Package 'bullwhipgame'

July 22, 2025

Type Package
Title Bullwhip Effect Demo in Shiny
Version 0.1.0
Author Marlene Marchena
Maintainer Marlene Marchena <marchenamarlene@gmail.com></marchenamarlene@gmail.com>
Description The bullwhipgame is an educational game that has as purpose the illustration and exploration of the bullwhip effect, i.e, the increase in demand variability along the supply chain. Marchena Marlene (2010) <doi:10.48550 arxiv.1009.3977="">.</doi:10.48550>
License GPL-3
Encoding UTF-8
LazyData true
Imports shiny
NeedsCompilation no
Repository CRAN
Date/Publication 2018-01-09 11:31:21 UTC
Contents
bullwhipgame
Index
bullwhipgame Bullwhip Effect Demo in Shiny

2 bullwhipgame

Description

bullwhipgame is a Shiny app to illustrate and visualize the bullwhip effect, i.e, the increase in demand variability along the supply chain. The game simulates the distribution process of a single product that uses a four stages supply chain: reailer, wholesaler, distributor and factory. The members of the supply chain need to meet customer demand with minimal shortage situations and inventory cost, while satisfying service level requirements. All participants use the same inventory replenishment policy, forecast method, delivery lead time and service level. Holding and shortage cost are fixed and information sharing and cooperation is not allowed.

Usage

```
bullwhipgame()
```

Value

Nothing

Examples

```
if(interactive()){
  bullwhipgame()
}
```

Index

 ${\it bullwhipgame}, \\ 1$