



**UNIVERSITI MALAYSIA TERENGGANU**

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**CSM3103 -PENGATURCARAAN FRONT-END**

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

**LAB 6**

**SEMESTER 2 2023/2024**

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Github: <https://github.com/AylaaE/CSM3103-Lab-6.git>

## Task 1 – Explore how to use Firebase

```
C: > Users > User > Documents > UMT SEM 4 > Front-End > Lab 6 > Task1.html > html
1  <!doctype html>
2  <html lang="en">
3
4
5  <head>
6      <meta charset="UTF-8">
7      <meta http-equiv="X-UA-Compatible" content="IE=edge">
8      <meta name="viewport" content="width=device-width, initial-scale=1.0">
9      <title>Task1</title>
10 </head>
11 <body>
12
13     <script src="https://www.gstatic.com/firebasejs/10.12.0/firebase-app.js"></script>
14     <script src="https://www.gstatic.com/firebasejs/10.12.0/firebase-database.js"></script>
15
16     <script>
17         const firebaseConfig = {
18             apiKey: "AIzaSyDZqnnGirRXTeVMM3D2bSU5MJ64KR2Ie4",
19             authDomain: "lab-6-front-end.firebaseio.com",
20             projectId: "lab-6-front-end",
21             storageBucket: "lab-6-front-end.appspot.com",
22             messagingSenderId: "883955338045",
23             appId: "1:883955338045:web:3637e95a0686311d2d5354",
24             measurementId: "G-2S6710DMFE"
25         };
26     </script>
27 </body>
28
```

## Task 2 – write data into firebase

```
<!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>
    </div>

```

```

    <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: "AIzaSyDZqnnGIrRXTevVMM3D2bSU5MJ64KR2Ie4",
      authDomain: "lab-6-front-end.firebaseio.com",
      databaseURL: "https://lab-6-front-end-default-rtdb.asia-
southeast1.firebaseio.com",
      projectId: "lab-6-front-end",
      storageBucket: "lab-6-front-end.appspot.com",
      messagingSenderId: "883955338045",
      appId: "1:883955338045:web:3637e95a0686311d2d5354",
      measurementId: "G-2S6710DMFE"
    };

    // 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>
```

Task2

C:/Users/User/Documents/UMT%20SEM%204/Front-End/Lab%206/Task2.html

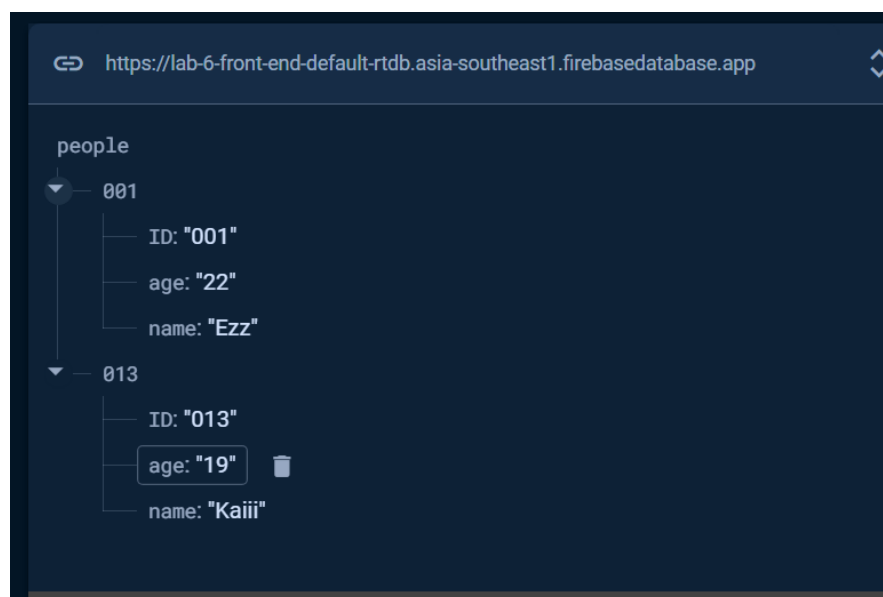
### Simple Input

Enter ID

Enter Name

Enter Age

This page says  
Data added successfully!  
OK



## Task 3

### Task3 (Login).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>
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGs03+Hhvx8T/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="Task3 (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: "AIzaSyDZqnnGIrRXTevVMM3D2bSU5MJ64KR2Ie4",
    authDomain: "lab-6-front-end.firebaseio.com",
    databaseURL: "https://lab-6-front-end-default-rtdb.asia-
southeast1.firebaseio.com",
    projectId: "lab-6-front-end",
    storageBucket: "lab-6-front-end.appspot.com",
    messagingSenderId: "883955338045",
    appId: "1:883955338045:web:3637e95a0686311d2d5354",
    measurementId: "G-2S6710DMFE"
  };

  // 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 = "Task3 (Landing).html";
        } else {
            localStorage.setItem('user', JSON.stringify(user));
            window.location = "Task3 (Landing).html";
        }
    }

    // Assign the event
    submit.addEventListener('click', authenticateUser);
</script>
</body>
</html>

```

### Task 3(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>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGs03+Hhvx8T/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: "AIzaSyDZqnnGIrRXTevVMM3D2bSU5MJ64KR2Ie4",
        authDomain: "lab-6-front-end.firebaseio.com",
        databaseURL: "https://lab-6-front-end-default-rtdb.asia-
southeast1.firebaseio.com",
        projectId: "lab-6-front-end",
        storageBucket: "lab-6-front-end.appspot.com",
        messagingSenderId: "883955338045",
        appId: "1:883955338045:web:3637e95a0686311d2d5354",
        measurementId: "G-2S6710DMFE"
    };

    // 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 = "Task3 (Login).html";
        })
        .catch((error) => {
            alert("Error: " + error.message);
        });
    });
</script>

</body>
</html>

```

### Task3 (Landing).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>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGs03+Hh xv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
    <style>
        body {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            width: 100vw;
            margin: 0px;
        }
        .container {
            text-align: center;
        }
    </style>

```

```

    </style>
</head>
<body>
    <div class="container">
        <h3>User Information</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: "AIzaSyDZqnnGIrRXTevVMM3D2bSU5MJ64KR2Ie4",
            authDomain: "lab-6-front-end.firebaseio.com",
            databaseURL: "https://lab-6-front-end-default-rtdb.asia-
southeast1.firebaseio.com",
            projectId: "lab-6-front-end",
            storageBucket: "lab-6-front-end.appspot.com",
            messagingSenderId: "883955338045",
            appId: "1:883955338045:web:3637e95a0686311d2d5354",
            measurementId: "G-2S6710DMFE"
        };

        // 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>

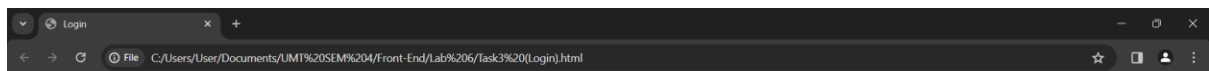
```

```

        `;
    } 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>

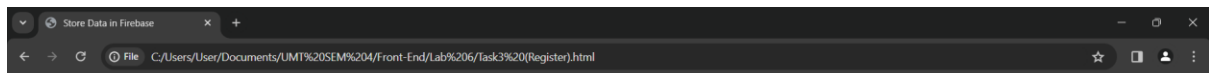
```



## Login


☐ Keep me Logged In

[Want To Create A New Account?](#)

## Store Data in Firebase

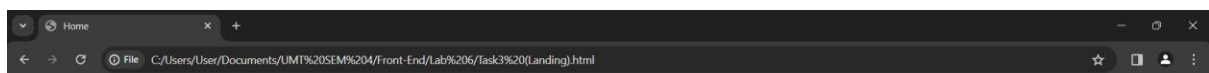
Name:

Address:

Phone Number:

New username:

New password:



## HERE YOUR PROFILE !

**Name:** Ezz

**Address:** 48,jalan wira jaya,Taman desa indah,31350 ipoh ,perak

**Phone Number:** 011-2564573

