



# Flappy Angry Birds!

An online & real-time multiplayer game!

COMP 307 Project

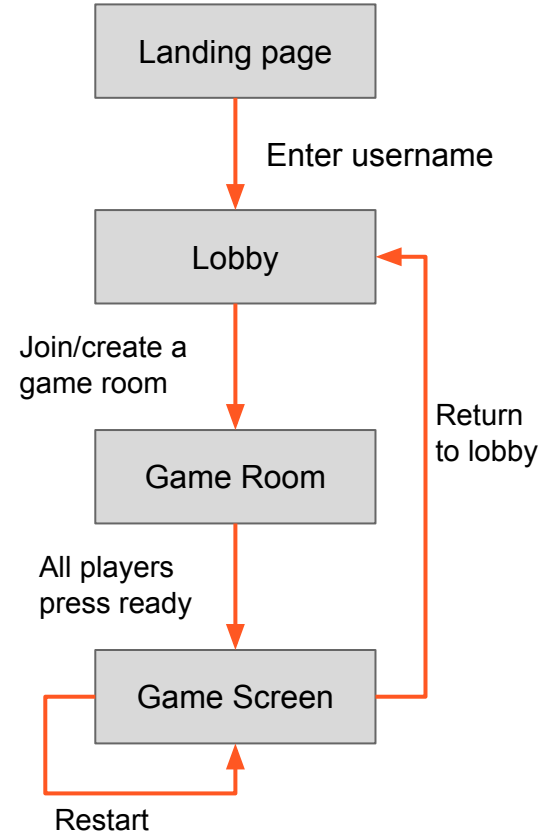
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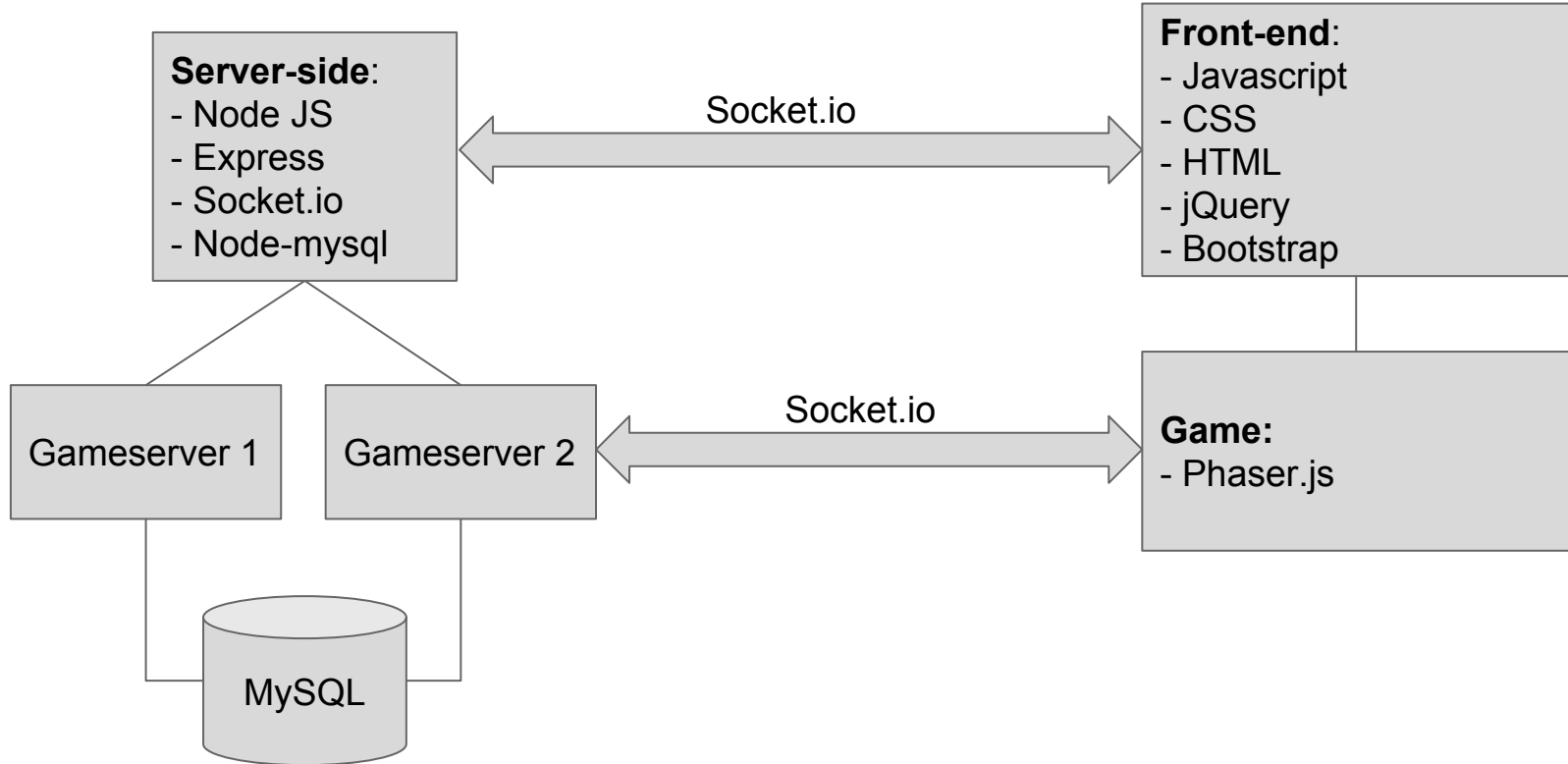


# The Website

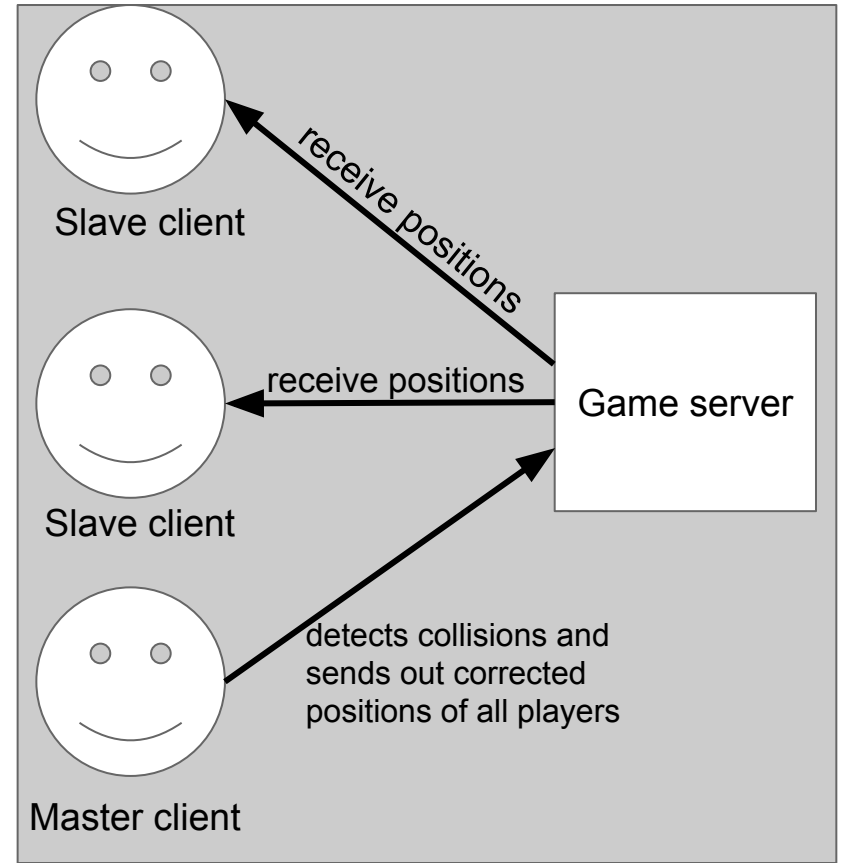
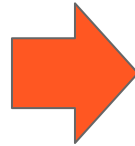
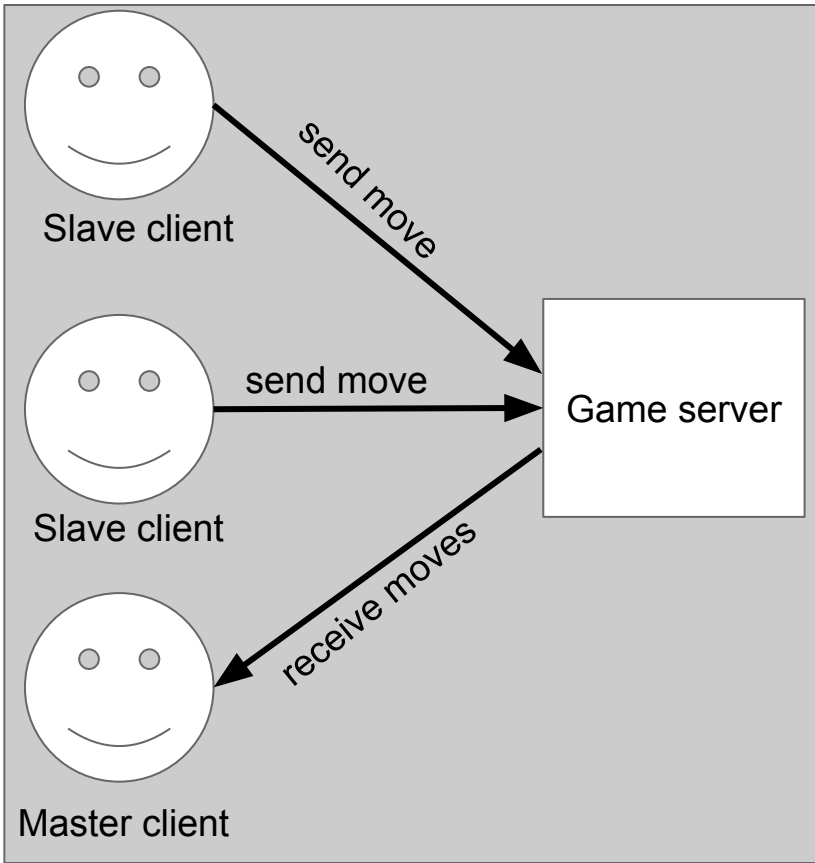
- Just pick a username and hop into a lobby with some friends
- Create or join a game room
- Once everyone readies up, the game starts
- Try to survive while bumping your opponents out of the way



# Architecture



# Making it real-time & multiplayer



# Things we learned - Positive



- Node.js lets you work quickly: full stack Javascript and easy to install packages with NPM
- Socket.io makes basic network communication pretty easy
- Phaser.js makes game programming pretty easy
- Sass + Bootstrap gives you compact and responsive CSS
- Nice to make something that is fun to use and design

# Things we learned - Negative



- Javascript is inconsistent and dynamically typed: lots of console.log debugging
- Hard to get things working on multiple browsers: e.g. Firefox caches more heavily, sounds play differently
- Node packages are easy to install but often poorly documented, hard to use
- Difficult to do real-time communication between many clients, keep track of shared state
- Phaser does not support multiplayer and is not meant to be at server side

**Thank you**



Questions?