and informative error messages
 - Server-side
 - Use CI4 model validation features
 - Product name (required, min 3 characters)
 - Price (numeric, > 0)
 - Stock (integer, >= 0)
- Implement search functionality for all columns (except timestamp)
- Filter data using dropdowns by category and price range
- Implement data sorting (asc/desc) by price (asc/desc), name, and date
- Pagination with user-friendly page numbering display

2. Product Catalog

- Display product catalog
- Implement search functionality by name and category
- Filter data using dropdowns by category and price range
- Implement data sorting (asc/desc) by price (asc/desc), name, and date
- Pagination with user-friendly page numbering display

3. User Management

- Create, read, update, and delete user data (CRUD) for admin
- Implementation validation:
 - Client-side
 - Implement Pristine.js for client-side form validation
 - Display clear and informative error messages

- Server-side
 - Use CI4 model validation features
 - Username (unique, min 3 characters)
 - Email (valid & unique)
 - Password (min 8 characters)
- Implement search functionality for all columns (except timestamp)
- Filter data using dropdowns by role and status
- Implement data sorting (asc/desc) by last_login (asc/desc), username, and email
- Pagination with user-friendly page numbering display

Evaluation Criteria

1. Feature completeness
2. Form validation implementation
3. Search, filter, sort, and pagination implementation
4. Code structure and quality
5. UI/UX design