

ONLINE TEST APPLICATION

Phase -4 project

SOURCE CODE

Html files:

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <a class="navbar-brand ml-2 fw-bolder" routerLink="/quiz">Online Quiz</a>
  <button
    class="navbar-toggler"
    type="button"
    data-toggle="collapse"
    data-target="#navbarNav"
    aria-controls="navbarNav"
    aria-expanded="false"
    aria-label="Toggle navigation"
  >
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav ms-auto">
      <li class="nav-item">
        <a
          class="nav-link btn-outline-primary btn-sm text-light fw-bolder"
          routerLink="/quiz"
        >Home</a>
      </li>
    </ul>
  </div>
</nav>

<div class="container">
  <router-outlet></router-outlet>
</div>

<footer class="bg-dark text-center text-lg-start mt-5">
  <!-- Copyright -->
  <div class="text-center p-3 text-light fw-bold">
    © 2022 Copyright:VARUN APESH
  </div>
  <a class="text-light fw-bolder" routerLink="/quiz">Online Quiz Application</a>
```

```
</div>
<!-- Copyright -->
</footer>
```

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>OnlineTestApplication</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
</head>
<body>
  <app-root></app-root>
</body>
</html>
```

Data files:

Aspnet.json:

```
{
  "id": 1,
  "name": "Asp.Net Quiz",
  "description": "Asp.Net Quiz (contains webform, mvc, web API, etc.)",
  "questions": [
    {
      "id": 1010,
      "name": "Which of the following utilities can be used to compile managed assemblies into processor-specific native code?",
      "questionTypeId": 1,
      "options": [
        {
          "id": 1055,
          "questionId": 1010,
          "name": "gacutil",
          "isAnswer": false
        },
        {
          "id": 1056,
          "questionId": 1010,
          "name": "ngen",
          "isAnswer": true
        }
      ]
    }
  ]
}
```

```
        "id": 1057,
        "questionId": 1010,
        "name": "sn",
        "isAnswer": false
    },
    {
        "id": 1058,
        "questionId": 1010,
        "name": "dumpbin",
        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1011,
    "name": "Which of the following .NET components can be used to remove unused
references from the managed heap?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": "Common Language Infrastructure",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "CLR",
            "isAnswer": false
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": "Garbage Collector",
            "isAnswer": true
        },
        {
            "id": 1058,
            "questionId": 1010,
            "name": "Class Loader",
            "isAnswer": false
        }
    ]
}
```

```
    ],
    "questionType": {
      "id": 1,
      "name": "Multiple Choice",
      "isActive": true
    }
  },
  {
    "id": 1012,
    "name": "Which of the following assemblies can be stored in Global Assembly
Cache?",
    "questionTypeId": 1,
    "options": [
      {
        "id": 1055,
        "questionId": 1010,
        "name": "Shared Assemblies",
        "isAnswer": true
      },
      {
        "id": 1057,
        "questionId": 1010,
        "name": "Private Assemblies",
        "isAnswer": false
      },
      {
        "id": 1056,
        "questionId": 1010,
        "name": "Public Assemblies",
        "isAnswer": false
      },
      {
        "id": 1058,
        "questionId": 1010,
        "name": "Protected Assemblies",
        "isAnswer": false
      }
    ]
  },
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1013,
  "name": "Code that targets the Common Language Runtime is known as",
  "questionTypeId": 1,
```

```
"options": [
  {
    "id": 1055,
    "questionId": 1010,
    "name": "Managed Code",
    "isAnswer": true
  },
  {
    "id": 1057,
    "questionId": 1010,
    "name": "Unmanaged",
    "isAnswer": false
  },
  {
    "id": 1056,
    "questionId": 1010,
    "name": "Distributed",
    "isAnswer": false
  },
  {
    "id": 1058,
    "questionId": 1010,
    "name": "Legacy",
    "isAnswer": false
  }
],
"questionType": {
  "id": 1,
  "name": "Multiple Choice",
  "isActive": true
}
},
{
  "id": 1014,
  "name": "Which of the following is the root of the .NET type hierarchy?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "System.Root",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "System.Parent",
      "isAnswer": false
    }
  ]
}
```

```
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "System.Type",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "System.Object",
      "isAnswer": true
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1015,
  "name": "An alternative way of displaying text on web page using?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "asp:listitem",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "asp:button",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "asp:label",
      "isAnswer": true
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "None of the above",
      "isAnswer": false
    }
  ]
}
```

```

    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1016,
  "name": "Which of the following object is not an ASP component?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Counter",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "LinkCounter",
      "isAnswer": true
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "AdRotator",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "File Access",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1017,
  "name": "Which of the following control is used to validate that two fields are
equal?",

```

```
"questionTypeId": 1,
"options": [
  {
    "id": 1055,
    "questionId": 1010,
    "name": "CompareValidator",
    "isAnswer": false
  },
  {
    "id": 1056,
    "questionId": 1010,
    "name": "equals() method",
    "isAnswer": true
  },
  {
    "id": 1057,
    "questionId": 1010,
    "name": "RegularExpressionValidator",
    "isAnswer": false
  },
  {
    "id": 1058,
    "questionId": 1010,
    "name": "RequiredFieldValidator",
    "isAnswer": false
  }
],
"questionType": {
  "id": 1,
  "name": "Multiple Choice",
  "isActive": true
}
},
{
  "id": 1018,
  "name": "How do you get information from a form that is submitted using the ?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Request.QueryString",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Response.write",
```



```
        "isAnswer": false
    },
    {
        "id": 1056,
        "questionId": 1010,
        "name": "Request.Form",
        "isAnswer": true
    },
    {
        "id": 1058,
        "questionId": 1010,
        "name": "Response.WriteLine",
        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1019,
    "name": "Which of the following is not a member of ADODBCommand object?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": "ExecuteScalar",
            "isAnswer": true
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": "ExecuteStream",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "Open",
            "isAnswer": false
        },
        {
            "id": 1058,
            "questionId": 1010,
            "name": "ExecuteReader",
```

```

        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
}
]
}

```

Csharp.json:

```

{
    "id": 1,
    "name": "Asp.Net Quiz",
    "description": "Asp.Net Quiz (contains webform, mvc, web API, etc.)",
    "questions": [
        {
            "id": 1010,
            "name": "Which of the following utilities can be used to compile managed assemblies into processor-specific native code?",
            "questionTypeId": 1,
            "options": [
                {
                    "id": 1055,
                    "questionId": 1010,
                    "name": "gacutil",
                    "isAnswer": false
                },
                {
                    "id": 1056,
                    "questionId": 1010,
                    "name": "ngen",
                    "isAnswer": true
                },
                {
                    "id": 1057,
                    "questionId": 1010,
                    "name": "sn",
                    "isAnswer": false
                },
                {
                    "id": 1058,
                    "questionId": 1010,

```

```

        "name": "dumpbin",
        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1011,
    "name": "Which of the following .NET components can be used to remove unused
references from the managed heap?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": "Common Language Infrastructure",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "CLR",
            "isAnswer": false
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": "Garbage Collector",
            "isAnswer": true
        },
        {
            "id": 1058,
            "questionId": 1010,
            "name": "Class Loader",
            "isAnswer": false
        }
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
    }
},
{

```

```
"id": 1012,
"name": "Which of the following assemblies can be stored in Global Assembly
Cache?",
"questionTypeId": 1,
"options": [
  {
    "id": 1055,
    "questionId": 1010,
    "name": "Shared Assemblies",
    "isAnswer": true
  },
  {
    "id": 1057,
    "questionId": 1010,
    "name": "Private Assemblies",
    "isAnswer": false
  },
  {
    "id": 1056,
    "questionId": 1010,
    "name": "Public Assemblies",
    "isAnswer": false
  },
  {
    "id": 1058,
    "questionId": 1010,
    "name": "Protected Assemblies",
    "isAnswer": false
  }
],
"questionType": {
  "id": 1,
  "name": "Multiple Choice",
  "isActive": true
}
},
{
  "id": 1013,
  "name": "Code that targets the Common Language Runtime is known as",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Managed Code",
      "isAnswer": true
    },
    {
```

```
        "id": 1057,
        "questionId": 1010,
        "name": "Unmanaged",
        "isAnswer": false
    },
    {
        "id": 1056,
        "questionId": 1010,
        "name": "Distributed",
        "isAnswer": false
    },
    {
        "id": 1058,
        "questionId": 1010,
        "name": "Legacy",
        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1014,
    "name": "Which of the following is the root of the .NET type hierarchy?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": "System.Root",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "System.Parent",
            "isAnswer": false
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": "System.Type",
            "isAnswer": false
        }
    ]
}
```

```
        "id": 1058,
        "questionId": 1010,
        "name": "System.Object",
        "isAnswer": true
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1015,
    "name": "An alternative way of displaying text on web page using?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": "asp:listitem",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "asp:button",
            "isAnswer": false
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": "asp:label",
            "isAnswer": true
        },
        {
            "id": 1058,
            "questionId": 1010,
            "name": "None of the above",
            "isAnswer": false
        }
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
    }
},
```

```
{
  "id": 1016,
  "name": "Which of the following object is not an ASP component?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Counter",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "LinkCounter",
      "isAnswer": true
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "AdRotator",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "File Access",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1017,
  "name": "Which of the following control is used to validate that two fields are
equal?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "CompareValidator",
      "isAnswer": false
    },
  ],
}
```

```
{
  "id": 1056,
  "questionId": 1010,
  "name": "equals() method",
  "isAnswer": true
},
{
  "id": 1057,
  "questionId": 1010,
  "name": "RegularExpressionValidator",
  "isAnswer": false
},
{
  "id": 1058,
  "questionId": 1010,
  "name": "RequiredFieldValidator",
  "isAnswer": false
}
],
"questionType": {
  "id": 1,
  "name": "Multiple Choice",
  "isActive": true
}
},
{
  "id": 1018,
  "name": "How do you get information from a form that is submitted using the ?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Request.QueryString",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Response.write",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "Request.Form",
      "isAnswer": true
    }
  ],
}
```



```

    {
      "id": 1058,
      "questionId": 1010,
      "name": "Response.writeln",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1019,
  "name": "Which of the following is not a member of ADODBCommand object?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "ExecuteScalar",
      "isAnswer": true
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "ExecuteStream",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Open",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "ExecuteReader",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
}

```

```
}  
]  
}
```

Javascript.json:

```
{  
  "id": 1,  
  "name": "JavaScript Quiz",  
  "description": "JavaScript Quiz (Basic Multiple Choice Questions for JavaScript Developers)",  
  "questions": [  
    {  
      "id": 1010,  
      "name": "Javascript is an _____ language?",  
      "questionTypeId": 1,  
      "options": [  
        {  
          "id": 1055,  
          "questionId": 1010,  
          "name": "Object - Based",  
          "isAnswer": false  
        },  
        {  
          "id": 1056,  
          "questionId": 1010,  
          "name": "Object -oriented",  
          "isAnswer": true  
        },  
        {  
          "id": 1057,  
          "questionId": 1010,  
          "name": "Procedural",  
          "isAnswer": false  
        },  
        {  
          "id": 1058,  
          "questionId": 1010,  
          "name": "None of the above",  
          "isAnswer": false  
        }  
      ],  
      "questionType": {  
        "id": 1,  
        "name": "Multiple Choice",  
        "isActive": true  
      }  
    },  
  ],  
}
```

```
{
  "id": 1011,
  "name": " Upon encountering empty statements, what does the Javascript Interpreter
do?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Throws an error",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Gives a warning",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "Ignores the statement",
      "isAnswer": true
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "None of the above",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1012,
  "name": "Which of the following is correct about JavaScript?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": " JavaScript is an Object-Based language",
      "isAnswer": true
    },
  ],
}
```

```

    {
      "id": 1057,
      "questionId": 1010,
      "name": " JavaScript is Assembly-language",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "JavaScript is an Object-Oriented language",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "JavaScript is a High-level language",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1013,
  "name": "Which of the following object is the main entry point to all client-side
JavaScript features and APIs?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": " Position",
      "isAnswer": true
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Window",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "Standard",
      "isAnswer": false
    }
  ]
}

```

```
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "Location",
      "isAnswer": false
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1014,
  "name": "Which of the following can be used to call a JavaScript Code Snippet?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "RMI",
      "isAnswer": false
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Triggering Event",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "Preprocessor",
      "isAnswer": false
    },
    {
      "id": 1058,
      "questionId": 1010,
      "name": "Function/Method",
      "isAnswer": true
    }
  ],
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
}
```

```

    }
  },
  {
    "id": 1015,
    "name": "Which of the following explains correctly what happens when a JavaScript
program is developed on a Unix Machine?",
    "questionTypeId": 1,
    "options": [
      {
        "id": 1055,
        "questionId": 1010,
        "name": "must be restricted to a Unix Machine only",
        "isAnswer": false
      },
      {
        "id": 1057,
        "questionId": 1010,
        "name": "will throw errors and exceptions",
        "isAnswer": false
      },
      {
        "id": 1056,
        "questionId": 1010,
        "name": "will work perfectly well on a Windows Machine",
        "isAnswer": true
      },
      {
        "id": 1058,
        "questionId": 1010,
        "name": " will be displayed as JavaScript text on the browser",
        "isAnswer": false
      }
    ]
  },
  "questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
  }
},
{
  "id": 1016,
  "name": " Why JavaScript Engine is needed?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": " Both Compiling & Interpreting the JavaScript",

```

```
    "isAnswer": false
  },
  {
    "id": 1056,
    "questionId": 1010,
    "name": "Interpreting the JavaScript",
    "isAnswer": true
  },
  {
    "id": 1057,
    "questionId": 1010,
    "name": " Parsing the javascript",
    "isAnswer": false
  },
  {
    "id": 1058,
    "questionId": 1010,
    "name": "Compiling the JavaScript",
    "isAnswer": false
  }
],
"questionType": {
  "id": 1,
  "name": "Multiple Choice",
  "isActive": true
}
},
{
  "id": 1017,
  "name": "Why event handlers is needed in JS?",
  "questionTypeId": 1,
  "options": [
    {
      "id": 1055,
      "questionId": 1010,
      "name": "Adds innerHTML page to the code",
      "isAnswer": false
    },
    {
      "id": 1056,
      "questionId": 1010,
      "name": "Allows JavaScript code to alter the behaviour of windows",
      "isAnswer": true
    },
    {
      "id": 1057,
      "questionId": 1010,
      "name": "Change the server location",
```

```

        "isAnswer": false
    },
    {
        "id": 1058,
        "questionId": 1010,
        "name": "Performs handling of exceptions and occurrences",
        "isAnswer": false
    }
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
}
},
{
    "id": 1018,
    "name": "Which of the following is not a framework?",
    "questionTypeId": 1,
    "options": [
        {
            "id": 1055,
            "questionId": 1010,
            "name": " JavaScript .NET",
            "isAnswer": false
        },
        {
            "id": 1057,
            "questionId": 1010,
            "name": "Cocoa JS",
            "isAnswer": false
        },
        {
            "id": 1056,
            "questionId": 1010,
            "name": " JavaScript",
            "isAnswer": true
        },
        {
            "id": 1058,
            "questionId": 1010,
            "name": " jQuery",
            "isAnswer": false
        }
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
    }
}

```



```

        "isActive": true
      }
    },
    {
      "id": 1019,
      "name": "Which of the following is not an error in JavaScript?",
      "questionTypeId": 1,
      "options": [
        {
          "id": 1055,
          "questionId": 1010,
          "name": "Division by zero",
          "isAnswer": true
        },
        {
          "id": 1056,
          "questionId": 1010,
          "name": "Missing of Bracket",
          "isAnswer": false
        },
        {
          "id": 1057,
          "questionId": 1010,
          "name": "Syntax error",
          "isAnswer": false
        },
        {
          "id": 1058,
          "questionId": 1010,
          "name": "Missing of semicolons",
          "isAnswer": false
        }
      ],
      "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
      }
    }
  ]
}

```

Angular.json:

```

{
  "$schema": "./node_modules/@angular/cli/lib/config/schema.json",
  "cli": {
    "analytics": false
  }
}

```

```
},
"version": 1,
"newProjectRoot": "projects",
"projects": {
  "online-test-application": {
    "projectType": "application",
    "schematics": {},
    "root": "",
    "sourceRoot": "src",
    "prefix": "app",
    "architect": {
      "build": {
        "builder": "@angular-devkit/build-angular:browser",
        "options": {
          "outputPath": "dist/online-test-application",
          "index": "src/index.html",
          "main": "src/main.ts",
          "polyfills": "src/polyfills.ts",
          "tsConfig": "tsconfig.app.json",
          "aot": true,
          "assets": [
            "src/favicon.ico",
            "src/data",
            "src/assets"
          ],
          "styles": [
            "node_modules/bootstrap/dist/css/bootstrap.css",
            "src/styles.css"
          ],
          "scripts": ["node_modules/jquery/dist/jquery.min.js",
            "node_modules/bootstrap/dist/js/bootstrap.bundle.js"]
        },
        "configurations": {
          "production": {
            "fileReplacements": [
              {
                "replace": "src/environments/environment.ts",
                "with": "src/environments/environment.prod.ts"
              }
            ],
            "optimization": true,
            "outputHashing": "all",
            "sourceMap": false,
            "namedChunks": false,
            "extractLicenses": true,
            "vendorChunk": false,
            "buildOptimizer": true,
            "budgets": [
```

```
{
  "type": "initial",
  "maximumWarning": "2mb",
  "maximumError": "5mb"
},
{
  "type": "anyComponentStyle",
  "maximumWarning": "6kb",
  "maximumError": "10kb"
}
]
}
},
"serve": {
  "builder": "@angular-devkit/build-angular:dev-server",
  "options": {
    "browserTarget": "online-test-application:build"
  },
  "configurations": {
    "production": {
      "browserTarget": "online-test-application:build:production"
    }
  }
},
"extract-i18n": {
  "builder": "@angular-devkit/build-angular:extract-i18n",
  "options": {
    "browserTarget": "online-test-application:build"
  }
},
"test": {
  "builder": "@angular-devkit/build-angular:karma",
  "options": {
    "main": "src/test.ts",
    "polyfills": "src/polyfills.ts",
    "tsConfig": "tsconfig.spec.json",
    "karmaConfig": "karma.conf.js",
    "assets": [
      "src/favicon.ico",
      "src/assets"
    ],
    "styles": [
      "src/styles.css"
    ],
    "scripts": []
  }
},
```

```

"lint": {
  "builder": "@angular-devkit/build-angular:tslint",
  "options": {
    "tsConfig": [
      "tsconfig.app.json",
      "tsconfig.spec.json",
      "e2e/tsconfig.json"
    ],
    "exclude": [
      "**/node_modules/**"
    ]
  }
},
"e2e": {
  "builder": "@angular-devkit/build-angular:protractor",
  "options": {
    "protractorConfig": "e2e/protractor.conf.js",
    "devServerTarget": "online-test-application:serve"
  },
  "configurations": {
    "production": {
      "devServerTarget": "online-test-application:serve:production"
    }
  }
}
}
},
"defaultProject": "online-test-application"
}

```

Tsconfig.app.json:

```

/* To learn more about this file see: https://angular.io/config/tsconfig. */
{
  "extends": "./tsconfig.json",
  "compilerOptions": {
    "outDir": "./out-tsc/app",
    "types": []
  },
  "files": [
    "src/main.ts",
    "src/polyfills.ts"
  ],
}

```

```
"include": [  
  "src/**/*.d.ts"  
]  
}
```

CSS files:

Style.css:

```
body{  
  min-height: 100vh;  
  display: flex;  
  flex-direction: column;  
}  
  
.btn {  
  border-radius: 0;  
}  
  
.option {  
  background-color: #cadaee;  
  font-size: 20px;  
  padding: 10px;  
  margin: 3px;  
}  
  
#quiz .options input[type=checkbox] {  
  height: 22px;  
  width: 22px;  
}  
  
.cursor-pointer {  
  cursor: pointer;  
}  
  
.result-question {  
  background-color: #eee;  
  margin: 4px;  
  padding: 6px;  
}  
  
@media only screen and (max-width: 480px) {  
  
  h1,  
  .h1 {
```

```
    font-size: 22px;
  }

  h2,
  .h2 {
    font-size: 20px;
  }

  h3,
  .h3 {
    font-size: 18px;
  }

  .option {
    font-size: 16px;
    padding: 6px;
  }
}

.card-img-top {
  width: 100%;
  height: 15vw;
  object-fit: cover;
}

footer{
  margin-top: auto;
}
```