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CSC435: Homework 3

Requirements Specification Document

Description:

A RESTful 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	users/	user: username pass: password	Attempts to login a user/admin. Returns userId and authToken.
GET	users/	none	Returns a list of logged in users.
DELETE	users/userId	authToken: login validation	Removes the user from the list of logged in users.
POST	accounts/	user: username pass: password	Registers a new user. Rerturns userId.
GET	accounts/	none	Returns a list of registered accounts.
PUT	accounts/userId	authToken: login validation	Changes an accounts password
DELETE	accounts/userId	authToken: login validation	Deletes an account (logged in or from admin)

Shopping Carts:

Method	URL	Data	Description
GET	users/userId/items	authToken: login validation	Returns a list of items and prices that are in the users shopping cart.
POST	users/userId/items	authToken: login validation category: category ID id: item ID	Adds an item to the users shopping cart. Returns itemId.
DELETE	users/userId/items/itemId	authToken: login validation	Removes an item from the users shopping cart.
DELETE	users/userId/items	authToken: login validation	Clears the users shopping cart

Catalog System:

Method	URL	Data	Description
GET	catalogs/	none	Returns a list of categories in the catalog.
GET	catalogs/catalogId/items	none	Returns a list of items and prices for a given category.
GET	catalogs/catalogId/items/itemId	none	Returns detailed information about a given item.
POST	catalogs/	authToken: admin login validation	Adds a category to the catalog. Returns new catalogId. (admin)
PUT	catalogs/catalogId	authToken: admin login validation name: new category name	Renames a category. (admin)
DELETE	catalogs/catalogId	authToken: admin login validation	Deletes a category from the catalog (admin)
POST	catalogs/catalogId/items	authToken: admin login validation name: item name price: item price desc: item description	Adds an item to the catalog given an item name, price, and description. Returns itemId. (admin)
PUT	catalogs/catalogId/items/itemId	authToken: admin login validation name: item name price: item price desc: item description	Replaces an existing item with a new name, price, and description (admin)
DELETE	catalogs/catalogId/items/itemId	authToken: admin login validation	Deletes an item from the catalog. (admin)