```html
<!--index.html-->
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Drawing App</title>
        <meta name="viewport" content="initial-scale=1.0,
user-scalable=yes">
        <link rel="stylesheet"
href="https://ajax.googleapis.com/ajax/libs/jqueryui/1.11.
4/themes/start/jquery-ui.css">
        <link rel="stylesheet" href="styling.css">
    </head>

    <body>
        <!--title-->
        <div id="header">Drawing App</div>

        <!--title-->
        <div class="inputContainer">
            <!--color-->
            <div class="input" id="colorInput">
                <input type="color" list id="paintColor">
            </div>

            <!--size-->
```

```html
            <div class="input" id="thicknessInput">
                <div id="circle"></div>
            </div>
            <div class="input">
                <div id="slider"></div>
            </div>
        </div>

        <!--canvas container-->
        <div id="container">
            <canvas id="paint" width="500px"
height="400px"></canvas>
        </div>

        <!--buttons-->
        <div class="inputContainer2">
            <!--Erase-->
            <div class="input2">
                <span id="erase"
class="button">Erase</span>
            </div>

            <!--Save-->
            <div class="input2">
                <span id="save" class="button">Save</span>
            </div>

            <!--Reset-->
            <div class="input2">
                <span id="reset"
class="button">Reset</span>
            </div>
        </div>

        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/j
query.min.js"></script>
        <script
src="https://ajax.googleapis.com/ajax/libs/jqueryui/1.11.4
/jquery-ui.min.js"></script>
        <script src="javascript.js"></script>
    </body>
```

```
</html>
```

```css
/*styling.css*/
/*center all elements and add background image*/
body{
    text-align: center;
    background: url(images/paintbg.jpg) center center
fixed;
    background-size: cover;
}

/*title*/
#header{
    background: linear-gradient(white,
rgba(67,169,228,0.9));
    background: -webkit-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -moz-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -o-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -ms-linear-gradient(white,
rgba(67,169,228,0.9));
    height: 80px;
    width: 500px;
    margin: 10px auto;
    font-size: 3em;
    color: #fff;
    line-height: 80px;
}

/*inputs container*/
.inputContainer{
    width: 200px;
    margin: 0 auto;
}

/*color input, line thickness, slider*/
.input{
```

```css
    height: 30px;
    font-size: 1.3em;
}
#slider{
    margin: 10px auto;
}
#circle{
    height: 3px;
    width: 3px;
    border-radius: 50%;
    background: black;
    margin: 0 auto;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%,-50%);
    -webkit-transform: translate(-50%,-50%);
    -moz-transform: translate(-50%,-50%);
    -ms-transform: translate(-50%,-50%);
    -o-transform: translate(-50%,-50%);
}
#thicknessInput{
    position: relative;
}

/*canvas container*/
#container{
    width: 500px;
    height: 400px;
    border: 1px solid rgba(122,174,229,0.5);
    margin: 10px auto;
}
#paint{
    background-color: #fff;
    cursor: crosshair;
}

/*inputs container*/
.inputContainer2{
    width: 399px;
    margin: 0 auto;
}
```

```css
/*erase.save and reset buttons*/
.input2{
    width: 133px;
    color: #5BB4E7;
    font-size: 1.3em;
    float: left;
}

.button{
    background: #fff;
    height: 50px;
    padding: 10px;
    border-radius: 3px;
    font-weight: bold;
    cursor: pointer;
    box-shadow: 0px 4px rgba(0,0,0,0.2);
    -webkit-box-shadow: 0px 4px rgba(0,0,0,0.2);
    -moz-box-shadow: 0px 4px rgba(0,0,0,0.2);
    position: relative;
}

.button:hover{
    color: white;
    background: linear-gradient(white,
rgba(67,169,228,0.9));
    background: -webkit-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -moz-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -o-linear-gradient(white,
rgba(67,169,228,0.9));
    background: -ms-linear-gradient(white,
rgba(67,169,228,0.9));
}

.button:active{
    top: 4px;
}

.eraseMode{
    background-color: red;
```

```css
    color: white;
}
```

```javascript
//javascript.js
$(function(){

    //declare variables

    //paintingerasing or not
    var paint = false;

    //painting or erasing
    var paint_erase = "paint";

    //get the canvas and context
    var canvas = document.getElementById("paint");
    var ctx = canvas.getContext("2d");

    //get the canvas container
    var container = $("#container");

    //mouse position
    var mouse = {x: 0, y: 0};

    //onload load saved work from localStorage
    if(localStorage.getItem("imgCanvas") != null){
        var img = new Image();
        img.onload = function(){
            ctx.drawImage(img, 0, 0);
        }
        img.src = localStorage.getItem("imgCanvas");
    };
    //set drawing parameters (lineWidth, lineJoin,
lineCap)
    ctx.lineWidth = 3;
    ctx.lineJoin = "round";
    ctx.lineCap = "round";

    //click inside container
```

```javascript
    container.mousedown(function(e){
        paint = true;
        ctx.beginPath();
        mouse.x = e.pageX - this.offsetLeft;
        mouse.y = e.pageY - this.offsetTop;
        ctx.moveTo(mouse.x, mouse.y);
    });

    //move the mouse while holding mouse key
    container.mousemove(function(e){
        mouse.x = e.pageX - this.offsetLeft;
        mouse.y = e.pageY - this.offsetTop;
        if(paint == true){
            if(paint_erase == "paint"){
                //get color input
                ctx.strokeStyle = $("#paintColor").val();
            }else{
                //white color
                ctx.strokeStyle = "white";
            }
            ctx.lineTo(mouse.x, mouse.y);
            ctx.stroke();
        }
    });
    //mouse up->we are not paintingerasing anymore
    container.mouseup(function(){
        paint = false;
    });

    //if we leave the container we are not paintingerasing
anymore
    container.mouseleave(function(){
        paint = false;
    });

    //click on the reset button
    $("#reset").click(function(){
        ctx.clearRect(0, 0, canvas.width, canvas.height);
        paint_erase = "paint";
        $("#erase").removeClass("eraseMode");
    });
    //click on save button
```

```javascript
    $("#save").click(function(){
        if(typeof(localStorage) != null){
            localStorage.setItem("imgCanvas",
canvas.toDataURL());
        }else{
            window.alert("Your browser does not support
local storage!");
        }
    });
    //click on the erase button
    $("#erase").click(function(){
        if(paint_erase == "paint"){
            paint_erase = "erase";
        }else{
            paint_erase = "paint";
        }
        $(this).toggleClass("eraseMode");
    });


    //change color input
    $("#paintColor").change(function(){
        $("#circle").css("background-color",
$(this).val());
    });
    //change lineWidth using slider
    $("#slider").slider({
        min: 3,
        max: 30,
        slide: function(event, ui){
            $("#circle").height(ui.value);
            $("#circle").width(ui.value);
            ctx.lineWidth = ui.value;
        }
    });

});
```