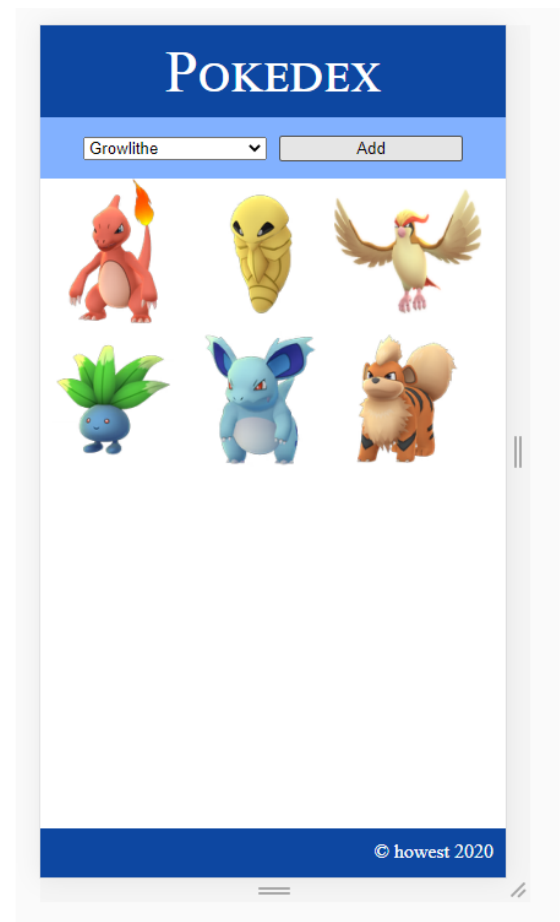
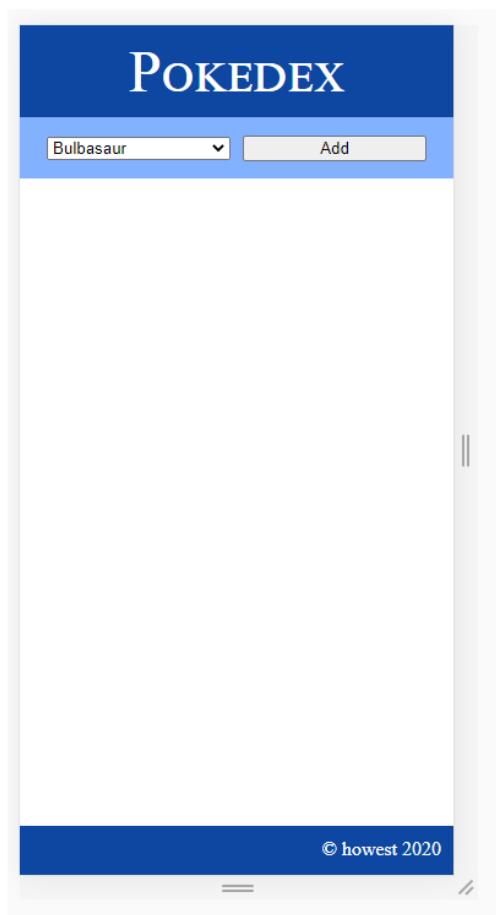


Build your first progressive web app

Step 1: Create the website

For this exercise we will create a pokedex. This should be a fairly simple responsive website consisting of one page. The user has the option to select a pokemon, and can add that pokemon to their pokedex. All added pokemons are displayed with their image.

To help you, you can find a json file containing the names of all the pokemon, some extra information and all the necessary images in the data folder. You can assume the name of the image is in the format "`xyz.png`" where `xyz` is the 3-digit number of the pokemon.



Step 2: Deploy your website to google firebase

To deploy your app, you can use the Google Firebase platform, accesible through <https://firebase.google.com>. Login, or if you do not have access to Google Firebase yet, make sure to register for a free account (the so-called Spark Plan).

Create a new project in the console, e.g. "Progressive Web Apps". You do not need Google Analytics.

Use the Firebase CLI to deploy your app. You only need the Firebase Hosting feature. Be sure to check these links for help on how to do this.

- <https://firebase.google.com/docs/cli>

- <https://firebase.google.com/docs/hosting>

If everything went as it should, you should be able to access your webapp on the internet.

Step 3: Create the manifest file and add a service worker

Go to <https://app-manifest.firebaseapp.com/> to help create your manifest, necessary icons can be found in the icons folder. Also add a basic service worker that shows an error message when the data can't be loaded (when there is for instance no network connectivity).

Step 4: Try installing the app on your smartphone

Surf to your firebase site on your mobile device (or an emulator) and see if you can install the app.