Tradie Project Bid Craft Exercise

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You are working on a feature as part of a Project Bidding application for self-employed tradespeople.

Background

Using this application, customers post projects with requirements including a description of the work, the number of hours expected, and the last day and time for accepting bids.

Tradespeople then bid to work on these projects using either a fixed price or hourly basis.

The tradesperson with the lowest bid for the project wins when the deadline is reached.

Programming Problem

This is an open-ended exercise. At minimum your solution should -

1. Code a routine to accept valid project bids from tradespeople

2. Code a job using the Spring framework that is triggered based on the deadline of projects to print winning bids.

The projects and bids data will be stored in a database. For this exercise, you can use hard-coded mock data.

Using Unit Tests, terminal output or similar demonstrate how winners are determined for a project.

Non Functional Requirements

* To handle 50,000 registered customers.
* On average, 100 projects are posted every day.
* On average, each project receives 50 bids.

Expectations

The goal is to demonstrate how well you design a feature with limited requirements.

You will be asked to present not only the working feature but also the raw code behind it.

You will be asked questions on how the solution could be scaled under different scenarios

You are also expected to explain the rationale for your choice of coding approach and architectural patterns.