

Wishlist App

The Wishlist App is a command-line application that allows users to create and manage a wishlist of items they want to purchase. It uses OpenDSU to store and manage user data, with each user having their own DSU (Data Sharing Unit) where their wishlist items are stored.

Features

- User authentication with unique DSUs for each user
- Add items to wishlist with name, description, price, and link
- View items in the wishlist
- Mark items as purchased
- Share read-only access to the wishlist with others
- Read other users' shared wishlists

Setup

1. Make sure you have Node.js installed on your system.
2. Clone the tutorial repo: `git clone https://github.com/webcardinal/tutorial-workspace.git`
3. Run the commands: `$ git clone https://github.com/webcardinal/tutorial-workspace $ cd tutorial-workspace $ npm install $ npm run server $ npm run build-all`
4. Run the application: `"node main.js"`

Usage

1. When the application starts, enter your username to authenticate or create a new user.
2. Enter one of the following commands:
 - `add`: Add an item to your wishlist
 - `view`: View your wishlist items
 - `mark`: Mark an item as purchased
 - `share`: Share your wishlist as read-only with others
 - `read`: Read another user's shared wishlist
 - `exit`: Exit the application
3. Follow the prompts for the selected command.

Application Structure

- `main.js`: The main file containing the application logic and the command-line interface.
- `authenticateUser()`: Function to authenticate a user and create or load their DSU.
- `getReadOnlySSI(dsu)`: Function to get the read-only SSI for sharing the wishlist.
- `readSharedWishlist(sharedSSI)`: Function to read a shared wishlist using a shared SSI.
- `addItem(dsu, name, description, price, link)`: Function to add an item to a user's wishlist.
- `viewItems(dsu)`: Function to view the items in a user's wishlist.
- `markItem(dsu, itemIndex)`: Function to mark an item as purchased in a user's wishlist.

Technologies Used

- Node.js: JavaScript runtime for executing the application.
- Readline: Node.js built-in module for creating a command-line interface.
- OpenDSU: Decentralized data storage system for securely storing and managing user data in DSUs.