Endpoints Presentation

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1. Endpoint
luckyDrawCashBack()

- **lucky draw cashback function** rewards a random user with a cashback equal to the price of their cheapest purchase.

- **How It Works**

1- **Check** if there are buyers (buyersUsers list).

2- **Pick Random User** using Random.

3- **Find Cheapest Item** in their purchase history.

4- **Add Cashback** to their balance.

5- **Return the Updated User.**

2. Endpoint

`addDiscount`(String userid,String productid, `double` discount)

- `addDiscount` **function** that adds a discount on specfic product by admin.

- **How It Works**

1- Admin Access Only: Checks if the user is an admin.

2- Product Check: Finds the product id in the catalog.

3- Apply Discount: Updates the product's price.

4- Returns Status: Gives clear feedback if the operation fails or succeeds.

3. Endpoint
generateGiftCard
`(String userid, int value)`

- `generateGiftCard` **function** allows a user to create a gift card if they have sufficient balance.

- **How It Works**

1- Check User Exists: Finds the user by ID.

2- Verify Balance: Ensures the user has enough funds.

3- Generate Code: Creates a unique gift card code using the value and random characters.

4- Save Code: Adds the gift card to the user's and system's lists.

5- Status Feedback: Returns a clear code for success or failure.

4. Endpoint
redeemGiftCard
(String userid,String code)

- **redeemGiftCard function** allows a user to redeema gift card.

- **How It Works**

1- Check User Exists: Finds the user in the system using their userid.

2- Validate Gift Card: Verifies if the gift card code exists in the list of generated cards.

3- Redeem Gift Card:

- Extracts the value from the code (e.g., from `100CE`).

- Adds the value to the user's balance.

- Removes the card from both the system and user's gift card lists.

4- Status Feedback: Returns a clear code for success or failure.

5. Endpoint
inviteRewards
(String newuserid, String hostuserid)

- `inviteRewards` **function** rewards both the inviter (host) and the invited user when a valid invitation is processed.

- **How It Works**

1- Check Host Exists: Finds the inviter (`hostuserid`) in the system.

2- Check New User Exists: Validates that the invited user (`newuserid`) is in the system.

3- Apply Rewards: Both the host and the new user receive **25** balance in their balances.

4- Status Feedback: Returns a clear code for success or failure.

Thank you