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Firebase Fundamentals

Follow this guide to use the Firebase JavaScript SDK in your web app or as a client for end-user access, for example, in a Node.js desktop or IoT application.

Step 1: Create a Firebase project and register your app

Before you can add Firebase to your JavaScript app, you need to create a Firebase project and register your app with that project. When you register your app with Firebase, you'll get a Firebase configuration object that you'll use to connect your app with your Firebase project resources.

★ **Note:** Upgrading from the version 8 Firebase SDK? Check out our upgrade guide.

Visit Understand Firebase Projects to learn more about Firebase projects and best practices for adding apps to projects.

⊕ **Create a Firebase project**

⊕ **Register your app**

If you don't already have a JavaScript project and just want to try out a Firebase product, you can download one of our quickstart samples.

Step 2: Install the SDK and initialize Firebase

This page describes setup instructions for version 9 of the Firebase JS SDK, which uses a JavaScript Module format.

This workflow uses npm and requires module bundlers or JavaScript framework tooling because the v9 SDK is optimized to work with module bundlers to eliminate unused code (tree-shaking) and decrease SDK size.

★ **Note:** Using the v9 SDK is strongly recommended, especially for production apps. If you need support for other SDK management options, like `window.firebase`, see Upgrade from version 8 to the modular Web SDK or Alternative ways to add Firebase.

1. Install Firebase using npm:

```
$ npm install firebase
```

2. Initialize Firebase in your app and create a Firebase App object:

```
import { initializeApp } from 'firebase/app';

// TODO: Replace the following with your app's Firebase project configuration
const firebaseConfig = {
  //...
};

const app = initializeApp(firebaseConfig);
```

A Firebase App is a container-like object that stores common configuration and shares authentication across Firebase services. After you initialize a Firebase App object in your code, you can add and start using Firebase services.

★ Do you use ESM and want to use browser modules? Replace all your `import` lines to use the following pattern:
`import { } from 'https://www.gstatic.com/firebasejs/9.19.1/firebase-SERVICE.js'`
(where *SERVICE* is an SDK name such as `firebase-firestore`).

Using browser modules is a quick way to get started, but we recommend using a module bundler for production.

Step 3: Access Firebase in your app

Firebase services (like Cloud Firestore, Authentication, Realtime Database, Remote Config, and more) are available to import within individual sub-packages.

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The example below shows how you could use the Cloud Firestore Lite SDK to retrieve a list of data.

```
import { initializeApp } from 'firebase/app';
import { getFirestore, collection, getDocs } from 'firebase/firestore/lite';
// Follow this pattern to import other Firebase services
// import { } from 'firebase/<service>';

// TODO: Replace the following with your app's Firebase project configuration
const firebaseConfig = {
  //...
};

const app = initializeApp(firebaseConfig);
const db = getFirestore(app);

// Get a list of cities from your database
async function getCities(db) {
  const citiesCol = collection(db, 'cities');
  const citySnapshot = await getDocs(citiesCol);
  const cityList = citySnapshot.docs.map(doc => doc.data());
  return cityList;
}
```

Step 4: Use a module bundler (webpack/Rollup) for size reduction

★ **Note:** You can skip this step if you are using a JavaScript framework CLI tool like the Angular CLI, Next.js, Vue CLI, or Create React App. Check out our guide on module bundling for more information.

The Firebase Web SDK is designed to work with module bundlers to remove any unused code (tree-shaking). We strongly recommend using this approach for production apps. Tools such as the Angular CLI, Next.js, Vue CLI, or Create React App automatically handle module bundling for libraries installed through npm and imported into your codebase.

See our guide Using module bundlers with Firebase for more information.

Available Firebase services for web

Now that you're setup to use Firebase, you can start adding and using any of the following available Firebase services in your web app.

The following commands show how to import Firebase libraries installed locally with `npm`. For alternative import options, see the available libraries documentation.

Analytics for Web
`import { } from 'firebase/analytics';`

Authentication for Web
`import { } from 'firebase/auth';`

Cloud Firestore for Web
`import { } from 'firebase/firestore';`

Cloud Functions for Web
`import { } from 'firebase/functions';`

Cloud Messaging for Web
`import { } from 'firebase/messaging';`

Cloud Storage for Web
`import { } from 'firebase/storage';`

Performance Monitoring for Web
`import { } from 'firebase/performance';`

Realtime Database for Web
`import { } from 'firebase/database';`

Remote Config for Web
`import { } from 'firebase/remote-config';`

App Check for Web
`import { } from 'firebase/app-check';`

Next steps

Learn about Firebase:

- Explore sample Firebase apps.
- Get hands-on experience with the Firebase Web Codelab.
- Explore the open source code in GitHub.
- Review the supported environments for the Firebase JavaScript SDK.
- Speed up your development with additional Firebase-maintained open source libraries, like AngularFire, RxFire, and FirebaseUI for web.
- Prepare to launch your app:
  - Set up budget alerts for your project in the Google Cloud Console.
  - Monitor the *Usage and billing dashboard* in the Firebase console to get an overall picture of your project's usage across multiple Firebase services.
  - Review the Firebase launch checklist

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Review the Firebase launch checklist.

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