

OOAD (Fall 2016)

Assignment 2

Implement the following use-case:

UC: Browse Catalog

Purpose: To view and select items

Main Flow:

1. Customer opens catalog
2. System shows categories of items
3. Customer selects appropriate category
4. System shows corresponding sub-categories
5. Repeat steps 3 – 4 till appropriate category is reached
6. System presents the items in a list
7. Customer selects appropriate item to view its details
8. System shows item information that includes: item code, title, description, price and quantity available

Alternative Flow:

- 1A.1 Customer selects search option and enter either of the following as search string:
category name, item code, item title
- 1A.2 System searches all items that closely match the search string
- 1A.3 System sorts items according to relevance
- 1A.4 Usecase resumes from step-6 of main flow

Post-condition: None

Considering a layered architecture:

1. Implement a simple console-based UI.
2. Identify and implement all the required classes at the business layer.
3. Use a simple file-based data storage but implement a proper Data Layer through a Data Access Object (DAO). For storage purposes, you may choose any format of your choice (CSV, XML, JSON, etc. or any other custom format)