

Pricing Algorithm Simulator

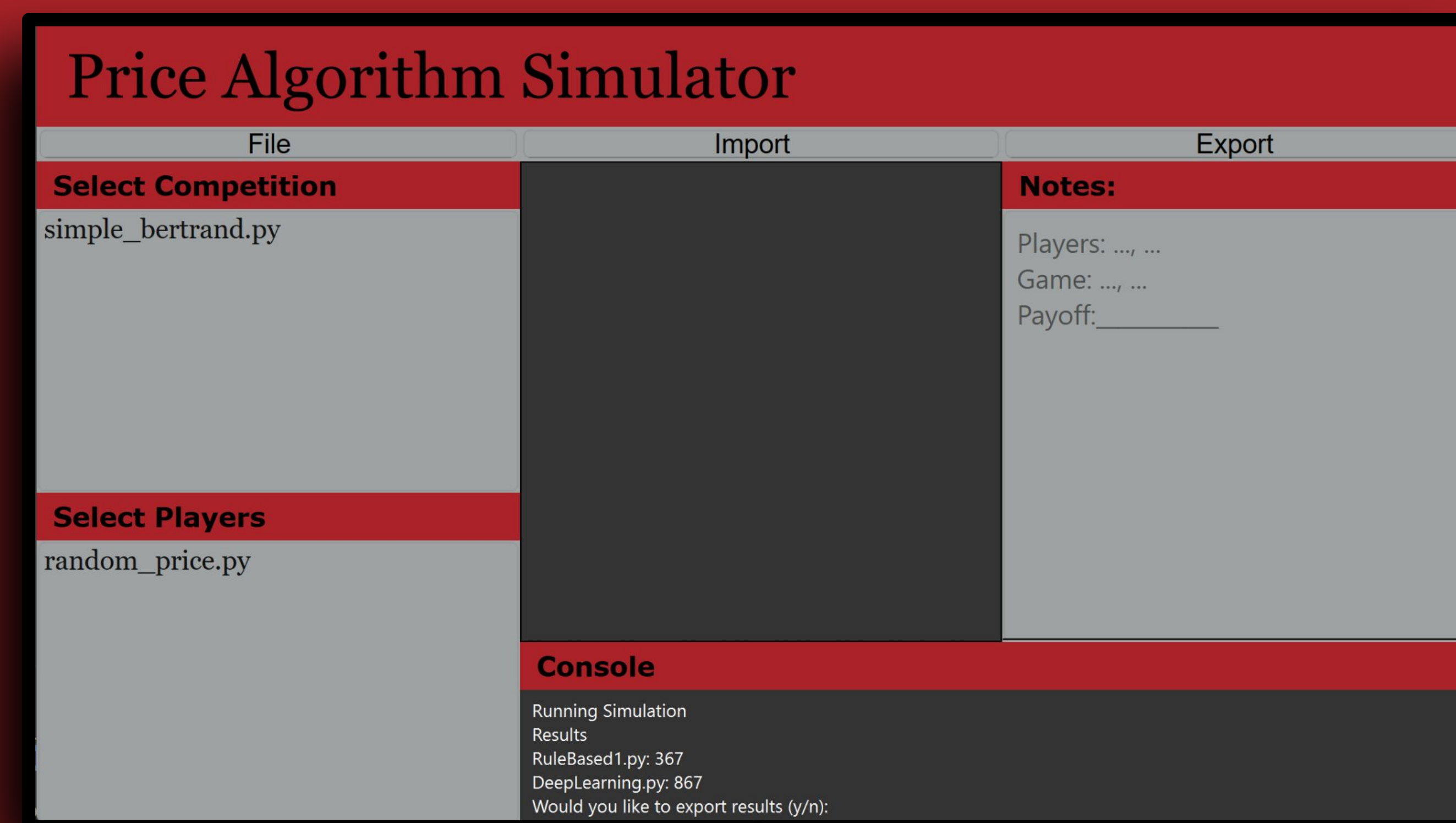
Liam Beresford

Background

- Pricing algorithms are used across industries to set product pricing
- Current literature has shown “Algorithmic Collusion” to occur

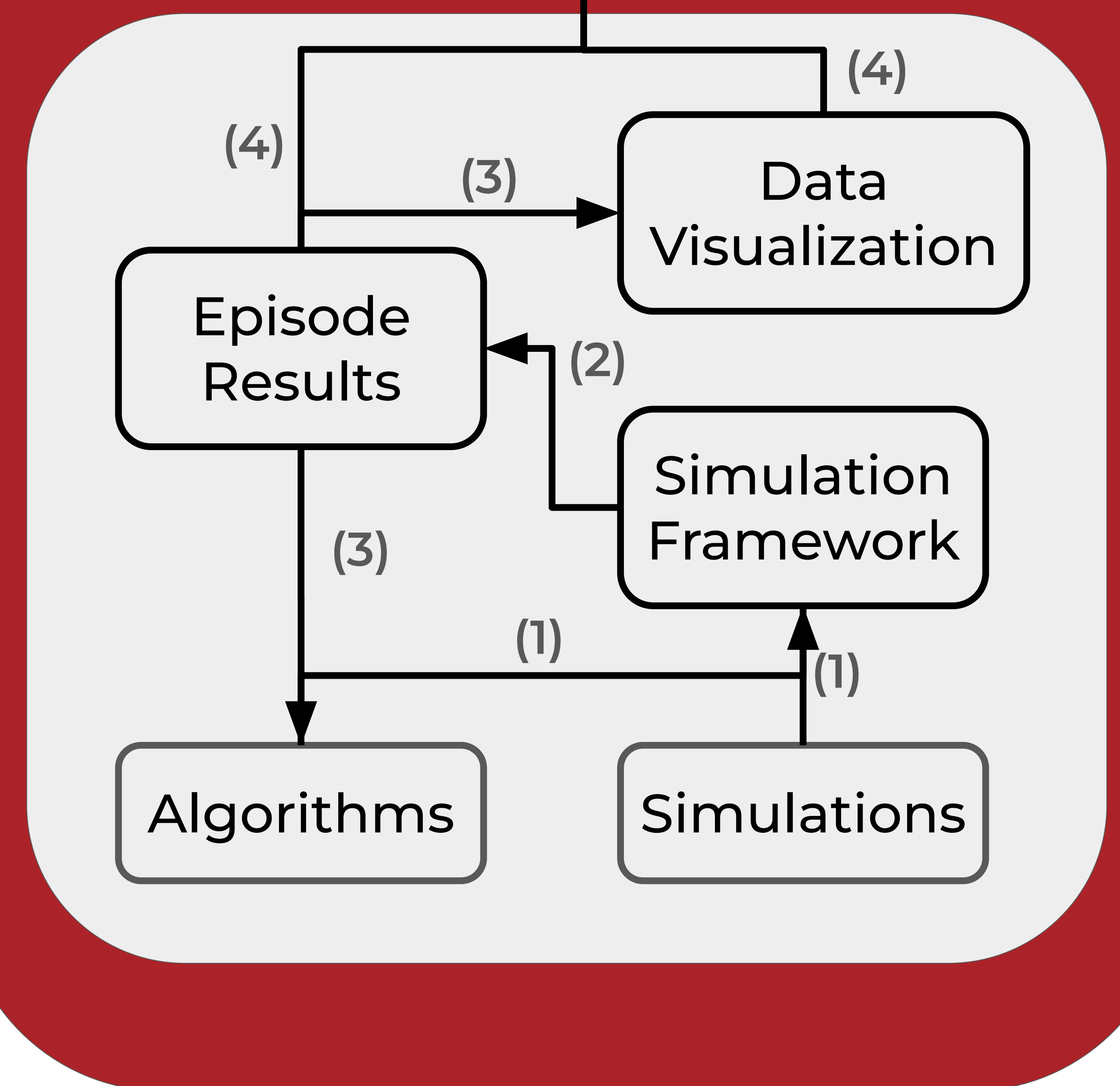
Project Goals

- Simulation software for algorithmic testing
- Ability to test for competition and collusion
- “Plug and Play” design with custom uploads
- Clean data exportation and visualization



Results

- Complete
 - App Design
 - GUI
 - Simulation Library
- In Progress
 - Code Upload
 - Data Visualization



Future Features

- Develop Simulations and Algorithms for testing
- Finish Data visualization during simulation
- Data exportation in different file types
- Create Docker Image for application portability

Tech Stack

Python

PyQt6

Numpy

Matplotlib

Docker