

**UNIVERSITI MALAYSIA TERENGGANU**

**CSM3103 – FRONT-END PROGRAMMING**

**BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS**

**LAB 6**

**SEMESTER II 2023/2024**

**Prepared for:**

DR RABIEI BIN MAMAT

**Prepared by:**

MUHAMMAD NOR IQBAL BIN ABDUL RAUF

(S67614)

**Link Github :**

https://github.com/0pSinon/CSM3103\_Lab6\_S67614

**Task 1**

**Code :**

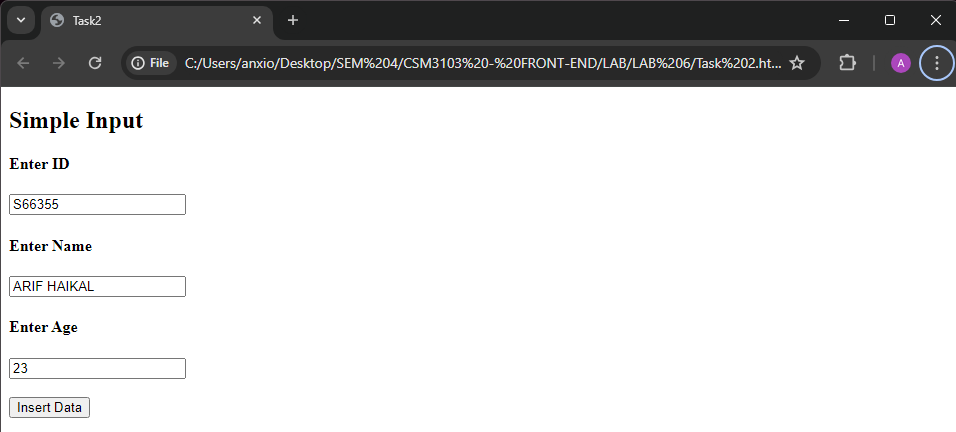
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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta http-equiv="X-UA-Compatible" content="IE-edge">  <meta name="viewport" content="width=device-width, inital-scale=1.0">  <title>Task 1</title>  </head>  <body>  <script src="https://www.gstatic.com/firebasejs/10.12.1/firebase-app.js"></script>  <script src="https://www.gstatic.com/firebasejs/10.12.1/firebase-analytics.js"></script>  const firebaseConfig = {  apiKey: "AIzaSyBjGwXf-TD11YM5JqJ3\_uEeBVPI4DWd15s",  authDomain: "lab-6-task-2.firebaseapp.com",  databaseURL: "https://lab-6-task-2-default-rtdb.asia-southeast1.firebasedatabase.app",  projectId: "lab-6-task-2",  storageBucket: "lab-6-task-2.appspot.com",  messagingSenderId: "682378858269",  appId: "1:682378858269:web:3f3c1a596afc14220ddbf4",  measurementId: "G-6WMTHKD52Z"  };  </script>  </body>  </html> |

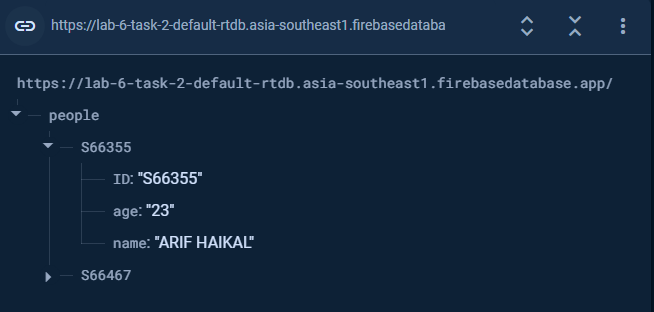
**Task 2**

**Code :**

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| <!doctype html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta http-equiv="X-UA-Compatible" content="IE=edge">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Task2</title>  </head>  <body>  <h2>Simple Input</h2>  <div class="row">  <h4>Enter ID</h4>  <input type="text" id="inputID">    <h4>Enter Name</h4>  <input type="text" id="inputName">    <h4>Enter Age</h4>  <input type="number" id="inputAge">    <br><br>    <button id="btnInsert">Insert Data</button>  </div>  <script type="module">  // Import the functions you need from the SDKs you need  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-app.js";  import { getAnalytics } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-analytics.js";  import { getDatabase, ref, set } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-database.js";    // Your web app's Firebase configuration  const firebaseConfig = {  apiKey: "AIzaSyBjGwXf-TD11YM5JqJ3\_uEeBVPI4DWd15s",  authDomain: "lab-6-task-2.firebaseapp.com",  databaseURL: https://s67614-lab6-default-rtdb.asia-southeast1.firebasedatabase.app/",  projectId: "lab-6-task-2",  storageBucket: "lab-6-task-2.appspot.com",  messagingSenderId: "682378858269",  appId: "1:682378858269:web:3f3c1a596afc14220ddbf4",  measurementId: "G-6WMTHKD52Z"  };      // Initialize Firebase  const app = initializeApp(firebaseConfig);  const analytics = getAnalytics(app);  const db = getDatabase(app);  var inputID = document.querySelector("#inputID");  var inputName = document.querySelector("#inputName");  var inputAge = document.querySelector("#inputAge");  var btnInsert = document.querySelector("#btnInsert");  btnInsert.addEventListener("click", funInsertData);  function funInsertData() {  set(ref(db, "people/" + inputID.value), {  name: inputName.value,  ID: inputID.value,  age: inputAge.value  })  .then(() => {  alert("Data added successfully!");  })  .catch((error) => {  alert("Error: " + error);  });  }  </script>  </body>  </html> |

Output :





**Task 3**

**Code :**

Register.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Store Data in Firebase</title>  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css" integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">  </head>  <body>  <div class="container mt-5">  <h3>Store Data in Firebase</h3>  <form id="dataForm">  <div class="form-group">  <label for="name">Name:</label>  <input type="text" class="form-control" id="name" placeholder="Enter your name">  </div>  <div class="form-group">  <label for="address">Address:</label>  <input type="text" class="form-control" id="address" placeholder="Enter your address">  </div>  <div class="form-group">  <label for="phone">Phone Number:</label>  <input type="text" class="form-control" id="phone" placeholder="Enter your phone number">  </div>  <div class="form-group">  <label for="username">New username:</label>  <input type="text" class="form-control" id="username" placeholder="Enter your username">  </div>  <div class="form-group">  <label for="pass">New password:</label>  <input type="password" class="form-control" id="pass" placeholder="Enter your password">  </div>  <button type="submit" class="btn btn-primary">Submit</button>  </form>  </div>  <script type="module">  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-app.js";  import { getDatabase, ref, set } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-database.js";  const firebaseConfig = {  apiKey: "AIzaSyBjGwXf-TD11YM5JqJ3\_uEeBVPI4DWd15s",  authDomain: "lab-6-task-2.firebaseapp.com",  databaseURL: "https://s67614-lab6-default-rtdb.asia-southeast1.firebasedatabase.app/",  projectId: "lab-6-task-2",  storageBucket: "lab-6-task-2.appspot.com",  messagingSenderId: "682378858269",  appId: "1:682378858269:web:3f3c1a596afc14220ddbf4",  measurementId: "G-6WMTHKD52Z"  };  // Initialize Firebase  const app = initializeApp(firebaseConfig);  const db = getDatabase(app);  const dataForm = document.getElementById('dataForm');  dataForm.addEventListener('submit', (e) => {  e.preventDefault(); // Prevent default form submission  const name = dataForm['name'].value;  const address = dataForm['address'].value;  const phone = dataForm['phone'].value;  const username = dataForm['username'].value;  const pass = dataForm['pass'].value;  // Store data in Firebase under "users/{username}"  set(ref(db, "users/" + username), {  name: name,  address: address,  phone: phone,  username: username,  pass: pass  })  .then(() => {  alert("Data stored successfully!");  // Optionally, redirect to another page  window.location.href = "Task 3 - Login.html";  })  .catch((error) => {  alert("Error: " + error.message);  });  });  </script>  </body>  </html> |

Login.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Login</title>  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css" integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">  <script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/4.2.0/crypto-js.min.js"></script>  <style>  body {  display: flex;  justify-content: center;  align-items: center;  height: 100vh;  width: 100vw;  margin: 0px;  }  </style>  </head>  <body>  <div class="mb-5">  <h3 class="mb-3">Login</h3>  <input type="text" placeholder="Username" id="userInp" class="form-control mb-3">  <input type="password" placeholder="Password" id="passInp" class="form-control mb-3">  <div class="custom-control custom-switch mb-3">  <input type="checkbox" class="custom-control-input" id="customSwitch1">  <label class="custom-control-label" for="customSwitch1">Keep me Logged In</label>  </div>  <button type="button" id="sub\_btn" class="btn w-100 btn-outline-primary mb-3">Sign In</button>  <a href="Task 3 - Register.html" class="badge badge-secondary py-1 w-100">Want To Create A New Account?</a>  </div>  <script type="module">  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-app.js";  import { getDatabase, ref, get, child } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-database.js";  const firebaseConfig = {  apiKey: "AIzaSyBjGwXf-TD11YM5JqJ3\_uEeBVPI4DWd15s",  authDomain: "lab-6-task-2.firebaseapp.com",  databaseURL: "https://s67614-lab6-default-rtdb.asia-southeast1.firebasedatabase.app/",  projectId: "lab-6-task-2",  storageBucket: "lab-6-task-2.appspot.com",  messagingSenderId: "682378858269",  appId: "1:682378858269:web:3f3c1a596afc14220ddbf4",  measurementId: "G-6WMTHKD52Z"  };  // Initialize Firebase  const app = initializeApp(firebaseConfig);  const db = getDatabase(app);  const username = document.getElementById('userInp');  const pass = document.getElementById('passInp');  const submit = document.getElementById('sub\_btn');  // Authentication process  function authenticateUser() {  const dbRef = ref(db);  get(child(dbRef, "users/" + username.value)).then((snapshot) => {  if (snapshot.exists()) {  let dbpass = snapshot.val().pass;  if (dbpass === pass.value) {  login(snapshot.val());  } else {  alert("Incorrect password");  }  } else {  alert("User does not exist");  }  }).catch((error) => {  alert("Error: " + error.message);  });  }  // Login process  function login(user) {  let keepLoggedIn = document.getElementById('customSwitch1').checked;  if (!keepLoggedIn) {  sessionStorage.setItem('user', JSON.stringify(user));  window.location = "Task 3 - Landing.html";  } else {  localStorage.setItem('user', JSON.stringify(user));  window.location = "Task 3 - Landing.html";  }  }  // Assign the event  submit.addEventListener('click', authenticateUser);  </script>  </body>  </html> |

Landing.html

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Home</title>  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css" integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">  <style>  body {  display: flex;  justify-content: center;  align-items: center;  height: 100vh;  width: 100vw;  margin: 0px;  }  .container {  text-align: center;  }  </style>  </head>  <body>  <div class="container">  <h3>HERE YOUR PROFILE !</h3>  <div id="userInfo">  <!-- User information will be displayed here -->  </div>  </div>  <script type="module">  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-app.js";  import { getDatabase, ref, get } from "https://www.gstatic.com/firebasejs/10.12.0/firebase-database.js";  const firebaseConfig = {  apiKey: "AIzaSyBjGwXf-TD11YM5JqJ3\_uEeBVPI4DWd15s",  authDomain: "lab-6-task-2.firebaseapp.com",  databaseURL: "https://s67614-lab6-default-rtdb.asia-southeast1.firebasedatabase.app/",  projectId: "lab-6-task-2",  storageBucket: "lab-6-task-2.appspot.com",  messagingSenderId: "682378858269",  appId: "1:682378858269:web:3f3c1a596afc14220ddbf4",  measurementId: "G-6WMTHKD52Z"  };  // Initialize Firebase  const app = initializeApp(firebaseConfig);  const db = getDatabase(app);  // Function to display user information  function displayUserInfo() {  const user = JSON.parse(sessionStorage.getItem('user')) || JSON.parse(localStorage.getItem('user'));  console.log('User from session or local storage:', user);  if (user) {  const dbRef = ref(db, `users/${user.username}`);  get(dbRef).then((snapshot) => {  if (snapshot.exists()) {  const userData = snapshot.val();  document.getElementById('userInfo').innerHTML = `  <p><strong>Name:</strong> ${userData.name}</p>  <p><strong>Address:</strong> ${userData.address}</p>  <p><strong>Phone Number:</strong> ${userData.phone}</p>  `;  } else {  document.getElementById('userInfo').innerHTML = "<p>No user data found.</p>";  }  }).catch((error) => {  console.error("Error getting user data: ", error);  document.getElementById('userInfo').innerHTML = "<p>Error retrieving user data.</p>";  });  } else {  document.getElementById('userInfo').innerHTML = "<p>User not logged in.</p>";  }  }  // Call the function to display user information  displayUserInfo();  </script>  </body>  </html> |

Output :

