

Trial Project: Custom Item Marketplace Plugin

Objective: Create a Spigot plugin that allows players to create, list, and purchase custom items in a marketplace. The plugin should use MongoDB to store player data and item listings. This will demonstrate your ability to work with databases, handle player interactions, and manage custom items. Fully configurable. If you don't want to use Mongo you can use MySQL but you're required to also create a Redis cache system alongside it.

Plugin Name: MarketPlace

Version: 1.20.4

Deadline: 14 days

Requirements:

1. MongoDB Integration:

- Set up a connection to a MongoDB database.
- Store player data, item listings, and transaction history.

Listing Items in the Marketplace:

- Command: `/sell <price>`
- Description: Lists the item in players hand in the marketplace for sale.
- Permissions: `marketplace.sell`

2. Viewing the Marketplace:

- Command: `/marketplace`
- Description: Displays a list of all items currently for sale in the marketplace.
- Permissions: `marketplace.view`

3. Black Market:

- Command: `/blackmarket`
- Description: Generates a new shop from the `/marketplace` menu with 50% discounted prices from a selection of random items. Reimburse the seller 2x if their item is sold on the black market.
- Permissions: `marketplace.blackmarket`

4. Purchasing Items:

- Use a confirmation GUI

5. Transaction History:

- Command: `/transactions`
- Description: Displays the player's transaction history.
- Permissions: `marketplace.history`

6. Handling Custom Items:

- Ensure NBT support.
- Store and retrieve custom item data using MongoDB.

Additional Requirements:

- **Error Handling:**
 - Ensure that all commands have appropriate error messages for incorrect usage.
 - Handle scenarios where items or players are not found in the database.
- **Data Consistency:**
 - Ensure data integrity and consistency when storing and retrieving information from MongoDB.
 - NO DUPE BUGS
- **Minor Requirements**
 - GUI refreshing must not reopen a new inventory, it must modify an existing one.
 - Please add discord web hook logging of each purchase.