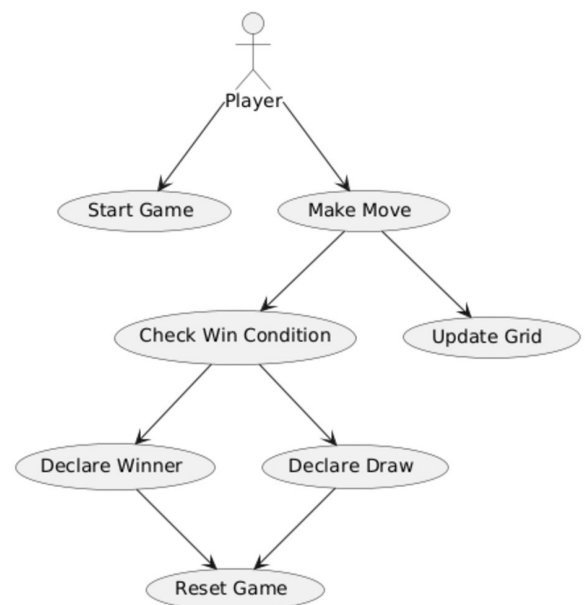
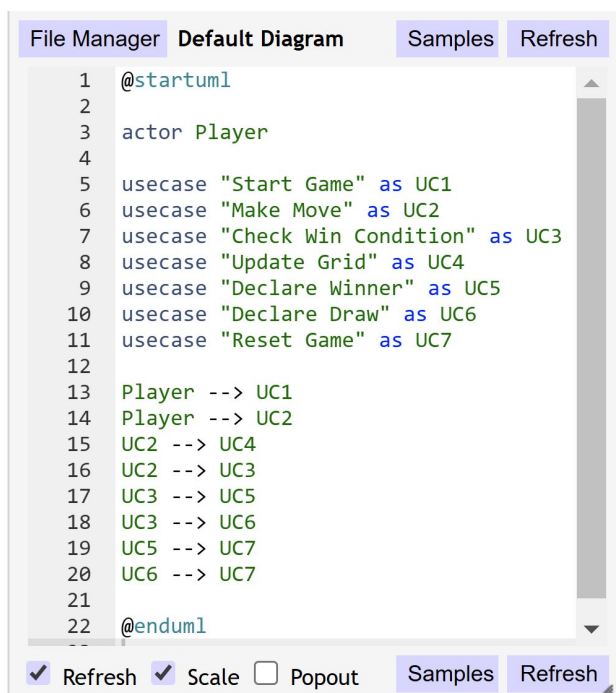
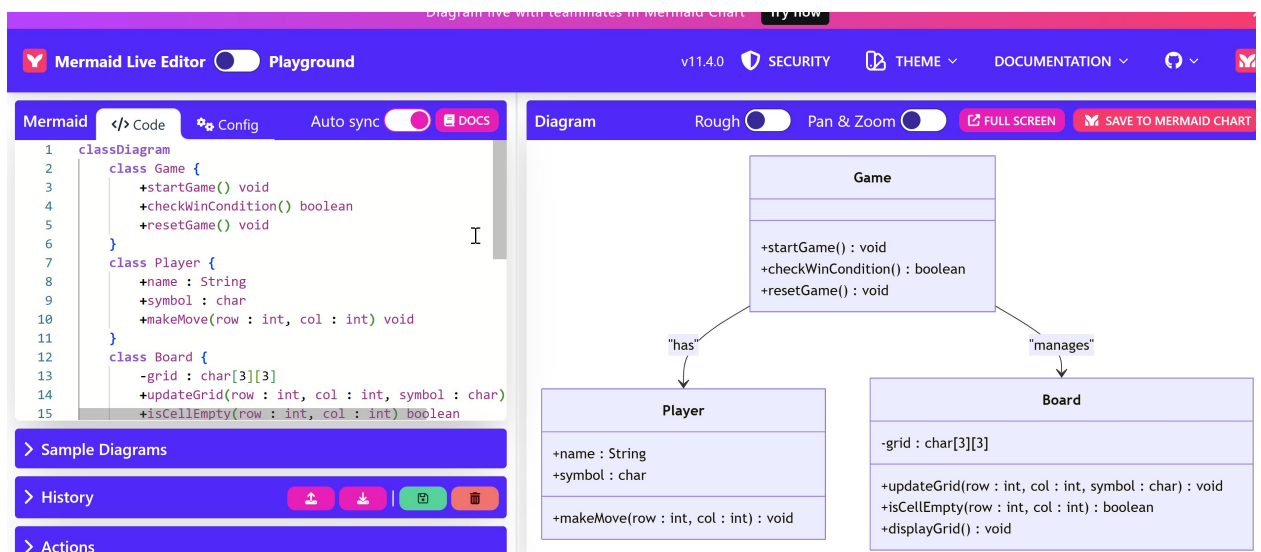


Minimum Requirements for a Tic-Tac-Toe Game

1. The game must allow two players to participate.
2. Players take turns marking their symbols (X or O) on a 3x3 grid.
3. The game must determine when a player wins by forming a row, column, or diagonal of their symbols.
4. If the grid is filled without a winner, the game ends in a draw.
5. The system should display the current state of the grid after each move.
6. The game should reset to allow a new match once it ends.
7. The system must validate that players can only mark unoccupied cells.



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Pros and cons of OOAD

Advantages

Focuses on data rather than the procedures as in Structured Analysis.

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It allows effective management of software complexity by the virtue of modularity.

It can be upgraded from small to large systems at a greater ease than in systems following structured analysis.

Disadvantages

Functionality is restricted within objects. This may pose a problem for systems which are intrinsically procedural or computational in nature.

It cannot identify which objects would generate an optimal system design.

The object-oriented models do not easily show the communications between the objects in the system.

All the interfaces between the objects cannot be represented in a single diagram.