



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/OpSinon/CSM3103_Lab6_S67614

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, initial-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: "AlzaSyBjGwXf-TD11YM5JqJ3_uEeBVPI4DWd15s",
    authDomain: "lab-6-task-2.firebaseio.com",
    databaseURL: "https://lab-6-task-2-default-rtdb.asia-
southeast1.firebaseio.com",
    projectId: "lab-6-task-2",
    storageBucket: "lab-6-task-2.appspot.com",
    messagingSenderId: "682378858269",
    appId: "1:682378858269:web:3f3c1a596afc14220ddb4",
    measurementId: "G-6WMTHKD52Z"
  };
</script>

</body>
</html>
```

Task 2

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: "AIzaSyBjGwXf-TD11YM5JqJ3_uEeBVPI4DWd15s",
      authDomain: "lab-6-task-2.firebaseio.com",
      databaseURL: "https://s67614-lab6-default-rtdb.asia-southeast1.firebaseio.com",
      projectId: "lab-6-task-2",
      storageBucket: "lab-6-task-2.appspot.com",
      messagingSenderId: "682378858269",
      appId: "1:682378858269:web:3f3c1a596afc14220ddb4",
      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");

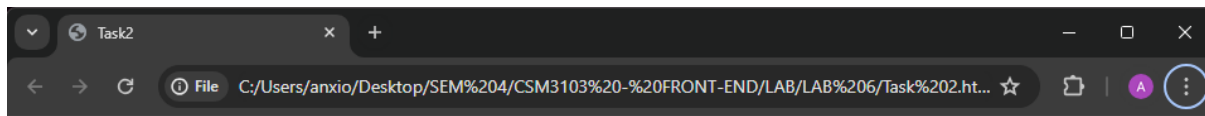
var btnInsert = document.querySelector("#btnInsert");

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 :

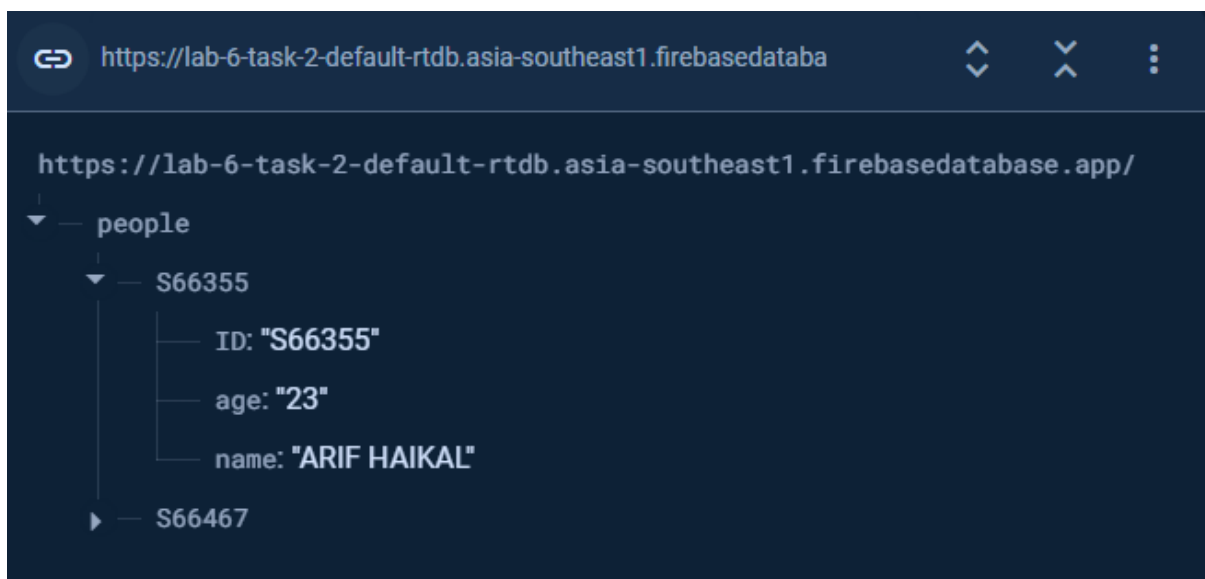


Simple Input

Enter ID

Enter Name

Enter Age



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>
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.4.1/dist/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGsO3+Hh xv8T/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: "AlzaSyBjGwXf-TD11YM5JqJ3_uEeBVPI4DWd15s",
    authDomain: "lab-6-task-2.firebaseio.com",
    databaseURL: "https://s67614-lab6-default-rtdb.asia-southeast1.firebaseio.com",
    projectId: "lab-6-task-2",
    storageBucket: "lab-6-task-2.appspot.com",
    messagingSenderId: "682378858269",
    appId: "1:682378858269:web:3f3c1a596afc14220ddb4",
    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

```
<!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-
Vko08x4CGsO3+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.firebaseio.com",
      databaseURL: "https://s67614-lab6-default-rtdb.asia-
southeast1.firebaseio.com",
```



```

    projectId: "lab-6-task-2",
    storageBucket: "lab-6-task-2.appspot.com",
    messagingSenderId: "682378858269",
    appId: "1:682378858269:web:3f3c1a596afc14220ddb4",
    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

```
<!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+Hhvx8T/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: "AlzaSyBjGwXf-TD11YM5JqJ3_uEeBVPI4DWd15s",
      authDomain: "lab-6-task-2.firebaseio.com",
      databaseURL: "https://s67614-lab6-default-rtdb.asia-
southeast1.firebaseio.com",
      projectId: "lab-6-task-2",
      storageBucket: "lab-6-task-2.appspot.com",
      messagingSenderId: "682378858269",
      appId: "1:682378858269:web:3f3c1a596afc14220ddb4",
      measurementId: "G-6WMTHKD52Z"
    };

    // Initialize Firebase
    const app = initializeApp(firebaseConfig);
```

```

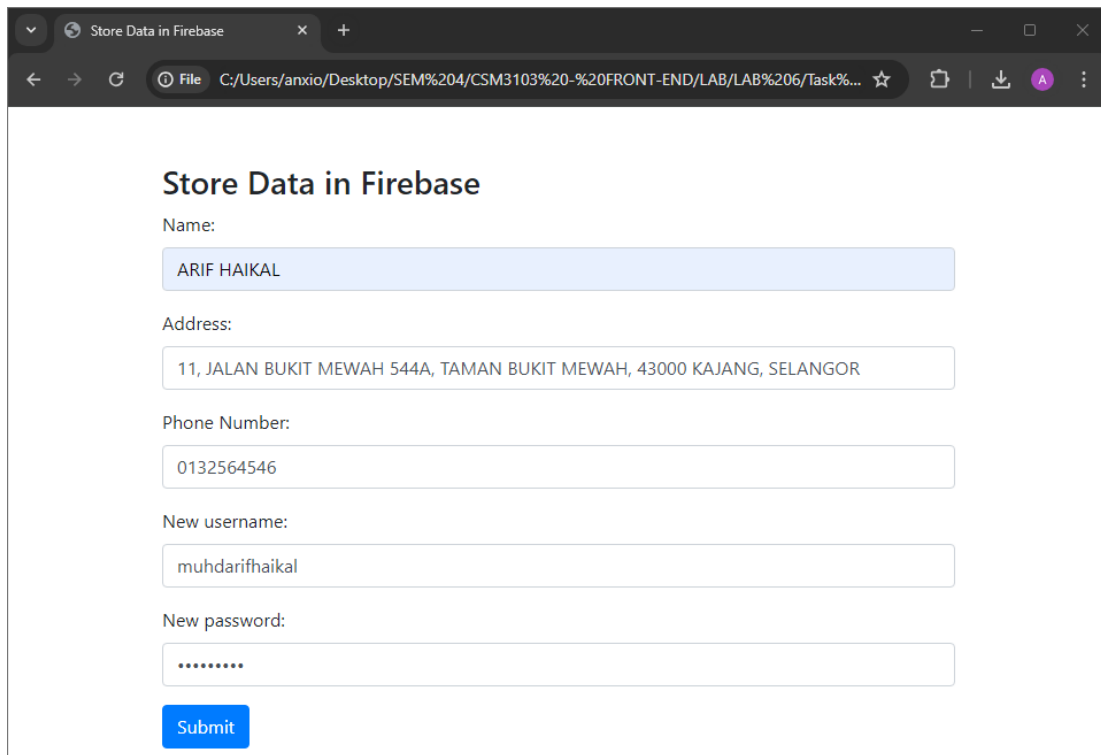
const db = getDatabase(app);

// 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 :



The screenshot shows a web browser window with the title 'Store Data in Firebase'. The address bar shows a file path: 'C:/Users/anxio/Desktop/SEM%204/CSM3103%20-%20FRONT-END/LAB/LAB%206/Task%...'. The form contains the following fields and values:

- Name: ARIF HAIKAL
- Address: 11, JALAN BUKIT MEWAH 544A, TAMAN BUKIT MEWAH, 43000 KAJANG, SELANGOR
- Phone Number: 0132564546
- New username: muhdarifhaikal
- New password: (masked with dots)

A blue 'Submit' button is located at the bottom of the form.

