# **Restro- resto-café food order system**

This guide provides a complete, end-to-end process for setting up both the backend services on Firebase and the frontend files on your computer.

**Part 1: Backend Setup (Firebase)**

This section covers creating your project and all the necessary cloud services.

**Step 1: Create a Firebase Project**

1. Go to the [Firebase Console](https://console.firebase.google.com/).
2. Click on **"Add project"**.
3. Give your project a name (e.g., "MyRestaurant").
4. Follow the on-screen steps to create the project. You can disable Google Analytics to make it faster.

**Step 2: Set Up Firestore Database**

1. From your project's dashboard, go to **Build > Firestore Database** in the left sidebar.
2. Click **"Create database"**.
3. Select **"Start in test mode"** for now.
4. Choose a location and click **"Enable"**.

**Step 3: Set Up Firebase Authentication**

1. In the left sidebar, go to **Build > Authentication**.
2. Click **"Get started"**.
3. Select **"Email/Password"** from the list of sign-in providers.
4. **Enable** it and click **"Save"**.

**Step 4: Configure Firestore Security Rules**

1. Go back to **Build > Firestore Database**.
2. Click the **"Rules"** tab at the top.
3. Delete all the existing text and replace it with the following complete set of rules. This is crucial for security and for the app to work correctly.
4. rules\_version = '2';
5. service cloud.firestore {
6. match /databases/{database}/documents {
7. function getUserRole(userId) {
8. return get(/databases/$(database)/documents/users/$(userId)).data.role;
9. }
10. match /menuItems/{itemId} {
11. allow read: if true;
12. allow write: if getUserRole(request.auth.uid) == 'admin';
13. }
14. match /users/{userId} {
15. allow read, write: if request.auth.uid == userId;
16. }
17. match /orders/{orderId} {
18. allow create: if request.auth != null;
19. allow read: if getUserRole(request.auth.uid) in ['admin', 'waiter']
20. || request.auth.uid == resource.data.userId;
21. allow update, delete: if getUserRole(request.auth.uid) in ['admin', 'waiter'];
22. }
23. }
24. }
25. Click the **"Publish"** button.

**Step 5: Get Your Firebase Configuration Keys**

1. In the top-left, click the gear icon ⚙️ next to "Project Overview" and select **"Project settings"**.
2. In the "Your apps" section, click the web icon </>.
3. Give your app a nickname (e.g., "Restaurant Web App") and click **"Register app"**.
4. Firebase will show you your configuration keys. It will be an object called firebaseConfig. **Keep this tab open**; you will need to copy this object in Part 2.

**Part 2: Frontend Setup (VS Code)**

This section covers creating the files on your computer.

**Step 6: Create Your Main Project Folder**

1. On your computer, create a new folder named RestaurantProject.
2. Open this folder in Visual Studio Code (File > Open Folder...).

**Step 7: Create the Project Files** Inside your RestaurantProject folder, create these eight empty files:

* login.html
* customer.html
* waiter.html
* admin.html
* auth.js
* customer.js
* waiter.js
* admin.js

**Step 8: Copy and Paste the Code**

1. Go to the document I sent you titled **"Complete Project Code for VS Code"**.
2. For each file name listed above, copy the code from that document and paste it into the corresponding empty file in VS Code.
3. Save each file (Ctrl+S or Cmd+S).

**Step 9: Add Your Firebase Configuration**

1. This is the final step. In VS Code, open the four JavaScript files: auth.js, customer.js, waiter.js, and admin.js.
2. At the top of each file, replace the placeholder firebaseConfig object with the one you copied from your Firebase project settings in **Step 5**.

Your project is now fully set up and ready to run!