Welcome to the smart coupon system

Here some information about the coupon system part A.

**Introduction**:  
Coupon system allows access to three types of client:

* Administrator
* Company
* Customers

Each client type has permissions to perform different actions (Create, Remove, Update, Display).

The part A is the back end (server side) of coupon system as contains:

* Persistent layer ( SQL Server and JDBC)
* The business logic layer
* Web service – not included.

**Activation:**  
After you have installed the Java files and the Data Base, the system will be ready to run.  
  
The system has three main tests that represent the three SPA pages that will be on the front end (client side) in the future (part B).

First thing first, login must be executed according to the type of the client type (examples are attached).

Every time you enter the system, thread "DailyCouponExpirationTask" runs and deletes coupons that expire. When the thread finishes he sends a message to the console – you will see it in the login stage.

**Important**: since main tests programs are temporary, there are no validations on the input. It will be implemented on the front end (client side) in part B.

**Examples**

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1. **To execute Login as an administrator:**

==== login ====

To identify

Please enter a username:

admin

Please enter a password:

1234

Please enter a client type (1 for Admin, 2 for Company, 3 for Customer):

1

If the login execution is successful, a - Admin Menu will appear :

==== Admin Menu ====

1: Create company

2: Remove company

3: Update company

4: Companies report - Get all companies

5: company details report - Get company

6: Create customer

7: Remove customer

8: Update customer

9: Customers report - Get all customers

10: Customer details report - Get customer

11: Exit

Please enter a action (1-11):

1. **To execute Login as an company:**

==== login ====

To identify

Please enter a username:

nike

Please enter a password:

nike123

Please enter a client type (1 for Admin, 2 for Company, 3 for Customer):

2

If the login execution is successful, a Company Menu will appear:

==== Company Menu ====

1: Create/Add Coupon

2: Remove Coupon

3: Update Coupon

4: get Company

5: All coupons report

6: Coupons report by type

7: Coupons report by price

8: Coupons report by date

9: Exit

Please enter a action (1-9):

1. **To execute Login as an customer:**

==== login ====

To identify

Please enter a username:

itay

Please enter a password:

itay123

Please enter a client type (1 for Admin, 2 for Company, 3 for Customer):

3

If the login execution is successful, a - Customer Menu will appear:

==== Customer Menu ====

1: Purchase Coupon

2: All coupons report

3: Coupons report by type

4: Coupons report by price

5: Exit

Please enter a action (1-5):

Best regards

Gidi.