

# BarKet: The Mini Stock Market

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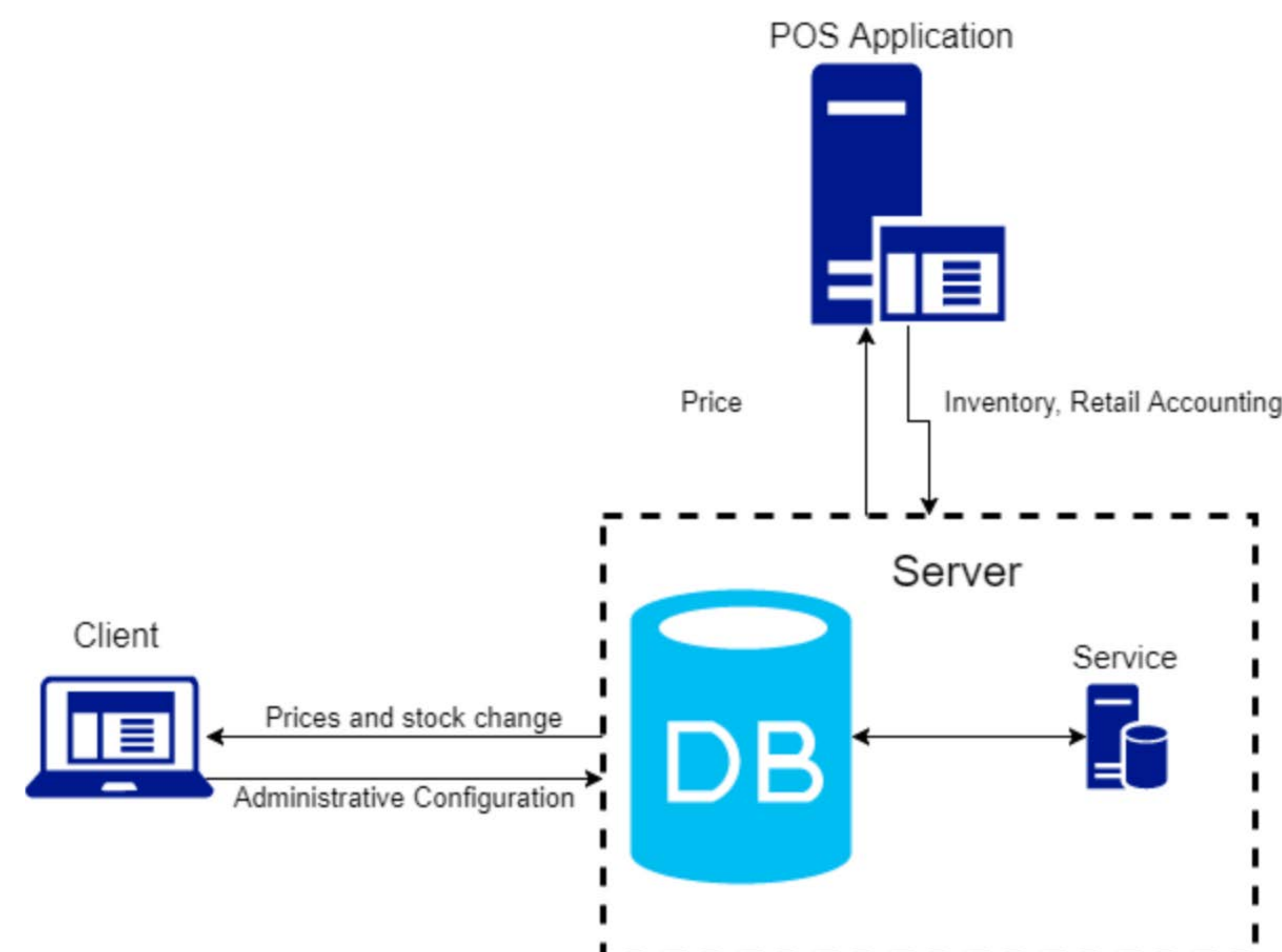
## Description & Purpose

- The premise of BarKet is that the bar is a stock market. Products sold are grouped by item type (e.g. wine or beer). Each group has a margin to hit and a variance variable, which will determine the amount of change in pricing of the items. Based on these values and the amount of items purchased the pricing of items will be dynamic based on supply and demand principles.
- BarKet provides bar patrons with a novel and exciting experience to play the market and get the best price for drinks.
- Bar owners will be able to attract patrons to the bar with this interesting software. Based on our algorithm they will also capitalize the most on their stock and push items that would normally just sit on the shelf.

The Hawk 28:45

NAME	PRICE	CHANGE
beer2	\$4.25	0
beer1	\$4.55	0
beer3	\$1.47	▼ -0.3
wine1	\$6.61	▲ 0.15
wine2	\$6.61	▲ 0.15
wine3	\$4.34	▼ -0.15
liquor2	\$6.05	▲ 0.1
liquor1	\$6.48	▼ -0.1

## Design



## Ethical & Intellectual Property Issues

- The goal of our project is to increase the profits of the bar owner through novelty and to ensure that their stock moves evenly and quickly. Because this goal is making a game out of alcohol consumption it could potentially facilitate overconsumption. However, the type of people that over consume would be a small subset of the patrons. Thus there is only a negative utility for a few patrons and a very beneficial utility for bar owners. The other patrons get nearly no utility from this software. BarKet passes the utilitarian test.
- The concept we are creating has been done before and therefore opens us to risk from intellectual property complications. There is currently a group based in the United States called Drink Exchange who is also applying a stock market concept to bars. The algorithm we intend to utilize is based on well-known economic principles and therefore does not fall under intellectual property. We also doubt that our tech stack (made from scratch) will can any identical competitor implementation.