Reverse Auction using Spring

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Database Design:

* I’ve used four tables in my database
* I’ve changed RegisteredUser to use email as primary key and role to use a generated id.
* This RegistererdUser table has columns for userEmail, name, phoneNo, password, and enabled to show whether the user account is enabled or not.
* The second is a job table which has columns for jobId, name, description, date, userEmail (creator) and open which is either true or false depending on whether a job is open or closed.
* The third table is called bid and has columns for bidId and amount, userEmail (bidder) and jobId.
* The last table is called role and stores roleId, description and userEmail. Every user should have a role and is given one when registering. The default role is REGISTERED.

Important notes:

* All necessary fields are required to be filled client side and binded after side. @Email, @NotNull and @Size are used.
* Bids are validated using my isValid() function in the BidControllerImplementation.

Pages:

1. Home:

Self-explanatory

1. Login:

Login using a valid username and password. Feel free to use mine: [test@gmail.com](mailto:test@gmail.com), test. Entering an email or password wrong or trying to login to a disabled account triggers a generic error message. The account: [disabled@gmail.com](mailto:disabled@gmail.com), disabled demonstrates this. Both users are created in DataLoader. Once logged in the login and register links are replaced with logout and the users email appears in the top right.

1. Register:

Register requires a user to enter an email that isn’t already on record. All other data can be duplicates of other records. Validation is performed client side and binded.

1. View jobs:

Does not require login. View a list of open and closed jobs, the creator of those job, current highest bidder and place a bid by clicking “Place Bid” unless that job is closed. Bid history for a job can be checked by clicking “Bid History”.

1. Bid:

Fields are required client side. Bids are binded and validated using my isValid() function in the BidControllerImplementation. This function verifier that the amount is greater than or equal to 0, the job is still open, and you are not the owner of this job. Otherwise a generic error message is displayed. To turn off client-side validation get rid or “required” for that field in the corresponding html file.

1. Create Job:

Fields are again required client side and then binded and verified after submission of that request to the JobController. Jobs can be duplicates or another job as their autogenerated id will be different (Might be controversial but I think two of the exact same job can exist).

1. Logout:

Self-explanatory

Consumer Pages:

1. Home:

Self-explanatory

1. Active Jobs:

Display a table of all currently active jobs. All fields are displayed except user details and whether it’s open or not. They’re all open. This is to prevent circular dependencies.

1. View Bids:

A form requires the user to enter the email to search for their bids. Once validated shows a table with bid id and amount. Doesn’t show job details or user details (user is known anyway). This is to prevent circular dependencies.