

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Technology Degree in Information Technology

By
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SCHOOL OF COMPUTING
SATHYABAMA INSTITUTE OF SCIENCE AND
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JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI – 600119. TAMILNADU

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SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

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SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the Bonafide work of who carried out the project entitled "PUZZLE IN JAVASCRIPT" under our supervision from December 2020 to January 2021.

Internal Guide

Dr. Mathivanan

Head of the Department

Dr. R. Subhashini M.E., Ph.D.,

Internal Examiner

External Examiner

DECLARATION

I hereby declare that the Project Report entitled “**PUZZLE IN JAVASCRIPT**” done by me under the guidance of Dr. MATHIVANAN, at Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119 is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

DATE: 21/01/2021

Place: Chennai

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey our thanks to **Dr. T. SASIKALA M.E., Ph.D., Dean, School of Computing** and **Dr. R. SUBHASHINI M.E., Ph.D., Head of the Department, Department of Information Technology** for providing us the necessary support and details at the right time during the progressive reviews.

I would like to express our sincere and deep sense of gratitude to our Project Guide **Dr. MATHIVANAN.,** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

ABSTRACT

PUZZLE IN JAVASCRIPT

A **puzzle** is a game, problem, or toy that tests a person's ingenuity or knowledge. In a puzzle, the solver is expected to put pieces together in a logical way, in order to arrive at the correct or fun solution of the puzzle. There are different genres of puzzles, such as crossword puzzles, word-search puzzles, number puzzles, relational puzzles, and logic puzzles.

Puzzles are often created to be a form of entertainment but they can also arise from serious mathematical or logical problems. In such cases, their solution may be a significant contribution to mathematical research.

LIST OF ABBREVIATIONS

ABBREVIATIONS	EXPANSION
HTML	HYPERTEXT MARK-UP LANGUAGE
CSS	CASCADING STYLE SHEETS
JS	JAVA SCRIPT

PUZZLE IN JAVASCRIPT

The Picture Puzzle is a simple project developed using JavaScript, CSS, and Canvas. This game is an interesting game. The player has to solve the image puzzle and form the original image. The user can play the game until he/she completes the puzzle. There is timer and count set on the top. You can change the mode from easy to very hard.

Making of the Game

The Picture Puzzle project is simply in HTML, CSS, and JavaScript. Taking about the features of this game, the user has to solve the image puzzle and form the original image. The pc control of the game is very simple. You just have to use the cursor to click the pieces of image and solve it by placing it in right place. This game includes a lot of JavaScript for making the functioning of the game.

How To Run the Project?

To run this game, you don't need to have any kind of local server but yet a browser. We recommend you to use modern browsers like [Google Chrome](#) and [Mozilla Firefox](#)

SOURCE CODE:

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title>Picture Puzzle</title>
  <link href="css/style.css" rel="stylesheet" />
  <link href="css/image-puzzle.css" rel="stylesheet" />
  <script src="js/jquery-2.1.1.min.js"></script>
  <script src="js/jquery-ui.js"></script>
  <script src="js/image-puzzle.js"></script>
</head>
```

```

<body>
  <div id="collage">
    <h2>Picture Puzzle</h2>
    <hr />
    <div id="playPanel"
style="padding:5px;display:none;">
      <h3 id="imgTitle"></h3> <hr />
      <div style="display:inline-block; margin:auto;
width:95%; vertical-align:top;">
        <ul id="sortable" class="sortable"></ul>
        <div id="actuaImageBox">
          <div id="stepBox">
            <div>Count:</div><div
class="stepCount">0</div>
          </div>
          <div id="timeBox">
            Time: <span id="timerPanel"></span>
seconds
          </div>
          <img id="actuaImage" />
          <div>See the picture and solve the
puzzle.</div>
          <p id="levelPanel">
            <input type="radio" name="level" id="easy"
checked="checked" value="3" /> <label
for="easy">Easy</label>
            <input type="radio" name="level"
id="medium" value="4" /> <label
for="medium">Medium</label>
            <input type="radio" name="level" id="hard"
value="5" /> <label for="hard">Hard</label>
            <input type="radio" name="level" id="veryhard"
value="6" /> <label for="veryhard">Very Hard</label>

```

```

        </p>
        <div>
            <button id="btnRule" type="button"
class="btn" onclick="rules();">Rules</button>
            <button id="newPhoto" type="button"
class="btn">Next Picture</button>
        </div>
    </div>
</div>
<div id="gameOver" style="display:none;">
    <div style="background-color: #fc9e9e; padding:
5px 10px 20px 10px; text-align: center; ">
        <h2 style="text-align:center">Game over
!!</h2>
        Congratulations!! <br /> You got the picture
ready.
        <br />
        Time: <span class="stepCount">0</span> gear.
        <br />
        Time spent: <span class="timeCount">0</span>
seconds<br />
    <div>
        <button type="button"
onclick="window.location.reload(true);">Play
more</button>
    </div>
</div>
</div>
<script>
    var images = [
        { src: 'img/neeruti.jpg', title: 'Neeruti manor' },

```

```

        { src: 'img/harju_madise.jpg', title: 'Harju-Madis
Church' },
        { src: 'img/rahumae.jpg', title: 'Rahumäe train
station' },
        { src: 'img/kakumae.jpg', title: 'Kakumäe Harbor'
    },
        { src: 'img/kohila.jpg', title: 'Kohila mill' }
    ];

```

```

$(function () {
    var gridSize = $('#levelPanel
:radio:checked').val();
    imagePuzzle.startGame(images, gridSize);
    $('#newPhoto').click(function () {
        var gridSize = $('#levelPanel
:radio:checked').val();
        imagePuzzle.startGame(images, gridSize);
    });

```

```

    $('#levelPanel :radio').change(function (e) {
        var gridSize = $(this).val();
        imagePuzzle.startGame(images, gridSize);
    });
});

```

```

function rules() {
    alert('Rearrange the pieces so that you get a
sample image. \nThe steps taken are counted');
}

```

```

</script>

```

```

</div>

```

```

</body>

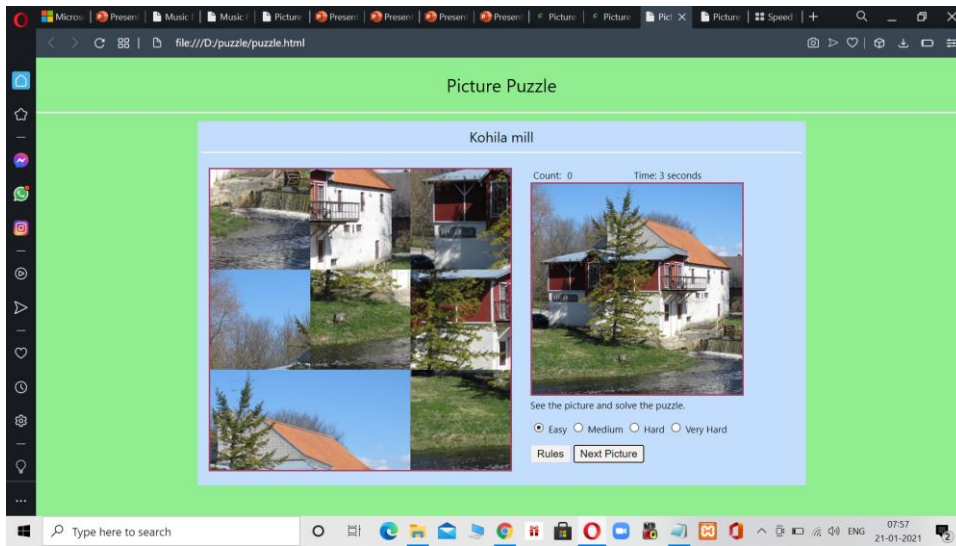
```

```

</html>

```


Output:



.CSS

Image-puzzle:

```
#collage hr {  
    border:none;  
border-top:2px solid #f5f2f2;  
    height:1px;  
}
```

```
#collage #playPanel {  
background-color:#c2defc;  
    padding:10px 0px;  
margin: 10px auto;  
max-width:800px;  
    width:95%;  
}
```

```
#collage #actualImageBox {  
    display: inline-block;  
    font-size:0.8em;  
margin: 10px 10px;  
vertical-align: top;  
    width:280px;  
}
```

```
#collage #stepBox, #collage #timeBox {  
    display:inline-block;  
    width:48%;  
}
```

```
#collage #stepBox div {  
background-color:#c2defc;  
    display:inline-block;  
    padding:1px 4px;  
margin: 0px auto;  
max-width:800px;  
}
```

```
#collage img#actualImage{  
  border:2px solid #a46;  
  height:280px;  
  width:280px;  
}
```

```
#collage #sortable {  
border:2px solid #a46;  
list-style-type: none;  
display: inline-block;  
margin: 10px;  
padding: 0;  
width: 400px;  
}
```

```
#collage #sortable li {  
background-size: 400% 400%;  
border: none;  
cursor: pointer;  
margin: 0;  
padding: 0;  
float: left;  
width: 100px;  
height: 100px;  
}
```

```
#collage button {  
background-color:#f5f2f2;  
border:1px solid #cce;  
display: inline;  
font-size: 14px;  
height: auto;  
width: auto;  
padding: 3px 8px;  
}
```

Style:

```
    body {  
    font-family: 'Segoe UI', Calibri, Arial;  
    margin:0;  
    background-color: lightgreen;  
    }  
    h2{  
        font-weight:normal;  
        text-align:center;  
    }  
    h3{  
        font-weight:normal;  
        margin:3px 0px;  
        text-align:center;  
    }
```

Ref:

Picture-Puzzle-Game
Picture-Puzzle-Game in HTML, JS, CSS

Features:
* Picture puzzle with different images and 4 difficulty levels
* Messed up and actual image
* Steps counter
* Seconds counter
* Rules button
* New Game button

Good Luck!

THANK YOU!!