



# **PWA SERVICE WORKER APIS**

# COMMUNICATION WITH THE APP

- `Client.postMessage()`
  - Allows a service worker to send a message to its client PWA.
- **Broadcast Channel API**
  - Allows a service worker and its client PWA to establish a basic two-way communication channel.

# OFFLINE OPERATION

- **Cache**
  - A persistent storage mechanism for HTTP responses used to store assets that can be reused when the app is offline.
- **Clients**
  - An interface used to provide access to the documents that are controlled by the service worker.
- **FetchEvent**
  - An event, dispatched in the service worker with every HTTP request made by the client PWA.
  - Can be used to either send the request to the server as normal and save the response for future use.
  - Can intercept the request and immediately respond with a response cached previously.

# BACKGROUND OPERATION

- **Background Synchronization API**
  - A way to defer tasks to run in a service worker once there is a stable network connection.
- **Web Periodic Background Synchronization API**
  - A way to register tasks to be run in a service worker at periodic intervals with network connectivity.
- **Background Fetch API**
  - A method for a service worker to manage downloads that may take a significant amount of time, such as video or audio files.

# OTHER WEB APIS

- IndexedDB
  - A client-side storage API for significant amounts of structured data, including files.
- Badging API
  - A method of setting a badge on the application icon, providing a low-distraction notification.
- Notifications API
  - A way to send notifications that are displayed at the operating system level.
- Web Share API
  - A mechanism for sharing text, links, files, and other content to other apps selected by the user on their device.
- Window Controls Overlay API
  - An API for PWAs installed on desktop operating systems that enables hiding the default window title bar, enabling displaying the app over the full surface area of the app window.