

GoldenAuctions

Objectives of the project

The main goal of this project is to provide users a way to take part to online auctions. It allows you to try to win auctions, inserted by other users or the managers of the application, based on varying different objects. Furthermore, every user needs to sign up with his credential to take part in the auctions. The registered user can access a page containing all the auctions in which he is participating and another one with all the auctions won. The available auctions are managed in real time by a worker and many users can take part in them.

Technologies

- Front end: ReactJS
- Server: Nodejs
- Docker to encapsulate our microservices
- RabbitMQ to manage asynchronous interaction
- MySQL persistence storage
- GitHub to save and deploy

System functioning

Since there could be a lot of users that want to participate to the auction, the idea is to assign the management of it to a certain worker that will take the request and interact with the database independently from other auction. So, we need a queue from which the workers take the requests, and this ensures a primitive load balancing between jobs.

Potential user and use cases

Potential user:

- Someone who wants to take part of an auction, with the convenience of doing it from home or other comfortable places, without physical attending it.
- Someone who wants to sell items in a fast and easy way.

Use cases:

- User registers to the system
- User logs in to the application

- User accesses the home page to visualize the current available auctions
- User follow an auction
- User participate to an auction
- User create his own auction
- User manage his profile
- User logout
- User deletes the account