

# auction-management

This is an e-auction service. This is developed by using Java 15, spring boot microservice, MongoDB, MariaDB, RabbitMQ, and Axon. It has the following microservice:-

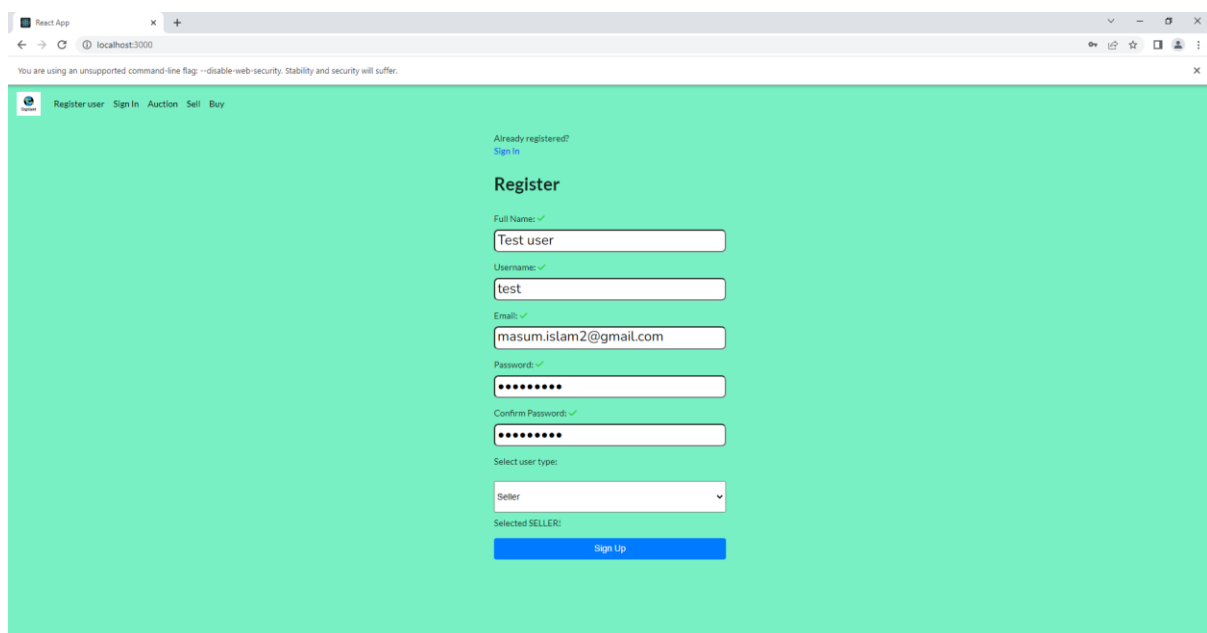
1. auction.user.signup to signup user to use e-auction service.
2. product.cmd.api for the CQRS patterns command
3. product.query.api for the CQRS patterns query
4. product.scheduler to run a configurable scheduler that checks the winning bid and notifies the winner by email.

The frontend is done by ReactJs 17.

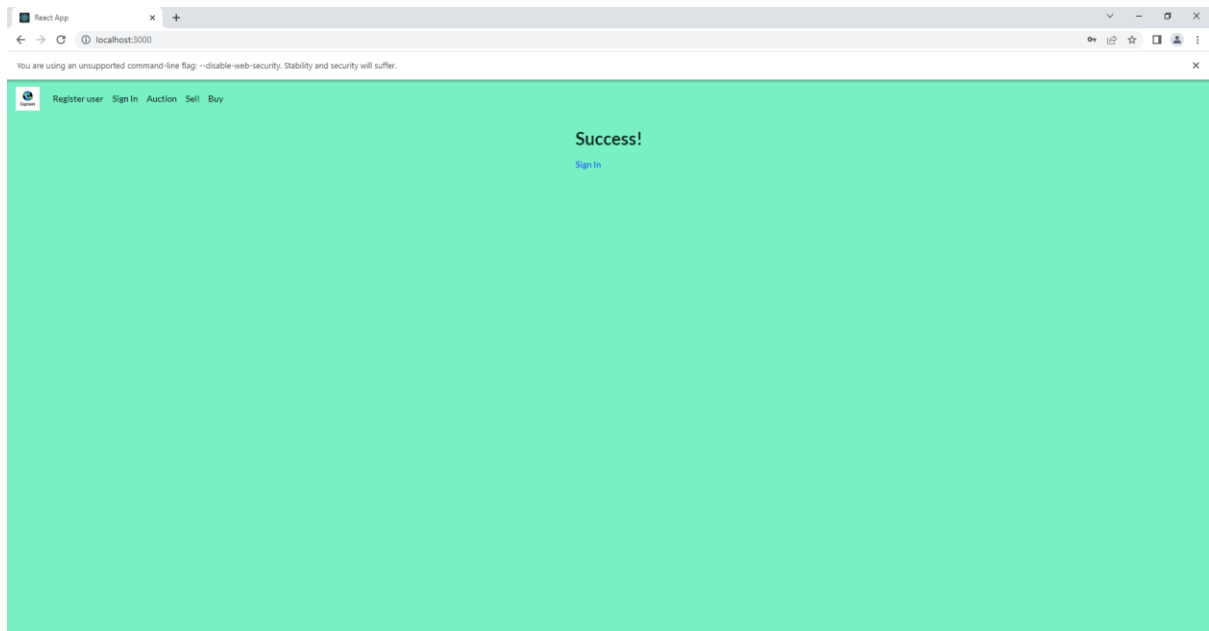
I deployed this on the IIHT's AWS. It was running for several days there. Eventually my AWS credit ran out and it is not accessible anymore. So I was asked to make this document. Also, I will demo it to the panel.

Index page:-

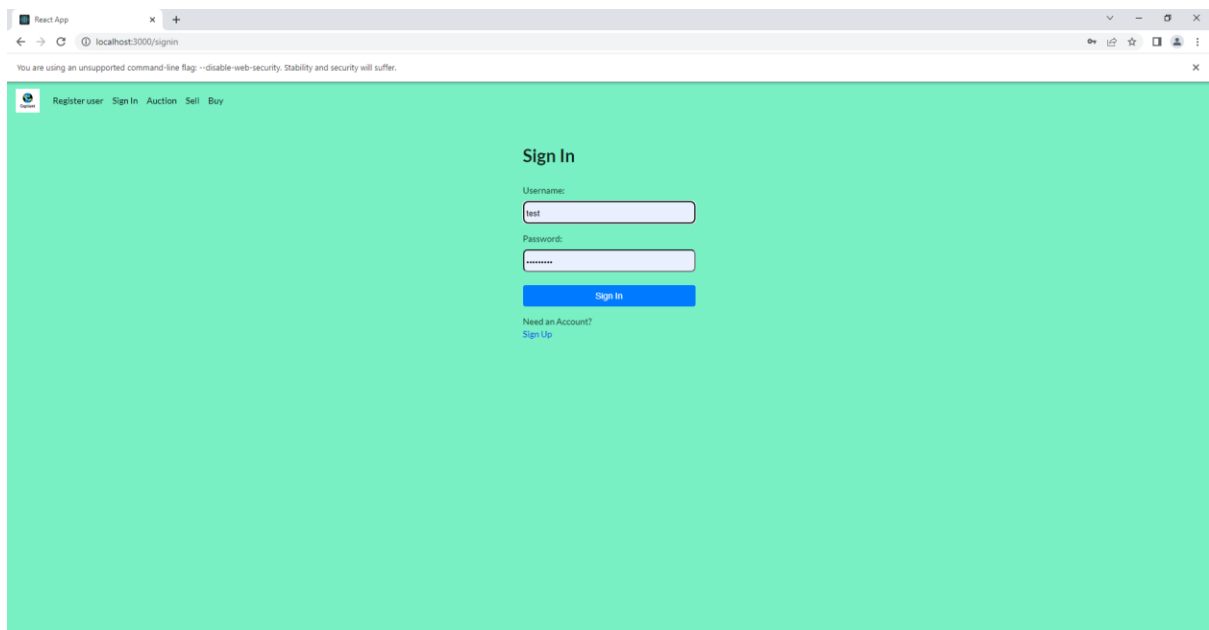
User must signup for this service either as buyer or seller. Certain user can access certain pages. I will explain later this user role restrictions and other details. User must provide a valid email address. This service will send email to the user.

A screenshot of a web browser displaying a React application running on localhost:3000. The page has a teal background and a navigation bar at the top with links: Register user, Sign in, Auction, Sell, and Buy. The main content area features a registration form titled 'Register'. Above the form, there is a link for 'Already registered? Sign in'. The form includes input fields for 'Full Name' (with a green checkmark), 'Username' (with a green checkmark), 'Email' (with a green checkmark), 'Password' (with a green checkmark), and 'Confirm Password' (with a green checkmark). The 'Email' field contains 'masum.islam2@gmail.com'. Below the password fields is a dropdown menu for 'Select user type:' with 'Seller' selected. At the bottom of the form is a blue button labeled 'Sign Up'.

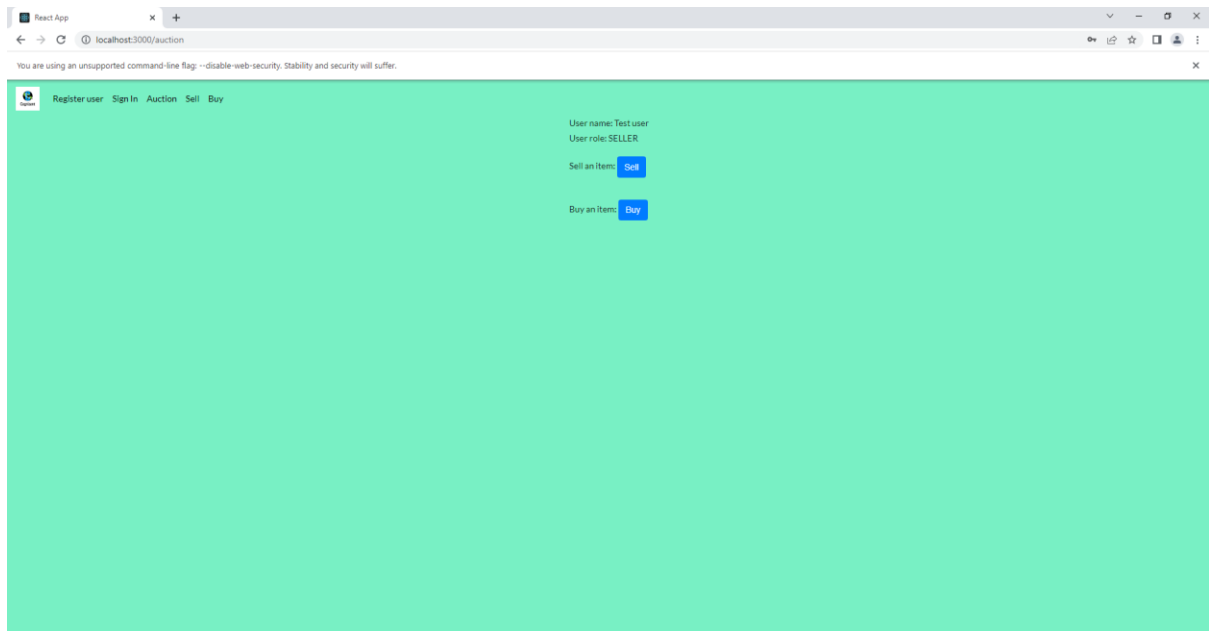
After the click of Signup button it shows this page:-



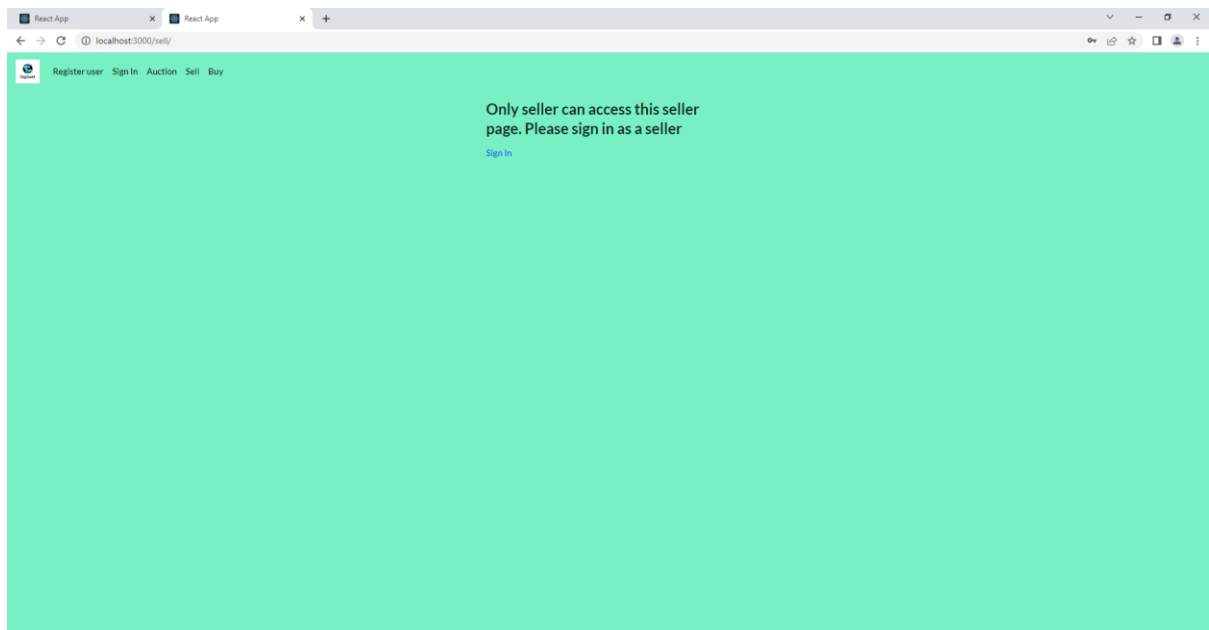
Then the user can log in by clicking Sing in:-



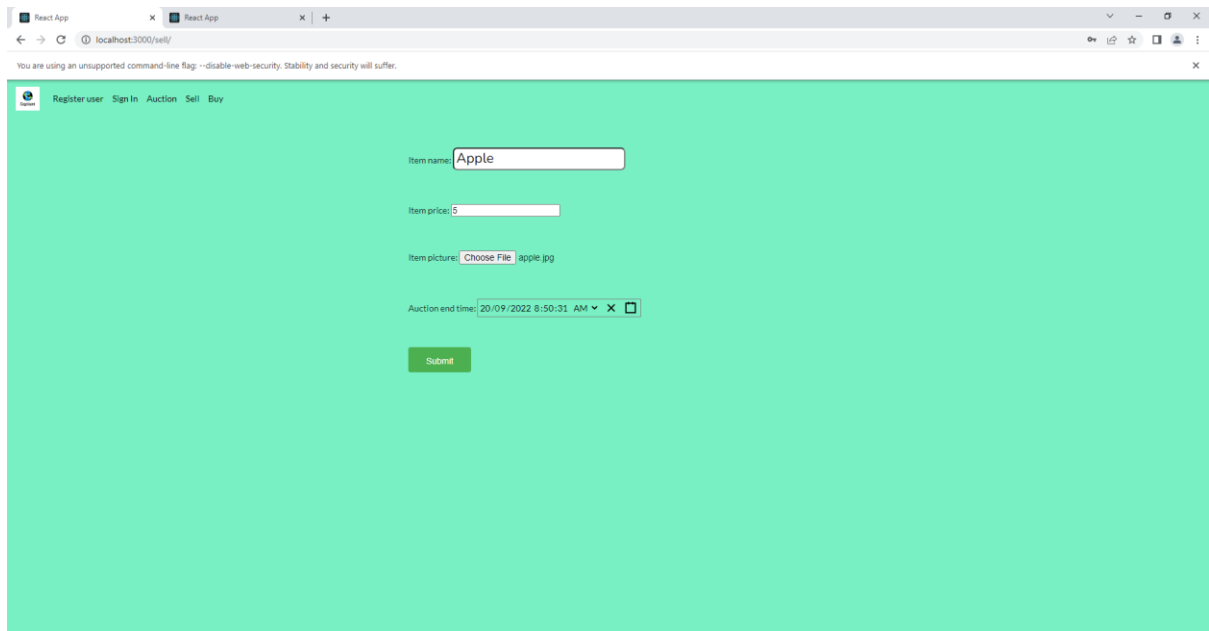
As soon as sing in it show this page with the user full name and role below. Here the buyer can't access sell an item page for the lack of buyer limitation to sell.



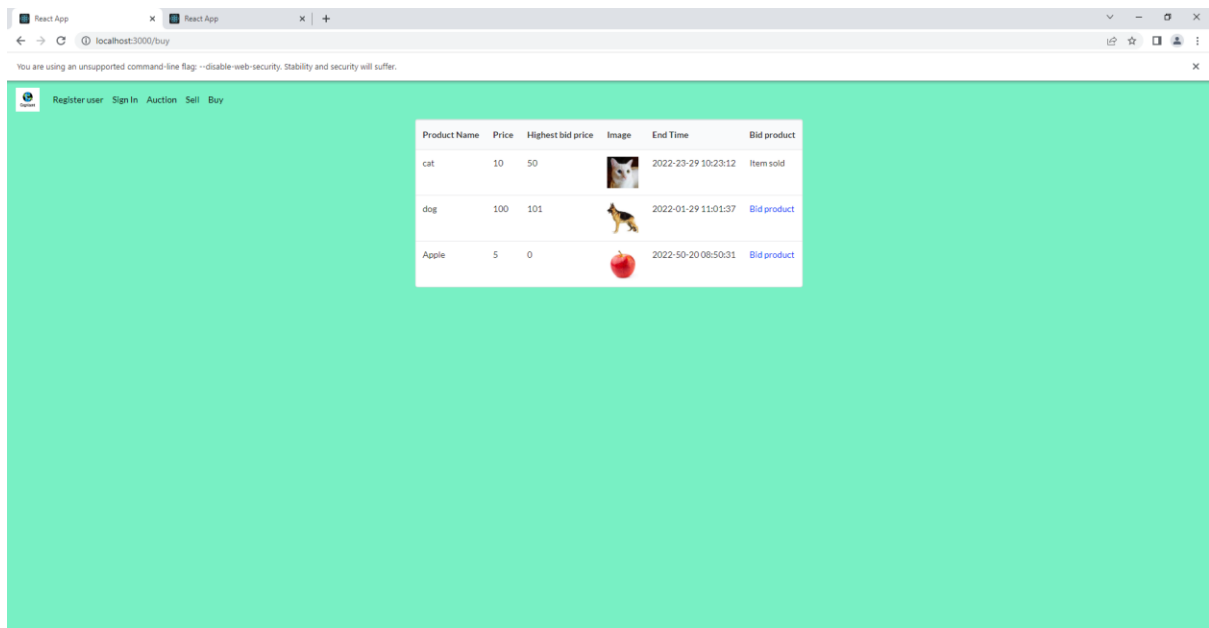
If any buyer wants to access sell time page, he gets following warning:-



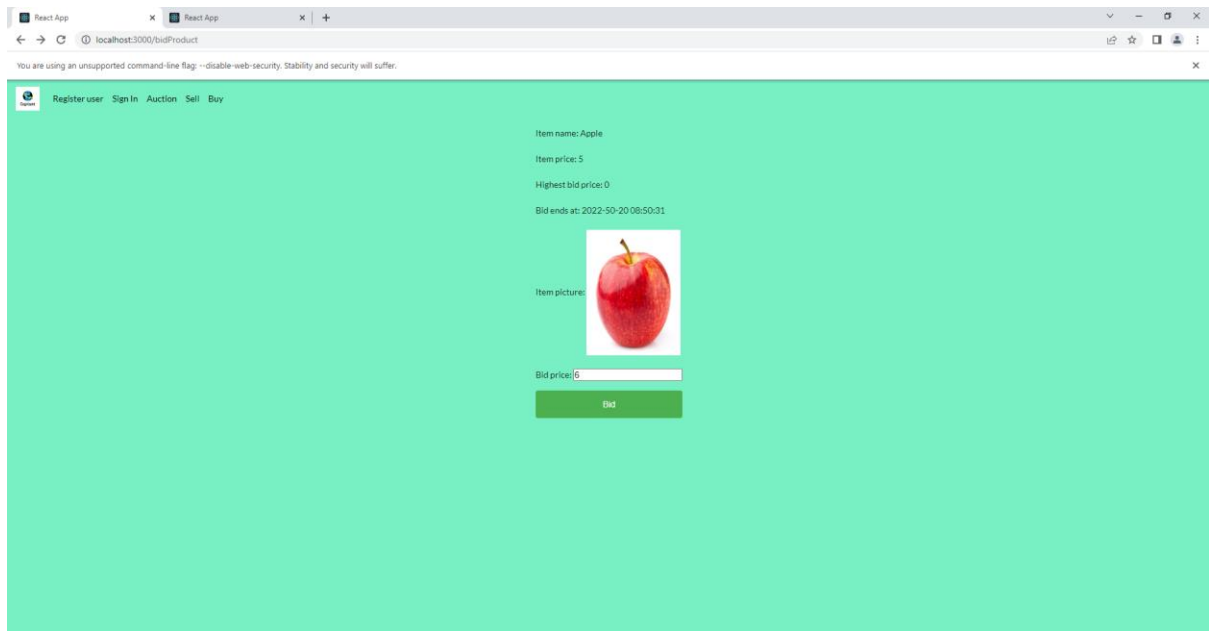
Seller have to fill this page to sell an item. He must Auction end time. After the end time reach it will check the highest bidder and send the bidder a winning bid emial and ask him to buy the item. In the backend a springboot microsercie as schdurler and check database for the auction end time. As soon time expires, it will send email to the heighest bidder.



After submit button clicked it shows list of time for this acution. It will show



Buyer can bid by clicking Bid product link. He has to give the price more than the asking price.



After the bid it will show this page:-

