

# Nedosite with 8-bit games

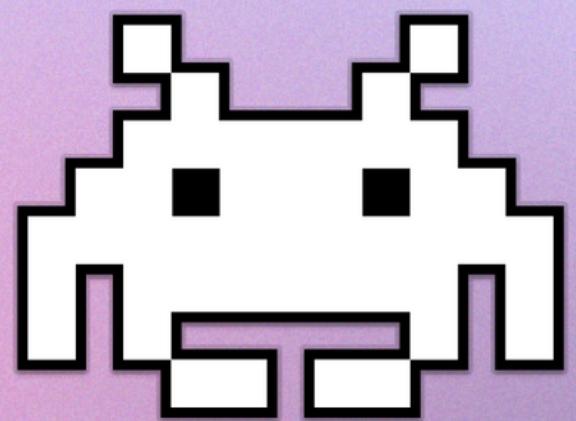
Виконали студенти групи ФЕП-31с:

Фіняк Олег

Кравець Ігор

Боршош Володимир

Бойко Дмитро



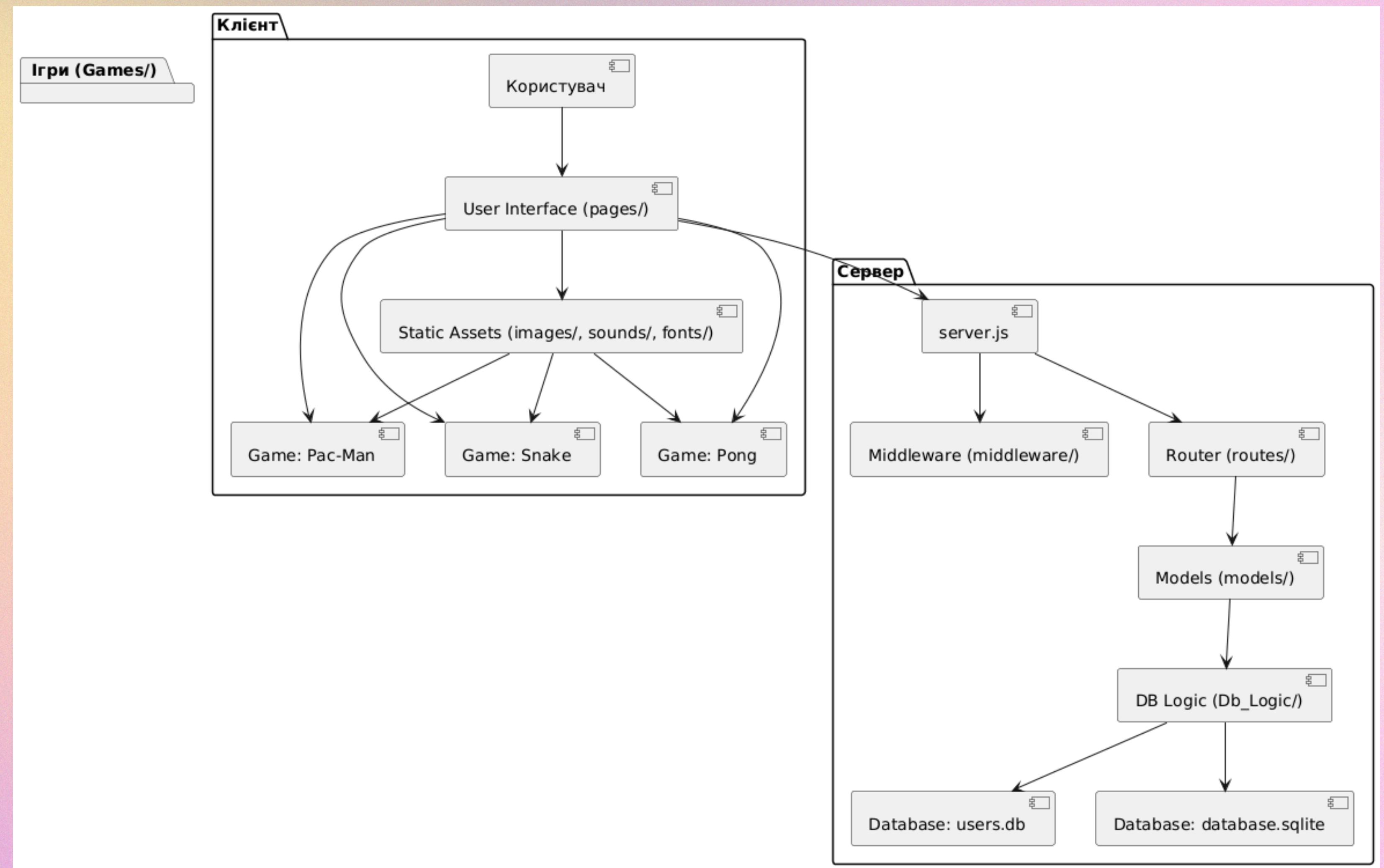
# NEDOSITE WITH 8-BIT GAMES

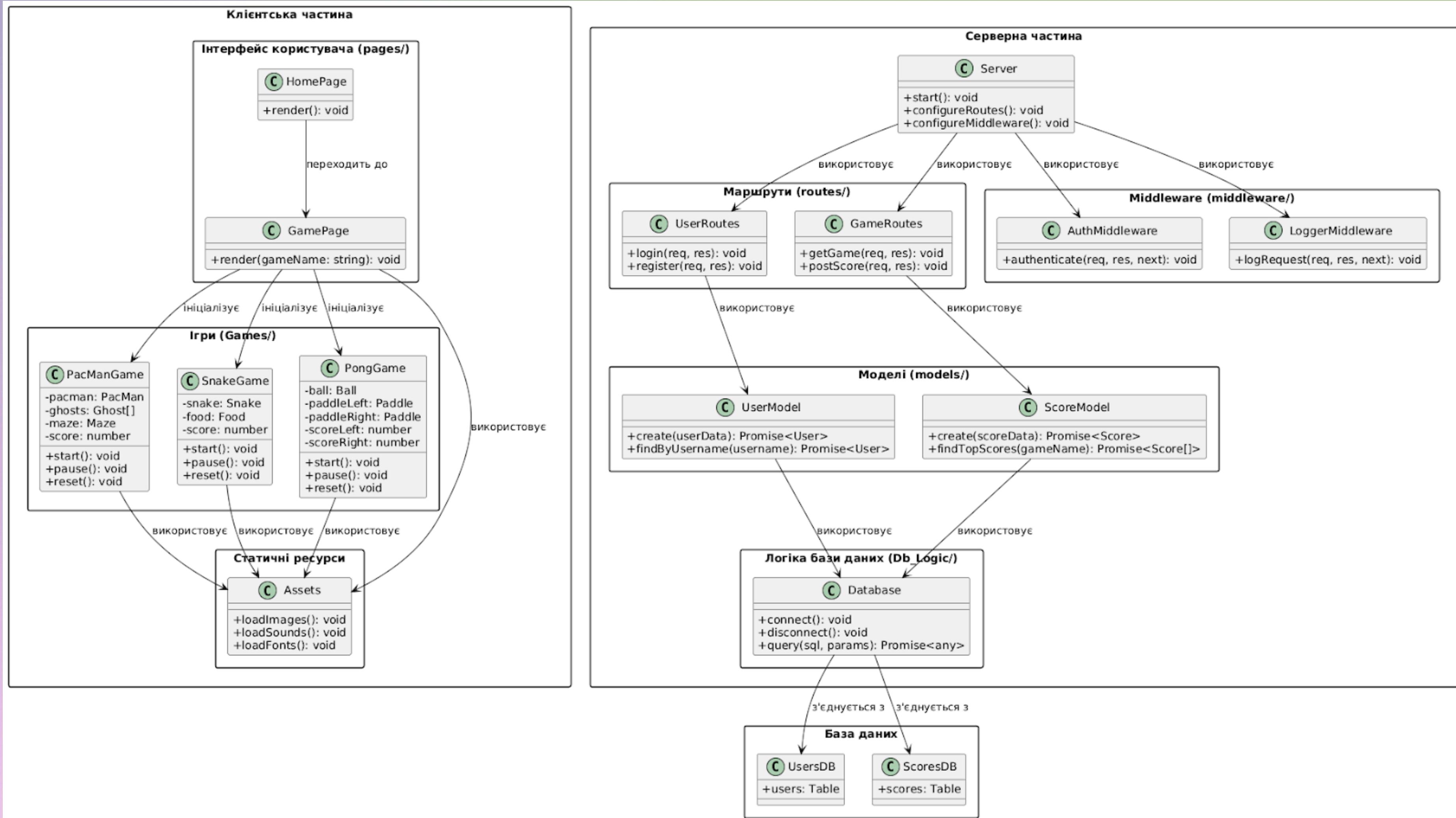
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## Leaderboard

Rank	Player	Score	Game
	DIMA	1650	invaders
	user	250	invaders
	DIMA	120	pacman
	user	7	snake
	user	7	pacman
	Finik	6	snake
	DIMA	5	pong
	user	4	pong
	DIMA	3	snake









```
at Object.<anonymous> (tests/authFunctions.test.js:122:5)

PASS tests/pacmanLogic.test.js
PASS tests/invadersLogic.test.js
PASS tests/snakeLogic.test.js
PASS tests/gameLogic.test.js
PASS tests/pongLogic.test.js

Test Suites: 8 passed, 8 total
Tests:      80 passed, 80 total
Snapshots:  0 total
Time:       0.961 s, estimated 1 s
Ran all test suites.

PS C:\Users\dimab\OneDrive\Рабочий стол\game_site_project-Kravets>
```

# Patterns

Структурні

Фасад

```
class TileMap {
  constructor(tileSize) {
    this.tileSize = tileSize;

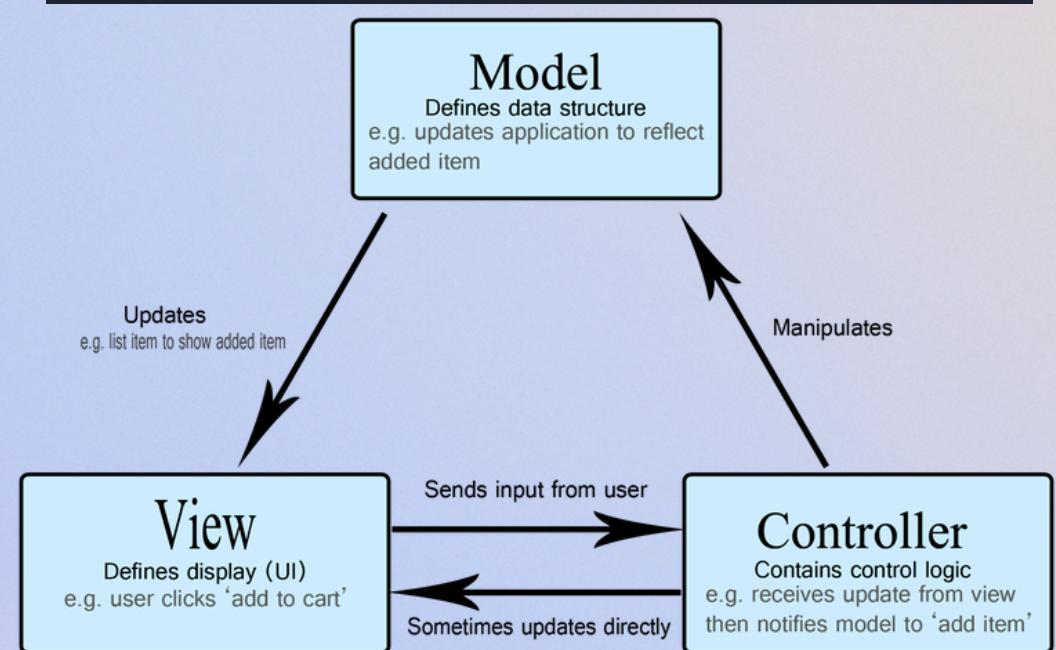
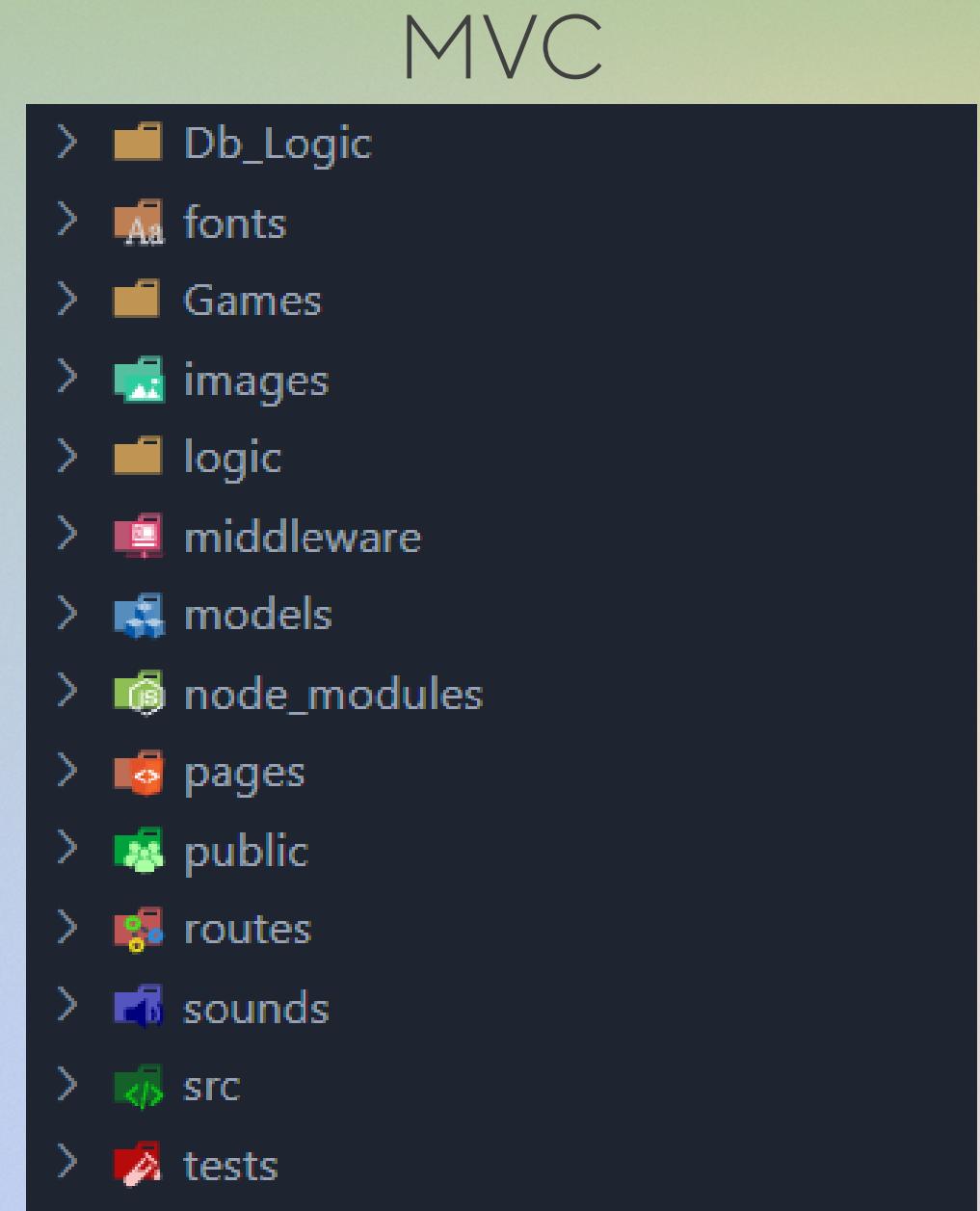
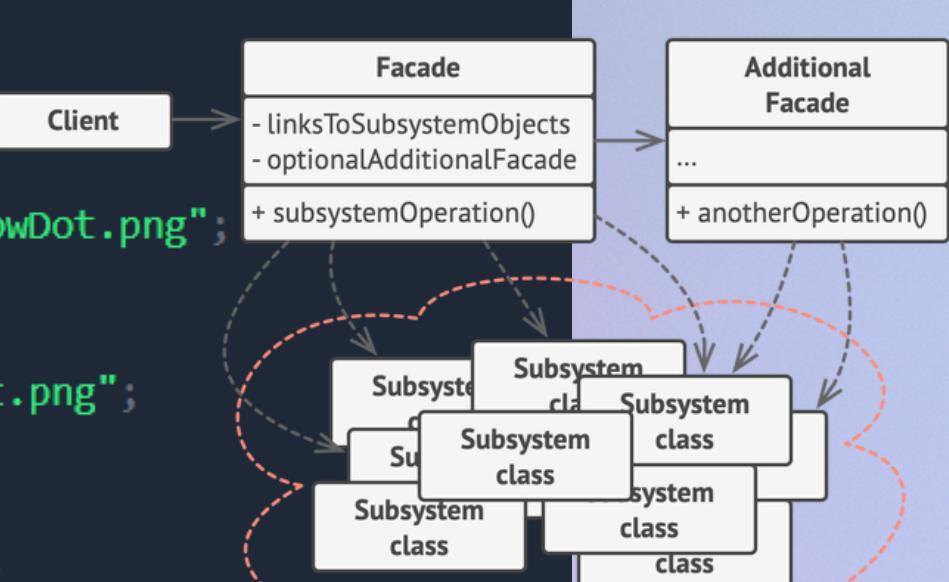
    this.yellowDot = new Image();
    this.yellowDot.src = "../../images/yellowDot.png";

    this.pinkDot = new Image();
    this.pinkDot.src = "../../images/pinkDot.png";

    this.wall = new Image();
    this.wall.src = "../../images/wall.png";

    this.powerDot = this.pinkDot;
    this.powerDotAnimationTimerDefault = 30;
    this.powerDotAnimationTimer = this.powerDotAnimationTimerDefault;
  }
}
```

\*pacman.js



# Patterns

Генеративні

## Фабрика

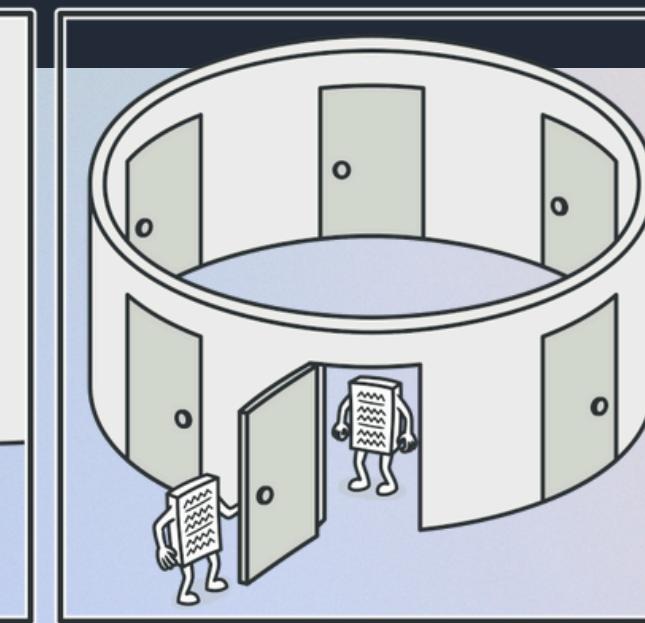
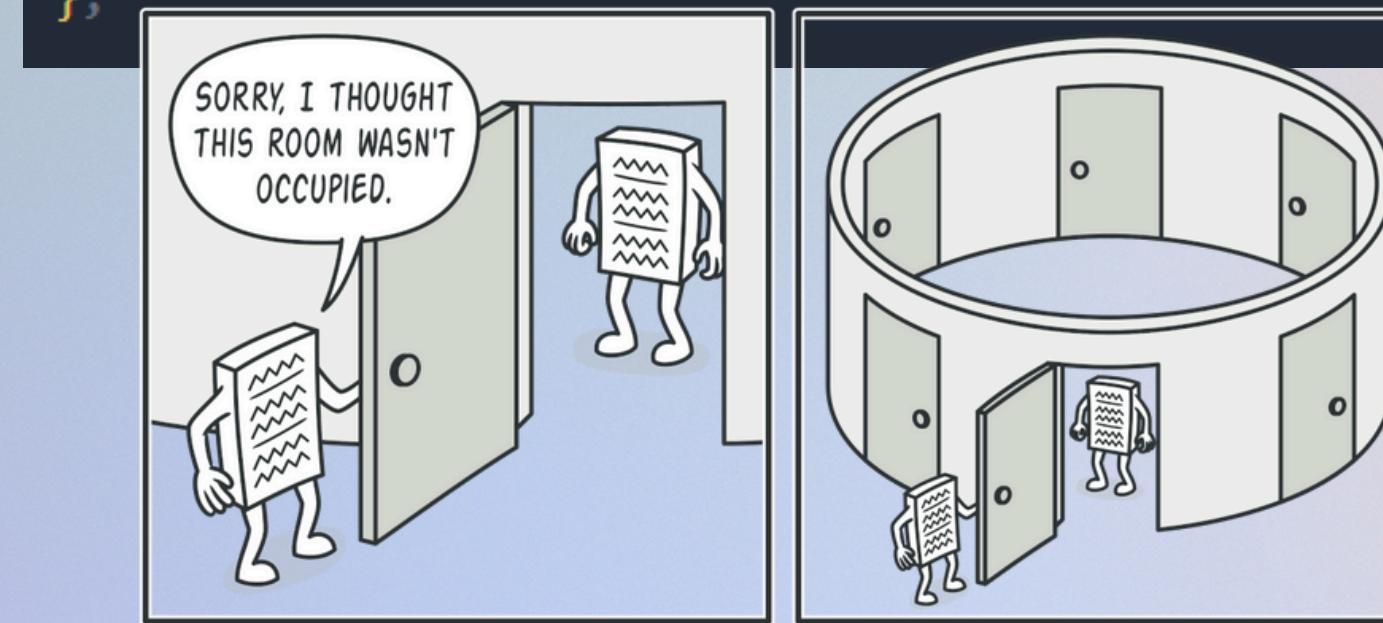
```
function setupAlienFormation() {
    alienCount = 0;
    for (var i = 0, len = 5 * 11; i < len; i++) {
        var gridX = i % 11;
        var gridY = Math.floor(i / 11);
        var clipRects;
        switch (gridY) {
            case 0:
            case 1:
                clipRects = ALIEN_BOTTOM_ROW;
                break;
            case 2:
            case 3:
                clipRects = ALIEN_MIDDLE_ROW;
                break;
            case 4:
                clipRects = ALIEN_TOP_ROW;
                break;
        }
        return new Truck();
    }
}
```



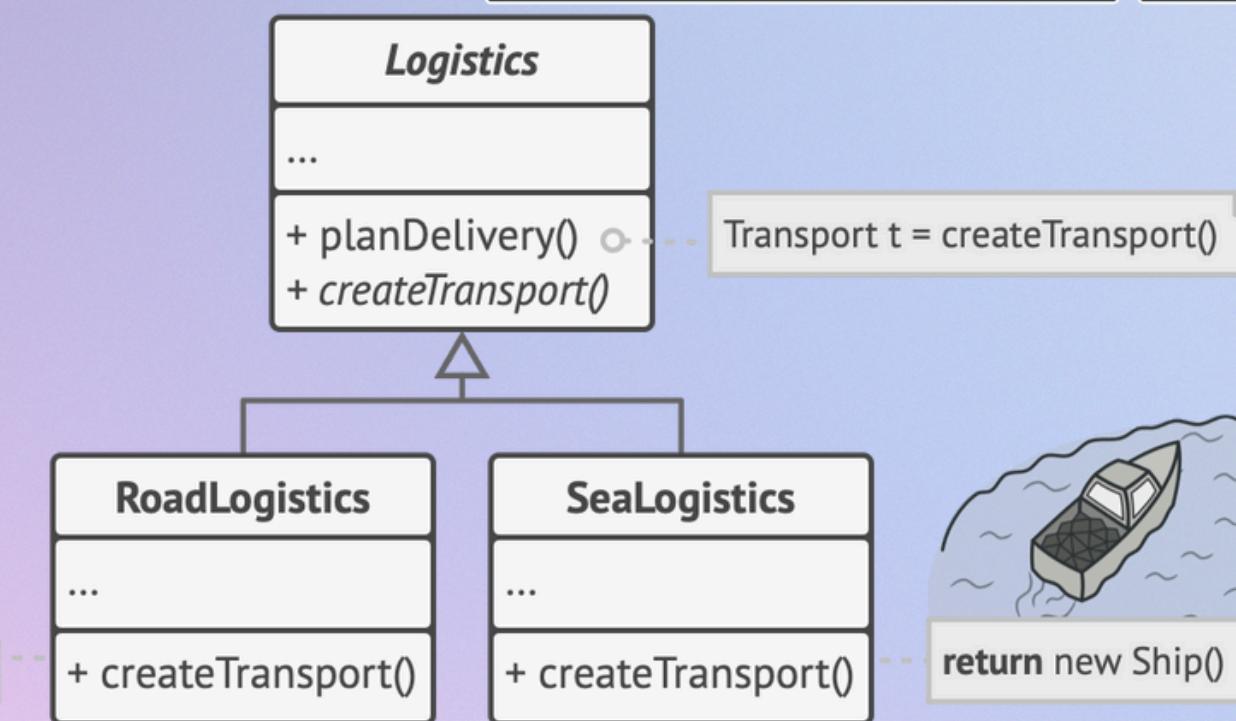
\*invadersGame.js

## Сінглтон

```
// Export the Sequelize instance and connection test function
module.exports = {
    sequelize,
    testConnection
};
```



\*database.js



\*invadersGame.js

# Patterns

Поведінкові

Спостерігач

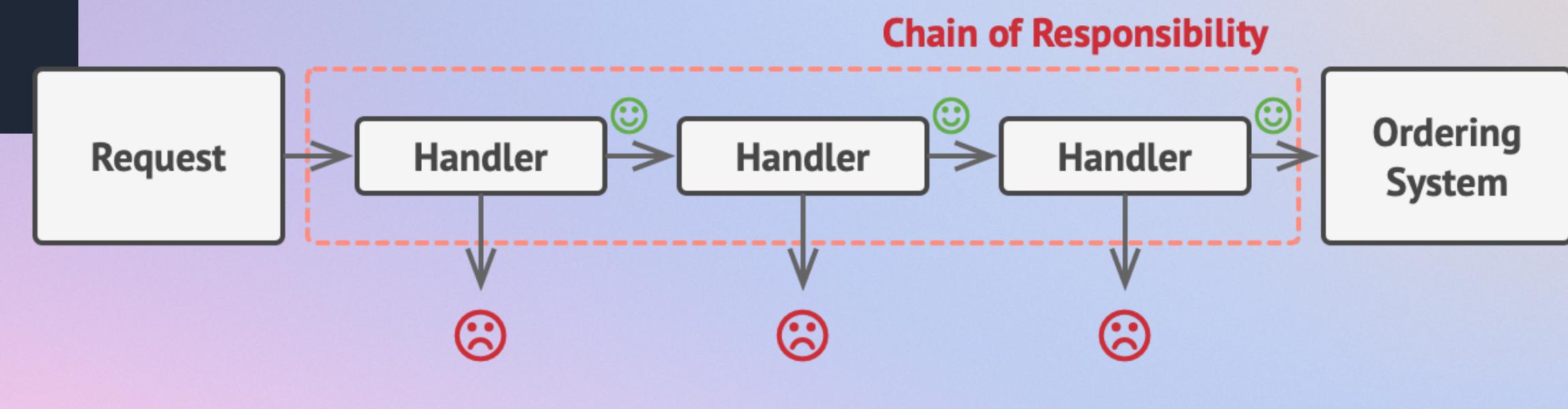
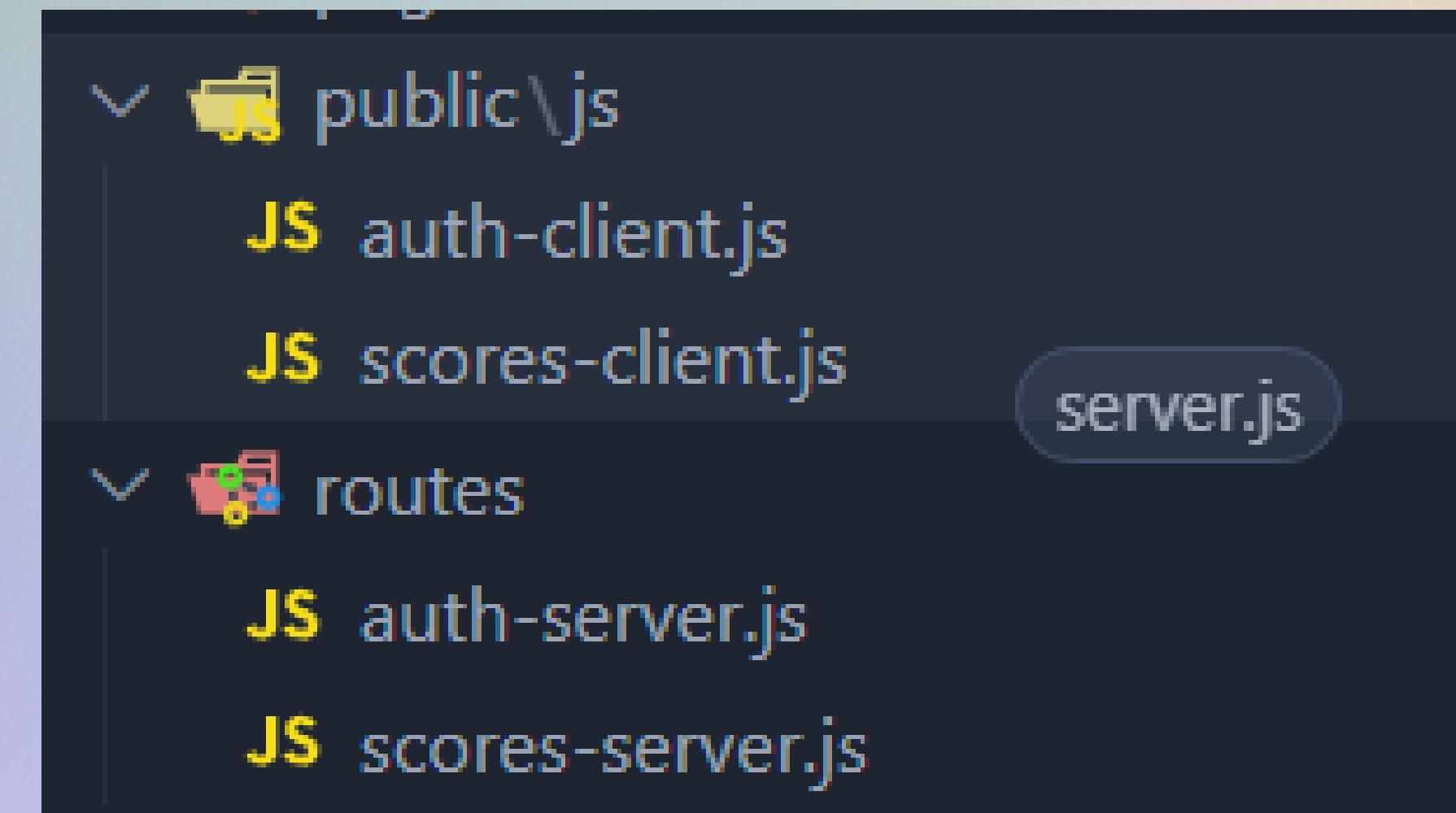
```
document.addEventListener('keydown', function (e) {
  if (e.key === 'Escape') {
    isPaused = !isPaused;
  } else if (e.key === ' ') {
    gameStarted = true;
  } else if (gameStarted && !isPaused) {
    // ліва стрілка
    if (e.which === 37 && snake.dx === 0) {
      snake.dx = -grid;
      snake.dy = 0;
    }
    // Верхня стрілка
    else if (e.which === 38 && snake.dy === 0) {
      snake.dy = -grid;
      snake.dx = 0;
    }
  }
})
```

Агов, підпиши й мене, будь ласка!



І мене теж!

Ланцюг відповідальності



Demonstration and  
testing



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