

## Minor Project 21CSA697A

### Interim Report

**Title:** Frontend Development using React And Data Manipulation in JavaScript

**Student Name:** Anantha Krishnan S

**Roll No.:** AA.SC.P2MCA2207023

#### 1. Course Overview

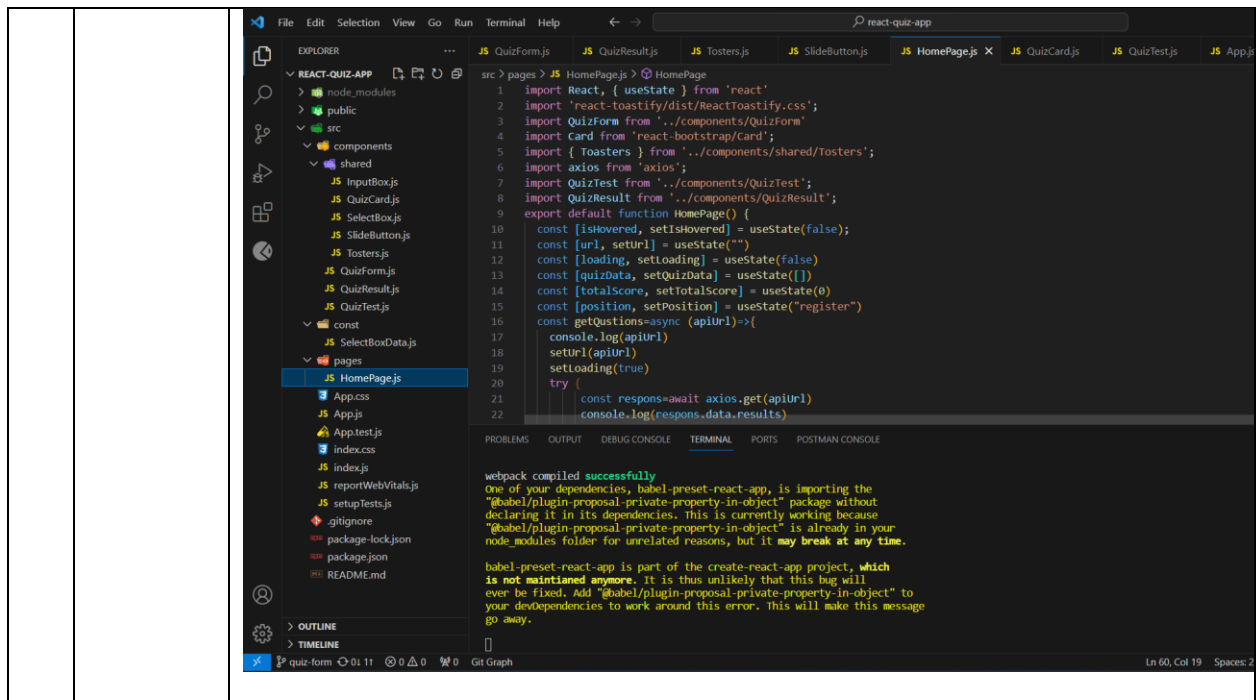
Sl. No.	Courses	Completed/Not completed	Outcomes <i>(Describe the learning outcomes achieved from each course)</i>
1.	Frontend Development using React	Completed	Proficiency in building interactive interfaces using React. Practical application of React components and state management.
2.	Data Manipulation in JavaScript	Completed	Comprehensive understanding and practical application of JavaScript data manipulation concepts.

## 2. Assessments Completed

(Provide screenshots)

Sl. No.	Courses	Assessments
1.	Frontend Development using React	<div><div><div>TriviaPulse</div><div><div>Number of Questions: 10</div><div>Select Category: Any Category</div><div>Select Difficulty Level: Any Difficulty</div><div>Select Type Questions: Any Type</div></div><div>Start Quiz</div></div></div> <div><div>TriviaPulse</div><div><div>When was the programming language "C#" released?</div><div><div><input type="radio"/> 1998</div><div><input type="radio"/> 1999</div><div><input type="radio"/> 2001</div><div><input type="radio"/> 2000</div></div></div><div><div>Which game in the "Monster Hunter" series introduced the monster "Gobul"?</div><div><div><input type="radio"/> Monster Hunter Freedom Unite</div><div><input type="radio"/> Monster Hunter Frontier</div><div><input type="radio"/> Monster Hunter Generations</div><div><input type="radio"/> Monster Hunter Tri</div></div></div><div><div>What is the name of the former country that was succeeded by countries such as Serbia,</div></div></div>

		 <p>TriviaPulse</p> <p>0/10</p> <ol style="list-style-type: none"> <li>When was the programming language "C#" released? 2000</li> <li>Which game in the "Monster Hunter" series introduced the monster "Gobul"? Monster Hunter Tri</li> <li>What is the name of the former country that was succeeded by countries such as Serbia, Croatia and Slovenia? Yugoslavia</li> <li>When was Nintendo's Virtual Boy released? 1995</li> <li>Which of these is the name of a song by Tears for Fears? Shout</li> <li>In "Call Of Duty: Zombies", "Richtofen" is in possession of two filled blood vials belonging to who?</li> </ol>
2.	Data Manipulation in JavaScript	<pre>const calculateScore = () =&gt; {   return quizData.reduce((score, question) =&gt; {     const isCorrect = selectedAnswers[question.question] === question.correct_answer;     return isCorrect ? score + 1 : score;   }, 0); };</pre> <pre>const handleOptionSelect = (questionId, selectedOption) =&gt; {   setSelectedAnswers({     ...selectedAnswers,     [questionId]: selectedOption,   }); };</pre>



### 3. Abstract of the project

In this hands-on project, I am integrating the knowledge gained from the "Frontend Development using React" and "Data Manipulation in JavaScript" courses. The main objective is to create a quiz app using React, utilizing the Open Trivia Database API (<https://opentdb.com/>). The app allows users to select a category, choose the number of questions (minimum 1), pick the difficulty level, and select the question type (multiple choice, true/false). The project demonstrates the seamless integration of JavaScript data manipulation and React frontend development.

**Date**

**20/01/2024**

**Student Name and Signature**

**Anantha Krishnan S**

A handwritten signature in black ink, appearing to be 'Anantha Krishnan S', written over a horizontal line. The signature is stylized with a large initial 'A' and a long horizontal stroke.