# Declaration of Academic Integrity

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Check **only one** of the two options below:

I affirm that the work I submit is my own, produced without help from any AI tool(s) and/or other source(s).

I affirm that the work I submit has been produced with the use of AI tool(s) and/or other source(s) which I have acknowledged fully in the [following section](#_Acknowledgement_of_use).

By signing this form, I declare that the above affirmation made is true, and that I have read and understood the rules stated in Students Handbook on “[Plagiarism](https://www.sp.edu.sg/sp/student-services/osc-overview/student-handbook/intellectual-property-copyright-and-plagiarism)” and “[Breach of Examination/Assessment Rules](https://www.sp.edu.sg/sp/student-services/osc-overview/student-handbook/conduct-in-examinations-breach-of-exam-rules)”.

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| Signature:  Jayying | Date:  4/8/2024 | |

## Acknowledgement of use of AI tool(s) and/or other source(s) (where applicable)

### AI tool(s)

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| **Name of AI tool** | < *ChatGPT* > |
| **Input prompt** | < How to create a quiz using only Boostrap 5.3.3 and Javascript >  < What the structure to create a tooltip using Bootstrap 5.3.3 > |
| **Date generated** | < *23/07/2024* >  <28/07/2024> |
| **Output generated** | < Creating a quiz using only Bootstrap 5.3.3 and JavaScript involves a few key steps. Here's a simple example to guide you through the process: 1. HTML Structure You'll need an HTML structure for the quiz. This typically includes a form for the questions, buttons for navigation, and placeholders for the quiz content.  html  Copy code  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Quiz Example</title>  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-09xU4F6HTaHhK/U2Moy29MPw5ZwQYh5t2t4K6s7RZR5xKt2F0S6au5En4U6LhW4g" crossorigin="anonymous">  </head>  <body>  <div class="container my-5">  <div id="quiz-container">  <!-- Quiz Question and Options will be injected here -->  </div>  <button id="prev-btn" class="btn btn-primary me-2" onclick="prevQuestion()">Previous</button>  <button id="next-btn" class="btn btn-primary" onclick="nextQuestion()">Next</button>  <button id="submit-btn" class="btn btn-success d-none" onclick="submitQuiz()">Submit</button>  </div>  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-0pUGZvbkm6XF6gxjEnlmuGrJXVbNuzT9qBBavbLwCsOGabYfZo0T0to5eqruptLy" crossorigin="anonymous"></script>  <script src="quiz.js"></script>  </body>  </html> 2. JavaScript Logic Create a quiz.js file to handle the quiz logic:  javascript  Copy code  const questions = [  {  question: "What is the capital of France?",  options: ["Berlin", "Madrid", "Paris", "Lisbon"],  answer: 2  },  {  question: "What is 2 + 2?",  options: ["3", "4", "5", "6"],  answer: 1  },  // Add more questions here  ];  let currentQuestionIndex = 0;  function renderQuestion(index) {  const question = questions[index];  const quizContainer = document.getElementById('quiz-container');  quizContainer.innerHTML = `  <h2>${question.question}</h2>  <div class="list-group">  ${question.options.map((option, i) => `  <button class="list-group-item list-group-item-action" onclick="selectOption(${i})">${option}</button>  `).join('')}  </div>  `;  }  function selectOption(optionIndex) {  // Handle option selection (e.g., store the answer)  console.log(`Selected option: ${optionIndex}`);  }  function prevQuestion() {  if (currentQuestionIndex > 0) {  currentQuestionIndex--;  renderQuestion(currentQuestionIndex);  }  }  function nextQuestion() {  if (currentQuestionIndex < questions.length - 1) {  currentQuestionIndex++;  renderQuestion(currentQuestionIndex);  } else {  document.getElementById('submit-btn').classList.remove('d-none');  }  }  function submitQuiz() {  // Handle quiz submission (e.g., calculate results)  alert('Quiz submitted!');  }  // Initialize the quiz  renderQuestion(currentQuestionIndex); Explanation  1. **HTML Structure**: Contains a container for the quiz, navigation buttons, and a script link to include your JavaScript. 2. **JavaScript Logic**:    * **Questions Array**: Holds the quiz questions, options, and correct answer indices.    * **renderQuestion Function**: Updates the quiz container with the current question and options.    * **selectOption Function**: Handles option selection (currently just logs the option index).    * **prevQuestion and nextQuestion Functions**: Navigate through the quiz questions.    * **submitQuiz Function**: Handles quiz submission.   This setup provides a basic quiz functionality using only Bootstrap for styling and JavaScript for logic. You can expand it by adding features like score calculation, user feedback, and more sophisticated state management.  >  < To create a tooltip using Bootstrap 5.3.3, follow these steps:   1. **Include Bootstrap CSS and JS:** Make sure you include the Bootstrap CSS and JavaScript files in your HTML. Use the CDN links for Bootstrap 5.3.3:   html  Copy code  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>   1. **Add Tooltip HTML:** Add the data-bs-toggle and data-bs-placement attributes to the element that should trigger the tooltip. You can also use the title attribute to specify the tooltip text.   html  Copy code  <button type="button" class="btn btn-secondary" data-bs-toggle="tooltip" data-bs-placement="top" title="Tooltip on top">  Hover me  </button>   1. **Initialize the Tooltip with JavaScript:** Add JavaScript code to initialize the tooltip. You need to use Bootstrap’s Tooltip method to activate the tooltip.   html  Copy code  <script>  document.addEventListener('DOMContentLoaded', function () {  var tooltipTriggerList = [].slice.call(document.querySelectorAll('[data-bs-toggle="tooltip"]'));  tooltipTriggerList.map(function (tooltipTriggerEl) {  return new bootstrap.Tooltip(tooltipTriggerEl);  });  });  </script>  Here is a complete example integrating all the steps:  html  Copy code  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tooltip Example</title>  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">  </head>  <body>  <div class="container mt-5">  <button type="button" class="btn btn-secondary" data-bs-toggle="tooltip" data-bs-placement="top" title="Tooltip on top">  Hover me  </button>  </div>  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>  <script>  document.addEventListener('DOMContentLoaded', function () {  var tooltipTriggerList = [].slice.call(document.querySelectorAll('[data-bs-toggle="tooltip"]'));  tooltipTriggerList.map(function (tooltipTriggerEl) {  return new bootstrap.Tooltip(tooltipTriggerEl);  });  });  </script>  </body>  </html>  In this example:   * The tooltip is activated on a button element with the data-bs-toggle="tooltip" attribute. * The tooltip will appear on top of the button, as specified by data-bs-placement="top". * The title attribute contains the text displayed in the tooltip.   Feel free to adjust the data-bs-placement attribute to top, bottom, left, or right based on where you want the tooltip to appear relative to the element.  > |
| **Impact on submission** | < -*Home Page: Quiz Section (took reference from asking ChatGPT questions and modified it to fit what I want it to be. >*  *< Tooltip Part for Home Page (Quiz Submit Button) & Messages Page (Upload a Photo) section. Used ChatGPT to know what the structure of creating a tooltip is like then modified it on my own.* > |

### Other source(s) (NIL)

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| **Source** | **Impact on submission** |
| < *Link to online source* > | < *Briefly explain which part of your submitted work the online source was applied* > |
| < *Author, Book / Article / Journal, Year, Pages* > | < *Briefly explain which part of your submitted work the Book / Article / Journal was applied* > |
| < *Student / Person name* > | < *Briefly explain which part of your submitted work the help of another student / person was applied* > |
| < *Others* > | < *Briefly explain which part of your submitted work the source was applied* > |