**8. Program**

**Firebase Storage**

**1.Aim:**

The aim of this code is to create a web page that allows users to Upload and Download to a Firebase Srorage and read from that database.

**2.Problem Description:**

**Uploading Files**: When the "Upload" button is clicked, the code should select a file from the user's local system and upload it to Firebase Storage under the name "globe." This functionality is not working.

**Downloading Files**: When the "Download" button is clicked, the code should retrieve the file named "globe" from Firebase Storage and display it on the web page. The issue here might be related to either the file not being found or an error during the download process.

1. **Necessary File codes :**

**Storage.html:**

   <!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>FireBase</title>

    <script src="https://www.gstatic.com/firebasejs/10.4.0/firebase-app-compat.js"></script>

<script src="https://www.gstatic.com/firebasejs/10.4.0/firebase-storage-compat.js"></script>

</head>

<body>

  <input type="file" id="file" name="file" multiple><br><br>

  <input type="submit" id="upload">

  <input type="submit" id="download" value="Download"><br><br>

  <div id="status"></div><br><br>

  <img src="" id="image" width="200px">

  <script src="storage.js"></script>

</body>

</html>

**Storage.js:**

(function() {

    const firebaseConfig = {

        apiKey: "AIzaSyBQHaWG4j5L6KXy4yzZSyxXsQMTBfoUwzM",

        authDomain: "courseo-63e86.firebaseapp.com",

        databaseURL: "https://courseo-63e86-default-rtdb.firebaseio.com",

        projectId: "courseo-63e86",

        storageBucket: "courseo-63e86.appspot.com",

        messagingSenderId: "68131194454",

        appId: "1:68131194454:web:bfd1bd01a26ebdd4f09df7"

      };

    //Initialize Firebase

    firebase.initializeApp(firebaseConfig);

    //create a root refernce

    var storage = firebase.storage()

    var storageRef = storage.ref()

    // get UI elements

    const file = document.getElementById('file');

    const upload = document.getElementById('upload');

    const download = document.getElementById('download');

    const status = document.getElementById('status');

    const image = document.getElementById('image');

    // upload file

    upload.addEventListener('click', e =>{

        var ref= storageRef.child('globe');

        let photo = document.getElementById("file").files[0];

        //upload

        ref.put(photo).then(function(snapshot){

            console.log('uploaded a blob or file');

            status.innerHTML = 'upload a blob or file!'

        })

    })

    // download file

    download.addEventListener('click',e =>{

        var ref =storage.ref('globe');

        ref.getDownloadURL().then(function(url){

            image.src = url;

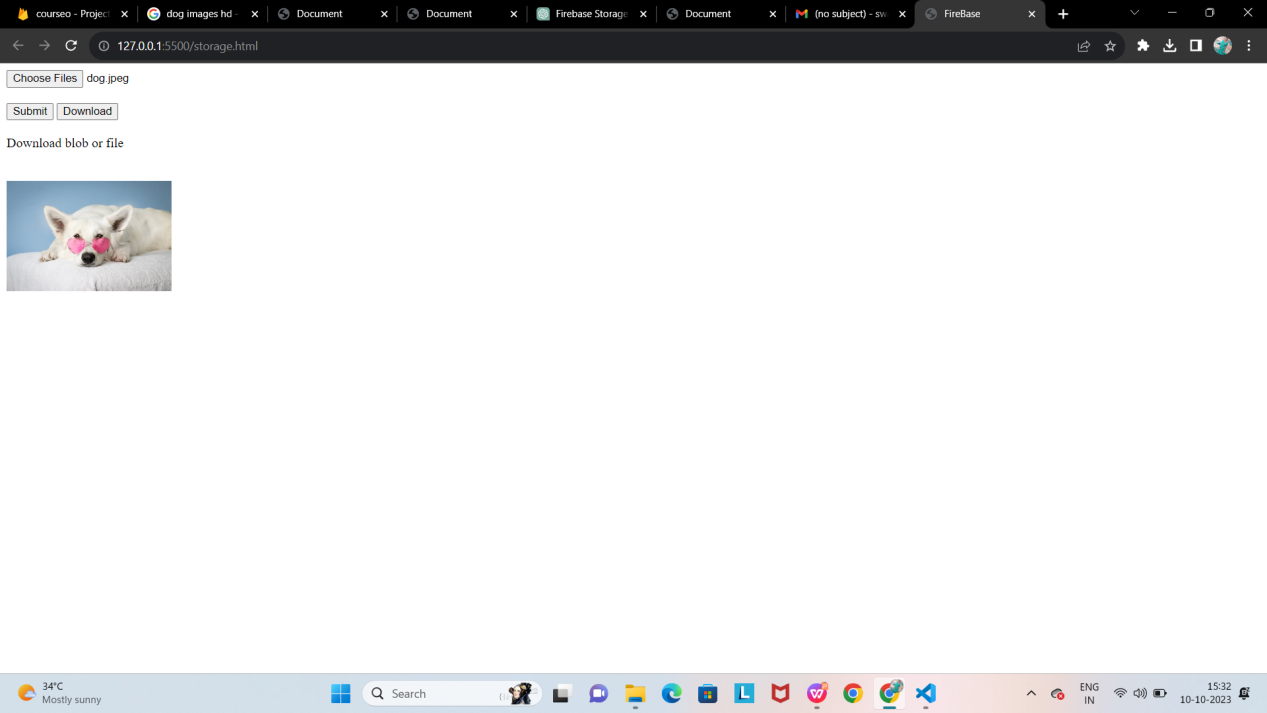
            status.innerHTML = 'Download blob or file'

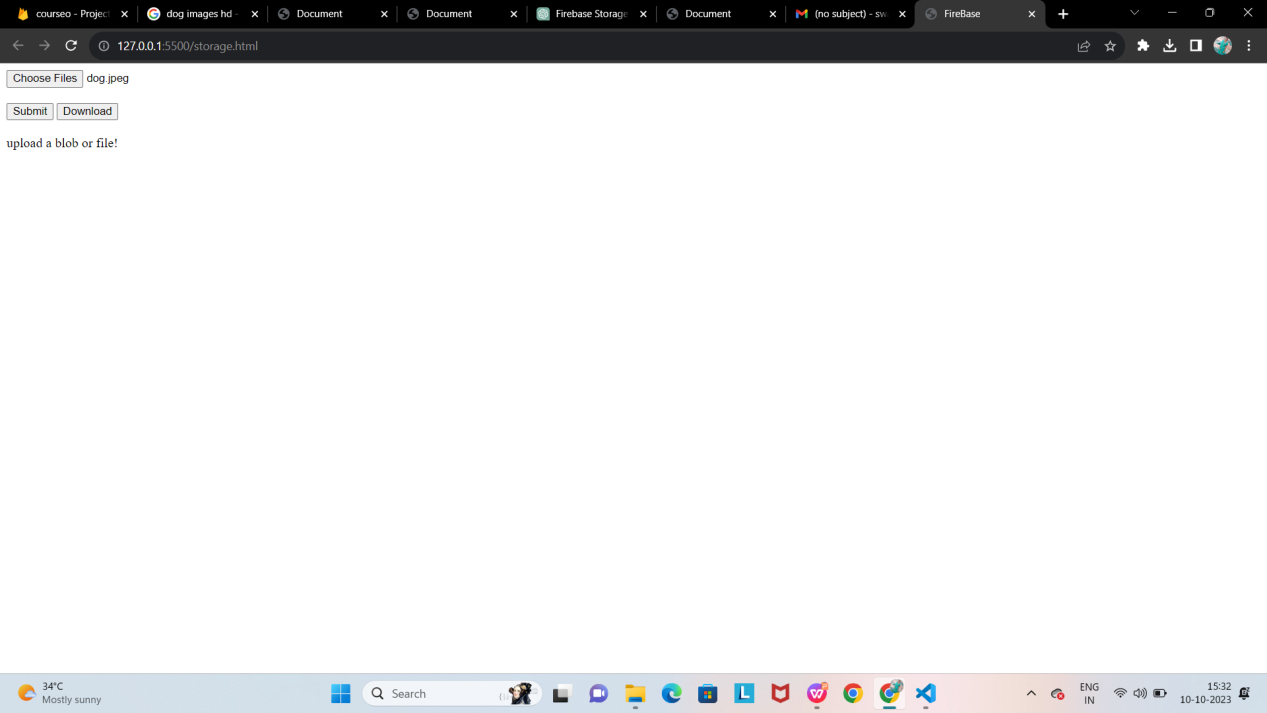
        }).catch(function(error){console.log(error)})

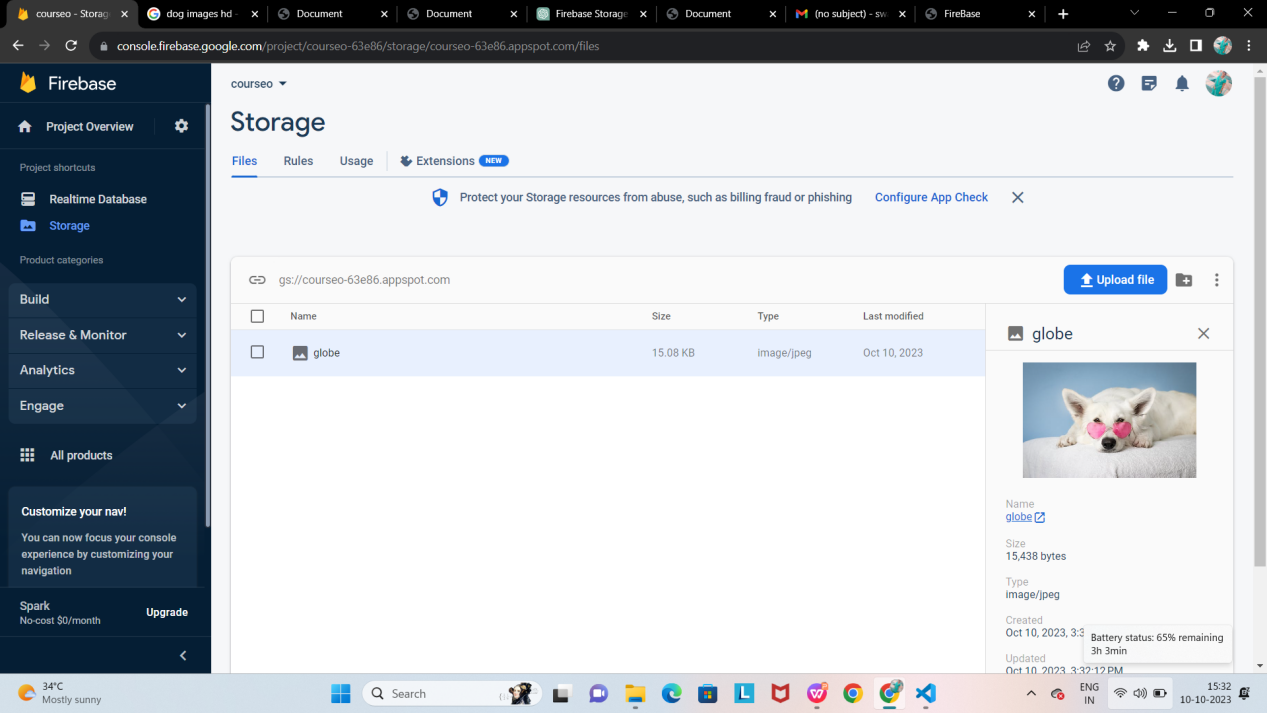
    })

}());

1. **Outputs:**







**5.Conclusion:**

This code provides a simple way to upload and download files from Firebase Storage. Users can select files for upload, and with a click of a button, those files can be stored in the cloud. Similarly, the code allows users to retrieve and display files from Firebase Storage. This functionality can be integrated into web applications where file storage and retrieval are necessary.