### 1. Introduction

**Blazn' Barrels** is a fun and challenging shooting game where players try to hit hidden fish in a 3x4 grid. Players choose a difficulty level, shoot their shots, and aim for the highest score. The game tracks the player's high score and features three game rounds.

## 2. System Requirements

#### **Minimum System Requirements:**

- Operating System: Windows, MacOS, or Linux
- Java Version: Java 17 or newer
- JavaFX SDK: JavaFX 17+ (if using command-line compilation)

## 3. Installation and Setup

- 1. Download the Project Files:
  - a. Download all Java files (GameUI.java, User.java, Barrel.java, Game.java).
- 2. Compile the Project and then run in GameUI.java

## 4. How to Play

#### Starting the Game

- 1. **Launch the Game** by running GameUI.java.
- 2. Enter Your Name when prompted.

### **Main Menu Options**

- Start Game: Begins a new game.
- **High Score**: Displays the current high score.
- Quit: Exits the game.

#### **Selecting Difficulty**

- **Easy**: 3 bullets (most chances to hit a fish).
- Medium: 2 bullets (moderate difficulty).
- Hard: 1 bullet (only one chance!).

### **Gameplay Instructions**

- 1. After selecting a difficulty, a 3x4 grid will appear.
- 2. Click on the grid buttons to shoot at the hidden fish.
- 3. Hit Feedback:
  - a. If you hit a fish, the button displays "Fish!".
  - b. If you miss, the button displays "Miss!".

### **Scoring and Rounds**

- Hit a Fish: Earn 10 points per hit.
- Round System:
  - o The game has 3 rounds.
  - o After all bullets are used in a round, the next round starts automatically.
- Final Score Display:
  - o After 3 rounds, your **total score** is displayed.
  - If your score is higher than the previous best, your high score will be updated.

#### **Game End Options**

• Main Menu: Return to the main menu to start a new game.

• Quit: Exit the game.

# **5. Game Rules Summary**

- The game hides fish randomly in the grid for each round.
- Each difficulty level affects the number of bullets and fish in the barrel.
- A player's high score is tracked and displayed.
- After finishing all rounds, the final score is shown.

# 6. Troubleshooting

Issue	Possible Solution
JavaFX-related startup	Ensure JavaFX SDK is correctly configured.
error	
Game not running in IDE	Add JavaFX libraries in IDE settings.
No display after launch	Ensure the Java version is compatible (Java 17+).
Button clicks not working	Check JavaFX setup and recompile the project.
High score not updating	Ensure you finish all 3 rounds for score
	submission.

# 7. Controls Summary

Action	How to Perform
Enter Name	Type your name when prompted
Select Difficulty	Click the <b>Easy/Medium/Hard</b>
	button
Shoot Grid Cell	Click a grid cell to shoot
Retry Game	Click <b>Main Menu</b> after the game
	ends
Quit Game	Click <b>Quit</b> at any point

# 8. Additional Notes

- The grid resets after each game and between rounds.
- Your **high score** persists only during the game session (unless further saved in future versions).