**E - Auction App**

**Project Scope:**

To create an online auction application where users can live bid online. The application can be made either as Web Application, Mobile Application or Desktop Application. There is 2 entities User and Admin.

**Required Features:**

* Admin and User should be able to login through app.
* Admin should be able to create auction events.
* All the auction items should be able to added/updated by the admin.
* Admin should publish auction catalog containing items that are going to be auctioned with starting bid price.
* Start the auction at the designated date and time.
* User should be able to bid only when auction starts.
* They should be able to know the current highest bidder.
* They should be able to add their own bidding price.
* If no one bids for 10 seconds then consider the item sold to the highest bidder.
* Once an item sold, repeat the process with next item until all items are sold.
* Winning bidder should get message about his win and ask for payment.
* Use multithreading during auction event.
* Admin should be able to view the report containing items sold to whom and what price.
* Create a good UI for good user experience.
* Plan a good architecture pattern for the project.
* Provide security for project.

**Suggested Stack:**

1. **JAVA Track:**

* Java 8
* Angular 6+
* Maven
* Spring Boot 2.x
* SpringREST
* Spring Data JPA
* Postman
* Oracle/Postgres
* JUnit 5/Mockito
* Sonarqube
* JACOCO

1. **.NET Track**

* C#
* Asp.net
* EntityFramework
* Angular 6+
* MSBuild, MSTest/NUnit,
* SQL/MySQL/Oracle/Postgres