## **CSE3002: INTERNET AND WEB PROGRAMMING**

## Digital Assessment - 1

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## index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Space Blasterz</title>
  <link rel="stylesheet" href="styles.css">
  </head>
  <body>
    <div class="flip-card">
      <div class="flip-card-inner">
        <div class="flip-card-front">
    <!-- <div class="card"> -->
      Space Blasterz
    </div>
    <div class="flip-card-back">
       To Play: use the arrow keys to navigate, spacebar to
shoot
      <a href = "play.html"><button><span>Play </span></button></a>
    </div>
  </div>
  </div>
  </div>
  </body>
</html>
```

```
styles.css
@font-face {
  font-family: PressStart;
  src: url(fonts/press-start-2p/PressStart2P.ttf);
}
body {
  background-color: black;
  background-repeat: repeat;
  font-family: PressStart;
}
.flip-card {
  width: 60%;
  height: 50%;
  background-color: lavender;
  color: whitesmoke;
  position: absolute;
  top:0;
  bottom: 0;
  left: 0;
  right: 0;
  margin: auto;
 perspective: 900px;
.flip-card-inner {
 position: relative;
 width: 100%;
 height: 100%;
 text-align: center;
 transition: transform 0.8s;
 transform-style: preserve-3d;
```

```
.flip-card:hover .flip-card-inner {
 transform: rotateY(180deg);
}
.flip-card-front, .flip-card-back {
 position: absolute;
 width: 100%;
 height: 100%;
 -webkit-backface-visibility: hidden;
 backface-visibility: hidden;
}
.flip-card-front {
 background-color: lavender;
 color: black;
}
.flip-card-back {
 background-color: black;
 color: lavender;
 transform: rotateY(180deg);
p.title {
  font-size: 60px;
}
p.body {
  top: 0;
  width: 70%;
}
p {
  text-align: center;
 width: fit-content;
  height: fit-content;
```

```
line-height: 1.5em;
  position: absolute;
  top:0;
  bottom: 10%;
  left: 0;
  right: 0;
  margin: auto;
button {
  border: none;
  background-color: transparent;
  font-family: PressStart;
  color: hotpink;
  position: absolute;
  width: 30%;
  height: 12%;
  top:200px;
  bottom: 0;
  left: 0;
  right: 0;
  font-size: 30px;
  margin: auto;
}
button span {
  cursor: pointer;
  display: inline-block;
  position: relative;
  transition: 0.5s;
  }
button span:after {
  content: '\00bb';
```

```
position: absolute;
  opacity: 0;
  top: 0;
  right: -20px;
  transition: 0.5s;
}
button:hover span {
padding-right: 55px;
button:hover span:after {
opacity: 1;
right: 0;
play.html
<!DOCTYPE html>
<html lang="">
 <head>
  <meta charset="utf-8">
  <meta name="viewport"
content="user-scalable=no,initial-scale=1,maximum-scale=1,minimum-scale=1,width=de
vice-width">
  <title>Shooter-Game</title>
  <style> body {
   padding: 0;
   margin: 0;
   height: 100%;
   overflow: hidden;
   width: 100%;
   position: fixed; }
  </style>
  <script src="p5.min.js"></script>
  <script src="sketch.js"></script>
  <script src="drop.js"></script>
```

```
<script src="shooter.js"></script>
  <script src="cloud.js"></script>
 </head>
 <body>
 </body>
</html>
sketch.js
var shooter;
var clouds = [];
var drops =[];
var score =0;
let state;
const STATE_GAME_OVER_PLAY_AGAIN = 1;
let animationFrame;
// var tally=0;
function preload(){
 font = loadFont('fonts/press-start-2p/PressStart2P.ttf');
 rocket = loadImage('rocket2.png');
function setup(){
 createCanvas(windowWidth,windowHeight);
 textFont(font);
 shooter = new Shooter();
 for(var i=0; i<4; i++){
  clouds[i] = new Cloud(i*40,80,0,true);
}
function draw(){
 background(15,15,15);
 shooter.show();
 shooter.move();
```

```
textSize(10);
fill(255);
text('Score: '+ score, 40,40);
for(var i=0;i<drops.length;i++){</pre>
 drops[i].show();
 drops[i].move();
 for(var j=0;j<clouds.length;j++){
  if(drops[i].hits(clouds[j])){
   score +=2;
   clouds[j].grow();
   drops[i].evaporate();
var edge = false;
for(var i=0;i<clouds.length;i++){
 clouds[i].show();
 clouds[i].move();
 if(clouds[i].y > height-70){
  state = STATE GAME OVER PLAY AGAIN;
  animationFrame = 0;
 }
 if(clouds[i].x>width || clouds[i].x<0){
  edge = true;
 if(edge){
  for(var i=0;i<clouds.length;i++){</pre>
   clouds[i].shiftDown();
 }
 // for(var i = 0; i<clouds.length;i++){
 // if(clouds[i].burst == false){
```

```
//
      tally++;
  //
      console.log(tally);
  // }
  // }
 for(var i=drops.length-1; i \ge 0;i - 0)
  if(drops[i].toDelete) {
   drops.splice(i,1);
  }
 }
 if (state === STATE GAME OVER PLAY AGAIN){
  background(0);
  fill(255);
  textSize(15);
  text('GAME OVER', windowWidth/2 - 60, windowHeight/2 - 200);
  text('SCORE: ' + score, windowWidth/2 - 60, windowHeight/2 - 170);
  // if(tally == clouds.length){
  // text('YOU GOT EM ALL!!!', windowWidth/2 - 160,windowHeight/2 - 120);
  // }
 if (animationFrame == 0) {
   text('PLAY AGAIN', windowWidth/2 - 70, windowHeight/2 - 130);
}
function keyReleased(){
 if(key != ' ')
  shooter.setDir(0);
function keyPressed(){
 if(key === ' '){
  var drop = new Drop(shooter.x,height-122);
  drops.push(drop);
```

```
if(keyCode === RIGHT ARROW){
  shooter.setDir(1);
 }else if (keyCode === LEFT ARROW){
  shooter.setDir(-1);
cloud.js
function Cloud(x,y,count,burst){
  this.x = x*2;
  this.y = y;
  this.r = 20;
  this.xdir = 1;
  this.count = count;
  this.burst = burst;
  this.shiftDown = function(){
     this.xdir *= -1;
     this.y += this.r;
  this.move = function(){
     this.x = this.x + this.xdir*2;
  this.grow = function(){
     this.r +=2;
  this.show = function(){
     if(this.burst){
       noStroke();
       fill(255,255,255,255);
       ellipse(this.x, this.y,this.r*2, this.r*2);
       ellipse(this.x + 15, this.y + 10, this.r, this.r);
       ellipse(this.x + 15, this.y + 10, this.r*1.2, this.r*1.2);
       ellipse(this.x - 15, this.y - 10, this.r, this.r);
```

```
ellipse(this.x + 10, this.y - 15, this.r/2, this.r/2);
       ellipse(this.x - 15, this.y + 8, this.r*1.2, this.r*1.2);
  }
}
shooter.js
function Shooter(){
  this.x = width/2;
  this.xdir = 0;
  this.show = function(){
     fill(255);
     rectMode(CENTER);
     rect(this.x, height-20,20,20);
     image(rocket, this.x - 37,height-68,80,80);
  }
  this.move = function(dir){
     this.x += this.xdir*5;
     if(this.x>width){
       this.x = 0;
     if(this.x<0){
       this.x = width;
  this.setDir = function(dir){
     this.xdir = dir;
  }
}
```

## **Screenshots**







