

## **Project Instructions:**

### **Project setup:**

**Database Version:** Microsoft SQL Server 2014 Management Studio

Microsoft SQL Server Database Connectivity requires the following:

- Download [Microsoft JDBC Driver For SQL Server](#) for Java (also sent by email)
- Extract the file to a desired location
- Copy the file: sqljdbc\_6.2\enu\auth\x64\sqljdbc\_auth.dll to the JRE\bin folder: C:\Program Files\Java\jre\bin – according to your Java version installed (32bit or 64it)

**Database creation:** In the package: database.main there is a Class: “MainCreateDB” which creates the database and all database objects (tables) – Run as Java Application.

**Database Login:** No need to provide credentials, the URL connection to the database is set to integratedSecurity=true". Make sure “Authentication” in SQL Server is set to “Windows Authentication”.

**Project URL:** <http://localhost:8080/Coupon.web/>

### **Admin Credentials:**

- Username: admin
- Password: 1234

### **Postman:**

Please fill in date in the format: “yyyy-MM-dd” as a URL parameter.

### **Project Notes:**

- Each service type (Admin, Company, Customer) has its own documentation via the “Documentation” button available after performing login. In the unlikely event that the button doesn’t open the files, the documentation for each Service type is also included in this document.
- Please fill in date in the format: “yyyy-MM-dd” in Postman (or the same format as returned in JSON) as part of the URL.
- Please fill in date in the format: “yyyy-MM-dd” on the website where End Date field is set to “Text” (Update Coupon), Otherwise, please use your system default date format.
- Recommended: Insert a valid image URL upon creating a coupon – not mandatory. Here are some relevant images’ links you can use:
  - Restaurant:  
<https://image.ibb.co/mFyfx/Restaurant.png>
  - Electricity:  
<https://image.ibb.co/k5S12c/Electricity.png>
  - Camping:

<https://image.ibb.co/iZdkTH/Camping.png>

- Health:  
<https://image.ibb.co/fO7C8H/Health.png>
- Food:  
<https://image.ibb.co/gJuENc/Food.png>
- Sports:  
<https://image.ibb.co/jPseoH/Sports.png>
- Traveling:  
<https://image.ibb.co/c5p3Fx/Traveling.png>

### **General Known Bugs:**

#### **Postman:**

- Some methods that produce a JSON of a coupon return a date in format: CurrentTimeMilles  
"startDate": 1548806400000, "endDate": 1580342400000,

#### **Web / AngularJS:**

##### **Date Format**

- Every query for a coupon (execution of a method that displays a coupon), throws an error to the browser. Despite the error, all the methods are executed successfully. This error is caused due to the necessity to convert a Date type object to a String.
- The date format received by Angular is of a Zulu format which the Resource is unable to handle. Therefore, I convert the Zulu type Date to a String.
- Conversion:

Zulu: "Wed Nov 11 2020 00:00:00 GMT+0200 (Jerusalem Standard Time)" or

"2020-03-08T22:00:00.000Z" -> String: "2020-11-11"

If I convert it back to a Date object from the String, the date returns to its original Zulu format.

- Reference: <http://errors.angularjs.org/1.6.6/ngModel/datefmt?p0=2019-12-31>
- Angular Documentation:

Error: ngModel:datefmt  
Model is not a date object

Expected `2019-12-31` to be a date

## Admin: Notes and Bugs

### Postman:

- No issues are known at this point

### Web:

- Per your request: The Get Company/All Companies/Customer/All Customers buttons do not return the password field
- **Create Company:** cannot create a new company by changing existing fields - must reset fields
- **Create Customer:** cannot create a new customer by changing existing fields - must reset fields

## Company: Known Bugs

### Postman:

- No issues are known at this point

### Web:

- **Create Coupon:** The Start Date field is to the left. The End Date is to the right
- **Get Coupon by ID:** If you submit a valid coupon and then change the ID while the coupon is displayed, the valid coupon remains and the ID is changed when clicking submit again - must reset fields
- **Get Coupon by ID:** Submitting form with ID field empty, doesn't return error message. Added IF/ELSE statement in AngularJS in order to resolve this issue
- **Get Coupon by ID:** Query for a non-existing ID doesn't return an error message due to a certain number that is saved as value in coupon.id – Checked it by printing to console. The source of that number is unknown
- **Update Coupon:** Submit an empty form does not display error message
- **Update Coupon:** An attempt to update a coupon with invalid fields doesn't display error message
- **Update Coupon:** When <input type=date> cannot update price alone (when email field is empty, must change both values at the same time for the form to be submitted) - Changed input type=text in order to resolve this issue – Please insert date in the format: “yyyy-MM-dd”

## Customer: Known Bugs

- No issues are known at this point