JavaScript Final Project --- Bounzy Ball

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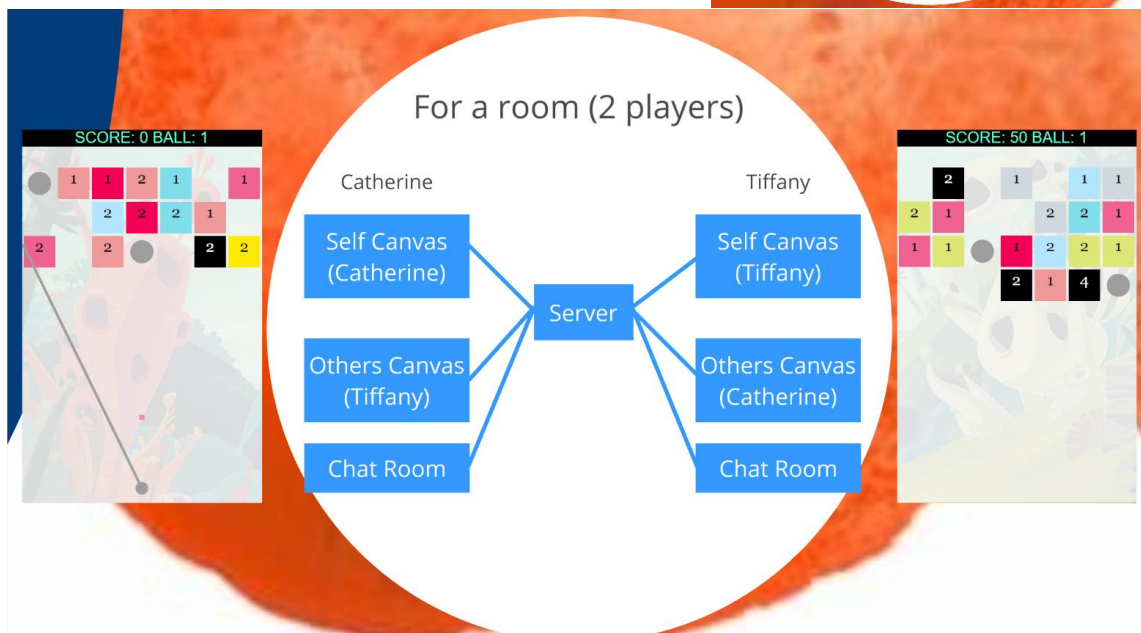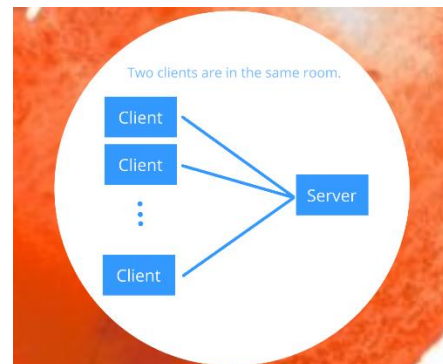
- **Introduction**
  - Motivation
    - Bounzy Ball (Cellphone game)
    - Self-playing game is boring
    - Change to Web Interactive Game
    - Add Chat Room System
  - Features
    - Web Game (Bounzy Ball)
    - Increase human interaction
      (Interactive Game + Chat Room System)
    - Feel the sense of competition (Player with higher score is the winner)
  - Development
    - Environment:
      - Windows
      - Node Js
      - Express.js
      - Socket.io

- **Execution**
  - Environment:
    - Please use Computer
    - Please use <u>Chrome</u> !!!
- **Program**
  - index.js
    - Node Js
    - Server Part
    - Room Array (Save current room info.)
    - Deal with Connection, Disconnection, Send Msg
  - home.html
    - home.css
  - index.html
    - deafult.css
    - chat.js
      - Client Part
      - Read player name & room name
        (Prompt and get input)
      - Deal with Chat Room Block Print, Msg Sendform, Msg Receive, Keydown
        (Special Msg)
    - game.js
      - Client Part
      - Start Game (setInterval)
      - Save Game Info.:
        - Ball Array
        - Brick Array

        (May be changed by players)
      - Print Game Info.:
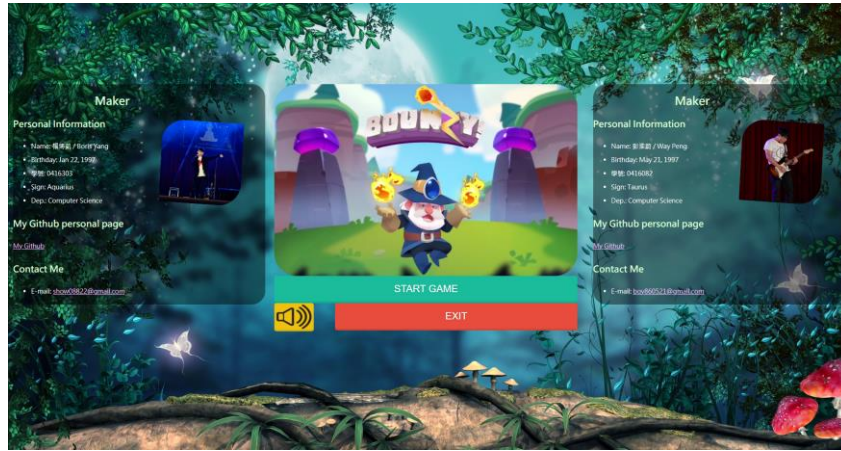   - Canvas
      - Deal with Self Game Functions:

- o Draw Arrow / Bricks / Balls

- o Update Bricks

- o Collision Detection

  - ➤ Deal with Mouse Events

  - ➤ Deal with Player Info. Encoding: enCodeString()

- ▪ gameOther.js

  - ➤ Client Part

  - ➤ Save Other Player's Game Info.:

    - o Ball Array2

    - o Brick Array2

    (May be changed by players)

  - ➤ Print Game Info.:

    - o Canvas2
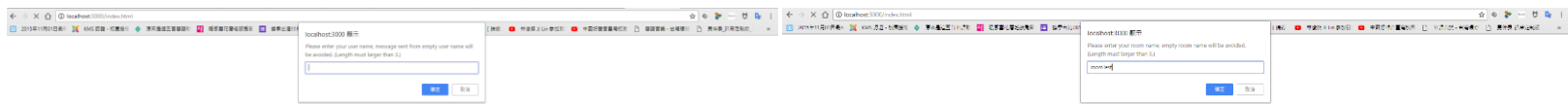
  - ➤ Deal with Player Info. Decoding

- **Collaboration**

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    - ▪ 首頁設計

    - ▪ 遊戲設計

    - ▪ 遊戲+聊天室畫面設計 (圖片&css)

    - ▪ 架構規劃

    - ▪ 投影片製作

    - ▪ 報告撰寫

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    - ▪ 聊天室設計
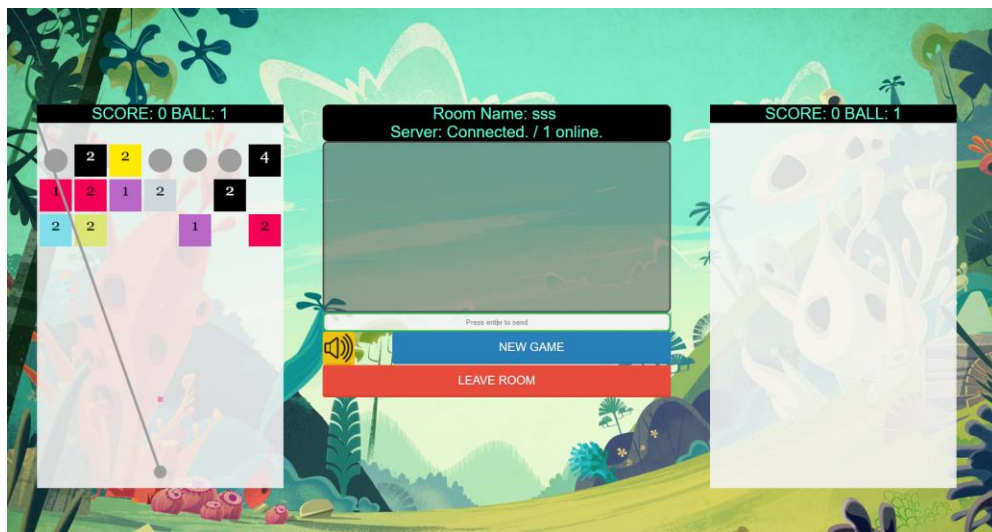
    - ▪ 遊戲&聊天系統整合

- **DEMO**

  - o Command line install node js and npm

  - o Command line type: node index.js

  - o Press: Start Game

- o Type in: Name and Room

- o Start Playing~

Online PPT

- o https://prezi.com/view/7SfXVWcMHRRXO8jlKZgY/