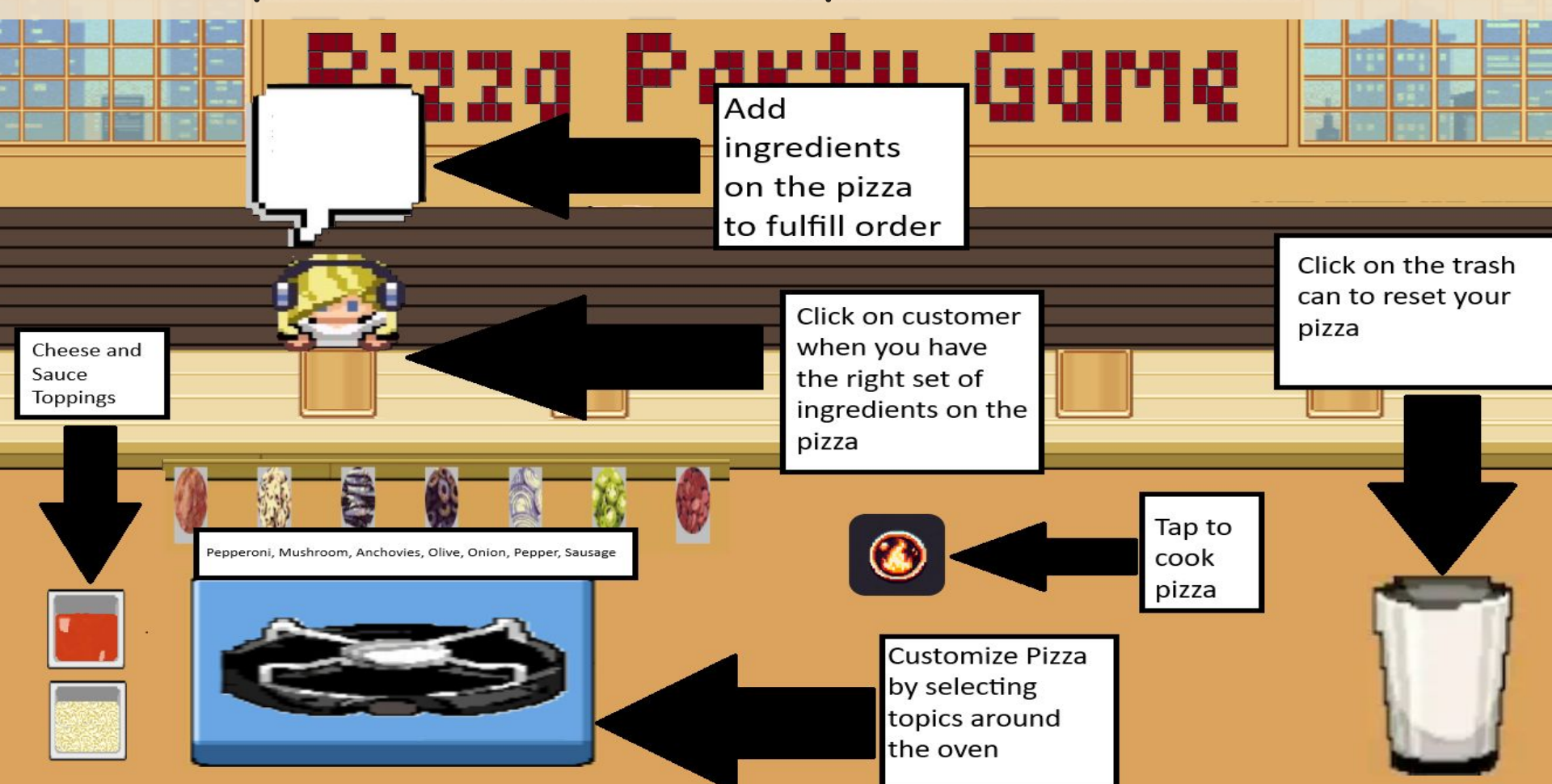




By Shoaib, Jasper, Nagi, and Dhivas

Group 207

Description of Features Implemented



Technology Stack and Design Decisions

- Covey.Town Codebase: Implementation of Pizza Party Game
- React Engine: Components are dynamic and update over time
- Render.com and Heroku: Our continuous development pipeline
- MongoDB (DAO Pattern): Player scores saved to our database

User Stories



User story 1: As a typical Covey Town player, I want the new game to be incorporated into the overall Covey Town environment (so that I can compete in food preparation against my friends)



User story 2: As an early 2000s online game enjoyer, I want Pizza Party to include the same animations and UI design (similar to the charm of the popular Papa's Pizzeria so that I can relive the beautifully crafted front-end)








User story 3: As a casual gamer, I want the difficulty to scale up (as I continue playing so that the game offers an appropriate level of challenge to keep me playing)

Conditions of Satisfaction (1)

- Timed pizza preparation with increasing difficulty
- Diverse customers with specific orders and impatience
- Intuitive controls, clear objectives, and scoring
- Leaderboard for a friendly competition (on a database)

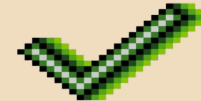
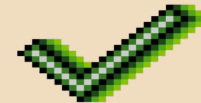
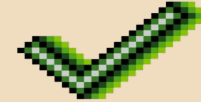


Conditions of Satisfaction (2)

- Drawings of characters, food, kitchen, and more 
- Kitchen space area to start the game 
- Ability to restart and leave a game at will 
- Game is complete with a game area implemented into Covey.town 
- Oven functionality to ensure correct baking of the pizza 

Extensions of Product

- Visual cues for pressure and challenge
 - Customers pop up over time and display countdown
- Player Profiles and Social Features
 - Name and scores show during game and in leaderboard
- Garbage bin to clear pizza toppings
- Placed helpful instructions at the start of the game
- Covey.Town players can watch other player's game



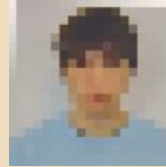
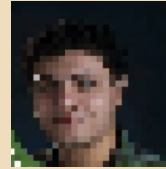
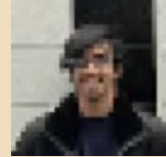
Extensions Not Completed

- Skill customization and side objectives.
- Unlockable ingredients, dishes, and tools.
- Animations for preparing the food and serving to customers.
- Customer preferences and dietary restrictions



Individual Contributions

- Dhivas: frontend and backend foundation, UI layering, order generation
- Shoaib: Game area functions, ApplyMove, Backend testing, increasing difficulty
- Nagi: leaderboard/MongoDB, timing framework, Customer display
- Jasper: sprite creation, project display, code integrator and reviewer



**Estimated
Time Spent
(per member):**

6.5+
hours

Percent Contributions

- **Shoaib** 25%
- **Dhivas** 25%
- **Jasper** 25%
- **Nagi** 25%

Challenges

- Having customers generate in a specified time interval
 - setInterval in React use-effect and controller communication
- Having items overlap with the background
 - implement divs with CSS coordinates and array mapping
- Connecting leaderboard to MongoDB database
 - grab values from controller and update score of the player

Deviations

- Placed the pizza initially on the oven
 - Allows for more seamless gameplay
- Placed leaderboard at the end of the game on a pizza
 - Adds a fun touch for friendly covey.town competition
- Made increased difficulty tied to current score
 - Difficulty affects points awarded and customer patience

Demo and Source

- Our demo site:

<https://pizza-party-exbp.onrender.com/>

- Our code:

<https://github.com/neu-cs4530/spring24-project-s24-group-207>

covey.town interactable



game play

