

Project 6 Update

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GitHub Link: <https://github.com/ColoradoRequiem/OOAD-Final/tree/main/src>

Work Done:

We split up the work on this project into the architecture team (Thomas) and the UI team (Nathan). As the majority of our code revolves around the traversal of islands the architecture team focused initially on creating the Decorator pattern for each event on the island. Once done, functionality of Actions were added using an Abstract Class. This then lent itself to a Strategy pattern for Requirements. This allowed actions being available only at certain times or for certain people.

The UI team (Nathan) focused on familiarizing themselves with the Java Swing library in order to create a UI with implicit understanding of its functionality (buttons where people expect and a sleek interface).

Changes of Issues Encountered:

The decorator pattern went more or less how we expected. A few key differences, not issues, we ran into included the description of events from other angles (North, South, ...) saved as parameters in that event. This way, at run time, your current event can still give you information about another. This extended to being able to bar traversal to certain events as well via a saved 'movableRequirement' in each event as well.

Patterns:

Decorator: Island Events - BasicLand, BasicWater, Coast, Cliff

Strategy: IslandType - Star

Abstract Class: Action - moveNorth, moveSouth, moveEast, moveWest, actionAdmin

- Used in both Islands and likely outside

Strategy: Requirement - CliffRequirement, NameRequirement

- Used in both Islands and likely outside

- Implement full game flow from menu (Main menu->Sea navigation->Island exploration)
- Crew Items and Jobs
- In depth Events that give Crew or Items
- Requirements for special events