Junior Programmer: Programmer Theory in Action

Project brief

Application concept

Overview

In this project, I will implement functionality for a farming resource management experience.

The basic functionality will be:

- User interaction, to enable them to influence the simulation
- Transitions between scenes, to enable further customization by the user
- Systems designed for extension, to increase the complexity of the simulation

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Task checklist

Here's a high-level checklist of what I will do in this project:

Scene management

- Create transitions between two scenes: main menu and game screen.
- Configure buttons so the user can control those transitions: different buttons to play the game start it or exit it.
- Buttons to control the whole game.

Data persistence

- Difficulty setting
- Money

Inheritance and polymorphism

• Create food class which holds different types of food with same functionality of giving seeds, giving hunger and different functionality of growth time, sell value, hunger value.

Abstraction

• GiveHungerOnEating(), GiveMoneyOnSelling(), Grow()

Encapsulation

• The hunger values, growth time, sell value need to be encapsulated

Optimizing code

• Removal of redundant code in attempt to improve performance.