#### DOCUMENT\_HEADING

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### multiplayer.css

```
*,*::before,*::after{
    margin: 0;
   user-select: none;
    font-family: Arial, Helvetica, sans-serif;
}
body{
    box-sizing: border-box;
    overflow: hidden;
    background-color:  #fff;
    color: #333;
}
/*Battle.htm*/
#container{
   display: flex;
   height: 100vh;
   width: 100vw;
   flex-direction: row;
   position: absolute;
}
#header{
   display: flex;
   width: 100vw;
    align-items: center;
    justify-content: center;
    background-color: #222;
    color:  #fff;
    border-bottom: 3px solid rgb(10, 10, 10);
}
#header>p{
    font-size: 2rem;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    font-weight: bold;
}
#left, #right{
```

```
display: flex;
    position: relative;
    width: 50vw;
    justify-content: center;
    align-items: center;
    flex-direction: column;
    gap: 2rem;
}
#left-grid, #right-grid, #setup-grid{
    display: grid;
    border: 7px solid black;
    border-radius: 3%;
    grid-template-columns: repeat(10, minmax(1.85rem, 29px));
    grid-template-rows: repeat(10, minmax(1.85rem, 29px));
    background-color:
black
}
.tile{
    border: 1px solid black;
    background-color: #4DA6FF;
    font-size: 0px;
    display: flex;
    justify-content: center;
    align-items: center;
}
.ship{
    background-color: rgb(80, 80, 80);
}
.shipClicked{
    background-color:
black
}
.clicked{
    background-color: #ff9114;
}
.placed{
    text-decoration: line-through;
    color: rgb(200, 10, 10);
    background-color: #ff8881;
}
.ready{
    background-color: rgb(10, 200, 10);
}
#middle{
    position: fixed;
    left: 0;
    right: 0;
    top: 0;
    bottom: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    z-index: 10;
}
.background{
    background-color: rgba(20, 20, 20, 0.7);
```

```
}
#popup{
    position: absolute;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    height: 40vh;
    width: 25vw;
    background-color: rgb(23, 19, 19);
    border-radius: 5rem;
    transition: scale 1s;
}
#popup > p{
    font-size: 2rem;
    color: rgb(221, 210, 210);
    position: absolute;
    top: 20%;
\#popup > a{}
    display: flex;
    justify-content: center;
    align-items: center;
    text-decoration: none;
    height: 3rem;
    width: 7rem;
    position: absolute;
    top: 60%;
    color: black
    background-color: rgb(167, 167, 167);
    border-radius: 0.5rem;
    border: none;
}
#popup > a:hover{
    background-color:
black
    color: rgb(167, 167, 167);
}
/*setupboat.htm*/
#setup-container-player-1, #setup-container-player-2{
    display: grid;
    height: 100vh;
    width: 100vw;
    justify-content: center;
    align-items: center;
    grid-template-columns: repeat(3, 1fr);
    position: absolute;
}
#setup-grid{
    scale: 1.15;
    top: 20%;
    justify-content: center;
    align-self: center;
    height: 1fr;
    width: 1fr;
```

```
}
#setup-btns{
    display: flex;
    flex-direction: column;
    gap: 0.5rem;
    align-items: center;
    justify-content: center;
    height: 1fr;
   width: 1fr;
}
#btn-container{
    display: flex;
    flex-direction: column;
    height: 20rem;
    width: 15rem;
    gap: 0.5rem;
    justify-content: center;
    align-items: center;
    padding: 5%;
    box-shadow: 0px 10px 10px rgb(100, 100, 100);
    border-radius: 10%;
    border: 1px solid #ccc;
}
#btn-container > hr{
    border: 1px solid black;
    width: 20%;
}
#btn-container p{
    font-size: 1.6rem;
    font-weight: 550;
}
#setup-right{
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
   gap: 4rem;
}
#setup-middle{
    display: flex;
    height: 100vh;
    flex-direction: column;
    gap: 5rem;
    align-items: center;
    justify-content: center;
    position: relative;
    top: 10%;
}
#btn-container > button{
    border: 1px solid black;
    border-radius: 0.25rem;
    font-size: medium;
    cursor: pointer;
    width: 6rem;
    height: 2rem;
```

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```
}
.default-ship-btn{
    background-color: #5258ff;
}
#start-game-btn{
   border: 1px solid black;
   position: relative;
    text-decoration: none;
    font-size: 1.2rem;
    padding: 10px 5px;
    border: 1px solid black;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.5s ease-out;
.default-start-btn{
    background-color: #ff3b0a;
}
.default-btns{
   background-color:  #b2d2f5;
}
.invisible{
    scale: 0;
}
.invisible-font{
    font-size: 0;
}
#left > p, #right > p{
   font-size: 2rem;
}
.statistics {
 display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  background-color: #f8f8f8;
  border: 1px solid #ccc;
  padding: 30px;
  border-radius: 10%;
  box-shadow: 0px 10px 10px rgb(100, 100, 100);
}
.statistics h3 {
 font-size: 18px;
 margin-bottom: 20px;
  text-align: center;
.statistics p {
```

```
margin-bottom: 10px;
}
.statistics button {
  background-color: #e74c3c;
  color: ☐ #fff;
  border: none;
  font-size: 16px;
  border-radius: 4px;
  cursor: pointer;
 margin-top: 30px;
}
header, #header{
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: #222;
  color:  #fff;
  position: fixed;
  top: 0;
  left: 0;
  width: 100vw;
  padding: 20px;
  font-size: 1.5rem;
  font-weight: 800;
  text-align: center;
  z-index: 20;
}
/*Tile sink bomb classes*/
.tile.bomb::before, .tile.bomb::after{
    content: '';
    border-radius: 50%;
    background-color:    red
}
.tile.bomb::before{
    height: 0.5rem;
   width: 0.5rem;
}
.tileSink.tile.tileSink::before{
    transform: rotate(45deg);
}
.tile.tileSink::after{
    transform: rotate(-45deg);
}
.tile.tileSink::before, .tile.tileSink::after{
    content: '';
    position: absolute;
   width: 0.2rem;
   height: 1rem;
    background-color:  red
.shipSink{
```

```
background-color:  red
}
/*player turn classes*/
body.player1 #left-grid > button:hover, body.player1 #left-grid:hover{
    cursor: not-allowed;
}
body.player1 #right-grid >button:hover, body.player1 #right-grid:hover{
    cursor: crosshair;
body.player2 #left-grid > button:hover, body.player2 #left-grid:hover{
    cursor: crosshair;
body.player2 #right-grid >button:hover, body.player2 #right-grid:hover{
   cursor: not-allowed;
}
body.player1 .ship1{
  background-color:
black
}
body.player2 .ship2{
  background-color:
black
}
body.player1 .ship2.tileSink {
    background-color:
}
body.player2 .ship1.tileSink {
    background-color:
black
}
body.player2 .ship2.shipSink{
    background-color:  red
body.player1 .ship1.shipSink{
   background-color:    red
}
.waitingScreen{
   display: flex;
    align-items: center;
    justify-content: center;
   height: 100vh;
   width: 100vw;
   position: absolute;
   background-color:
black
}
.waitingScreen #header{
   position: absolute;
   top: 0;
    right: 0;
   height: 10vh;
}
.continue{
    padding: 20px 30px;
```

```
position: absolute;
    background-color: #237fdc;
    border-radius: 10px;
    z-index: 4;
    border: none;
}
.waitingScreen a{
    border-radius: 10%;
    background-color: #237fdc;
    position: absolute;
    opacity: 0.2;
    scale: ∅;
}
.hover-1{
   height: 10px;
   width: 10px;
   padding: 30px 55px;
}
.hover-2{
   height: 10px;
   width: 10px;
    padding: 35px 60px;
    transition-delay: 0.4s;
}
.hover-3{
   height: 10px;
   width: 10px;
    padding: 40px 65px;
    transition-delay: 0.7s;
}
.continue.hover ~ a{
    animation: animate 1.2s;
@keyframes animate{
   0%{
        scale: 0;
    }
    60%{
        scale: 1;
    }
    100%{
        scale: 0;
}
.continue.animate__animated.animate__bounceOutUp
    animation-delay: 100ms;
}
.continue-container{
    display: flex;
    align-items: center;
    justify-content: center;
```

```
position: absolute;
    height: 200px;
   width: 200px;
}
.wave{
    position: absolute;
   width: 100%;
   height: 100px;
    bottom: 0;
    left: 0;
    background: url(wave.png);
    background-size: 1000px 100px;
}
.wave1{
    animation: animate1 30s linear infinite;
    animation-delay: 0s;
    z-index: 1000;
    bottom: 0;
    opacity: 1;
}
@keyframes animate1 {
    0%{
        background-position-x: 0;
    }
    100%{
        background-position-x: 1000px;
    }
}
.wave2{
    animation: animate2 15s linear infinite;
    z-index: 999;
    opacity: 0.5;
    animation-delay: -5s;
    bottom: 10px;
}
@keyframes animate2 {
    0%{
        background-position-x: 0;
    }
    100%{
        background-position-x: -1000px;
    }
}
.wave3{
    animation: animate1 30s linear infinite;
    z-index: 998;
    opacity: 0.2;
    animation-delay: -2s;
    bottom: 15px;
}
.wave4{
    animation: animate2 5s linear infinite;
    animation-delay: -5s;
    z-index: 997;
```

```
opacity: 0.7;
   bottom: 20px;
}
.svg{
    scale: 0.6;
    width: 100px;
}
.home{
    position: absolute;
    left: 0;
    scale: 0.3;
    z-index: 15;
}
.home:hover{
    opacity: 0.6;
}
```

# style.css

```
*,*::before,*::after{
    margin: 0;
   user-select: none;
    font-family: Arial, Helvetica, sans-serif;
}
body{
    box-sizing: border-box;
    overflow: hidden;
    background-color:  #ffff;
    color: #333;
}
/*Battle.htm*/
#container{
   display: flex;
   height: 100vh;
   width: 100vw;
   flex-direction: row;
    position: absolute;
}
#header{
    display: flex;
   width: 100vw;
    align-items: center;
    justify-content: center;
    position: absolute;
    background-color: #222;
    color: □ #fff;
    border-bottom: 3px solid rgb(10, 10, 10);
}
#header>p{
    font-size: 2rem;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

```
font-weight: bold;
}
#left, #right{
    display: flex;
    position: relative;
    width: 50vw;
    justify-content: center;
    align-items: center;
    flex-direction: column;
   gap: 2rem;
}
#left-grid, #right-grid, #setup-grid{
    display: grid;
    border: 7px solid black;
    border-radius: 3%;
    grid-template-columns: repeat(10, minmax(1.85rem, 29px));
    grid-template-rows: repeat(10, minmax(1.85rem, 29px));
}
.tile{
    border: 1px solid black;
    background-color: #4DA6FF;
    font-size: 0px;
    display: flex;
    justify-content: center;
    align-items: center;
}
.ship{
    background-color: rgb(80, 80, 80);
}
.shipClicked{
    background-color:
black
}
.clicked{
    background-color: #ff9114;
}
.placed{
    text-decoration: line-through;
    color: rgb(200, 10, 10);
    background-color: #ff8881;
}
.ready{
    background-color: rgb(10, 200, 10);
.playerShip, .tileSink{
    background-color:
black
}
.shipSink{
    background-color: rgb(230, 50, 50);
}
#left-grid > button:hover, #left-grid:hover{
    cursor: not-allowed;
```

```
#right-grid >button:hover, #right-grid:hover{
    cursor: crosshair;
}
#middle{
   position: fixed;
    left: 0;
    right: 0;
    top: 0;
    bottom: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    z-index: 10;
}
.background{
    background-color: rgba(20, 20, 20, 0.7);
}
#popup{
   position: absolute;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    height: 40vh;
    width: 25vw;
    background-color: rgb(23, 19, 19);
    border-radius: 5rem;
    transition: scale 1s;
}
#popup > p{
    font-size: 4rem;
    color: rgb(221, 210, 210);
    position: absolute;
    top: 20%;
}
\#popup > a{}
    display: flex;
    justify-content: center;
    align-items: center;
    text-decoration: none;
    height: 3rem;
    width: 7rem;
    position: absolute;
    top: 60%;
    color:
black
    background-color: rgb(167, 167, 167);
    border-radius: 0.5rem;
    border: none;
}
#popup > a:hover{
    background-color:
black
    color: rgb(167, 167, 167);
}
```

```
/*setupboat.htm*/
#setup-container{
    display: grid;
    height: 100vh;
    width: 100vw;
    justify-content: center;
    align-items: center;
    grid-template-columns: repeat(3, 1fr);
    position: absolute;
}
#setup-grid{
    scale: 1.15;
    top: 20%;
    justify-content: center;
    align-self: center;
    height: 1fr;
   width: 1fr;
}
#setup-btns{
    display: flex;
    flex-direction: column;
    gap: 0.5rem;
    align-items: center;
    justify-content: center;
    height: 1fr;
   width: 1fr;
}
#btn-container{
    display: flex;
    flex-direction: column;
    height: 20rem;
    width: 15rem;
    gap: 0.5rem;
    justify-content: center;
    align-items: center;
    padding: 5%;
    box-shadow: 0px 10px 10px rgb(100, 100, 100);
    border-radius: 10%;
    border: 1px solid #ccc;
}
#btn-container > hr{
    border: 1px solid black;
   width: 20%;
}
#btn-container p{
    font-size: 1.6rem;
    font-weight: 550;
}
#setup-right{
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    gap: 4rem;
}
```

```
#setup-middle{
    display: flex;
    height: 100vh;
    flex-direction: column;
    gap: 5rem;
    align-items: center;
    justify-content: center;
    position: relative;
    top: 10%;
}
#btn-container > button{
    border: 1px solid black;
    border-radius: 0.25rem;
    font-size: medium;
    cursor: pointer;
   width: 6rem;
   height: 2rem;
}
.default-ship-btn{
    background-color: #5258ff;
}
#start-game-btn{
   border: 1px solid black;
    position: relative;
    text-decoration: none;
    font-size: 1.2rem;
    padding: 10px 5px;
    border: 1px solid black;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.5s ease-out;
}
.default-start-btn{
   background-color: #ff3b0a;
}
.default-btns{
    background-color:  #b2d2f5;
}
.invisible{
    scale: 0;
}
.invisible-font{
    font-size: 0;
}
.tile.bomb::before, .tile.bomb::after{
    content: '';
    border-radius: 50%;
    background-color:  red
}
.tile.bomb::before{
    height: 0.5rem;
```

```
width: 0.5rem;
}
#left > p, #right > p{
    font-size: 2rem;
}
.tile.tileSink::before, .tile.tileSink::after{
    content: '';
    position: absolute;
    width: 0.2rem;
   height: 1rem;
    background-color: red
}
.tileSink.tile.tileSink::before{
    transform: rotate(45deg);
}
.tile.tileSink::after{
    transform: rotate(-45deg);
}
.statistics {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color:  #f8f8f8;
    border: 1px solid #ccc;
    padding: 30px;
    border-radius: 10%;
    box-shadow: 0px 10px 10px rgb(100, 100, 100);
  }
  .statistics h3 {
    font-size: 18px;
   margin-bottom: 20px;
    text-align: center;
  }
  .statistics p {
    margin-bottom: 10px;
  }
  .statistics button {
    background-color: #e74c3c;
    color: □ #fff;
    border: none;
    font-size: 16px;
    border-radius: 4px;
    cursor: pointer;
   margin-top: 30px;
  }
```

```
header{
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: #222;
  color: ☐ #fff;
  position: fixed;
  top: 0;
  left: 0;
 width: 100vw;
  padding: 20px;
 font-size: 1.5rem;
  font-weight: 800;
}
.home{
 position: absolute;
 left: 0;
 scale: 0.3;
  z-index: 15;
}
.home:hover{
  opacity: 0.6;
#waiting{
 height: 100vh;
 width: 100vw;
 z-index: 999;
 position: absolute;
}
```

### styleWelcome.css

```
/* reset default styles */
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 overflow-x: hidden;
 user-select: none;
}
/* global styles */
body {
 font-family: Arial, sans-serif;
 font-size: 16px;
 line-height: 1.5;
 color: #333;
}
.container {
```

```
max-width: 1200px;
  margin: 0 auto;
  padding: 0 20px;
/* header styles */
header {
  background-color: #222;
  color: ☐ #fff;
  padding: 30px;
}
/* main styles */
main {
  padding: 50px 0;
}
.hero {
 text-align: center;
.hero h1 {
  font-size: 4rem;
  margin-bottom: 20px;
}
.hero p {
  font-size: 1.5rem;
  margin-bottom: 40px;
.instructions {
  margin: 50px auto;
  width: 80%;
  max-width: 800px;
  padding: 20px;
  border-radius: 5px;
}
.instructions h2 {
  font-size: 28px;
  font-weight: bold;
  margin-bottom: 20px;
  text-align: center;
}
.instructions ol {
  font-size: 18px;
  line-height: 1.5;
  margin-left: 20px;
}
.instructions \bf li {
  margin-bottom: 10px;
/* Style for the "Play Now" button */
```

```
.play-btn {
 display: inline-block;
 background-color: #4CAF50;
 color:  #fff;
 padding: 10px 20px;
 border-radius: 5px;
 text-decoration: none;
 transition: all 0.3s ease;
}
.play-btn:hover {
 background-color: #3e8e41;
.svg{
    z-index: -1;
    position: relative;
   height: 25vh;
   width: 100vw;
}
```

#### Battle.htm

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <link rel="icon" type="image/x-icon" href="favicon.ico">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Battleships Game</title>
    <link rel="stylesheet" href="/style.css">
    <script src="main.js" defer type="module"></script>
</head>
<body>
    <div id="setup-container">
        <header> <a href="index.htm" class="home"><img src="Untitled-1.png" alt=""></a>SET UP
YOUR SHIPS!</header>
        <div id="setup-btns">
            <div id="btn-container">
                Select your ship!
                <button data-ship-btn class="default-ship-btn">Destroyer</button>
                <button data-ship-btn class="default-ship-btn">Submarine/button>
                <button data-ship-btn class="default-ship-btn">Cruiser/button>
                <button data-ship-btn class="default-ship-btn">Battleship
                <button data-ship-btn class="default-ship-btn">Carrier</button>
                <hr>>
                <button data-remove-btn class="default-btns">Remove</button>
                <button data-clear-btn class="default-btns">Clear</button>
                <button data-rotate-btn class="default-btns">Rotate/button>
            </div>
        </div>
```

```
<div id="setup-middle">
    <div id="setup-grid">
       <button class="tile" data-tile>A1
        <button class="tile" data-tile>B1</button>
       <button class="tile" data-tile>C1</button>
       <button class="tile" data-tile>D1
       <button class="tile" data-tile>E1
       <button class="tile" data-tile>F1</button>
       <button class="tile" data-tile>G1
       <button class="tile" data-tile>H1
        <button class="tile" data-tile>I1
       <button class="tile" data-tile>J1
        <button class="tile" data-tile>A2</button>
       <button class="tile" data-tile>B2</button>
        <button class="tile" data-tile>C2</button>
       <button class="tile" data-tile>D2</button>
       <button class="tile" data-tile>E2</button>
       <button class="tile" data-tile>F2</button>
       <button class="tile" data-tile>G2</button>
       <button class="tile" data-tile>H2</putton>
       <button class="tile" data-tile>I2</button>
       <button class="tile" data-tile>J2</button>
       <button class="tile" data-tile>A3</button>
       <button class="tile" data-tile>B3</button>
       <button class="tile" data-tile>C3</button>
       <button class="tile" data-tile>D3</button>
       <button class="tile" data-tile>E3</button>
        <button class="tile" data-tile>F3</button>
       <button class="tile" data-tile>G3</button>
       <button class="tile" data-tile>H3</button>
       <button class="tile" data-tile>I3</button>
       <button class="tile" data-tile>J3</button>
       <button class="tile" data-tile>A4</button>
       <button class="tile" data-tile>B4</button>
       <button class="tile" data-tile>C4</button>
       <button class="tile" data-tile>D4</button>
       <button class="tile" data-tile>E4</button>
       <button class="tile" data-tile>F4</button>
       <button class="tile" data-tile>G4</button>
       <button class="tile" data-tile>H4</button>
        <button class="tile" data-tile>I4</button>
       <button class="tile" data-tile>J4</button>
       <button class="tile" data-tile>A5</button>
       <button class="tile" data-tile>B5</button>
       <button class="tile" data-tile>C5</button>
       <button class="tile" data-tile>D5</button>
       <button class="tile" data-tile>E5</button>
       <button class="tile" data-tile>F5</button>
       <button class="tile" data-tile>G5</button>
       <button class="tile" data-tile>H5</button>
       <button class="tile" data-tile>I5</button>
       <button class="tile" data-tile>J5</button>
       <button class="tile" data-tile>A6</button>
       <button class="tile" data-tile>B6</button>
```

```
<button class="tile" data-tile>D6</button>
            <button class="tile" data-tile>E6</button>
            <button class="tile" data-tile>F6</button>
            <button class="tile" data-tile>G6</button>
            <button class="tile" data-tile>H6</button>
            <button class="tile" data-tile>I6</button>
            <button class="tile" data-tile>J6</button>
            <button class="tile" data-tile>A7</button>
            <button class="tile" data-tile>B7</button>
            <button class="tile" data-tile>C7</button>
            <button class="tile" data-tile>D7</button>
            <button class="tile" data-tile>E7</button>
            <button class="tile" data-tile>F7</button>
            <button class="tile" data-tile>G7</button>
            <button class="tile" data-tile>H7</button>
            <button class="tile" data-tile>I7</button>
            <button class="tile" data-tile>J7</button>
            <button class="tile" data-tile>A8</button>
            <button class="tile" data-tile>B8</button>
            <button class="tile" data-tile>C8</button>
            <button class="tile" data-tile>D8</button>
            <button class="tile" data-tile>E8</button>
            <button class="tile" data-tile>F8</button>
            <button class="tile" data-tile>G8</button>
            <button class="tile" data-tile>H8</button>
            <button class="tile" data-tile>I8</button>
            <button class="tile" data-tile>J8</button>
            <button class="tile" data-tile>A9</button>
            <button class="tile" data-tile>B9</button>
            <button class="tile" data-tile>C9</button>
            <button class="tile" data-tile>D9</button>
            <button class="tile" data-tile>E9</button>
            <button class="tile" data-tile>F9</button>
            <button class="tile" data-tile>G9</button>
            <button class="tile" data-tile>H9</button>
            <button class="tile" data-tile>I9</button>
            <button class="tile" data-tile>J9</button>
            <button class="tile" data-tile>A10</putton>
            <button class="tile" data-tile>B10</button>
            <button class="tile" data-tile>C10</button>
            <button class="tile" data-tile>D10</button>
            <button class="tile" data-tile>E10</putton>
            <button class="tile" data-tile>F10</button>
            <button class="tile" data-tile>G10</putton>
            <button class="tile" data-tile>H10</putton>
            <button class="tile" data-tile>I10</putton>
            <button class="tile" data-tile>J10</button>
        </div>
        <button data-start-game-btn id='start-game-btn' class="default-start-btn">Start
Game</button>
   </div>
    <div id="setup-right">
        <div class="statistics">
```

<button class="tile" data-tile>C6</button>

```
<h3>Statistics</h3>
       Hit Accuracy: NA
       Best Game: NA
       Win Percentage: NA
       Games Played: NA
   </div>
</div>
</div>
<div id="container" class="invisible">
   <div id="header">
       <a href="index.htm" class="home"><img src="Untitled-1.png" alt=""></a>
       BATTLESHIPS
   </div>
   <div id="left">
       Player's ships
       <div id="left-grid">
           <button class="tile" data-tile-left>A1</button>
           <button class="tile" data-tile-left>B1</button>
           <button class="tile" data-tile-left>C1</button>
           <button class="tile" data-tile-left>D1</button>
           <button class="tile" data-tile-left>E1</button>
           <button class="tile" data-tile-left>F1</button>
           <button class="tile" data-tile-left>G1
           <button class="tile" data-tile-left>H1</button>
           <button class="tile" data-tile-left>I1</button>
           <button class="tile" data-tile-left>J1</button>
           <button class="tile" data-tile-left>A2</button>
           <button class="tile" data-tile-left>B2</button>
           <button class="tile" data-tile-left>C2</button>
           <button class="tile" data-tile-left>D2</button>
           <button class="tile" data-tile-left>E2</button>
           <button class="tile" data-tile-left>F2</button>
           <button class="tile" data-tile-left>G2</button>
           <button class="tile" data-tile-left>H2</button>
           <button class="tile" data-tile-left>I2</button>
           <button class="tile" data-tile-left>J2</button>
           <button class="tile" data-tile-left>A3</button>
           <button class="tile" data-tile-left>B3</button>
           <button class="tile" data-tile-left>C3</button>
           <button class="tile" data-tile-left>D3</button>
           <button class="tile" data-tile-left>E3</button>
           <button class="tile" data-tile-left>F3</button>
           <button class="tile" data-tile-left>G3</button>
           <button class="tile" data-tile-left>H3</button>
           <button class="tile" data-tile-left>I3</button>
           <button class="tile" data-tile-left>J3</button>
           <button class="tile" data-tile-left>A4</button>
           <button class="tile" data-tile-left>B4</button>
           <button class="tile" data-tile-left>C4</button>
           <button class="tile" data-tile-left>D4</button>
           <button class="tile" data-tile-left>E4</button>
           <button class="tile" data-tile-left>F4</button>
           <button class="tile" data-tile-left>G4</button>
           <button class="tile" data-tile-left>H4</button>
```

```
<button class="tile" data-tile-left>I4</button>
<button class="tile" data-tile-left>J4</button>
<button class="tile" data-tile-left>A5</button>
<button class="tile" data-tile-left>B5</button>
<button class="tile" data-tile-left>C5</button>
<button class="tile" data-tile-left>D5</button>
<button class="tile" data-tile-left>E5</button>
<button class="tile" data-tile-left>F5</button>
<button class="tile" data-tile-left>G5</button>
<button class="tile" data-tile-left>H5</button>
<button class="tile" data-tile-left>I5</button>
<button class="tile" data-tile-left>J5</button>
<button class="tile" data-tile-left>A6</button>
<button class="tile" data-tile-left>B6</button>
<button class="tile" data-tile-left>C6</button>
<button class="tile" data-tile-left>D6</button>
<button class="tile" data-tile-left>E6</button>
<button class="tile" data-tile-left>F6</button>
<button class="tile" data-tile-left>G6</button>
<button class="tile" data-tile-left>H6</button>
<button class="tile" data-tile-left>I6</button>
<button class="tile" data-tile-left>J6</button>
<button class="tile" data-tile-left>A7</button>
<button class="tile" data-tile-left>B7</button>
<button class="tile" data-tile-left>C7</button>
<button class="tile" data-tile-left>D7</button>
<button class="tile" data-tile-left>E7</button>
<button class="tile" data-tile-left>F7</button>
<button class="tile" data-tile-left>G7</button>
<button class="tile" data-tile-left>H7</button>
<button class="tile" data-tile-left>I7</button>
<button class="tile" data-tile-left>J7</button>
<button class="tile" data-tile-left>A8</button>
<button class="tile" data-tile-left>B8</button>
<button class="tile" data-tile-left>C8</button>
<button class="tile" data-tile-left>D8</button>
<button class="tile" data-tile-left>E8</button>
<button class="tile" data-tile-left>F8</button>
<button class="tile" data-tile-left>G8</button>
<button class="tile" data-tile-left>H8</button>
<button class="tile" data-tile-left>I8</button>
<button class="tile" data-tile-left>J8</button>
<button class="tile" data-tile-left>A9</button>
<button class="tile" data-tile-left>B9</button>
<button class="tile" data-tile-left>C9</button>
<button class="tile" data-tile-left>D9</button>
<button class="tile" data-tile-left>E9</button>
<button class="tile" data-tile-left>F9</button>
<button class="tile" data-tile-left>G9</button>
<button class="tile" data-tile-left>H9</button>
<button class="tile" data-tile-left>19</button>
<button class="tile" data-tile-left>J9</button>
<button class="tile" data-tile-left>A10/button>
<button class="tile" data-tile-left>B10</button>
<button class="tile" data-tile-left>C10</button>
```

```
<button class="tile" data-tile-left>D10</button>
       <button class="tile" data-tile-left>E10</button>
       <button class="tile" data-tile-left>F10</button>
       <button class="tile" data-tile-left>G10</button>
       <button class="tile" data-tile-left>H10</button>
       <button class="tile" data-tile-left>I10</button>
       <button class="tile" data-tile-left>J10</button>
    </div>
</div>
<div id="middle" class="invisible">
    <div id='popup' class="invisible">
       <a href="Battle.htm" data-new-game>New Game</a>
    </div>
</div>
<div id="waiting" class="invisible"></div>
<div id="right">
    Opponent's ships
    <div id="right-grid">
       <button class="tile" data-tile-right>A1</putton>
       <button class="tile" data-tile-right>B1</button>
       <button class="tile" data-tile-right>C1</button>
       <button class="tile" data-tile-right>D1</button>
       <button class="tile" data-tile-right>E1</button>
       <button class="tile" data-tile-right>F1</button>
       <button class="tile" data-tile-right>G1
       <button class="tile" data-tile-right>H1
       <button class="tile" data-tile-right>I1
       <button class="tile" data-tile-right>J1
       <button class="tile" data-tile-right>A2</button>
       <button class="tile" data-tile-right>B2</button>
       <button class="tile" data-tile-right>C2</button>
       <button class="tile" data-tile-right>D2</button>
       <button class="tile" data-tile-right>E2</button>
       <button class="tile" data-tile-right>F2</button>
       <button class="tile" data-tile-right>G2</button>
       <button class="tile" data-tile-right>H2</button>
       <button class="tile" data-tile-right>I2</button>
        <button class="tile" data-tile-right>J2</button>
       <button class="tile" data-tile-right>A3</button>
       <button class="tile" data-tile-right>B3</button>
       <button class="tile" data-tile-right>C3</button>
       <button class="tile" data-tile-right>D3</button>
       <button class="tile" data-tile-right>E3</button>
       <button class="tile" data-tile-right>F3</button>
       <button class="tile" data-tile-right>G3</button>
       <button class="tile" data-tile-right>H3</button>
       <button class="tile" data-tile-right>I3</button>
       <button class="tile" data-tile-right>J3</button>
       <button class="tile" data-tile-right>A4</button>
       <button class="tile" data-tile-right>B4</button>
       <button class="tile" data-tile-right>C4</button>
       <button class="tile" data-tile-right>D4</button>
        <button class="tile" data-tile-right>E4</button>
```

```
<button class="tile" data-tile-right>F4</button>
<button class="tile" data-tile-right>G4</button>
<button class="tile" data-tile-right>H4</button>
<button class="tile" data-tile-right>I4</button>
<button class="tile" data-tile-right>J4</button>
<button class="tile" data-tile-right>A5</button>
<button class="tile" data-tile-right>B5</button>
<button class="tile" data-tile-right>C5</button>
<button class="tile" data-tile-right>D5</button>
<button class="tile" data-tile-right>E5</button>
<button class="tile" data-tile-right>F5</button>
<button class="tile" data-tile-right>G5</button>
<button class="tile" data-tile-right>H5</button>
<button class="tile" data-tile-right>I5</button>
<button class="tile" data-tile-right>J5</button>
<button class="tile" data-tile-right>A6</button>
<button class="tile" data-tile-right>B6</button>
<button class="tile" data-tile-right>C6</button>
<button class="tile" data-tile-right>D6</button>
<button class="tile" data-tile-right>E6</button>
<button class="tile" data-tile-right>F6</button>
<button class="tile" data-tile-right>G6</button>
<button class="tile" data-tile-right>H6</button>
<button class="tile" data-tile-right>I6</button>
<button class="tile" data-tile-right>J6</button>
<button class="tile" data-tile-right>A7</button>
<button class="tile" data-tile-right>B7</button>
<button class="tile" data-tile-right>C7</button>
<button class="tile" data-tile-right>D7</button>
<button class="tile" data-tile-right>E7</button>
<button class="tile" data-tile-right>F7</button>
<button class="tile" data-tile-right>G7</button>
<button class="tile" data-tile-right>H7</button>
<button class="tile" data-tile-right>I7</button>
<button class="tile" data-tile-right>J7</button>
<button class="tile" data-tile-right>A8</button>
<button class="tile" data-tile-right>B8</button>
<button class="tile" data-tile-right>C8</button>
<button class="tile" data-tile-right>D8</button>
<button class="tile" data-tile-right>E8</button>
<button class="tile" data-tile-right>F8</button>
<button class="tile" data-tile-right>G8</button>
<button class="tile" data-tile-right>H8</button>
<button class="tile" data-tile-right>I8</button>
<button class="tile" data-tile-right>J8</button>
<button class="tile" data-tile-right>A9</button>
<button class="tile" data-tile-right>B9</button>
<button class="tile" data-tile-right>C9</button>
<button class="tile" data-tile-right>D9</button>
<button class="tile" data-tile-right>E9</button>
<button class="tile" data-tile-right>F9</button>
<button class="tile" data-tile-right>G9</button>
<button class="tile" data-tile-right>H9</button>
<button class="tile" data-tile-right>19</button>
<button class="tile" data-tile-right>J9</button>
```

#### index.htm

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
 <title>Battleship Game - Play Now</title>
 <link rel="stylesheet" href="styleWelcome.css">
  <script src="welcome.js" defer></script>
</head>
<body>
 <header>
 </header>
  <main>
    <section class="hero">
     <h1>Battleship Game</h1>
     Command your fleet and sink your opponent's ships in this classic game of strategy
and skill.
     <a class="play-btn" href="Battle.htm">Play Against Robot</a>
     <a class="play-btn" href="Multiplayer.htm">Play Against Friend</a>
   </section>
   cimg class="svg" src="./stuff/reshot-icon-battleship-3S2UXP5MHE.svg" alt="">
    <section class="instructions">
       <h2>How to Play Battleships</h2>
         Each player places their ships on the board by clicking on the cells. You can
rotate the ship by clicking the rotate button.
         Once both players have placed their ships, the game begins. The players take
turns guessing the location of the other player's ships by clicking on the cells on the board.
If a player's guess hits a ship, it will be marked as a hit. If the guess
misses, it will be marked as a miss.
         The game continues until one player has sunk all of the other player's ships.
</section>
 </main>
</body>
```

</html>

# Multiplayer.htm

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="multiplayer.css">
    <link rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.1.1</pre>
/animate.min.css"/>
    <script src="multiplayer.js" defer></script>
</head>
<body>
    <div id="setup-container-player-1" class="">
        <header><a href="index.htm" class="home"><img src="Untitled-1.png" alt=""></a>SET UP
YOUR SHIPS - Player 1</header>
        <div id="setup-btns">
            <div id="btn-container">
                Select your ship!
                <button data-ship-btn-player-1 data-ship-btn class="default-ship-</pre>
btn">Destroyer</button>
                <button data-ship-btn-player-1 data-ship-btn class="default-ship-</pre>
btn">Submarine</button>
                <button data-ship-btn-player-1 data-ship-btn class="default-ship-</pre>
btn">Cruiser</button>
                <button data-ship-btn-player-1 data-ship-btn class="default-ship-</pre>
btn">Battleship</button>
                <button data-ship-btn-player-1 data-ship-btn class="default-ship-
btn">Carrier</button>
                <hr>>
                <button data-remove-btn-player-1 class="default-btns">Remove</button>
                <button data-clear-btn-player-1 class="default-btns">Clear
                <button data-rotate-btn-player-1 class="default-btns">Rotate
            </div>
        </div>
    <div id="setup-middle">
        <div id="setup-grid">
            <button class="tile" data-tile-player-1>A1</button>
            <button class="tile" data-tile-player-1>B1</button>
            <button class="tile" data-tile-player-1>C1</button>
            <button class="tile" data-tile-player-1>D1
            <button class="tile" data-tile-player-1>E1</button>
            <button class="tile" data-tile-player-1>F1/button>
            <button class="tile" data-tile-player-1>G1
            <button class="tile" data-tile-player-1>H1</button>
            <button class="tile" data-tile-player-1>I1
            <button class="tile" data-tile-player-1>J1
            <button class="tile" data-tile-player-1>A2</button>
```

```
<button class="tile" data-tile-player-1>B2</button>
<button class="tile" data-tile-player-1>C2</button>
<button class="tile" data-tile-player-1>D2</button>
<button class="tile" data-tile-player-1>E2</button>
<button class="tile" data-tile-player-1>F2</button>
<button class="tile" data-tile-player-1>G2</button>
<button class="tile" data-tile-player-1>H2</button>
<button class="tile" data-tile-player-1>I2</button>
<button class="tile" data-tile-player-1>J2</button>
<button class="tile" data-tile-player-1>A3</button>
<button class="tile" data-tile-player-1>B3</button>
<button class="tile" data-tile-player-1>C3</button>
<button class="tile" data-tile-player-1>D3</button>
<button class="tile" data-tile-player-1>E3</button>
<button class="tile" data-tile-player-1>F3</button>
<button class="tile" data-tile-player-1>G3</button>
<button class="tile" data-tile-player-1>H3</button>
<button class="tile" data-tile-player-1>I3/button>
<button class="tile" data-tile-player-1>J3</button>
<button class="tile" data-tile-player-1>A4</button>
<button class="tile" data-tile-player-1>B4</button>
<button class="tile" data-tile-player-1>C4</button>
<button class="tile" data-tile-player-1>D4</button>
<button class="tile" data-tile-player-1>E4</button>
<button class="tile" data-tile-player-1>F4</button>
<button class="tile" data-tile-player-1>G4</button>
<button class="tile" data-tile-player-1>H4</button>
<button class="tile" data-tile-player-1>I4</button>
<button class="tile" data-tile-player-1>J4</button>
<button class="tile" data-tile-player-1>A5</button>
<button class="tile" data-tile-player-1>B5</button>
<button class="tile" data-tile-player-1>C5</button>
<button class="tile" data-tile-player-1>D5</button>
<button class="tile" data-tile-player-1>E5</button>
<button class="tile" data-tile-player-1>F5</button>
<button class="tile" data-tile-player-1>G5</button>
<button class="tile" data-tile-player-1>H5</button>
<button class="tile" data-tile-player-1>I5</button>
<button class="tile" data-tile-player-1>J5</button>
<button class="tile" data-tile-player-1>A6</button>
<button class="tile" data-tile-player-1>B6</button>
<button class="tile" data-tile-player-1>C6</button>
<button class="tile" data-tile-player-1>D6</button>
<button class="tile" data-tile-player-1>E6</button>
<button class="tile" data-tile-player-1>F6</button>
<button class="tile" data-tile-player-1>G6</button>
<button class="tile" data-tile-player-1>H6</button>
<button class="tile" data-tile-player-1>I6</button>
<button class="tile" data-tile-player-1>J6</button>
<button class="tile" data-tile-player-1>A7</button>
<button class="tile" data-tile-player-1>B7</button>
<button class="tile" data-tile-player-1>C7</button>
<button class="tile" data-tile-player-1>D7</button>
<button class="tile" data-tile-player-1>E7</button>
<button class="tile" data-tile-player-1>F7</button>
```

```
<button class="tile" data-tile-player-1>G7</button>
            <button class="tile" data-tile-player-1>H7</button>
            <button class="tile" data-tile-player-1>I7</button>
            <button class="tile" data-tile-player-1>J7</button>
            <button class="tile" data-tile-player-1>A8</button>
            <button class="tile" data-tile-player-1>B8</button>
            <button class="tile" data-tile-player-1>C8</button>
            <button class="tile" data-tile-player-1>D8</button>
            <button class="tile" data-tile-player-1>E8</button>
            <button class="tile" data-tile-player-1>F8</button>
            <button class="tile" data-tile-player-1>G8</button>
            <button class="tile" data-tile-player-1>H8</button>
            <button class="tile" data-tile-player-1>I8</button>
            <button class="tile" data-tile-player-1>J8</button>
            <button class="tile" data-tile-player-1>A9</button>
            <button class="tile" data-tile-player-1>B9</button>
            <button class="tile" data-tile-player-1>C9</button>
            <button class="tile" data-tile-player-1>D9</button>
            <button class="tile" data-tile-player-1>E9</button>
            <button class="tile" data-tile-player-1>F9</button>
            <button class="tile" data-tile-player-1>G9</button>
            <button class="tile" data-tile-player-1>H9</button>
            <button class="tile" data-tile-player-1>I9</button>
            <button class="tile" data-tile-player-1>J9</button>
            <button class="tile" data-tile-player-1>A10/button>
            <button class="tile" data-tile-player-1>B10</button>
            <button class="tile" data-tile-player-1>C10</button>
            <button class="tile" data-tile-player-1>D10</button>
            <button class="tile" data-tile-player-1>E10</button>
            <button class="tile" data-tile-player-1>F10</button>
            <button class="tile" data-tile-player-1>G10</button>
            <button class="tile" data-tile-player-1>H10</button>
            <button class="tile" data-tile-player-1>I10</button>
            <button class="tile" data-tile-player-1>J10</button>
        <button data-confirm-player-1 id='start-game-btn' class="default-start-btn">Start
Game</button>
    </div>
    </div>
    <div id="setup-container-player-2" class="invisible">
        <header><a href="index.htm" class="home"><img src="Untitled-1.png" alt=""></a>SET UP
YOUR SHIPS - Player 2</header>
        <div id="setup-btns">
            <div id="btn-container">
                Select your ship!
                <button data-ship-btn-player-2 data-ship-btn class="default-ship-</pre>
btn">Destroyer</button>
                <button data-ship-btn-player-2 data-ship-btn class="default-ship-
btn">Submarine</button>
                <button data-ship-btn-player-2 data-ship-btn class="default-ship-</pre>
btn">Cruiser</button>
                <button data-ship-btn-player-2 data-ship-btn class="default-ship-</pre>
btn">Battleship</button>
                <button data-ship-btn-player-2 data-ship-btn class="default-ship-
btn">Carrier</button>
```

```
<hr>>
            <button data-remove-btn-player-2 class="default-btns">Remove</button>
            <button data-clear-btn-player-2 class="default-btns">Clear</button>
            <button data-rotate-btn-player-2 class="default-btns">Rotate</button>
        </div>
    </div>
<div id="setup-middle">
    <div id="setup-grid">
        <button class="tile" data-tile-player-2>A1
        <button class="tile" data-tile-player-2>B1</button>
        <button class="tile" data-tile-player-2>C1</button>
        <button class="tile" data-tile-player-2>D1</button>
        <button class="tile" data-tile-player-2>E1/button>
        <button class="tile" data-tile-player-2>F1</button>
        <button class="tile" data-tile-player-2>G1
        <button class="tile" data-tile-player-2>H1</button>
        <button class="tile" data-tile-player-2>I1
        <button class="tile" data-tile-player-2>J1</button>
        <button class="tile" data-tile-player-2>A2</button>
        <button class="tile" data-tile-player-2>B2</button>
        <button class="tile" data-tile-player-2>C2</button>
        <button class="tile" data-tile-player-2>D2</button>
        <button class="tile" data-tile-player-2>E2</button>
        <button class="tile" data-tile-player-2>F2</button>
        <button class="tile" data-tile-player-2>G2</button>
        <button class="tile" data-tile-player-2>H2</button>
        <button class="tile" data-tile-player-2>I2</button>
        <button class="tile" data-tile-player-2>J2</button>
        <button class="tile" data-tile-player-2>A3</button>
        <button class="tile" data-tile-player-2>B3</button>
        <button class="tile" data-tile-player-2>C3</button>
        <button class="tile" data-tile-player-2>D3</button>
        <button class="tile" data-tile-player-2>E3</button>
        <button class="tile" data-tile-player-2>F3</button>
        <button class="tile" data-tile-player-2>G3</button>
        <button class="tile" data-tile-player-2>H3</button>
        <button class="tile" data-tile-player-2>I3</button>
        <button class="tile" data-tile-player-2>J3</button>
        <button class="tile" data-tile-player-2>A4</button>
        <button class="tile" data-tile-player-2>B4</button>
        <button class="tile" data-tile-player-2>C4</button>
        <button class="tile" data-tile-player-2>D4</button>
        <button class="tile" data-tile-player-2>E4</button>
        <button class="tile" data-tile-player-2>F4</button>
        <button class="tile" data-tile-player-2>G4</button>
        <button class="tile" data-tile-player-2>H4</button>
        <button class="tile" data-tile-player-2>I4</button>
        <button class="tile" data-tile-player-2>J4</button>
        <button class="tile" data-tile-player-2>A5</button>
        <button class="tile" data-tile-player-2>B5</button>
        <button class="tile" data-tile-player-2>C5</button>
        <button class="tile" data-tile-player-2>D5</button>
        <button class="tile" data-tile-player-2>E5</button>
        <button class="tile" data-tile-player-2>F5</button>
```

```
<button class="tile" data-tile-player-2>G5</button>
    <button class="tile" data-tile-player-2>H5</button>
    <button class="tile" data-tile-player-2>I5</button>
    <button class="tile" data-tile-player-2>J5</button>
    <button class="tile" data-tile-player-2>A6</button>
    <button class="tile" data-tile-player-2>B6</button>
    <button class="tile" data-tile-player-2>C6</button>
    <button class="tile" data-tile-player-2>D6</button>
    <button class="tile" data-tile-player-2>E6</button>
    <button class="tile" data-tile-player-2>F6</button>
    <button class="tile" data-tile-player-2>G6</button>
    <button class="tile" data-tile-player-2>H6</button>
    <button class="tile" data-tile-player-2>I6</button>
    <button class="tile" data-tile-player-2>J6</button>
    <button class="tile" data-tile-player-2>A7</button>
    <button class="tile" data-tile-player-2>B7</button>
    <button class="tile" data-tile-player-2>C7</button>
    <button class="tile" data-tile-player-2>D7</button>
    <button class="tile" data-tile-player-2>E7</button>
    <button class="tile" data-tile-player-2>F7</button>
    <button class="tile" data-tile-player-2>G7</button>
    <button class="tile" data-tile-player-2>H7</button>
    <button class="tile" data-tile-player-2>I7</button>
    <button class="tile" data-tile-player-2>J7</button>
    <button class="tile" data-tile-player-2>A8</button>
    <button class="tile" data-tile-player-2>B8</button>
    <button class="tile" data-tile-player-2>C8</button>
    <button class="tile" data-tile-player-2>D8</button>
    <button class="tile" data-tile-player-2>E8</button>
    <button class="tile" data-tile-player-2>F8</button>
    <button class="tile" data-tile-player-2>G8</button>
    <button class="tile" data-tile-player-2>H8</button>
    <button class="tile" data-tile-player-2>I8</button>
    <button class="tile" data-tile-player-2>J8</button>
    <button class="tile" data-tile-player-2>A9</button>
    <button class="tile" data-tile-player-2>B9</button>
    <button class="tile" data-tile-player-2>C9</button>
    <button class="tile" data-tile-player-2>D9</button>
    <button class="tile" data-tile-player-2>E9</button>
    <button class="tile" data-tile-player-2>F9</button>
    <button class="tile" data-tile-player-2>G9</button>
    <button class="tile" data-tile-player-2>H9</button>
    <button class="tile" data-tile-player-2>19/button>
    <button class="tile" data-tile-player-2>J9</button>
    <button class="tile" data-tile-player-2>A10</button>
    <button class="tile" data-tile-player-2>B10</button>
    <button class="tile" data-tile-player-2>C10</button>
    <button class="tile" data-tile-player-2>D10</button>
    <button class="tile" data-tile-player-2>E10</button>
    <button class="tile" data-tile-player-2>F10</button>
    <button class="tile" data-tile-player-2>G10</button>
    <button class="tile" data-tile-player-2>H10</button>
    <button class="tile" data-tile-player-2>I10</button>
    <button class="tile" data-tile-player-2>J10</button>
</div>
```

```
<button data-confirm-player-2 id='start-game-btn' class="default-start-btn">Start
Game</button>
    </div>
    </div>
    <div id="container" class="invisible">
        <div id="header">
            <a href="index.htm" class="home"><img src="Untitled-1.png" alt=""></a>
            BATTLESHIPS
        </div>
        <div id="left">
            Player-1 ships
            <div id="left-grid">
                <button class="tile" data-tile-left>A1</putton>
                <button class="tile" data-tile-left>B1</button>
                <button class="tile" data-tile-left>C1</button>
                <button class="tile" data-tile-left>D1/button>
                <button class="tile" data-tile-left>E1</button>
                <button class="tile" data-tile-left>F1</button>
                <button class="tile" data-tile-left>G1
                <button class="tile" data-tile-left>H1/button>
                <button class="tile" data-tile-left>I1</button>
                <button class="tile" data-tile-left>J1</button>
                <button class="tile" data-tile-left>A2</button>
                <button class="tile" data-tile-left>B2</button>
                <button class="tile" data-tile-left>C2</button>
                <button class="tile" data-tile-left>D2</button>
                <button class="tile" data-tile-left>E2</button>
                <button class="tile" data-tile-left>F2</button>
                <button class="tile" data-tile-left>G2</button>
                <button class="tile" data-tile-left>H2</button>
                <button class="tile" data-tile-left>I2</button>
                <button class="tile" data-tile-left>J2</button>
                <button class="tile" data-tile-left>A3</button>
                <button class="tile" data-tile-left>B3</button>
                <button class="tile" data-tile-left>C3</button>
                <button class="tile" data-tile-left>D3</button>
                <button class="tile" data-tile-left>E3</button>
                <button class="tile" data-tile-left>F3</button>
                <button class="tile" data-tile-left>G3</button>
                <button class="tile" data-tile-left>H3</button>
                <button class="tile" data-tile-left>I3</button>
                <button class="tile" data-tile-left>J3</button>
                <button class="tile" data-tile-left>A4</button>
                <button class="tile" data-tile-left>B4</button>
                <button class="tile" data-tile-left>C4</button>
                <button class="tile" data-tile-left>D4</button>
                <button class="tile" data-tile-left>E4</button>
                <button class="tile" data-tile-left>F4</button>
                <button class="tile" data-tile-left>G4</button>
                <button class="tile" data-tile-left>H4</button>
                <button class="tile" data-tile-left>I4</button>
                <button class="tile" data-tile-left>J4</button>
                <button class="tile" data-tile-left>A5</button>
```

```
<button class="tile" data-tile-left>B5</button>
<button class="tile" data-tile-left>C5</button>
<button class="tile" data-tile-left>D5</button>
<button class="tile" data-tile-left>E5</button>
<button class="tile" data-tile-left>F5</button>
<button class="tile" data-tile-left>G5</button>
<button class="tile" data-tile-left>H5</button>
<button class="tile" data-tile-left>I5</button>
<button class="tile" data-tile-left>J5</button>
<button class="tile" data-tile-left>A6</button>
<button class="tile" data-tile-left>B6</button>
<button class="tile" data-tile-left>C6</button>
<button class="tile" data-tile-left>D6</button>
<button class="tile" data-tile-left>E6</button>
<button class="tile" data-tile-left>F6</button>
<button class="tile" data-tile-left>G6</button>
<button class="tile" data-tile-left>H6</button>
<button class="tile" data-tile-left>I6</button>
<button class="tile" data-tile-left>J6</button>
<button class="tile" data-tile-left>A7</button>
<button class="tile" data-tile-left>B7</button>
<button class="tile" data-tile-left>C7</button>
<button class="tile" data-tile-left>D7</button>
<button class="tile" data-tile-left>E7</button>
<button class="tile" data-tile-left>F7</button>
<button class="tile" data-tile-left>G7</button>
<button class="tile" data-tile-left>H7</button>
<button class="tile" data-tile-left>I7</button>
<button class="tile" data-tile-left>J7</button>
<button class="tile" data-tile-left>A8</button>
<button class="tile" data-tile-left>B8</button>
<button class="tile" data-tile-left>C8</button>
<button class="tile" data-tile-left>D8</button>
<button class="tile" data-tile-left>E8</button>
<button class="tile" data-tile-left>F8</button>
<button class="tile" data-tile-left>G8</button>
<button class="tile" data-tile-left>H8</button>
<button class="tile" data-tile-left>I8</button>
<button class="tile" data-tile-left>J8</button>
<button class="tile" data-tile-left>A9</button>
<button class="tile" data-tile-left>B9</button>
<button class="tile" data-tile-left>C9</button>
<button class="tile" data-tile-left>D9</button>
<button class="tile" data-tile-left>E9</button>
<button class="tile" data-tile-left>F9</button>
<button class="tile" data-tile-left>G9</button>
<button class="tile" data-tile-left>H9</button>
<button class="tile" data-tile-left>19</button>
<button class="tile" data-tile-left>J9</button>
<button class="tile" data-tile-left>A10</putton>
<button class="tile" data-tile-left>B10</button>
<button class="tile" data-tile-left>C10</button>
<button class="tile" data-tile-left>D10</button>
<button class="tile" data-tile-left>E10</button>
<button class="tile" data-tile-left>F10</button>
```

```
<button class="tile" data-tile-left>G10</button>
        <button class="tile" data-tile-left>H10</button>
        <button class="tile" data-tile-left>I10</putton>
        <button class="tile" data-tile-left>J10</button>
    </div>
</div>
<div id="middle" class="invisible">
   <div id='popup'>
       <a href="Multiplayer.htm" data-new-game>New Game</a>
    </div>
</div>
<div id="right">
    Player-2 ships
    <div id="right-grid">
        <button class="tile" data-tile-right>A1/button>
        <button class="tile" data-tile-right>B1</button>
        <button class="tile" data-tile-right>C1</button>
        <button class="tile" data-tile-right>D1
        <button class="tile" data-tile-right>E1</button>
        <button class="tile" data-tile-right>F1/button>
        <button class="tile" data-tile-right>G1
        <button class="tile" data-tile-right>H1</button>
        <button class="tile" data-tile-right>I1</button>
        <button class="tile" data-tile-right>J1</button>
        <button class="tile" data-tile-right>A2</button>
        <button class="tile" data-tile-right>B2</button>
        <button class="tile" data-tile-right>C2</button>
        <button class="tile" data-tile-right>D2</button>
        <button class="tile" data-tile-right>E2</button>
        <button class="tile" data-tile-right>F2</button>
        <button class="tile" data-tile-right>G2</button>
        <button class="tile" data-tile-right>H2</button>
        <button class="tile" data-tile-right>I2</button>
        <button class="tile" data-tile-right>J2</button>
        <button class="tile" data-tile-right>A3</button>
        <button class="tile" data-tile-right>B3</button>
        <button class="tile" data-tile-right>C3</button>
        <button class="tile" data-tile-right>D3</button>
        <button class="tile" data-tile-right>E3</button>
        <button class="tile" data-tile-right>F3</button>
        <button class="tile" data-tile-right>G3</button>
        <button class="tile" data-tile-right>H3</button>
        <button class="tile" data-tile-right>I3</button>
        <button class="tile" data-tile-right>J3</button>
        <button class="tile" data-tile-right>A4</button>
        <button class="tile" data-tile-right>B4</button>
        <button class="tile" data-tile-right>C4</button>
        <button class="tile" data-tile-right>D4</button>
        <button class="tile" data-tile-right>E4</button>
        <button class="tile" data-tile-right>F4</button>
        <button class="tile" data-tile-right>G4</button>
        <button class="tile" data-tile-right>H4</button>
        <button class="tile" data-tile-right>I4</button>
        <button class="tile" data-tile-right>J4</button>
```

```
<button class="tile" data-tile-right>A5</button>
<button class="tile" data-tile-right>B5</button>
<button class="tile" data-tile-right>C5</button>
<button class="tile" data-tile-right>D5</button>
<button class="tile" data-tile-right>E5</button>
<button class="tile" data-tile-right>F5</button>
<button class="tile" data-tile-right>G5</button>
<button class="tile" data-tile-right>H5</button>
<button class="tile" data-tile-right>I5</button>
<button class="tile" data-tile-right>J5</button>
<button class="tile" data-tile-right>A6</button>
<button class="tile" data-tile-right>B6</button>
<button class="tile" data-tile-right>C6</button>
<button class="tile" data-tile-right>D6</button>
<button class="tile" data-tile-right>E6</button>
<button class="tile" data-tile-right>F6</button>
<button class="tile" data-tile-right>G6</button>
<button class="tile" data-tile-right>H6</button>
<button class="tile" data-tile-right>I6</putton>
<button class="tile" data-tile-right>J6</button>
<button class="tile" data-tile-right>A7</button>
<button class="tile" data-tile-right>B7</button>
<button class="tile" data-tile-right>C7</button>
<button class="tile" data-tile-right>D7</button>
<button class="tile" data-tile-right>E7</button>
<button class="tile" data-tile-right>F7</button>
<button class="tile" data-tile-right>G7</button>
<button class="tile" data-tile-right>H7</button>
<button class="tile" data-tile-right>I7</button>
<button class="tile" data-tile-right>J7</button>
<button class="tile" data-tile-right>A8</button>
<button class="tile" data-tile-right>B8</button>
<button class="tile" data-tile-right>C8</button>
<button class="tile" data-tile-right>D8</button>
<button class="tile" data-tile-right>E8</button>
<button class="tile" data-tile-right>F8</button>
<button class="tile" data-tile-right>G8</button>
<button class="tile" data-tile-right>H8</button>
<button class="tile" data-tile-right>I8</button>
<button class="tile" data-tile-right>J8</button>
<button class="tile" data-tile-right>A9</button>
<button class="tile" data-tile-right>B9</button>
<button class="tile" data-tile-right>C9</button>
<button class="tile" data-tile-right>D9</button>
<button class="tile" data-tile-right>E9</button>
<button class="tile" data-tile-right>F9</button>
<button class="tile" data-tile-right>G9</button>
<button class="tile" data-tile-right>H9</button>
<button class="tile" data-tile-right>19</button>
<button class="tile" data-tile-right>J9</button>
<button class="tile" data-tile-right>A10</button>
<button class="tile" data-tile-right>B10</button>
<button class="tile" data-tile-right>C10</button>
<button class="tile" data-tile-right>D10</putton>
<button class="tile" data-tile-right>E10</button>
```

```
<button class="tile" data-tile-right>F10</button>
               <button class="tile" data-tile-right>G10</putton>
               <button class="tile" data-tile-right>H10</button>
               <button class="tile" data-tile-right>I10</button>
               <button class="tile" data-tile-right>J10</button>
           </div>
       </div>
   </div>
   <div id="waiting-screen-confirm-1" class="waitingScreen invisible">
        <header>
            BATTLESHIPS
       </header>
            <div class="wave wave1"></div>
            <div class="wave wave2"></div>
            <div class="wave wave3"></div>
            <div class="wave wave4"></div>
               <button id="continue-1" class="continue">Continue
               <a href="" class="hover-1"id="hover"></a>
               <a href="" class="hover-2"id="hover"></a>
               <a href="" class="hover-3"id="hover"></a>
   </div>
   <div id="waiting-screen-confirm-2" class="waitingScreen invisible">
       <div id="header">
           BATTLESHIPS
        </div>
           <div class="wave wave1"></div>
            <div class="wave wave2"></div>
            <div class="wave wave3"></div>
            <div class="wave wave4"></div>
       <button id="continue-2" class="continue">Continue/button>
        <a href="" class="hover-1" id="hover"></a>
            <a href="" class="hover-2" id="hover"></a>
           <a href="" class="hover-3"id="hover"></a>
    </div>
   <div id="waiting-screen" class="waitingScreen invisible">
       <div id="header">
           BATTLESHIPS
       </div>
            <div class="wave wave1"></div>
            <div class="wave wave2"></div>
           <div class="wave wave3"></div>
            <div class="wave wave4"></div>
       <button id="continue-battle" class="continue">Continue/button>
        <a href="" class="hover-1"id="hover"></a>
            <a href="" class="hover-2"id="hover"></a>
            <a href="" class="hover-3"id="hover"></a>
    </div>
</body>
</html>
```

# main.js

```
import {oppShipsGenerator, opponentReset} from "./oppShipSetup.js"
let OpponentShipTiles
//LETTER & NUMBER COORDS
export let NumberCoordinates = ['blank', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
export let LetterCoordinates = ['blank', 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J']
//CONTAINERS
let setupContainer = document.querySelector('#setup-container')
let battleContainer = document.querySelector('#container')
let middle = document.querySelector('#middle')
let messageBox = document.querySelector('#message')
let popup = document.querySelector('#popup')
let waitingScreen = document.querySelector('#waiting')
//TILES OF EACH GRID
export let LeftTiles = document.querySelectorAll('[data-tile-left]')
export let RightTiles = document.querySelectorAll('[data-tile-right]')
let SetupTiles = document.querySelectorAll('[data-tile]')
//GRIDS
let SetupGrid = document.querySelector('#setup-grid')
//BTNS FOR SETUP
let RotateBtn = document.querySelector('[data-rotate-btn]')
let ClearBtn = document.querySelector('[data-clear-btn]')
let RemoveBtn = document.querySelector('[data-remove-btn]')
let StartGameBtn = document.querySelector('[data-start-game-btn]')
let shipBtns = document.querySelectorAll('[data-ship-btn]')
//SETUP VARIABLES
let PlayerShipTiles = ['blank']
let LatestShipTiles = []
let PreviewTiles = []
let latestShipBtn = undefined
let overlapCount
let placedCount = 0
let shipLength
let shipName
let isClicked = false
let isVertical = false
let isShipBtn = false
let isValid = true
let isOverlapping = false
//SHIP TILE ARRAYS
let DestroyerOppTiles
let SubmarineOppTiles
let CruiserOppTiles
let BattleshipOppTiles
let CarrierOppTiles
let DestroyerPlayerTiles
let SubmarinePlayerTiles
let CruiserPlayerTiles
let BattleshipPlayerTiles
let CarrierPlayerTiles
```

```
//Variables for Game Logic
let PlayerPrevClicked = ['blank']
let OppPrevClicked = ['blank']
let PlayerClickedTile
let isPlayerTurn
let isWaste
let OppClickedTile
let direction
let workingOnShip = false
let LetterCoordIndex
let NumberCoordIndex
let startNumCoordIndex
let startLetCoordIndex
let validOpp
let reverse
let sinkOppShip
let sinkPlayerShip
let playerShipSinkCount
let oppShipSinkCount
let waiting
let win
let newGameBtn = document.querySelector('[data-new-game]')
let winText = document.querySelector('[data-win-text]')
//Statistics
let playerBombCount = 0
let playerHitCount = 0
let gameCount = 0
let winCount = ∅
let leastBombCount = null
let currentBombCount = 0
let accuracy
let winPercent
let accuracyHTML = document.querySelector('[data-accuracy]')
let winPercentHTML = document.querySelector('[data-win-percentage]')
let gamesPlayedHTML = document.querySelector('[data-games-played]')
let bestGameHTML = document.querySelector('[data-best-game]')
let clearStats = document.querySelector('[data-clear]')
//EVENTLISTENER MOUSELEAVE ON GRID
SetupGrid.addEventListener('mouseleave', () =>{
    clearPreviews()
})
function clearPreviews(){
    SetupTiles.forEach(tile =>{
        tile.classList.remove('ship')
    })
}
//EVENTLISTENER ON REMOVE BTN
RemoveBtn.addEventListener('click', () =>{
    PlayerShipTiles.forEach(playerShipTile =>{
        LatestShipTiles.forEach(latestShipTile =>{
            if(playerShipTile.innerHTML == latestShipTile){
```

```
PlayerShipTiles[PlayerShipTiles.indexOf(playerShipTile)] = 'removed'
            }
        })
    })
    if(placedCount > 0){
        placedCount --
    SetupTiles.forEach(setupTile =>{
        LatestShipTiles.forEach(latestShipTile =>{
            if(latestShipTile == setupTile.innerHTML){
                setupTile.className = ''
                setupTile.classList.add('tile')
            }
        })
    })
    //get latestshipbtn to work and restart after removed
    shipBtns.forEach(shipBtn =>{
        shipBtn.classList.remove('clicked')
        if(shipBtn.className == ''){
            shipBtn.classList.add('default-ship-btn')
        }
        if(shipBtn.innerHTML == latestShipBtn){
            shipBtn.classList.remove('placed')
            shipBtn.classList.add('default-ship-btn')
        }
        resetAfterPlaced()
        StartGameBtn.classList.remove('ready')
        StartGameBtn.classList.add('default-start-btn')
    })
})
//EVENTLISTENER ON CLEAR BTN
ClearBtn.addEventListener('click', () =>{
    PlayerShipTiles = ['blank']
    LatestShipTiles = []
    PreviewTiles = []
    latestShipBtn = undefined
    overlapCount
    placedCount = 0
    shipLength
    shipName
    isClicked = false
    isVertical = false
    isShipBtn = false
    isValid = true
    isOverlapping = false
    //SHIPBTNS CLASSES
    shipBtns.forEach(shipBtn =>{
        shipBtn.className = 'default-ship-btn'
    })
    //Setup Tile Classes
    SetupTiles.forEach(setupTile =>{
        setupTile.className = ''
```

```
setupTile.classList.add('tile')
    })
    //Startgame btn class
    StartGameBtn.className = 'default-start-btn'
})
//EVENTLISTENER ON ROTATEBTN
RotateBtn.addEventListener('click', () =>{
    isVertical = isVertical !== true
})
//EVENTLISTENER ON STARTBTN
StartGameBtn.addEventListener('click', () =>{
    if(StartGameBtn.classList.contains('ready')){
        setupContainer.classList.add('invisible')
        battleContainer.classList.remove('invisible')
        startGame()
    }
})
//EVENTLISTENER ON SHIP BTN
document.addEventListener('click', (e) =>{
    isShipBtn = e.target.matches('[data-ship-btn]')
    if(isShipBtn && !e.target.classList.contains('placed')){
        document.querySelectorAll('[data-ship-btn]').forEach(shipBtn =>{
            shipBtn.classList.remove('clicked')
            if(shipBtn.className == ''){
                shipBtn.classList.add('default-ship-btn')
            }
        })
        e.target.classList.remove('default-ship-btn')
        e.target.classList.add('clicked')
        shipName = e.target.innerHTML
        isClicked = true
        getShipLength()
    }
})
//GET SHIP LENGTH
function getShipLength(){
    switch (shipName) {
        case "Destroyer":
            shipLength = 2
            break;
        case "Submarine":
            shipLength = 3
            break;
        case "Cruiser":
            shipLength = 3
            break;
        case "Battleship":
            shipLength = 4
            break;
        case "Carrier":
            shipLength = 5
```

```
break;
        default:
            break;
    }
}
//EVENTLISTENER ON TILE MOUSEOVER
SetupTiles.forEach(tile =>{
    tile.addEventListener('mouseover', (TileIndex, LetterCoordIndex, NumberCoordIndex) => {
        //REMOVE CLASS FROM EACH TILE
        SetupTiles.forEach(tile => {
            tile.classList.remove('ship')
        })
        overlapCount = 0
        //GET TILE INDEX IN ARRAY
        for(let i = 0; i <= SetupTiles.length; i++){</pre>
            if(tile == SetupTiles[i]){
                TileIndex = i
                PreviewTiles = []
            }
        }
        //GET PREVIEW TILES --- Horizontal
        if(!isVertical){
            for(let i=0; i<shipLength;i++){</pre>
                PreviewTiles.push(SetupTiles[TileIndex+i].innerHTML)
            }
        }
        //GET PREVIEW TILES --- Vertical
        if(isVertical){
            for(let i=0; i<shipLength*10;i =i+10){</pre>
                PreviewTiles.push(SetupTiles[TileIndex+i].innerHTML)
            }
        }
        //GET LETTERCOORD in Array (index)
        for(let i = 0; i <LetterCoordinates.length; i++){</pre>
            if(LetterCoordinates[i] == tile.innerHTML.slice(0,1)){
                 LetterCoordIndex = i
        }
        //GET NUMCOORD in ARRAY (index)
        for(let i = 0; i <NumberCoordinates.length; i++){</pre>
            if(NumberCoordinates[i] == tile.innerHTML.slice(1,3)){
                NumberCoordIndex = i
            }
        }
        //CHECK IF VALID --- Horizontal
        if(!isVertical){
        if(isClicked && LetterCoordIndex + shipLength <=11){</pre>
            isValid=true
```

```
}else{
    isValid = false
}
//CHECK IF VALID --- Vertical
if(isVertical){
if(isClicked && NumberCoordIndex + shipLength <=11){</pre>
    isValid = true
}else{
    isValid = false
}
}
//CHECK OVERLAP -- Horizontal
if(!isVertical){
PlayerShipTiles.forEach(playerTile =>{
    PreviewTiles.forEach(previewTile =>{
        if(previewTile == playerTile.innerHTML){
            isOverlapping = true
            overlapCount++
            console.log('overlap')
        }
    })
    if(overlapCount<=0){</pre>
        isOverlapping = false
    }
})
}
//CHECK OVERLAP -- Vertical
if(isVertical){
PlayerShipTiles.forEach(playerTile =>{
    PreviewTiles.forEach(previewTile =>{
        if(previewTile == playerTile.innerHTML){
            isOverlapping = true
            overlapCount++
            console.log('overlap')
        }
    })
    if(overlapCount<=0){</pre>
        isOverlapping = false
    }
})
}
//ADD CLASS TO EACH SHIP TILE --- Horizontal
if(isClicked && !isVertical && isValid){
    if(!isOverlapping){
    for(let i = 0; i < shipLength; i++){</pre>
        SetupTiles[TileIndex + i].classList.add('ship')
    }
    }
}
```

```
//ADD CLASS TO EACH SHIP TILE --- Vertical
        if(isClicked && isVertical && isValid){
            if(!isOverlapping){
            for(let i = 0; i < shipLength * 10; i = i + 10){</pre>
                SetupTiles[TileIndex + i].classList.add('ship')
            }
            }
        }
    })
})
//EVENTLISTENER ON TILE CLICK
SetupTiles.forEach(tile =>{
    tile.addEventListener('click', () =>{
        LatestShipTiles = []
        if(isValid && !isOverlapping){
            playClick()
            latestShipBtn = shipName
            document.querySelectorAll('.ship').forEach(shipTile =>{
                PlayerShipTiles.push(shipTile)
                LatestShipTiles.push(shipTile.innerHTML)
                shipTile.classList.add('shipClicked')
                switch (shipName) {
                     case "Destroyer":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('destroyer')
                             })
                         }
                         break;
                     case "Submarine":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('submarine')
                             })
                         }
                         break;
                     case "Cruiser":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('cruiser')
                             })
                         }
                         break;
                     case "Battleship":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('battleship')
                             })
                         }
                         break;
                     case "Carrier":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
```

```
shipTile.classList.add('carrier')
                            })
                        }
                        break;
                    default:
                        break;
                }
                resetAfterPlaced()
            })
            placedCount++
            if(placedCount >= 5){
                StartGameBtn.classList.add('ready')
                StartGameBtn.classList.remove('default-start-btn')
            }
            document.querySelector('.clicked').classList.add('placed')
            document.querySelector('.clicked').classList.remove('clicked')
       }
   })
})
function resetAfterPlaced(){
    isClicked = false
    isValid = true
   isShipBtn = false
    isVertical = false
    shipLength = undefined
    shipName = undefined
    isOverlapping = false
}
//START GAME
function startGame(){
    oppShipsGenerator()
    assignValues()
    addPlayerShipClasses()
    isPlayerTurn = true
   workingOnShip = false
    isOpposite = false
    reverse = false
}
function assignValues(){
    DestroyerOppTiles = document.querySelectorAll('.destroyerOpp')
    SubmarineOppTiles = document.querySelectorAll('.submarineOpp')
   CruiserOppTiles = document.querySelectorAll('.cruiserOpp')
   BattleshipOppTiles = document.querySelectorAll('.battleshipOpp')
    CarrierOppTiles = document.querySelectorAll('.carrierOpp')
    OpponentShipTiles = document.querySelectorAll('.shipOpp')
   DestroyerPlayerTiles = document.querySelectorAll('.destroyer')
   SubmarinePlayerTiles = document.querySelectorAll('.submarine')
    CruiserPlayerTiles = document.querySelectorAll('.cruiser')
   BattleshipPlayerTiles = document.querySelectorAll('.battleship')
    CarrierPlayerTiles = document.querySelectorAll('.carrier')
    direction = undefined
```

```
waiting = false
    win = false
    playerShipSinkCount = 0
    oppShipSinkCount = 0
    LeftTiles.forEach(LeftTile =>{
        PlayerShipTiles.forEach(PlayerShipTile =>{
            if(PlayerShipTile.innerHTML == LeftTile.innerHTML){
                LeftTile.classList.add('playerShip')
            }
        })
    })
    PlayerShipTiles = []
    document.querySelectorAll('.playerShip').forEach(playerShip =>{
        PlayerShipTiles.push(playerShip)
    })
}
function addPlayerShipClasses(){
    LeftTiles.forEach(leftTile =>{
        DestroyerPlayerTiles.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('playerDestroyer')
            }
        })
    })
    LeftTiles.forEach(leftTile =>{
        SubmarinePlayerTiles.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('playerSubmarine')
            }
        })
    })
    LeftTiles.forEach(leftTile =>{
        CruiserPlayerTiles.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('playerCruiser')
            }
        })
    })
    LeftTiles.forEach(leftTile =>{
        BattleshipPlayerTiles.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('playerBattleship')
            }
        })
    })
    LeftTiles.forEach(leftTile =>{
        CarrierPlayerTiles.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('playerCarrier')
            }
        })
    })
    DestroyerPlayerTiles = document.querySelectorAll('.playerDestroyer')
    SubmarinePlayerTiles = document.querySelectorAll('.playerSubmarine')
```

```
CruiserPlayerTiles = document.querySelectorAll('.playerCruiser')
    BattleshipPlayerTiles = document.querySelectorAll('.playerBattleship')
    CarrierPlayerTiles = document.querySelectorAll('.playerCarrier')
}
/////GAME LOGIC
RightTiles.forEach(rightTile =>{
    rightTile.addEventListener('click', (e) =>{
        console.log(playerShipSinkCount, oppShipSinkCount)
        if(!waiting){
        PlayerClickedTile = e.target.innerHTML
        if(isPlayerTurn){
           PlayerPrevClicked.forEach(playerprevclickedtile =>{
                if(PlayerClickedTile == playerprevclickedtile){
                    isWaste = true
                    //alert
                }
            })
        }
        if(isPlayerTurn && !isWaste){
            PlayerPrevClicked.push(PlayerClickedTile)
            rightTile.classList.add('bomb')
            checkHit()
        }
        if(!isWaste && isPlayerTurn){
            isPlayerTurn = false
            setTimeout(() => {
                oppTurn()
            }, 300);
        }
        isWaste = false
    }
    })
})
function checkHit(currentHitOpp){
    if(isPlayerTurn){
        playerBombCount++
        currentBombCount++
        OpponentShipTiles.forEach(OpponentShipTile =>{
            if(PlayerClickedTile == OpponentShipTile.innerHTML){
                playerHitCount++
                OpponentShipTile.classList.add('tileSink')
                OpponentShipTile.classList.remove('bomb')
                checkSink()
            }
        })
    }
    if(!isPlayerTurn){
        currentHitOpp = false
        PlayerShipTiles.forEach(playerShipTile =>{
            if(playerShipTile.innerHTML == OppClickedTile){
                playerShipTile.classList.add('tileSink')
                playerShipTile.classList.remove('bomb')
                if(!workingOnShip){
```

```
startLetCoordIndex = LetterCoordIndex
                    startNumCoordIndex = NumberCoordIndex
                }
                currentHitOpp = true
                workingOnShip = true
                checkSink()
            }
        })
        if(!currentHitOpp && workingOnShip){
            reverse = true
        }
    }
}
function checkSink(){
    if(isPlayerTurn){
        sinkOppShip = false
        destroyerOppSink()
        submarineOppSink()
        cruiserOppSink()
        battleshipOppSink()
        carrierOppSink()
        //ALERT PLAYER SUNK OPP SHIP
        if(sinkOppShip){
            middle.classList.remove('invisible')
            playBomb()
            checkWin()
            isPlayerTurn = false
            setTimeout(() => {
                if(!win){
                    middle.classList.add('invisible')
                    setTimeout(() => {
                        oppTurn()
                    }, 300);
                }
                messageBox.innerHTML = ''
            }, 2000);
        }
    }
    if(!isPlayerTurn){
        sinkPlayerShip = false
        destroyerPlayerSink()
        submarinePlayerSink()
        cruiserPlayerSink()
        battleshipPlayerSink()
        carrierPlayerSink()
        if(sinkPlayerShip){
            middle.classList.remove('invisible')
            workingOnShip = false
            reverse = false
            direction = undefined
            playBomb()
            checkWin()
            isPlayerTurn = false
            waiting = true
```

```
setTimeout(() => {
                if(!win){
                    middle.classList.add('invisible')
                setTimeout(() => {
                    isPlayerTurn = true
                    waiting = false
                    messageBox.innerHTML = ''
                }, 300);
            }, 2000);
        }
   }
}
function checkWin(){
        if(oppShipSinkCount == 5){
            gameCount++
            winCount++
            popupFunction()
            statistics()
            isPlayerTurn = false
            winText.innerHTML = 'You won'
            console.log('playerWin')
        }
        if(playerShipSinkCount == 5){
            gameCount++
            popupFunction()
            statistics()
            isPlayerTurn = false
            winText.innerHTML = 'You lost'
            console.log('oppWin')
        }
}
function popupFunction(){
    middle.classList.add('background')
   middle.classList.remove('invisible')
   popup.classList.remove('invisible')
   win = true
}
function statistics(){
    console.log(playerHitCount, playerBombCount, gameCount, winCount)
    accuracy = Math.round(playerHitCount/playerBombCount * 100) + '%'
   winPercent = Math.round(winCount/gameCount * 100) + '%'
    if(leastBombCount < currentBombCount || leastBombCount == null){</pre>
        leastBombCount = currentBombCount
    }
    localStorage.setItem('leastBombCount', leastBombCount)
    localStorage.setItem('accuracy', accuracy)
    localStorage.setItem('winPercent', winPercent)
    localStorage.setItem('gameCount', gameCount)
    localStorage.setItem('playerHitCount', playerHitCount)
    localStorage.setItem('playerBombCount', playerBombCount)
    localStorage.setItem('winCount', winCount)
```

```
}
function oppTurn(){
    if(reverse){
        reverseDir()
    if(!isPlayerTurn && !workingOnShip){
        if(!reverse){
            getRandTile()
        }
    if(workingOnShip && direction != undefined){
        if(!reverse){
            addDirection()
        }
    if(workingOnShip && direction == undefined){
        if(!reverse){
            getRandDir()
            addDirection()
        }
    }
    checkValid()
    if(!validOpp){
        workingOnShip = false
        direction = undefined
        getRandTile()
    }
    for(let i = 0; i<=LetterCoordinates.length; i++){</pre>
        if(OppClickedTile.slice(0,1) == LetterCoordinates[i]){
            LetterCoordIndex = i
        }
    for(let i = 0; i<=NumberCoordinates.length; i++){</pre>
        if(OppClickedTile.slice(1,3) == NumberCoordinates[i]){
            NumberCoordIndex = i
        }
    }
    reverse = false
    //add bomb class
    LeftTiles.forEach(LeftTile =>{
        if(LeftTile.innerHTML == OppClickedTile){
            LeftTile.classList.add('bomb')
        }
    })
    //add tile to prev clicked
    OppPrevClicked.push(OppClickedTile)
    checkHit()
    waitingScreen.classList.remove('invisible')
    setTimeout(() => {
        isPlayerTurn = true
        waitingScreen.classList.add('invisible')
```

```
}, 300);
}
function addDirection(){
    switch (direction) {
        case 1:
            OppClickedTile =
LetterCoordinates[LetterCoordIndex]+NumberCoordinates[NumberCoordIndex-1]
            OppClickedTile =
LetterCoordinates[LetterCoordIndex+1]+NumberCoordinates[NumberCoordIndex]
            break;
        case 3:
            OppClickedTile =
LetterCoordinates[LetterCoordIndex]+NumberCoordinates[NumberCoordIndex+1]
            break;
        case 4:
            OppClickedTile = LetterCoordinates[LetterCoordIndex-
1]+NumberCoordinates[NumberCoordIndex]
            break;
        default:
            break;
    }
}
function getRandDir(){
    direction = Math.floor(Math.random()*4+1)
}
function getRandTile(repeat){
    repeat = false
    OppClickedTile = LetterCoordinates[Math.floor(Math.random()*10+1)] +
NumberCoordinates[Math.floor(Math.random()*10+1)]
    OppPrevClicked.forEach(prevClicked =>{
        if(OppClickedTile == prevClicked){
            repeat = true
        }
    })
    if(repeat){
        getRandTile()
    }
}
function checkValid(boardTile, prevClickedTileOpp){
    validOpp = false
   boardTile = false
   prevClickedTileOpp = false
    LeftTiles.forEach(leftTile =>{
        if(leftTile.innerHTML == OppClickedTile){
            boardTile = true
        }
    })
    OppPrevClicked.forEach(prevClicked =>{
        if(prevClicked == OppClickedTile){
            prevClickedTileOpp = true
        }
```

```
})
    if(boardTile && !prevClickedTileOpp){
       validOpp = true
}
function reverseDir(){
    switch (direction) {
        case 1:
            direction = 3
            OppClickedTile =
LetterCoordinates[startLetCoordIndex]+NumberCoordinates[startNumCoordIndex+1]
        case 2:
            OppClickedTile = LetterCoordinates[startLetCoordIndex-
1]+NumberCoordinates[startNumCoordIndex]
            break;
        case 3:
            direction = 1
            OppClickedTile =
LetterCoordinates[startLetCoordIndex]+NumberCoordinates[startNumCoordIndex-1]
        case 4:
            direction = 2
            OppClickedTile =
LetterCoordinates[startLetCoordIndex+1]+NumberCoordinates[startNumCoordIndex]
        default:
            break;
    }
}
//SINK FUNCTIONS
function destroyerOppSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   DestroyerOppTiles.forEach(destroyerOppTile =>{
        if(destroyerOppTile.classList.contains('tileSink')){
        }
       if(destroyerOppTile.innerHTML == PlayerClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == DestroyerOppTiles.length){
        sinkOppShip = true
        currentShipSink = true
    if(currentShipSink){
       DestroyerOppTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
        oppShipSinkCount++
```

```
messageBox.innerHTML = "You sank the opponent's Destroyer"
    }
}
function submarineOppSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   SubmarineOppTiles.forEach(submarineOppTile =>{
        if(submarineOppTile.classList.contains('tileSink')){
            count++
        }
       if(submarineOppTile.innerHTML == PlayerClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == SubmarineOppTiles.length){
        sinkOppShip = true
        currentShipSink = true
    if(currentShipSink){
        SubmarineOppTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
       })
       oppShipSinkCount++
       messageBox.innerHTML = "You sank the opponent's Submarine"
    }
}
function cruiserOppSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   CruiserOppTiles.forEach(cruiserOppTile =>{
        if(cruiserOppTile.classList.contains('tileSink')){
            count++
        }
       if(cruiserOppTile.innerHTML == PlayerClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == CruiserOppTiles.length){
        sinkOppShip = true
        currentShipSink = true
    if(currentShipSink){
       CruiserOppTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
       })
       oppShipSinkCount++
       messageBox.innerHTML = "You sank the opponent's Cruiser"
    }
function battleshipOppSink(belongsToShip, count, currentShipSink){
```

```
count = 0
   belongsToShip = false
    currentShipSink = false
    BattleshipOppTiles.forEach(battleshipOppTile =>{
        if(battleshipOppTile.classList.contains('tileSink')){
            count++
        }
       if(battleshipOppTile.innerHTML == PlayerClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == BattleshipOppTiles.length){
        sinkOppShip = true
        currentShipSink = true
    if(currentShipSink){
        BattleshipOppTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
       oppShipSinkCount++
       messageBox.innerHTML = "You sank the opponent's Battleship"
    }
}
function carrierOppSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    CarrierOppTiles.forEach(battleshipOppTile =>{
        if(battleshipOppTile.classList.contains('tileSink')){
            count++
        }
       if(battleshipOppTile.innerHTML == PlayerClickedTile){
            belongsToShip = true
       }
    })
    if(belongsToShip && count == CarrierOppTiles.length){
        sinkOppShip = true
        currentShipSink = true
    if(currentShipSink){
       CarrierOppTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
       oppShipSinkCount++
       messageBox.innerHTML = "You sank the opponent's Carrier"
    }
}
function destroyerPlayerSink(belongsToShip, count, currentShipSink){
    count = 0
    belongsToShip = false
    currentShipSink = false
   DestroyerPlayerTiles.forEach(destroyerPlayerTile =>{
```

```
if(destroyerPlayerTile.classList.contains('tileSink')){
            count++
        }
       if(destroyerPlayerTile.innerHTML == OppClickedTile){
            belongsToShip = true
       }
    })
    if(belongsToShip && count == DestroyerPlayerTiles.length){
        sinkPlayerShip = true
        currentShipSink = true
    if(currentShipSink){
        DestroyerPlayerTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
       })
        playerShipSinkCount++
       messageBox.innerHTML = "The opponent sank your Destroyer"
    }
}
function submarinePlayerSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   SubmarinePlayerTiles.forEach(submarinePlayerTile =>{
        if(submarinePlayerTile.classList.contains('tileSink')){
            count++
        }
        if(submarinePlayerTile.innerHTML == OppClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == SubmarinePlayerTiles.length){
        sinkPlayerShip = true
        currentShipSink = true
    if(currentShipSink){
        SubmarinePlayerTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
        playerShipSinkCount++
       messageBox.innerHTML = "The opponent sank your Submarine"
    }
}
function cruiserPlayerSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    CruiserPlayerTiles.forEach(cruiserPlayerTile =>{
        if(cruiserPlayerTile.classList.contains('tileSink')){
        if(cruiserPlayerTile.innerHTML == OppClickedTile){
            belongsToShip = true
```

```
}
    })
    if(belongsToShip && count == CruiserPlayerTiles.length){
        sinkPlayerShip = true
        currentShipSink = true
    if(currentShipSink){
        CruiserPlayerTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
        playerShipSinkCount++
       messageBox.innerHTML = "The opponent sank your Cruiser"
    }
}
function battleshipPlayerSink(belongsToShip, count, currentShipSink){
    count = 0
    belongsToShip = false
    currentShipSink = false
   BattleshipPlayerTiles.forEach(battleshipPlayerTile =>{
        if(battleshipPlayerTile.classList.contains('tileSink')){
            count++
        }
        if(battleshipPlayerTile.innerHTML == OppClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == BattleshipPlayerTiles.length){
        sinkPlayerShip = true
        currentShipSink = true
    if(currentShipSink){
        BattleshipPlayerTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
        playerShipSinkCount++
       messageBox.innerHTML = "The opponent sank your Battleship"
    }
}
function carrierPlayerSink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   CarrierPlayerTiles.forEach(carrierPlayerTile =>{
        if(carrierPlayerTile.classList.contains('tileSink')){
            count++
        if(carrierPlayerTile.innerHTML == OppClickedTile){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == CarrierPlayerTiles.length){
        sinkPlayerShip = true
        currentShipSink = true
```

```
if(currentShipSink){
        CarrierPlayerTiles.forEach(oppTile =>{
            oppTile.classList.add('shipSink')
            oppTile.classList.remove('tileSink')
        })
        playerShipSinkCount++
        messageBox.innerHTML = "The opponent sank your Carrier"
    }
}
function playBomb(){
    var audio = new Audio('./stuff/audio.wav')
    audio.play()
}
function playClick(){
    var audio = new Audio('./stuff/click.wav')
    audio.play()
}
window.addEventListener('load', () =>{
    accuracyHTML.innerHTML = 'Hit Accuracy: ' + localStorage.getItem('accuracy')
    winPercentHTML.innerHTML = 'Win Percentage: ' + localStorage.getItem('winPercent')
    gamesPlayedHTML.innerHTML = 'Games Played: ' + localStorage.getItem('gameCount')
    bestGameHTML.innerHTML = 'Best Game:' + localStorage.getItem('leastBombCount') + ' Hits'
    playerBombCount = localStorage.getItem('playerBombCount')
    playerHitCount = localStorage.getItem('playerHitCount')
    gameCount = localStorage.getItem('gameCount')
    winCount = localStorage.getItem('winCount')
})
clearStats.addEventListener('click', () =>{
    window.localStorage.clear()
})
```

## multiplayer.js

```
const NumberCoordinates = ['blank', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
const LetterCoordinates = ['blank', 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J']

let player1SetupTiles = document.querySelectorAll('[data-tile-player-1]')
    let player2SetupTiles = document.querySelectorAll('[data-tile-player-2]')
    const setupGrids = document.querySelectorAll('#setup-grid')
    const setupContainer1 = document.querySelector('#setup-container-player-1')
    const setupContainer2 = document.querySelector('#setup-container-player-2')

const battleContainer = document.querySelector('#container')
    const leftTiles = document.querySelectorAll('[data-tile-left]')
    const rightTiles = document.querySelectorAll('[data-tile-right]')

let middle = document.querySelector('#middle')
    let messageBox = document.querySelector('[data-win-text]')
```

```
const waitingConf1 = document.querySelector('#waiting-screen-confirm-1')
const waitingConf2 = document.querySelector('#waiting-screen-confirm-2')
const waitingBattle = document.querySelector('#waiting-screen')
const continue1 = document.querySelector('#continue-1')
const continue2 = document.querySelector('#continue-2')
const continueBattle = document.querySelector('#continue-battle')
const removeBtn1 = document.querySelector('[data-remove-btn-player-1]')
const removeBtn2 = document.querySelector('[data-remove-btn-player-2]')
const rotateBtn1 = document.querySelector('[data-rotate-btn-player-1]')
const rotateBtn2 = document.querySelector('[data-rotate-btn-player-2]')
const clearBtn1 = document.querySelector('[data-clear-btn-player-1]')
const clearBtn2 = document.querySelector('[data-clear-btn-player-2]')
const confirm1 = document.querySelector('[data-confirm-player-1]')
const confirm2 = document.querySelector('[data-confirm-player-2]')
const shipBtns1 = document.querySelectorAll('[data-ship-btn-player-1]')
const shipBtns2 = document.querySelectorAll('[data-ship-btn-player-2]')
let latestShipBtn = undefined
let overlapCount
let placedCount = 0
let shipLength
let shipName
let isClicked = false
let isVertical = false
let isShipBtn = false
let isValid = true
let isOverlapping = false
let player1ShipTiles = ['blank']
let player2ShipTiles = ['blank']
let latestShipTiles = []
let previewTiles = []
let destroyerPlayer1 = []
let submarinePlayer1 = []
let cruiserPlayer1 = []
let battleshipPlayer1 = []
let carrierPlayer1 = []
let destroyerPlayer2 = []
let submarinePlayer2 = []
let cruiserPlayer2 = []
let battleshipPlayer2 = []
let carrierPlayer2 = []
let player1PrevClicked = []
let player2PrevClicked = []
let player1Turn
let isWaste
let player1ShipSinkCount
let player2ShipSinkCount
let player1Current
let player2Current
let waiting
```

```
let win
let sinkPlayer1Ship
let sinkPlayer2Ship
//Event listener mouseleave
setupGrids.forEach(setupGrid =>{
    setupGrid.addEventListener('mouseleave', () =>{
        clearPreviews()
    })
})
function clearPreviews(){
    player1SetupTiles.forEach(tile =>{
        tile.classList.remove('ship')
    })
    player2SetupTiles.forEach(tile =>{
        tile.classList.remove('ship')
    })
}
//Eventlistener remove 1
removeBtn1.addEventListener('click', () =>{
    player1ShipTiles.forEach(player1ShipTile =>{
        latestShipTiles.forEach(latestShipTile =>{
            if(player1ShipTile.innerHTML == latestShipTile){
                player1ShipTiles[player1ShipTiles.indexOf(player1ShipTile)] = 'removed'
            }
        })
    })
    if(placedCount > 0){
        placedCount - -
    player1SetupTiles.forEach(setupTile =>{
        latestShipTiles.forEach(latestShipTile =>{
            if(latestShipTile == setupTile.innerHTML){
                setupTile.className = ''
                setupTile.classList.add('tile')
            }
        })
    })
    shipBtns1.forEach(shipBtn =>{
        shipBtn.classList.remove('clicked')
        if(shipBtn.className == ''){
            shipBtn.classList.add('default-ship-btn')
        if(shipBtn.innerHTML == latestShipBtn){
            shipBtn.classList.remove('placed')
            shipBtn.classList.add('default-ship-btn')
        }
        resetAfterPlaced()
        confirm1.classList.remove('ready')
        confirm1.classList.add('default-start-btn')
    })
})
```

```
//Event listener remove 2
removeBtn2.addEventListener('click', () =>{
    player2ShipTiles.forEach(player1ShipTile =>{
        latestShipTiles.forEach(latestShipTile =>{
            if(player1ShipTile.innerHTML == latestShipTile){
                player2ShipTiles[player2ShipTiles.indexOf(player1ShipTile)] = 'removed'
            }
        })
    })
    if(placedCount > 0){
        placedCount --
    }
    player2SetupTiles.forEach(setupTile =>{
        latestShipTiles.forEach(latestShipTile =>{
            if(latestShipTile == setupTile.innerHTML){
                setupTile.className = ''
                setupTile.classList.add('tile')
            }
        })
    })
    shipBtns2.forEach(shipBtn =>{
        shipBtn.classList.remove('clicked')
        if(shipBtn.className == ''){
            shipBtn.classList.add('default-ship-btn')
        }
        if(shipBtn.innerHTML == latestShipBtn){
            shipBtn.classList.remove('placed')
            shipBtn.classList.add('default-ship-btn')
        }
        resetAfterPlaced()
        confirm2.classList.remove('ready')
        confirm2.classList.add('default-start-btn')
    })
})
//Event listener Clear 1
clearBtn1.addEventListener('click', () =>{
    player1ShipTiles = ['blank']
    latestShipTiles = []
    previewTiles = []
    latestShipBtn = undefined
    overlapCount
    placedCount = 0
    shipLength
    shipName
    isClicked = false
    isVertical = false
    isShipBtn = false
    isValid = true
    isOverlapping = false
    //SHIPBTNS CLASSES
    shipBtns1.forEach(shipBtn =>{
        shipBtn.className = 'default-ship-btn'
```

```
})
    //Setup Tile Classes
    player1SetupTiles.forEach(setupTile =>{
        setupTile.className = ''
        setupTile.classList.add('tile')
    })
    //Startgame btn class
    confirm1.className = 'default-start-btn'
})
//Event listener Clear 2
clearBtn2.addEventListener('click', () =>{
    player2ShipTiles = ['blank']
    latestShipTiles = []
    previewTiles = []
    latestShipBtn = undefined
    overlapCount
    placedCount = 0
    shipLength
    shipName
    isClicked = false
    isVertical = false
    isShipBtn = false
    isValid = true
    isOverlapping = false
    //SHIPBTNS CLASSES
    shipBtns2.forEach(shipBtn =>{
        shipBtn.className = 'default-ship-btn'
    })
    //Setup Tile Classes
    player2SetupTiles.forEach(setupTile =>{
        setupTile.className = ''
        setupTile.classList.add('tile')
    })
    //Startgame btn class
    confirm2.className = 'default-start-btn'
})
//Event listener Rotate 1
rotateBtn1.addEventListener('click', () =>{
    isVertical = isVertical !== true
})
//Event listener Rotate 2
rotateBtn2.addEventListener('click', () =>{
    isVertical = isVertical !== true
})
//Event listener Confirm 1
confirm1.addEventListener('click', () =>{
```

```
if(confirm1.classList.contains('ready')){
        setupContainer1.classList.add('invisible')
        waitingConf1.classList.remove('invisible')
        destroyerPlayer1 = document.querySelectorAll('.destroyer-1')
        submarinePlayer1 = document.querySelectorAll('.submarine-1')
        cruiserPlayer1 = document.querySelectorAll('.cruiser-1')
        battleshipPlayer1 = document.querySelectorAll('.battleship-1')
        carrierPlayer1 = document.querySelectorAll('.carrier-1')
        placedCount = 0
    }
})
continue1.addEventListener('click', () =>{
    continue1.classList.add('hover')
    setTimeout(() => {
        continue1.classList.add('animate animated', 'animate bounceOutUp')
    }, 900);
    setTimeout(() => {
        setupContainer2.classList.remove('invisible')
        waitingConf1.classList.add('invisible')
    }, 1600);
})
//Event listener Confirm 2
confirm2.addEventListener('click', () =>{
    if(confirm2.classList.contains('ready')){
        waitingConf2.classList.remove('invisible')
        setupContainer2.classList.add('invisible')
        destroyerPlayer2 = document.querySelectorAll('.destroyer-2')
        submarinePlayer2 = document.querySelectorAll('.submarine-2')
        cruiserPlayer2 = document.querySelectorAll('.cruiser-2')
        battleshipPlayer2 = document.querySelectorAll('.battleship-2')
        carrierPlayer2 = document.querySelectorAll('.carrier-2')
        startGame()
    }
})
continue2.addEventListener('click', () =>{
    continue2.classList.add('hover')
    setTimeout(() => {
        continue2.classList.add('animate animated', 'animate bounceOutUp')
    }, 900);
    setTimeout(() => {
        battleContainer.classList.remove('invisible')
        waitingConf2.classList.add('invisible')
    }, 1600);
})
//EVENTLISTENER ON SHIP BTN
document.addEventListener('click', (e) =>{
    isShipBtn = e.target.matches('[data-ship-btn]')
    console.log(isShipBtn)
    if(isShipBtn && !e.target.classList.contains('placed')){
        shipBtns1.forEach(shipBtn =>{
            shipBtn.classList.remove('clicked')
            if(shipBtn.className == ''){
                shipBtn.classList.add('default-ship-btn')
            }
```

```
})
        shipBtns2.forEach(shipBtn =>{
            shipBtn.classList.remove('clicked')
            if(shipBtn.className == ''){
                shipBtn.classList.add('default-ship-btn')
            }
        })
        e.target.classList.remove('default-ship-btn')
        e.target.classList.add('clicked')
        shipName = e.target.innerHTML
        isClicked = true
        getShipLength()
    }
})
//GET SHIP LENGTH
function getShipLength(){
    switch (shipName) {
        case "Destroyer":
            shipLength = 2
            break;
        case "Submarine":
            shipLength = 3
            break;
        case "Cruiser":
            shipLength = 3
            break;
        case "Battleship":
            shipLength = 4
            break;
        case "Carrier":
            shipLength = 5
            break;
        default:
            break;
    }
}
//EVENTLISTENER ON TILE MOUSEOVER Player 1
player1SetupTiles.forEach(tile =>{
    tile.addEventListener('mouseover', (TileIndex, LetterCoordIndex, NumberCoordIndex) => {
        //REMOVE CLASS FROM EACH TILE
        player1SetupTiles.forEach(tile => {
            tile.classList.remove('ship')
        })
        overlapCount = 0
        //GET TILE INDEX IN ARRAY
        for(let i = 0; i <= player1SetupTiles.length; i++){</pre>
            if(tile == player1SetupTiles[i]){
                TileIndex = i
                previewTiles = []
            }
        //GET PREVIEW TILES --- Horizontal
```

```
if(!isVertical){
    for(let i=0; i<shipLength;i++){</pre>
        previewTiles.push(player1SetupTiles[TileIndex+i].innerHTML)
    }
}
//GET PREVIEW TILES --- Vertical
if(isVertical){
    for(let i=0; i<shipLength*10;i =i+10){</pre>
        previewTiles.push(player1SetupTiles[TileIndex+i].innerHTML)
    }
}
//GET LETTERCOORD in Array (index)
for(let i = 0; i <LetterCoordinates.length; i++){</pre>
    if(LetterCoordinates[i] == tile.innerHTML.slice(0,1)){
        LetterCoordIndex = i
    }
}
//GET NUMCOORD in ARRAY (index)
for(let i = 0; i <NumberCoordinates.length; i++){</pre>
    if(NumberCoordinates[i] == tile.innerHTML.slice(1,3)){
        NumberCoordIndex = i
    }
}
//CHECK IF VALID --- Horizontal
if(!isVertical){
if(isClicked && LetterCoordIndex + shipLength <=11){</pre>
    isValid=true
}else{
    isValid = false
}
}
//CHECK IF VALID --- Vertical
if(isVertical){
if(isClicked && NumberCoordIndex + shipLength <=11){</pre>
    isValid = true
    isValid = false
}
}
//CHECK OVERLAP -- Horizontal
if(!isVertical){
player1ShipTiles.forEach(playerTile =>{
    previewTiles.forEach(previewTile =>{
        if(previewTile == playerTile.innerHTML){
            isOverlapping = true
            overlapCount++
            console.log('overlap')
        }
    })
```

```
if(overlapCount<=0){</pre>
                isOverlapping = false
            }
        })
        }
        //CHECK OVERLAP -- Vertical
        if(isVertical){
        player1ShipTiles.forEach(playerTile =>{
            previewTiles.forEach(previewTile =>{
                if(previewTile == playerTile.innerHTML){
                    isOverlapping = true
                    overlapCount++
                    console.log('overlap')
                }
            })
            if(overlapCount<=0){</pre>
                isOverlapping = false
            }
        })
        }
        //ADD CLASS TO EACH SHIP TILE --- Horizontal
        if(isClicked && !isVertical && isValid){
            if(!isOverlapping){
            for(let i = 0; i < shipLength; i++){</pre>
                player1SetupTiles[TileIndex + i].classList.add('ship')
            }
            }
        }
        //ADD CLASS TO EACH SHIP TILE --- Vertical
        if(isClicked && isVertical && isValid){
            if(!isOverlapping){
            for(let i = 0; i < shipLength * 10; i = i + 10){</pre>
                player1SetupTiles[TileIndex + i].classList.add('ship')
            }
            }
        }
   })
})
//EVENTLISTENER ON TILE MOUSEOVER Player 2
player2SetupTiles.forEach(tile =>{
    tile.addEventListener('mouseover', (TileIndex, LetterCoordIndex, NumberCoordIndex) => {
        //REMOVE CLASS FROM EACH TILE
        player2SetupTiles.forEach(tile => {
            tile.classList.remove('ship')
        })
        overlapCount = 0
        //GET TILE INDEX IN ARRAY
        for(let i = 0; i <= player2SetupTiles.length; i++){</pre>
            if(tile == player2SetupTiles[i]){
```

```
TileIndex = i
        previewTiles = []
}
//GET PREVIEW TILES --- Horizontal
if(!isVertical){
    for(let i=0; i<shipLength;i++){</pre>
        previewTiles.push(player2SetupTiles[TileIndex+i].innerHTML)
    }
}
//GET PREVIEW TILES --- Vertical
if(isVertical){
    for(let i=0; i<shipLength*10;i =i+10){</pre>
        previewTiles.push(player2SetupTiles[TileIndex+i].innerHTML)
}
//GET LETTERCOORD in Array (index)
for(let i = 0; i <LetterCoordinates.length; i++){</pre>
    if(LetterCoordinates[i] == tile.innerHTML.slice(0,1)){
        LetterCoordIndex = i
    }
}
//GET NUMCOORD in ARRAY (index)
for(let i = 0; i <NumberCoordinates.length; i++){</pre>
    if(NumberCoordinates[i] == tile.innerHTML.slice(1,3)){
        NumberCoordIndex = i
    }
}
//CHECK IF VALID --- Horizontal
if(!isVertical){
if(isClicked && LetterCoordIndex + shipLength <=11){</pre>
    isValid=true
}else{
    isValid = false
}
}
//CHECK IF VALID --- Vertical
if(isVertical){
if(isClicked && NumberCoordIndex + shipLength <=11){</pre>
    isValid = true
}else{
    isValid = false
}
}
//CHECK OVERLAP -- Horizontal
if(!isVertical){
player2ShipTiles.forEach(playerTile =>{
    previewTiles.forEach(previewTile =>{
        if(previewTile == playerTile.innerHTML){
```

})

```
isOverlapping = true
                    overlapCount++
                     console.log('overlap')
                }
            })
            if(overlapCount<=0){</pre>
                isOverlapping = false
            }
        })
        }
        //CHECK OVERLAP -- Vertical
        if(isVertical){
        player2ShipTiles.forEach(playerTile =>{
            previewTiles.forEach(previewTile =>{
                if(previewTile == playerTile.innerHTML){
                    isOverlapping = true
                    overlapCount++
                    console.log('overlap')
                }
            })
            if(overlapCount<=0){</pre>
                isOverlapping = false
            }
        })
        }
        //ADD CLASS TO EACH SHIP TILE --- Horizontal
        if(isClicked && !isVertical && isValid){
            if(!isOverlapping){
            for(let i = 0; i < shipLength; i++){</pre>
                player2SetupTiles[TileIndex + i].classList.add('ship')
            }
            }
        }
        //ADD CLASS TO EACH SHIP TILE --- Vertical
        if(isClicked && isVertical && isValid){
            if(!isOverlapping){
            for(let i = 0; i < shipLength * 10; i = i + 10){</pre>
                player2SetupTiles[TileIndex + i].classList.add('ship')
            }
            }
        }
    })
//EVENTLISTENER ON TILE CLICK
player1SetupTiles.forEach(tile =>{
    tile.addEventListener('click', () =>{
        latestShipTiles = []
        if(isValid && !isOverlapping){
            playClick()
            latestShipBtn = shipName
```

})

```
document.querySelectorAll('.ship').forEach(shipTile =>{
        player1ShipTiles.push(shipTile)
        latestShipTiles.push(shipTile.innerHTML)
        shipTile.classList.add('shipClicked')
        switch (shipName) {
            case "Destroyer":
                for(let i = 0; i<shipLength; i++){</pre>
                     document.querySelectorAll('.ship').forEach(shipTile =>{
                         shipTile.classList.add('destroyer-1')
                    })
                }
                break;
            case "Submarine":
                for(let i = 0; i<shipLength; i++){</pre>
                    document.querySelectorAll('.ship').forEach(shipTile =>{
                         shipTile.classList.add('submarine-1')
                    })
                }
                break;
            case "Cruiser":
                for(let i = 0; i<shipLength; i++){</pre>
                     document.querySelectorAll('.ship').forEach(shipTile =>{
                         shipTile.classList.add('cruiser-1')
                    })
                }
                break;
            case "Battleship":
                for(let i = 0; i<shipLength; i++){</pre>
                     document.querySelectorAll('.ship').forEach(shipTile =>{
                         shipTile.classList.add('battleship-1')
                    })
                }
                break;
            case "Carrier":
                for(let i = 0; i<shipLength; i++){</pre>
                     document.querySelectorAll('.ship').forEach(shipTile =>{
                         shipTile.classList.add('carrier-1')
                    })
                }
                break;
            default:
                break;
        resetAfterPlaced()
    })
    placedCount++
    if(placedCount >= 5){
        confirm1.classList.add('ready')
        confirm1.classList.remove('default-start-btn')
    }
    document.querySelector('.clicked').classList.add('placed')
    document.querySelector('.clicked').classList.remove('clicked')
}
```

```
})
//EVENTLISTENER ON TILE CLICK
player2SetupTiles.forEach(tile =>{
    tile.addEventListener('click', () =>{
        playClick()
        latestShipTiles = []
        if(isValid && !isOverlapping){
            latestShipBtn = shipName
            document.querySelectorAll('.ship').forEach(shipTile =>{
                player2ShipTiles.push(shipTile)
                latestShipTiles.push(shipTile.innerHTML)
                shipTile.classList.add('shipClicked')
                switch (shipName) {
                     case "Destroyer":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('destroyer-2')
                             })
                         }
                         break;
                     case "Submarine":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('submarine-2')
                             })
                         }
                         break;
                     case "Cruiser":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('cruiser-2')
                             })
                         }
                         break;
                     case "Battleship":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('battleship-2')
                             })
                         }
                         break;
                     case "Carrier":
                         for(let i = 0; i<shipLength; i++){</pre>
                             document.querySelectorAll('.ship').forEach(shipTile =>{
                                 shipTile.classList.add('carrier-2')
                             })
                         }
                         break;
                     default:
                         break;
                }
                resetAfterPlaced()
            })
            placedCount++
```

```
if(placedCount >= 5){
                confirm2.classList.add('ready')
                confirm2.classList.remove('default-start-btn')
            }
            document.guerySelector('.clicked').classList.add('placed')
            document.querySelector('.clicked').classList.remove('clicked')
        }
    })
})
function resetAfterPlaced(){
    isClicked = false
    isValid = true
    isShipBtn = false
    isVertical = false
    shipLength = undefined
    shipName = undefined
    isOverlapping = false
}
//START GAME
function startGame(){
    leftTiles.forEach(leftTile =>{
        destroyerPlayer1.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('player1Destroyer')
                leftTile.classList.add('ship1')
            }
        })
    })
    leftTiles.forEach(leftTile =>{
        submarinePlayer1.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('ship1')
                leftTile.classList.add('player1Submarine')
            }
        })
    })
    leftTiles.forEach(leftTile =>{
        cruiserPlayer1.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('ship1')
                leftTile.classList.add('player1Cruiser')
            }
        })
    })
    leftTiles.forEach(leftTile =>{
        battleshipPlayer1.forEach(shipTile =>{
            if(shipTile.innerHTML == leftTile.innerHTML){
                leftTile.classList.add('ship1')
                leftTile.classList.add('player1Battleship')
            }
        })
    })
```

```
leftTiles.forEach(leftTile =>{
    carrierPlayer1.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('ship1')
            leftTile.classList.add('player1Carrier')
        }
    })
})
destroyerPlayer1 = document.querySelectorAll('.player1Destroyer')
submarinePlayer1 = document.querySelectorAll('.player1Submarine')
cruiserPlayer1 = document.querySelectorAll('.player1Cruiser')
battleshipPlayer1 = document.querySelectorAll('.player1Battleship')
carrierPlayer1 = document.querySelectorAll('.player1Carrier')
player1ShipTiles = document.querySelectorAll('.ship1')
rightTiles.forEach(leftTile =>{
    destroyerPlayer2.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('player2Destroyer')
            leftTile.classList.add('ship2')
        }
    })
})
rightTiles.forEach(leftTile =>{
    submarinePlayer2.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('player2Submarine')
            leftTile.classList.add('ship2')
        }
    })
})
rightTiles.forEach(leftTile =>{
    cruiserPlayer2.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('player2Cruiser')
            leftTile.classList.add('ship2')
        }
    })
})
rightTiles.forEach(leftTile =>{
    battleshipPlayer2.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('player2Battleship')
            leftTile.classList.add('ship2')
        }
    })
})
rightTiles.forEach(leftTile =>{
    carrierPlayer2.forEach(shipTile =>{
        if(shipTile.innerHTML == leftTile.innerHTML){
            leftTile.classList.add('player2Carrier')
            leftTile.classList.add('ship2')
        }
    })
})
```

```
destroyerPlayer2 = document.querySelectorAll('.player2Destroyer')
    submarinePlayer2 = document.querySelectorAll('.player2Submarine')
    cruiserPlayer2 = document.querySelectorAll('.player2Cruiser')
    battleshipPlayer2 = document.querySelectorAll('.player2Battleship')
    carrierPlayer2 = document.querySelectorAll('.player2Carrier')
    player2ShipTiles = document.querySelectorAll('.ship2')
    player1PrevClicked = ['blank']
    player2PrevClicked = ['blank']
    player1ShipSinkCount = 0
    player2ShipSinkCount = 0
    player1Turn = true
    waiting = false
    win = false
    document.body.classList.add('player1')
}
//BATTLE
rightTiles.forEach(rightTile =>{
    rightTile.addEventListener('click', (e) =>{
        if(!waiting && player1Turn){
            isWaste = false
            waiting = true
        if(player1Turn){
            player1PrevClicked.forEach(player1PrevClickedTile =>{
                if(e.target.innerHTML == player1PrevClickedTile){
                    //alert not valid
                    isWaste = true
                    waiting = false
                }
            })
        }
        if(player1Turn && !isWaste){
            player1Current = e.target.innerHTML
            player1PrevClicked.push(player1Current)
            e.target.classList.add('bomb')
            checkHit()
        }
    }
    })
})
leftTiles.forEach(leftTile =>{
    leftTile.addEventListener('click', (e) =>{
        if(!waiting && !player1Turn){
            isWaste = false
            waiting = true
        if(!player1Turn){
            player2PrevClicked.forEach(player2PrevClickedTile =>{
                if(e.target.innerHTML == player2PrevClickedTile){
                    //alert not valid
                    isWaste = true
                    waiting = false
                }
```

```
})
        }
        if(!player1Turn && !isWaste){
            player2Current = e.target.innerHTML
            player2PrevClicked.push(player2Current)
            e.target.classList.add('bomb')
            checkHit()
        }
    }
    })
})
function checkHit(){
    if(player1Turn){
        player2ShipTiles.forEach(player2ShipTile =>{
            if(player1Current == player2ShipTile.innerHTML){
                player2ShipTile.classList.add('tileSink')
                player2ShipTile.classList.remove('bomb')
                checkSink()
            }
        })
        setTimeout(() => {
            if(!win){
                switchTurn()
        }, 1000);
    if(!player1Turn){
        player1ShipTiles.forEach(player1ShipTile =>{
            if(player2Current == player1ShipTile.innerHTML){
                player1ShipTile.classList.add('tileSink')
                player1ShipTile.classList.remove('bomb')
                checkSink()
            }
        })
        setTimeout(() => {
            if(!win){
                switchTurn()
            }
        }, 1000);
    }
}
function checkSink(){
    if(player1Turn){
        sinkPlayer2Ship = false
        destroyerPlayer2Sink()
        submarinePlayer2Sink()
        cruiserPlayer2Sink()
        battleshipPlayer2Sink()
        carrierPlayer2Sink()
        if(sinkPlayer2Ship){
            playMusic()
            checkWin()
        }
```

```
if(!player1Turn){
        sinkPlayer1Ship = false
        destroyerPlayer1Sink()
        submarinePlayer1Sink()
        cruiserPlayer1Sink()
        battleshipPlayer1Sink()
        carrierPlayer1Sink()
        if(sinkPlayer1Ship){
            playMusic()
            checkWin()
        }
    }
}
function checkWin(){
    if(player1ShipSinkCount == 5){
        messageBox.innerHTML = 'Player-2 Wins'
        popupFunction()
    if(player2ShipSinkCount == 5){
        messageBox.innerHTML = 'Player-1 Wins'
        popupFunction()
    }
}
function popupFunction(){
    middle.classList.add('background')
    middle.classList.remove('invisible')
    win = true
}
//Switch turns
function switchTurn(){
    if(document.body.className.includes('player1')){
        document.body.className = 'player2'
    }else{
        document.body.className = 'player1'
    if(player1Turn){
        player1Turn = false
    }else{
        player1Turn = true
    waitingBattle.classList.remove('invisible')
    battleContainer.classList.add('invisible')
    isWaste = false
    waiting = false
}
continueBattle.addEventListener('click', () =>{
    continueBattle.classList.add('hover')
    setTimeout(() => {
        continueBattle.classList.add('animate__animated','animate__bounceOutUp')
    }, 900);
    setTimeout(() => {
        battleContainer.classList.remove('invisible')
```

```
waitingBattle.classList.add('invisible')
        continueBattle.classList.remove('animate__animated', 'animate__bounceOutUp')
        continueBattle.classList.remove('hover')
    }, 1600);
})
function destroyerPlayer1Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    destroyerPlayer1.forEach(destroyerTile =>{
        if(destroyerTile.classList.contains('tileSink')){
            count++
       if(destroyerTile.innerHTML == player2Current){
            belongsToShip = true
       }
    })
    if(belongsToShip && count == destroyerPlayer1.length){
        sinkPlayer1Ship = true
        currentShipSink = true
    if(currentShipSink){
        destroyerPlayer1.forEach(destroyerTile =>{
            destroyerTile.classList.add('shipSink')
            destroyerTile.classList.remove('tileSink')
        })
        player1ShipSinkCount++
    }
}
function submarinePlayer1Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    submarinePlayer1.forEach(submarineTile =>{
        if(submarineTile.classList.contains('tileSink')){
            count++
       }
        if(submarineTile.innerHTML == player2Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == submarinePlayer1.length){
        sinkPlayer1Ship = true
        currentShipSink = true
    if(currentShipSink){
        submarinePlayer1.forEach(submarineTile =>{
            submarineTile.classList.add('shipSink')
            submarineTile.classList.remove('tileSink')
```

```
})
        player1ShipSinkCount++
    }
}
function cruiserPlayer1Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    cruiserPlayer1.forEach(cruiserTile =>{
        if(cruiserTile.classList.contains('tileSink')){
            count++
       }
        if(cruiserTile.innerHTML == player2Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == cruiserPlayer1.length){
        sinkPlayer1Ship = true
        currentShipSink = true
    if(currentShipSink){
        cruiserPlayer1.forEach(cruiserTile =>{
            cruiserTile.classList.add('shipSink')
            cruiserTile.classList.remove('tileSink')
        })
        player1ShipSinkCount++
    }
}
function battleshipPlayer1Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
   battleshipPlayer1.forEach(battleshipTile =>{
        if(battleshipTile.classList.contains('tileSink')){
            count++
        }
        if(battleshipTile.innerHTML == player2Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == battleshipPlayer1.length){
        sinkPlayer1Ship = true
        currentShipSink = true
    if(currentShipSink){
        battleshipPlayer1.forEach(battleshipTile =>{
            battleshipTile.classList.add('shipSink')
            battleshipTile.classList.remove('tileSink')
        })
        player1ShipSinkCount++
    }
}
function carrierPlayer1Sink(belongsToShip, count, currentShipSink){
    belongsToShip = false
```

```
currentShipSink = false
    carrierPlayer1.forEach(carrierTile =>{
        if(carrierTile.classList.contains('tileSink')){
            count++
        }
        if(carrierTile.innerHTML == player2Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == carrierPlayer1.length){
        sinkPlayer1Ship = true
        currentShipSink = true
    }
    if(currentShipSink){
        carrierPlayer1.forEach(carrierTile =>{
            carrierTile.classList.add('shipSink')
            carrierTile.classList.remove('tileSink')
        })
        player1ShipSinkCount++
    }
}
function destroyerPlayer2Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    console.log(destroyerPlayer2)
    destroyerPlayer2.forEach(destroyerTile =>{
        if(destroyerTile.classList.contains('tileSink')){
            count++
        if(destroyerTile.innerHTML == player1Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == destroyerPlayer2.length){
        sinkPlayer2Ship = true
        currentShipSink = true
    }
    if(currentShipSink){
        destroyerPlayer2.forEach(destroyerTile =>{
            destroyerTile.classList.add('shipSink')
            destroyerTile.classList.remove('tileSink')
        })
        player2ShipSinkCount++
    }
}
function submarinePlayer2Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    submarinePlayer2.forEach(submarineTile =>{
        if(submarineTile.classList.contains('tileSink')){
            count++
        }
```

```
if(submarineTile.innerHTML == player1Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == submarinePlayer2.length){
        sinkPlayer2Ship = true
        currentShipSink = true
    }
    if(currentShipSink){
        submarinePlayer2.forEach(submarineTile =>{
            submarineTile.classList.add('shipSink')
            submarineTile.classList.remove('tileSink')
        })
        player2ShipSinkCount++
    }
}
function cruiserPlayer2Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
   currentShipSink = false
    cruiserPlayer2.forEach(cruiserTile =>{
        if(cruiserTile.classList.contains('tileSink')){
        }
       if(cruiserTile.innerHTML == player1Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == cruiserPlayer2.length){
        sinkPlayer2Ship = true
        currentShipSink = true
    if(currentShipSink){
        cruiserPlayer2.forEach(cruiserTile =>{
            cruiserTile.classList.add('shipSink')
            cruiserTile.classList.remove('tileSink')
        })
        player2ShipSinkCount++
    }
}
function battleshipPlayer2Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    battleshipPlayer2.forEach(battleshipTile =>{
        if(battleshipTile.classList.contains('tileSink')){
            count++
        if(battleshipTile.innerHTML == player1Current){
            belongsToShip = true
        }
    })
    if(belongsToShip && count == battleshipPlayer2.length){
        sinkPlayer2Ship = true
        currentShipSink = true
```

```
if(currentShipSink){
        battleshipPlayer2.forEach(battleshipTile =>{
            battleshipTile.classList.add('shipSink')
            battleshipTile.classList.remove('tileSink')
        })
        player2ShipSinkCount++
    }
}
function carrierPlayer2Sink(belongsToShip, count, currentShipSink){
    count = 0
   belongsToShip = false
    currentShipSink = false
    carrierPlayer2.forEach(carrierTile =>{
        if(carrierTile.classList.contains('tileSink')){
            count++
        }
        if(carrierTile.innerHTML == player1Current){
            belongsToShip = true
        }
   })
    if(belongsToShip && count == carrierPlayer2.length){
        sinkPlayer2Ship = true
        currentShipSink = true
    if(currentShipSink){
        carrierPlayer2.forEach(carrierTile =>{
            carrierTile.classList.add('shipSink')
            carrierTile.classList.remove('tileSink')
        player2ShipSinkCount++
   }
}
function playMusic(){
    var audio = new Audio('./stuff/audio.wav')
    audio.play()
function playClick(){
    var audio = new Audio('./stuff/click.wav')
    audio.play()
}
```

## oppShipSetup.js

```
import {RightTiles, LetterCoordinates, NumberCoordinates} from "./main.js"
let OpponentShipTiles = []
let OpponentDestroyerTiles = []
let DestroyerPossibleMoves = []
let OpponentSubmarineTiles = []
let SubmarinePossibleMoves = []
let OpponentCruiserTiles = []
let CruiserPossibleMoves = []
```

```
let OpponentBattleshipTiles = []
let BattleshipPossibleMoves = []
let OpponentCarrierTiles = []
let CarrierPossibleMoves = []
///DESTROYER///
function destroyerGenerator(destroyerLetter, destroyerNumber, destroyerTile, nextMove){
    //GENERATE RANDOM STARTING TILE
    destroyerLetter = Math.floor(Math.random()*10+1)
    destroyerNumber = Math.floor(Math.random()*10+1)
    destroyerTile = LetterCoordinates[destroyerLetter] + NumberCoordinates[destroyerNumber]
   OpponentDestroyerTiles.push(destroyerTile)
    //check next possible tiles
    //NORTH
    if(destroyerNumber - 1 > 0){
       DestroyerPossibleMoves.push('north')
    }
    //EAST
    if(destroyerLetter + 1 <= 10){</pre>
       DestroyerPossibleMoves.push('east')
    }
    //SOUTH
    if(destroyerNumber + 1 <= 10){</pre>
        DestroyerPossibleMoves.push('south')
    }
    //WEST
    if(destroyerLetter - 1 > 0){
        DestroyerPossibleMoves.push('west')
    }
    //GENERATE NEXT MOVE DIRECTION
   nextMove = Math.floor(Math.random()*DestroyerPossibleMoves.length)
    //GO TO GENERATED DIRECTION
    switch (DestroyerPossibleMoves[nextMove]) {
        case 'north':
            //north
            OpponentDestroyerTiles.push(LetterCoordinates[destroyerLetter] +
NumberCoordinates[destroyerNumber-1])
           break;
        case 'east':
            //east
            OpponentDestroyerTiles.push(LetterCoordinates[destroyerLetter+1] +
NumberCoordinates[destroyerNumber])
            break;
        case 'south':
            //south
            OpponentDestroyerTiles.push(LetterCoordinates[destroyerLetter] +
NumberCoordinates[destroyerNumber+1])
            break;
        case 'west':
```

```
OpponentDestroyerTiles.push(LetterCoordinates[destroyerLetter-1] +
NumberCoordinates[destroyerNumber])
        default:
            break;
    }
    //ADD CLASSLIST
    RightTiles.forEach(e =>{
        for(let i=0; i < OpponentDestroyerTiles.length; i++){</pre>
            if(e.innerHTML == OpponentDestroyerTiles[i]){
                e.classList.add('destroyerOpp', 'shipOpp')
                OpponentShipTiles.push(e.innerHTML)
            }
        }
    })
}
///SUBMARINE///
function submarineGenerator(submarineLetter, submarineNumber, submarineTile, nextMove){
    OpponentSubmarineTiles = []
    SubmarinePossibleMoves = []
    //GENERATE RANDOM STARTING TILE
    submarineLetter = Math.floor(Math.random()*10+1)
    submarineNumber = Math.floor(Math.random()*10+1)
    submarineTile = LetterCoordinates[submarineLetter] + NumberCoordinates[submarineNumber]
    OpponentSubmarineTiles.push(submarineTile)
    //check next possible tiles
    //NORTH
    if(submarineNumber - 2 > 0){
        SubmarinePossibleMoves.push('north')
    }
    //EAST
    if(submarineLetter + 2 <= 10){</pre>
        SubmarinePossibleMoves.push('east')
    }
    //SOUTH
    if(submarineNumber + 2 <= 10){</pre>
        SubmarinePossibleMoves.push('south')
    }
    //WEST
    if(submarineLetter - 2 > 0){
        SubmarinePossibleMoves.push('west')
    }
    //GENERATE NEXT MOVE DIRECTION
    nextMove = Math.floor(Math.random()*SubmarinePossibleMoves.length)
    //GO TO GENERATED DIRECTION
    switch (SubmarinePossibleMoves[nextMove]) {
        case 'north':
```

```
//north
            for(let i=1; i<3; i++){</pre>
                OpponentSubmarineTiles.push(LetterCoordinates[submarineLetter] +
NumberCoordinates[submarineNumber-i])
            break;
        case 'east':
            //east
            for(let i=1; i<3; i++){</pre>
                OpponentSubmarineTiles.push(LetterCoordinates[submarineLetter+i] +
NumberCoordinates[submarineNumber])
            break;
        case 'south':
            //south
            for(let i=1; i<3; i++){</pre>
                OpponentSubmarineTiles.push(LetterCoordinates[submarineLetter] +
NumberCoordinates[submarineNumber+i])
            break;
        case 'west':
            //west
            for(let i=1; i<3; i++){
                OpponentSubmarineTiles.push(LetterCoordinates[submarineLetter-i] +
NumberCoordinates[submarineNumber])
        default:
            break;
    }
    //CHECK IF OVERLAP WITH DESTROYER
    OpponentDestroyerTiles.forEach(e =>{
        for( let i=0; i<OpponentSubmarineTiles.length; i++){</pre>
            if(e === OpponentSubmarineTiles[i]){
                submarineGenerator()
                return
            }
        }
    })
    //ADD CLASSLIST
    RightTiles.forEach(e =>{
        for(let i=0; i<OpponentSubmarineTiles.length; i++){</pre>
            if(e.innerHTML === OpponentSubmarineTiles[i]){
                e.classList.add('submarineOpp', 'shipOpp')
                OpponentShipTiles.push(e.innerHTML)
            }
        }
   })
}
///CRUISER///
function cruiserGenerator(cruiserLetter, cruiserNumber, cruiserTile, nextMove){
    OpponentCruiserTiles = []
    CruiserPossibleMoves = []
```

```
//GENERATE RANDOM STARTING TILE
    cruiserLetter = Math.floor(Math.random()*10+1)
    cruiserNumber = Math.floor(Math.random()*10+1)
    cruiserTile = LetterCoordinates[cruiserLetter] + NumberCoordinates[cruiserNumber]
    OpponentCruiserTiles.push(cruiserTile)
    //check next possible tiles
    //NORTH
    if(cruiserNumber - 2 > 0){
        CruiserPossibleMoves.push('north')
    //EAST
    if(cruiserLetter + 2 <= 10){</pre>
        CruiserPossibleMoves.push('east')
    //SOUTH
    if(cruiserNumber + 2 <= 10){</pre>
        CruiserPossibleMoves.push('south')
    //WEST
    if(cruiserLetter - 2 > 0){
        CruiserPossibleMoves.push('west')
    }
    //GENERATE NEXT MOVE DIRECTION
    nextMove = Math.floor(Math.random()*CruiserPossibleMoves.length)
    //GO TO GENERATED DIRECTION
    switch (CruiserPossibleMoves[nextMove]) {
        case 'north':
            //north
            for(let i=1; i<3; i++){
                OpponentCruiserTiles.push(LetterCoordinates[cruiserLetter] +
NumberCoordinates[cruiserNumber-i])
            }
            break;
        case 'east':
            //east
            for(let i=1; i<3; i++){
                OpponentCruiserTiles.push(LetterCoordinates[cruiserLetter+i] +
NumberCoordinates[cruiserNumber])
            break;
        case 'south':
            //south
            for(let i=1; i<3; i++){
                OpponentCruiserTiles.push(LetterCoordinates[cruiserLetter] +
NumberCoordinates[cruiserNumber+i])
            break;
        case 'west':
            //west
            for(let i=1; i<3; i++){
                OpponentCruiserTiles.push(LetterCoordinates[cruiserLetter-i] +
NumberCoordinates[cruiserNumber])
```

```
}
        default:
            break;
    }
    //CHECK IF OVERLAP WITH DESTROYER
    OpponentDestroyerTiles.forEach(e =>{
        for(let i=0; i<OpponentCruiserTiles.length; i++){</pre>
            if(e === OpponentCruiserTiles[i]){
                cruiserGenerator()
                return
            }
        }
    })
    //CHECK IF OVERLAP WITH SUBMARINE
    OpponentSubmarineTiles.forEach(e =>{
        for(let i=0; i<OpponentCruiserTiles.length; i++){</pre>
            if(e === OpponentCruiserTiles[i]){
                cruiserGenerator()
                return
            }
        }
    })
    //ADD CLASSLIST
    RightTiles.forEach(e =>{
        for(let i=0; i<OpponentCruiserTiles.length; i++){</pre>
            if(e.innerHTML === OpponentCruiserTiles[i]){
                e.classList.add('cruiserOpp', 'shipOpp')
                OpponentShipTiles.push(e.innerHTML)
            }
        }
    })
}
///BATTLESHIP///
function battleshipGenerator(battleshipLetter, battleshipNumber, battleshipTile, nextMove){
    OpponentBattleshipTiles = []
    BattleshipPossibleMoves = []
    //GENERATE RANDOM STARTING TILE
    battleshipLetter = Math.floor(Math.random()*10+1)
    battleshipNumber = Math.floor(Math.random()*10+1)
    battleshipTile = LetterCoordinates[battleshipLetter] + NumberCoordinates[battleshipNumber]
    OpponentBattleshipTiles.push(battleshipTile)
    //check next possible tiles
    //NORTH
    if(battleshipNumber - 3 > 0){
        BattleshipPossibleMoves.push('north')
    }
    //EAST
    if(battleshipLetter + 3 <= 10){</pre>
        BattleshipPossibleMoves.push('east')
    }
```

```
//SOUTH
    if(battleshipNumber + 3 <= 10){</pre>
        BattleshipPossibleMoves.push('south')
    //WEST
    if(battleshipLetter - 3 > 0){
        BattleshipPossibleMoves.push('west')
    }
    //GENERATE NEXT MOVE DIRECTION
    nextMove = Math.floor(Math.random()*BattleshipPossibleMoves.length)
    //GO TO GENERATED DIRECTION
    switch (BattleshipPossibleMoves[nextMove]) {
        case 'north':
            //north
            for(let i=1; i<4; i++){
                OpponentBattleshipTiles.push(LetterCoordinates[battleshipLetter] +
NumberCoordinates[battleshipNumber-i])
            break;
        case 'east':
            //east
            for(let i=1; i<4; i++){
                OpponentBattleshipTiles.push(LetterCoordinates[battleshipLetter+i] +
NumberCoordinates[battleshipNumber])
            break;
        case 'south':
            //south
            for(let i=1; i<4; i++){
                OpponentBattleshipTiles.push(LetterCoordinates[battleshipLetter] +
NumberCoordinates[battleshipNumber+i])
            }
            break;
        case 'west':
            //west
            for(let i=1; i<4; i++){
                OpponentBattleshipTiles.push(LetterCoordinates[battleshipLetter-i] +
NumberCoordinates[battleshipNumber])
            }
        default:
            break;
    }
    //CHECK IF OVERLAP WITH DESTROYER
    OpponentDestroyerTiles.forEach(e =>{
        for(let i=0; i<OpponentBattleshipTiles.length; i++){</pre>
            if(e === OpponentBattleshipTiles[i]){
                battleshipGenerator()
                return
            }
        }
    })
    //CHECK IF OVERLAP WITH SUBMARINE
    OpponentSubmarineTiles.forEach(e =>{
```

```
for(let i=0; i<OpponentBattleshipTiles.length; i++){</pre>
            if(e === OpponentBattleshipTiles[i]){
                battleshipGenerator()
                return
            }
        }
    })
    //CHECK IF OVERLAP WITH CRUISER
    OpponentCruiserTiles.forEach(e =>{
        for(let i=0; i<OpponentBattleshipTiles.length; i++){</pre>
            if(e === OpponentBattleshipTiles[i]){
                battleshipGenerator()
                return
            }
        }
    })
    //ADD CLASSLIST
    RightTiles.forEach(e =>{
        for(let i=0; i<OpponentBattleshipTiles.length; i++){</pre>
            if(e.innerHTML === OpponentBattleshipTiles[i]){
                e.classList.add('battleshipOpp', 'shipOpp')
                OpponentShipTiles.push(e.innerHTML)
            }
        }
    })
}
///CARRIER///
function carrierGenerator(carrierLetter, carrierNumber, carrierTile, nextMove){
    OpponentCarrierTiles = []
    CarrierPossibleMoves = []
    //GENERATE RANDOM STARTING TILE
    carrierLetter = Math.floor(Math.random()*10+1)
    carrierNumber = Math.floor(Math.random()*10+1)
    carrierTile = LetterCoordinates[carrierLetter] + NumberCoordinates[carrierNumber]
    OpponentCarrierTiles.push(carrierTile)
    //check next possible tiles
    //NORTH
    if(carrierNumber - 4 > 0){
        CarrierPossibleMoves.push('north')
    }
    //EAST
    if(carrierLetter + 4 <= 10){</pre>
        CarrierPossibleMoves.push('east')
    }
    //SOUTH
    if(carrierNumber + 4 <= 10){</pre>
        CarrierPossibleMoves.push('south')
    }
    //WEST
    if(carrierLetter - 4 > 0){
```

```
CarrierPossibleMoves.push('west')
    }
    //GENERATE NEXT MOVE DIRECTION
    nextMove = Math.floor(Math.random()*CarrierPossibleMoves.length)
    //GO TO GENERATED DIRECTION
    switch (CarrierPossibleMoves[nextMove]) {
        case 'north':
            //north
            for(let i=1; i<5; i++){
                OpponentCarrierTiles.push(LetterCoordinates[carrierLetter] +
NumberCoordinates[carrierNumber-i])
            break;
        case 'east':
            //east
            for(let i=1; i<5; i++){
                OpponentCarrierTiles.push(LetterCoordinates[carrierLetter+i] +
NumberCoordinates[carrierNumber])
            }
            break;
        case 'south':
            //south
            for(let i=1; i<5; i++){
                OpponentCarrierTiles.push(LetterCoordinates[carrierLetter] +
NumberCoordinates[carrierNumber+i])
            break;
        case 'west':
            //west
            for(let i=1; i<5; i++){
                OpponentCarrierTiles.push(LetterCoordinates[carrierLetter-i] +
NumberCoordinates[carrierNumber])
        default:
            break;
    }
    //CHECK IF OVERLAP WITH DESTROYER
    OpponentDestroyerTiles.forEach(e =>{
        for(let i=0; i<OpponentCarrierTiles.length; i++){</pre>
            if(e === OpponentCarrierTiles[i]){
                carrierGenerator()
                return
            }
        }
    })
    //CHECK IF OVERLAP WITH SUBMARINE
    OpponentSubmarineTiles.forEach(e =>{
        for(let i=0; i<OpponentCarrierTiles.length; i++){</pre>
            if(e === OpponentCarrierTiles[i]){
                carrierGenerator()
                return
            }
        }
```

```
})
    //CHECK IF OVERLAP WITH CRUISER
   OpponentCruiserTiles.forEach(e =>{
        for(let i=0; i<OpponentCarrierTiles.length; i++){</pre>
            if(e === OpponentCarrierTiles[i]){
                carrierGenerator()
                return
            }
        }
   })
    //CHECK IF OVERLAP WITH BATTLESHIP
   OpponentBattleshipTiles.forEach(e =>{
        for(let i=0; i<OpponentCarrierTiles.length; i++){</pre>
            if(e === OpponentCarrierTiles[i]){
                carrierGenerator()
                return
            }
        }
    })
    //ADD CLASSLIST
   RightTiles.forEach(e =>{
        for(let i=0; i<OpponentCarrierTiles.length; i++){</pre>
            if(e.innerHTML === OpponentCarrierTiles[i]){
                e.classList.add('carrierOpp', 'shipOpp')
                OpponentShipTiles.push(e.innerHTML)
            }
        }
   })
}
//RESET OPPONENT BOARD
export function opponentReset(){
   RightTiles.forEach(e =>{
        e.classList.remove('shipOpp', 'hit', 'miss')
    })
   OpponentShipTiles = []
   OpponentDestroyerTiles = []
   DestroyerPossibleMoves = []
   OpponentSubmarineTiles = []
   SubmarinePossibleMoves = []
   OpponentCruiserTiles = []
   CruiserPossibleMoves = []
   OpponentBattleshipTiles = []
   BattleshipPossibleMoves = []
   OpponentCarrierTiles = []
   CarrierPossibleMoves = []
}
export function oppShipsGenerator(){
    destroyerGenerator()
    submarineGenerator()
    cruiserGenerator()
   battleshipGenerator()
    carrierGenerator()
}
```

## welcome.js

```
let playBtn = document.querySelector('.play-btn')
playBtn.addEventListener('click', () =>{
    window.localStorage.clear()
})
```

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