

### UNIVERSITI MALAYSIA TERENGGANU

## CSM3103 – FRONT-END PROGRAMMING

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

### LAB 6

### **SEMESTER II 2023/2024**

Prepared for:

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**Link Github:** 

https://github.com/arifhaikal2001/CSM3103-LAB-6.git

#### Task 1

### Code:

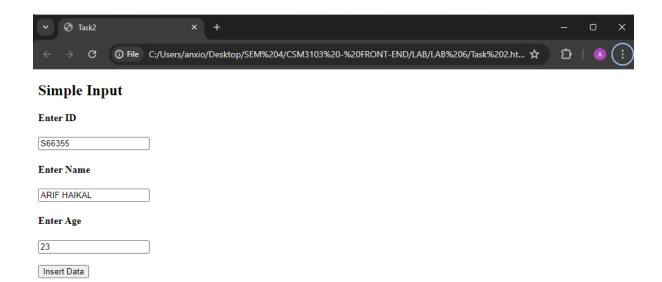
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE-edge">
  <meta name="viewport" content="width=device-width, inital-scale=1.0">
  <title>Task 1</title>
</head>
<body>
      <script src="https://www.gstatic.com/firebasejs/10.12.1/firebase-app.js"></script>
      <script src="https://www.gstatic.com/firebasejs/10.12.1/firebase-</p>
analytics.js"></script>
      const firebaseConfig = {
       apiKey: "AlzaSyBjGwXf-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",
       appld: "1:682378858269:web:3f3c1a596afc14220ddbf4",
       measurementId: "G-6WMTHKD52Z"
    };
</script>
</body>
</html>
```

#### Code:

```
<!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: "AlzaSyBjGwXf-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",
       appld: "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

```
<!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>
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9lfjh"
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
    </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: "AlzaSyBjGwXf-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",
       appld: "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>
```

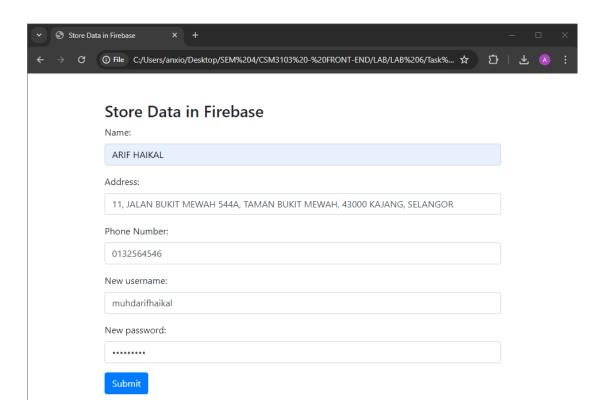
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login</title>
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9lfjh"
crossorigin="anonymous">
  <script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/4.2.0/crypto-</pre>
is.min.is"></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">
       <a href="class="custom-control-label" for="customSwitch1">Keep me Logged</a>
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: "AlzaSyBjGwXf-TD11YM5JqJ3 uEeBVPl4DWd15s",
       authDomain: "lab-6-task-2.firebaseapp.com",
       databaseURL: "https://lab-6-task-2-default-rtdb.asia-
southeast1.firebasedatabase.app",
```

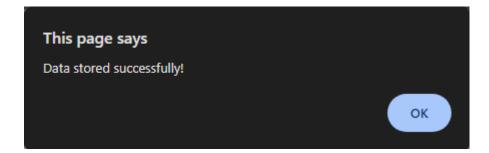
```
projectId: "lab-6-task-2",
       storageBucket: "lab-6-task-2.appspot.com",
       messagingSenderId: "682378858269",
       appld: "1:682378858269:web:3f3c1a596afc14220ddbf4",
       measurementId: "G-6WMTHKD52Z"
    };
    // Initialize Firebase
    const app = initializeApp(firebaseConfig);
    const db = getDatabase(app);
    const username = document.getElementByld('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>
```

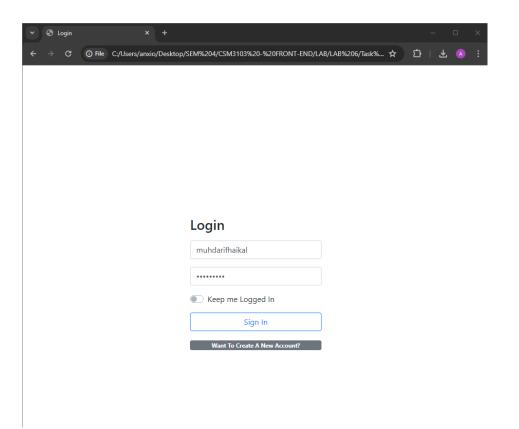
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home</title>
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9lfjh"
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: "AlzaSyBjGwXf-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",
       appld: "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 = `
                <strong>Name:</strong> ${userData.name}
                <strong>Address:</strong> ${userData.address}
                 <strong>Phone Number:</strong> ${userData.phone}
           } else {
              document.getElementById('userInfo').innerHTML = "No user data
found.";
         }).catch((error) => {
            console.error("Error getting user data: ", error);
            document.getElementById('userInfo').innerHTML = "Error retrieving user
data.";
         });
       } else {
         document.getElementById('userInfo').innerHTML = "User not logged
in.";
    // Call the function to display user information
    displayUserInfo();
  </script>
</body>
</html>
```

# Output:









### HERE YOUR PROFILE!

Name: ARIF HAIKAL

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Phone Number: 0132564546