

A dark blue vertical bar on the left side of the page. A blue arrow points to the right from the bar, containing the date.

9/16/2022

EAuction Project

Front-end Angular Application

Several thin, curved lines in dark blue and light grey originate from the bottom left and curve upwards and to the right.

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1. Introduction

1.1. Purpose

This document provides a comprehensive front-end development and UI overview of the EAuction project. It is intended to capture and convey the significant decisions made and technologies used in the system.

2. Front-end Design and Implementation

2.1. UI Diagram

**EAuction Seller Center**

Select Product View

Product Information

Short Description	P0001
Detailed Description	Product 1
Category	PAINTING
Starting Price	\$10.00
Bid End Date	25/12/2022 23:09

Bid Amount	Name	Email	Mobile
\$30.00	Mary Hilton	mary@g.com	1234567890
\$20.00	Wendy Watson	wendy@g.com	1234567890
\$10.00	John Jane	john@g.com	1234567890

2.2. UI Implementation

EAuction project will be developed by using Angular and Bootstrap framework. Front-end application will call the rest endpoints exposed by API Gateway, which then call spring boot microservices for retrieving product and bid information.

The application will mainly use interpolation for content binding as it is always escaped. In addition, Content Security Policy (CSP) will also be turned on as a further defense-in-depth technique for XSS injection attack.

In order to improve the performance, the application will load JQuery from CDN to faster serve the library. JQuery and Bootstrap minified version will also be used to speed up the website.

2.3. Technologies used

The following are the technologies used in Frontend Angular Application.

- Angular14
- Bootstrap for styling
- Jasmine for unit testing
- Karma for test runner
- Cypress for end-to-end testing
- Code coverage generation and report
- Webpack for packaging the application