**SRI RAMAKRISHNA ENGINEERING COLLEGE**

[Educational Service: SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with ‘A’ Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

Vattamalaipalayam, N.G.G.O. Colony Post, Coimbatore – 641 022.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PROFESSIONAL SUMMARY REPORT**

**QUIZ APP**

ABISHEIK PS (1901002)

ASHWIN BALAJI PL (1901012)

GOWTHAM D (1901042)

**THIRD YEAR B.E. CSE – V SEM**

**Academic Year 2021-2022**

**16CS213&WEB TECHNOLOGY**

**STAFF IN-CHARGE**

**Mrs.S. Ezhilin Freeda, AP (Sr.Gr.)/CSE**

**A close-up of a coin

Description automatically generated with low confidenceSRI RAMAKRISHNA ENGINEERING COLLEGE**

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**PROFESSIONAL SUMMARY REPORT**

**QUIZ APP**

**Assessment**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Name & Roll No.** | **Problem Statement (5)** | **Abstract (2)** | **Implementation (7)** | **Demo Presentation (3)** | **Report (3)** | **Total**  **(20)** |
| 1. | ABISHEK PS  (1901002) |  |  |  |  |  |  |
| 2. | ASHWIN BALAJI PL  (1901012) |  |  |  |  |  |  |
| 3. | GOWTHAM D  (1901042) |  |  |  |  |  |  |

**STAFF IN-CHARGE**

**Mrs.S. Ezhilin Freeda, AP (Sr.Gr.)/CSE**

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**ABSTRACT:**

The concept of quizzes is currently very popular among educated circles as well as in entertainment shows. Though the quiz can be conducted manually, it often needs elaborate preparations. Quizzes contribute to the growth of knowledge of an individual and they are a popular source of entertainment. The final output is envisioned to be a user-friendly interactive quiz with which the user can gain significant knowledge and get entertainment with value-addition.

**INTRODUCTION:**

This is designed for a question in which user can generate and manage a simple database for questions. In this it asks for a language so that the questions will be based on the language the user selects. The percentage of marks will be displayed based on the no of correct answers given by the user.

**DESCRIPTION OF FRONT-END TOOLS:**

* **HTML 5:**

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and latest major version of HTML that is a World Wide Web Consortium (W3C) recommendation. The current specification is known as the HTML Living Standard and is maintained by a consortium of the major browser vendors (Apple, Google, Mozilla, and Microsoft), the Web Hypertext Application Technology Working Group (WHATWG).

* **CSS 3:**

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation

of a document written in a markup language such as HTML. CSS is a cornerstone technology of

the World Wide Web, alongside HTML and JavaScript. Unlike CSS 2, which is a large single specification defining various features, CSS 3 is divided into several separate documents called "modules". Each module adds new capabilities or extends features defined in CSS 2, preserving backward compatibility.

* **JAVA SCRIPT:**

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably

involved. It is the third layer of the layer cake of standard web technologies, two of which (HTML and CSS) we have covered in much more detail in other parts of the Learning Area.

**DESCRIPTION OF BACK-END TOOLS:**

**SOURCE CODE:**

**Index.html**

<!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="utf-8" />

        <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />

        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" />

        <link rel="stylesheet" href="./style.css" />

        <title>Quiz App</title>

    </head>

    <body>

        <div class="container box-shadow">

            <div id="select"></div>

            <div id="theForm">

                <form class="form" onsubmit="return false;">

                    <button type="submit" class="btn btn-primary mb-2 custom1" id="submit" onclick="startQuiz('totQHtml');" >

                        HTML

                    </button>

                    <button type="submit" class="btn btn-primary mb-2 custom3" id="submit" onclick="startQuiz('totQJs');" >

                        JAVASCRIPT

                    </button>

                    <button type="submit" class="btn btn-primary mb-2 custom2" id="submit" onclick="startQuiz('totQCss');" >

                        CSS

                    </button>

                </form>

            </div>

            <section id="theQuiz">

                <form id="quizForm" onsubmit="return false;">

                    <h2>Question:</h2>

                    <div id="steps" style="text-align:center;">

                    </div>

                    <hr />

                    <div id="tab">

                        <p id="que"></p>

                        <div class="custom-control custom-radio">

                            <input type="radio" id="opt1" name="q" class="custom-control-input" onclick="enableBtn(this)" value="1" />

                            <label class="custom-control-label" onclick="var

                            id = this.previousElementSibling.id; this.setAttribute('for', id)" ></label>

                        </div>

                        <div class="custom-control custom-radio">

                            <input type="radio" id="opt2" name="q"

                                class="custom-control-input" onclick="enableBtn(this)" value="2" />

                            <label class="custom-control-label" onclick="var

                            id = this.previousElementSibling.id; this.setAttribute('for', id)"></label>

                        </div>

                        <div class="custom-control custom-radio">

                            <input type="radio" id="opt3" name="q" class="custom-control-input" onclick="enableBtn(this)" value="3"/>

                            <label class="custom-control-label" onclick="var

                            id = this.previousElementSibling.id; this.setAttribute('for', id)"></label>

                        </div>

                        <div class="custom-control custom-radio">

                            <input type="radio" id="opt4" name="q" class="custom-control-input" onclick="enableBtn(this)" value="4"/>

                            <label class="custom-control-label" onclick="var

                            id = this.previousElementSibling.id; this.setAttribute('for', id)"></label>

                        </div>

                    </div>

                    <div style="overflow:auto;">

                        <div style="float:right;">

                            <button type="button" disabled="disabled" class="btn btn-info mb-2" id="next-button" onclick="next();">

                                Next

                            </button>

                        </div>

                    </div>

                </form>

            </section>

            <section id="theResult">

                <div id="resultCircle"> </div>

                <br>

                <h2 id="resultFb" style="font-weight: bold;"></h2>

                <h3 id="correctAns"></h3>

                <hr />

                <button class="btn btn-info" onclick="retakeQuiz();">

                    Retake Quiz

                </button>

            </section>

        </div>

        <script id="qns" src="./jsqns.js"></script>

        <script id="qns" src="./htmlqns.js"></script>

        <script id="qns" src="./cssqns.js"></script>

        <script src="./script.js"></script>

        <script>

            var file=document.getElementById('qns');

        </script>

    </body>

</html>

**STYLE.CSS**

html, body

{

    height: 100%;

    overflow: hidden;

    background: #000000;

    color: #FFF;

}

.container

{

    width: 560px;

    height: auto;

    padding: 0;

    margin: auto;

    color: #415868;

    margin-top: 180px;

    border-radius: 7px;

}

#theForm form

{

    margin: auto;

    position: relative;

    text-align: center;

    padding: 50px;

    width: 560px;

    height: auto;

    padding-bottom: 100px;

}

#theForm form button

{

    position: relative;

    border-radius: 10;

    width: 100%;

    left: 0;

    font-size: 1.5em;

    height: 70px;

    border-radius: 10px;

}

section#theQuiz

{

    display: none;

    background: rgb(255, 255, 255);

    height: 100%;

    width: 100%;

    border-radius: 10px;

}

#quizForm

{

    position: relative;

    background-color: transparent;

    margin: auto;

    width: 100%;

    height: 100%;

    padding: 30px;

    padding-bottom: 70px;

}

#quizForm h2

{

    text-align: center;

}

#quizForm p

{

    text-align: center;

    font-weight: bold;

    font-size: 1.1em;

    margin-top: -5px;

}

#quizForm #tab .custom-radio

{

    margin-top: 10px;

}

#quizForm button

{

    position: absolute;

    bottom: -10px;

    border-radius: 0;

    width: 100%;

    left: 0;

    font-size: 1.5em;

    height: 60px;

    border-bottom-left-radius: 7px;

    border-bottom-right-radius: 7px;

}

section#theResult

{

    display: none;

    background: rgb(255, 255, 255);

    border-radius: 7px;

    text-align: center;

    width: 100%;

    height: 100%;

    padding: 30px;

}

.circular-chart

{

    display: block;

    margin: 10px auto;

    max-width: 80%;

    max-height: 250px;

}

.circle-bg

{

    fill: none;

    stroke: #eee;

    stroke-width: 3.8;

}

.circle

{

    fill: none;

    stroke-width: 2.8;

    stroke-linecap: round;

    animation: progress 1s ease-out forwards;

}

.circular-chart.red .circle

{

    stroke: #ff0000;

}

.circular-chart.orange .circle

{

    stroke: #ff9f00;

}

.circular-chart.green .circle

{

    stroke: #4cc790;

}

.circular-chart.blue .circle

{

    stroke: #3c9ee5;

}

.circular-chart.teal .circle

{

    stroke: #008080;

}

#percentage

{

    fill: #666;

    font-size: 0.5em;

    text-anchor: middle;

}

**SCRIPT.JS**

var theForm = document.getElementById('theForm');

var theQuiz = document.getElementById('theQuiz');

var submitBtn = document.getElementById('submit');

var err = document.getElementById('err');

var errH = document.getElementById('errH');

var i;

var totQ;

document.getElementById('select').style.display = 'none';

function startQuiz(temp)

{

    theForm.style.display = 'none';

    theQuiz.style.display = 'block';

    if(temp == 'totQHtml' )

    {

        totQ = totQHtml;

    }

    else if(temp == 'totQJs' )

    {

        totQ = totQJs;

    }

    else if(temp == 'totQCss' )

    {

        totQ = totQCss;

    }

    steps(totQ.length);

    randomQ();

}

var queDone = 0;

var userAns = [];

var queDoneArr = [];

function steps(quizLength)

{

    var mainStepDiv = document.getElementById('steps');

    for (var i = 0; i < quizLength; i++)

    {

        var span = document.createElement('span');

        span.className = 'step';

        mainStepDiv.appendChild(span);

    }

}

var p = document.getElementById('que');

var O1 = document.getElementById('opt1');

var O2 = document.getElementById('opt2');

var O3 = document.getElementById('opt3');

var O4 = document.getElementById('opt4');

function randomQ()

{

    var thisAsked = false;

    var x = Math.floor(Math.random() \* totQ.length);

    while ((totQ[x].asked === 0) == true)

    {

        thisAsked = true;

        totQ[x].asked = 1;

        queDoneArr.unshift(x);

        queDone = ++queDone;

        p.innerHTML = totQ[x].question;

        O1.nextElementSibling.innerHTML = totQ[x].opt1;

        O2.nextElementSibling.innerHTML = totQ[x].opt2;

        O3.nextElementSibling.innerHTML = totQ[x].opt3;

        O4.nextElementSibling.innerHTML = totQ[x].opt4;

    }

    if (!thisAsked)

    {

        if (queDone != totQ.length)

            randomQ();

    }

}

function next()

{

    if (!validateForm()) return false;

    topping(queDone);

    if (queDone == totQ.length)

    {

        theQuiz.style.display = 'none';

        document.getElementById('theResult').style.display = 'block';

        calcResult();

        return false;

    }

    randomQ();

}

var chkBox = document.getElementsByClassName('custom-control-input');

function validateForm()

{

    var valid = false;

    for (var i = 0; i < chkBox.length; i++)

    {

        if (chkBox[i].checked) {

            valid = true;

            userAns.unshift(chkBox[i].value);

            chkBox[i].checked = false;

            nextBtn.setAttribute('disabled', 'disabled');

            break;

        }

    }

    if (!valid)

    {

        alert('Please Select Any Option...');

        nextBtn.setAttribute('disabled', 'disabled');

    }

    if (valid)

        document.getElementsByClassName('step')[queDone - 1].className += ' finish';

    return valid;

}

var nextBtn = document.getElementById('next-button');

function enableBtn(i)

{

    if (i.checked) nextBtn.removeAttribute('disabled');

    else nextBtn.setAttribute('disabled', 'disabled');

}

function topping(n)

{

    if (n == totQ.length - 1)

        document.getElementById('next-button').innerHTML = 'Submit';

    else if (n == totQ.length)

    {

        document.getElementById('next-button').innerHTML = 'No Questions';

        nextBtn.setAttribute('disabled', 'disabled');

    }

    else

        document.getElementById('next-button').innerHTML = 'Next';

    fixStepIndicator(n);

}

function fixStepIndicator(n)

{

    var i,

        x = document.getElementsByClassName('step');

    for (i = 0; i < x.length; i++)

    {

        x[i].className = x[i].className.replace(' active', '');

    }

    x[n - 1].className += ' active';

}

function calcResult()

{

    var ca = 0;

    for (var i = 0; i < totQ.length; i++)

    {

        var a = queDoneArr[i];

        if (userAns[i] == totQ[a].answer)

        {

            ca = ca + 1;

        }

    }

    var percentage = (ca / totQ.length) \* 100;

    showResult(percentage, ca);

}

var resultCircle = document.getElementById('resultCircle');

var resultFb = document.getElementById('resultFb');

var correctAns = document.getElementById('correctAns');

var quizCompleted = false;

var RColor;

function showResult(percentage, ca)

{

    if (percentage == 100)

    {

        RColor = 'teal';

        resultFb.innerHTML = 'Wohoo.. Great, You are pass!';

        correctAns.innerHTML = 'Correct Answers: ' + ca;

    }

    else if (percentage >= 80)

    {

        RColor = 'green';

        resultFb.innerHTML = 'Congrats! You are pass.';

        correctAns.innerHTML = 'Correct Answers: ' + ca;

    }

    else if (percentage >= 65)

    {

        RColor = 'blue';

        resultFb.innerHTML = 'Good Effort, You are pass.';

        correctAns.innerHTML = 'Correct Answers: ' + ca;

    }

    else if (percentage >= 50)

    {

        RColor = 'orange';

        resultFb.innerHTML = 'You are passed!';

        correctAns.innerHTML = 'Correct Answers: ' + ca;

    }

    else

    {

        RColor = 'red';

        resultFb.innerHTML = 'Oh No! Your Are Failed... <br> Better Luck Next Time';

        correctAns.innerHTML = 'Correct Answers: ' + ca;

    }

    localStorage.setItem('percentage', percentage);

    localStorage.setItem('ca', ca);

    quizCompleted = true;

    var path =

        '<svg viewbox="0 0 36 36" class="circular-chart ' + RColor + '"> \

    <path class="circle-bg" \ d="M18 2.0845 \ a 15.9155 15.9155 0 0 1 0 31.831 \

    a 15.9155 15.9155 0 0 1 0 -31.831" \ /> \ <path class="circle" \ stroke-dasharray="' +

    percentage + ', 100" \ d="M18 2.0845 \ a 15.9155 15.9155 0 0 1 0 31.831 \ a 15.9155 15.9155 0 0 1 0 -31.831" \ /> \

    <text x="19" y="21" id="percentage">' + percentage + '%</text> \ </svg>';

    resultCircle.innerHTML = path;

}

function retakeQuiz()

{

    localStorage.removeItem('percentage');

    localStorage.removeItem('ca');

    location.reload(true);

}

**Questions.js**

function CQuiz(que, o1, o2, o3, o4, ans, d)

{

    this.question = que;

    this.opt1 = o1;

    this.opt2 = o2;

    this.opt3 = o3;

    this.opt4 = o4;

    this.answer = ans;

    this.asked = d;

}

var q1 = new CQuiz

(

    'Question 1',

    'Option 1',

    ‘Option 2',

    ‘Option 3',

    ‘Option 4',

    3,0

);

var q2 = new CQuiz

(

    'Question 2',

    'Option 1',

    ‘Option 2',

    ‘Option 3',

    ‘Option 4',

    3,0

);

…

…

…

var q(n) = new CQuiz

(

    'Question (n)',

    'Option 1',

    ‘Option 2',

    ‘Option 3',

    ‘Option 4',

    3,0

);

var totQJs = [q1, q2, …, qn];

**SCREEN SHOTS:**

Home page:

Select The topic for the quiz

Graphical user interface

Description automatically generated

**HTML**

Graphical user interface, text, application

Description automatically generated

**JAVASCRIPT**

Graphical user interface

Description automatically generated with medium confidence

**CSS**

Graphical user interface, application

Description automatically generated

**Results**

Graphical user interface, text, application, chat or text message

Description automatically generated Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

**CONCLUSION:**

The Quiz Game designed is very interactive, user friendly and easy to play.

It is designed to improve the knowledge and at the same time your IQ level. It is also designed to enhance and test your knowledge level.

**REFERENCE:**

**[1] You Don’t Know JS by Kyle Simpson.**

**[2] Eloquent JavaScript by Marijn Haverbeke.**

[3] Sierra, Kathy, and Bert Bates, 2003, Headfirst, O’Reilly.