**Furniture Hub Ecommerce App**

* + This app has all basic features of selecting a product, adding it to cart and checkout, it doesn’t have payment gateway in original, instead of this it generates an invoice for user which we can assume that payment is done.
  + BEST VIEW MODE: ZOOM 100% OF YOUR BROWSER although it’s responsive too.
* Used Techs:
  + Spring
  + Hibernate
  + H2 database
  + JSR 303
  + Spring Security
  + Jackson
  + Spring web flow
* Project requirement :
  + 1)Eclipse
  + 2)H2 DB
  + 3)Internet
  + 4)Your awareness to run this project successfully
* How to run ?
* For running this project at your own machine you need to do a bit stuff.
  + Update as maven project -> this will download all dependencies into your workspace to run this project successfully.
  + You will have to create a folder with any name and use that folder in dispatcherservlet.xml with location attribute. It will help to show images from the folder into almost every page wherever the path is going to use for showing image.
* <mvc:resources mapping="/images/\*\*" location="file:///E:/project3\_images/" />
  + But before that point you will have to add admin entry into database in ‘authorities’ table as

|  |  |  |
| --- | --- | --- |
| [AUTHORITIESID](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [AUTHORITY](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [USERNAME](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) |
| 1 | ROLE\_ADMIN | [admin name] |

* and in ‘users’ table as

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [USERSID](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [CUSTOMERID](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [ENABLED](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [PASSWORD](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) | [USERNAME](https://192.168.43.181:8082/query.do?jsessionid=b40bc1d37c4de4542125bfbd912a0fc4) |
| 1 | 1 | TRUE | [password] | [username] |

* + Login as admin after running this project, now you need to go to admin page after clicking on admin tab and click on product inventory, now add products into your project with asked essentials, every product image will be saved into your location of project image folder with the name of productId and that productId will be used to get image on jsp.
  + Try to register as user, required format and patterns have been set, in this form user details with shipping and billing address been asked while registering.
* How project works :
  + Select a product click on ‘buy’ it will move to viewProduct page from there you can add it to cart or cancel it, if added to cart it will added to cart.
  + You can go to cart and can remove, cancel, clear cart or if you want you can check out the cart.
  + When you click on checkout then project will now move into beautiful spring webflow where you will get an xml file for having transition of pages and checking validation and expression, it will show you user details which you can’t change, billing details can change, shipping details can change.
  + Here jquery been used to see that no input box is left blank , here user can change address ,but that address will be for invoice only , no persistence added with webflow , so be aware with this.
  + After crossing webflow you can submit order this will be the last portion of this project.
  + Used direct cdn so internet is prime requirement.
  + This project is annotation driven, so annotations are playing vital role for running this project.
  + Used hibernate to generating entities and queries by themselves.
  + Used H2 database for storing data.
  + File upload been used to upload files into a folder externally, although it can be done in images folder of resources but when server restarts it will remove all added images ,so it would not be beneficial.
* How webflow works :
  + The time you click on checkout button you enter into the state of webflow , here first ‘checkout-flow.xml’ will run this file will responsible for the webflow.It has got action state and view state which will direct user to move into pages .
  + Used angular js for creating controller of webflow , so a bit knowledge of angular js is also required
  + If checkout will cancel it will call ‘checkOutCancelled.jsp’ page, else it will go for ‘collectCustomerInfo’ then ‘collectShippingDetails’ and then ‘orderConfirmation’ if not cancelled then ‘thanksCustomer’ .
  + If you try to add product into cart without login then it will simply show ‘some issue’ kind of alert box.
  + Here JSR 303 is used for model validation in webflow.for that you need to add this dependency

**<dependency>**

**<groupId>javax.validation</groupId>**

**<artifactId>validation-api</artifactId>**

**<version>1.0.0.GA</version>**

**</dependency>**

* How project flow works :
  + It follows a basic Spring MVC architecture using DAO pattern where controller will responsible for redirecting request.
  + Project starts with home page where you can click on any pic and will redirect to product list page or you can login or register or any other reside option in project.
  + Can select any product and buy it, rest process already discussed above.
  + While doing registration it calls customer model and in it billing address and shipping address named model (ignore spaces in names)
  + For detailed/dynamic description you can follow comments written in project