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| **BEARISH COUPONS**  CREATE BY BEARISH | **COUPON SITE**  My Big Teddy Bear Coupons  **Elad Bitton**  "TIME TO GET OUT FROM THE BOX AND LET YOUR HANDS GET DIRTY…" |

**LLD COUPON PROJECT**

**THE COUPON PROJECT IS CREATE FOR LEARNING JAVA AND GET SKILLS IN MORE SCRIPT LANGUAGA LIKE HTML, CSS, JAVA SCRIPT, XML, AJAX AND MORE.**

**AND SOFTWARES THAT HAVE THE RIGHT TOOLS FOR DEVELOPERS LIKE ECLIPSE, NOTPAD++, MYSQL, NETBEANS AND MORE.**

**ALSO WE BUILD A RESTFUL THAT WORK WITH APACHI TOMCAT SERVER .**

**WE USE JARS LIKE : APACHI COMMONS JARS,JERSEY AND MANY CLASSESS FROM JAVA LIBERIES AND MORE.**

**HOPE YOU WILL ENJUI FROM THIS PROJECT AND YOU WILL HAVE A GOOD USER EXPERIENCE FROM THIS PROJECT .**

**BEST REGARDS,**

**ELAD BITTON("BEARISH")**

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PHASE 1

**IN PHASE 1 WE MADE A CORE SYSTEM THAT HAVE :**

* BASIC JAVA CLASSES "THE BRAIN" THAT CREATE THE COUPON, CUSTOMER AND COMPANY.
* CONNECTION POOL AND LAYER OBJECTS TO CONNECT TO THE DATA BASE.
* TABELS IN THE DATA BASE :
* COUPON, CUSTOMER,COMPANY FOR EACH USE
* 2 JOIN TABELS Company Coupon & Customer Coupon TO CONNECT BETWEEN THE COUPON AND THE USER.
* DAO/DBDOA CLASSES TO GET VALUES AND SEND VALUES TO THE DATA BASE.
* FACED CLASSES THAT USE THE SINGELTON CLASS AND BRIENG ACCESS TO THE SYSTEM BY USER TYPE (ADMIN, COMPANY AND CUSTOMER).
* THREAD CLASS THAT REMOVE EXPIRED COUPONS .
* EXCEPTION CLASS TO THROW EROR THAT SUITABLE TO THE SITUATION.
* MAIN CLASSESS TO CHECK THE ABILITIES SYSTEM.

**THA BASE PACKAGE**

* COMPANY – " THE BRAIN COMPANY SYSTEM CORE " TO CREATE A NEW COMPANY WITH THE ATTRIBUTES:

ID, COMPANY NAME, COUPONS, PASSWORD AND EMAIL.

* CUSTOMER-" THE BRAIN CUSTOMER SYSTEM CORE " TO CREATE A NEW CUSTOMER WITH THE ATTRIBUTES:

ID, CUSTOMER NAME, COUPONS, PASSWORD AND EMAIL.

* COUPON – " THE BRAIN COUPON SYSTEM CORE" TO CREATE A NEW COUPON WITH THE ATTRIBUTES:

ID, TITLE, START&END DATE &TIME, AMOUNT, PRICE,IMAGE AND MESSAGE THAR EXPLAIN THE COUPON.

* COUPON TYPE THAT TAKE FROM THE ENUM CLASS THE TYPE OF THE COUPON.

**THE CONNECTION POOL PACKAGE**

* THIS SINGELTON CLASS THAT DEFINE THE CONNECTIONS FROM/TO THE DATA BASE START AND KILL PROCCESS.

**THE DAO/DBDAO PACKAGE**

* THE DAO DIFIENS THE INTERFACES FOR THE DBDAO THA CREATE AND GET ALL THE VALUES FROM/TO THE DATA BASE.

**COMPANY DAO/DBDAO METHODS:**

* - Create Company.
* - Remove Company.
* - Update Company.
* - Get Company By ID.
* - Get All Companies.
* - Login.
* - Is Company (to check the company doesn't exist)
* - Is Company EMAIL (to check the email is not use for more than one company)
* - Get Company By Name
* - Get Company By E-Mail

**CUSTOER DAO/DBDAO METHODS:**

* - Create Customer.
* - Remove Customer.
* - Update Customer.
* - Get Customer By ID.
* - Get All Customer.
* - Login.
* - Is Customer (to check the customer doesn't exist)
* - Get Customer By Name
* - Is Customer EMAIL (to check the email is not use for more than one customer)

**COUPON DAO/DBDAO METHODS:**

* - Create Coupon.
* - Remove Coupon.
* - Update Coupon.
* - Get Coupon By ID.
* - Get All Coupon.
* - Get Customer By Name
* - Get Coupon By Type
* - Get Company Coupons
* - Is coupon(to check the coupon doesn't exist)
* - Get All Purchased Coupons By Price
* - Get All Purchased Coupons By Type
* - Get Coupon By Max Price
* - Get Coupon By Late Date
* - Get From Result Set
* - Get Coupon By Title

**COMPANY COUPON DAO/DBDAO METHODS:**

* Get Coupons.
* Add Company Coupon
* Remove Company Coupon
* Delete All Company Coupons
* Get Company Coupons
* Get All Company Coupons

**CUSTOMER COUPON DAO/DBDAO METHODS:**

* Get Coupons By Type
* Is Bought
* Add Customer Coupon
* Remove Customer Coupon By ID
* Remove Customer Coupon By DBDAO
* Get Coupons
* Get All Purchased Customer Coupons By Price
* Get All Purchased Customer Coupons By Type

**THE FACED PACKAGE**

* Classes that give access to the coupon system, depending on the type of consumer . (Administrator, customer and company).

**ADMIN FACEDE**

* Create Company
* Remove Company
* Update Coupon
* Get All Companies
* Get Company By Id
* Get Company By Name
* Create Customer
* Remove Customer
* Update Customer
* Get Customer By Id
* Get Customer By Name
* Get All Customers
* Login

**COMPANY FACEDE**

* Create Coupon
* Remove Coupon
* Update Coupon
* Update Company
* Get Coupon By Id
* Get Coupon By Type
* Get All Coupons
* Get Coupons By Price
* Get Coupons By Date
* Login

**CUSTOMER FACEDE**

* Purchased Coupon
* Update Customer
* Get All Purchased Coupons
* Get All Purchased Coupons By Type
* Get All Purchased Coupons By Price
* Get All Purchased Coupons By Title
* Login

**THE EXCEPTION PACKAGE**

* Coupon Project Exception class extends Exception, throw Exception everywhere in the project by the Exception type.

**Coupon Project Exception - Basic Exceptions:**

* -Coupon Exception – for coupon exception.
* - Company Exception – company exception.
* - Customer Exception – customer exception.
* -Company Coupon Exception –company coupon join table exception .
* -Customer Coupon Exception-customer coupon join table exception .

**Coupon Project Exception - Login Exception:**

* - Access Forbidden Exception.
* - Admin Login Exception.
* - Company Login Exception.
* - Customer Login Exception.

**Coupon Project Exception - Activation Exception:**

* - Connectivity - Check The Connection To The DB Exception.
* - Connection In Use -Throw When Connection In Use.

**THE THREAD PACKAGE**

**Daily Expired Coupon Task:**

* - Run
* - Stop
* - Set Sleep Method

**THE COUPON SYSTEM PACKAGE**

* -Login
* -Shutdown
* -Set Daily Task Sleep Time
* -Create Data Base

**THE UTILLS PACKAGE**

**LOG UTILLS CLASS**

* -Init Logger Method

**UTILLS CLASS**

* -Execute Sql Command
* -Execute Sql Script
* -find Input Stream
* -Expand Environment Varileble– FOR THE SEPERATOR IN THE FIND INPUT STREAM METHOD

Phase One - The End

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