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CSC435: Homework 1

Requirements Specification Document

Description:

An online shopping API that provides user/admin login, shopping carts associated with users, a catalog with item pricing and availability, and admin privileges for modifying the catalog.

API:

Login System:

Method	URL	Data	Description
POST	account/login	user: username pass: password	Attempts to login a user/admin
POST	account/logout	none	Removes the user from the list of logged in users
POST	account/register	user: username pass: password	Registers a new user
POST	account/delete	user: username	Deletes an account (logged in or from admin)

Shopping Carts:

Method	URL	Data	Description
GET	cart/list	none	Returns a list of items and prices that are in the shopping cart
POST	cart/add	id: item ID name: item name price: item price	Adds an item to the shopping cart
POST	cart/delete	id: item ID	Removes an item from the shopping cart
POST	cart/purchase	none	Purchases the items in the shopping cart and clears the shopping cart
POST	cart/clear	none	Clears the shopping cart

Catalog System:

Method	URL	Data	Description
GET	catalog/categories	none	Returns a list of categories in the catalog

Method	URL	Data	Description
GET	catalog/items	category: category name	Returns a list of items and prices for a given category
GET	catalog/details	id: item ID	Returns detailed information about a given item
POST	catalog/add_category	category: category name	Adds a category to the catalog (admin)
POST	catalog/rename_category	category: category name name: new category name	Renames a category (admin)
POST	catalog/delete_category	category: category name	Deletes a category from the catalog (admin)
POST	catalog/add_item	category: category name id: item ID name: item name price: item price desc: item description	Adds an item to the catalog given a category, item name, price, and description (admin)
POST	catalog/edit_item	category: category name id: item ID name: item name price: item price desc: item description	Replaces an existing item with a new category, name, price, and description (admin)
POST	catalog/delete_item	id: item ID	Deletes an item from the catalog (admin)