

OUR TEAM

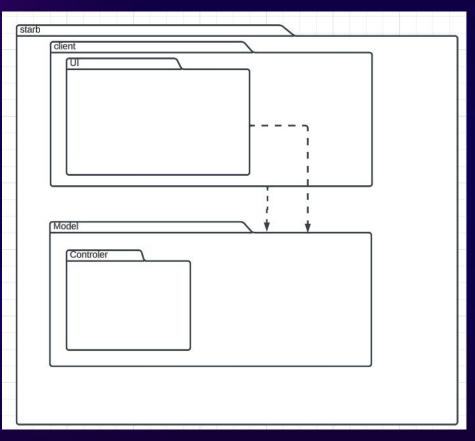


Vincent Allen Sison '\





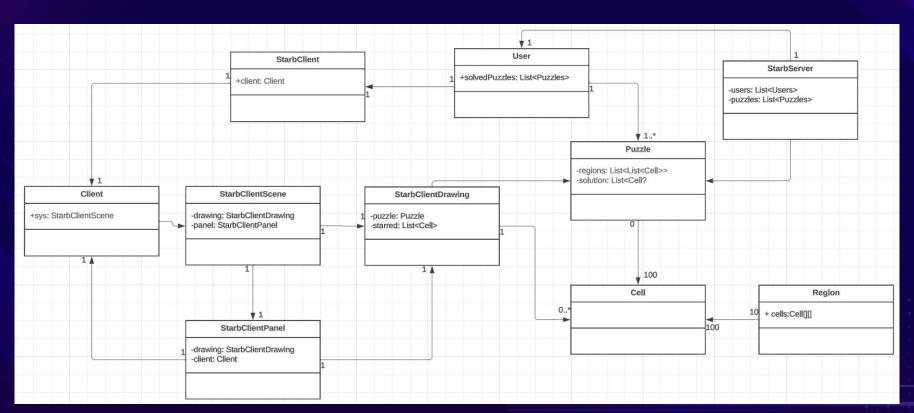
Package Diagram



Layers:

- 2 Layers: Client Layer and Model Layer
- Used layers to separate the Client and Server
- UI can access the controller,
 but not the other way around
- Less coupling as it keeps classes separate and prevents interaction between client and model





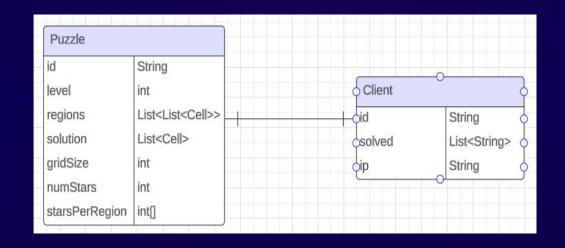
Database Design

What Collections did we use?

- Puzzles
- Client

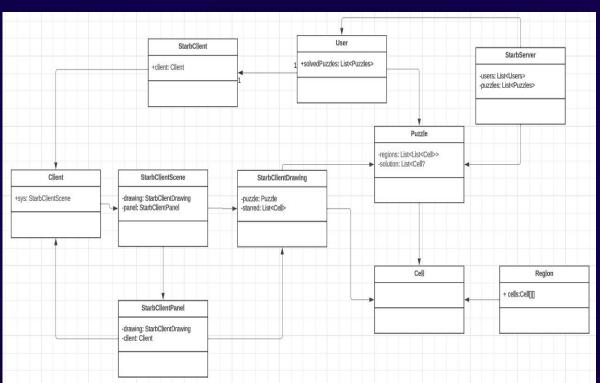
How were they mapped to objects?

• The Puzzle and Cell classes are mapped to JSON using Jackson annotations.



How did we implement our design to support future changes?

Supporting Future Changes



How?

- Create separate classes to handle different aspects
- Different Classes = Easier to manipulate
- Made sure that one object doesn't call on multiple classes
 - Less Coupling
 - High Cohesion
- Separate Client and
 Model = less
 interactions

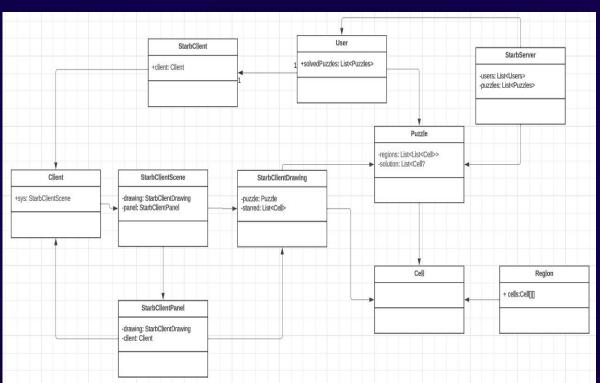
Supporting Future Changes

How?

- Less Coupling:
 - Makes objects reusable
 - Easier to call
- High Cohesion:
 - Code is easier to understand
 - Documentation is easier and changes are faster to make.

```
In Our StarbClientDrawing:
private Puzzle puzzle;
public List<Cell> starred = new ArrayList<>();
Some parts of our removeStar method:
if (starred.contains(new Cell(row, col))) starred.remove(new Cell(row, col));
puzzle.updateStarredRegion(new Cell(row, col), i: -1);
isOccupied[row][col] = false;
cols[col] -= 1;
rows[row] -= 1;
```

Issues for future Changes



Issues:

- Could lead to high coupling
- Since most of the classes are connected, it's possible to call on a class through another class
- High coupling = low cohesion
- Only a possible issue, not a big issue

Our Process

What was our initial process? (Iteration 1 Process)

- 1. Meet at the beginning of each iteration
- 2. Made tasks for each person
- 3. Work on our tasks
- 4. Meet 1 more to give updates.
- 5. Push to repository in final day

Issues with the Process

- We didn't meet as much as we should have.
- Tasks weren't handled properly
 - Tasks and code clashed with each other
- Worked separately, only together towards the end
- Rushed to finish

Final Process(Iterations 2-4)

___/ DAY 2

DAY 1

First Meeting:

Assign tasks

Second Meeting: Update each other on our progress DAY 3

Third Meeting: Work together to make sure our tasks were completed

DAY 4

Final Meeting: Meet one last time to place finishing touches



What changes would we make to our overall Design?

Changes to our Game:

- Implement another UI to handle the levels
- Place description between classes for better documentation
- Make the row and columns show the invalid spaces
- <u>- Create a Hint Button</u>
- Outline an unused region
- For fun: Place music in the background



