3.3 Notification Management



This section will guide you to:

* Add web push notifications in your application

This guide has mainly five subsections, namely:

3.3.1 Creating an Angular application

3.3.2 Installing PWA and **http-server**

3.3.3 Building and running the application

3.3.4 Adding push notification in the component

3.3.5 Pushing the files to your GitHub repositories

**Step 3.3.1:** Creating an Angular application

* Run the below command to create an Angular application:

**ng new angpwa**

**Step 3.3.2:** Installing PWA and **http-server**

* Navigate to the application folder and run the below command to install PWA and **http-server**:

**ng add @angular/pwa**

**npm install -g http-server@0.9.0**

**Step 3.3.3:** Building and running the application

* Run the below command to build your application to the production mode:

**ng build --prod**

* Navigate to the application folder under **dist** folder and run the below command to serve the application on **http-server:**

**cd dist/angpwa**

**http-server -o**

* Open **localhost:8080** in your browser.
* To install or download the application to your local system:
* **For Chrome:** Click on the **+** button on the right corner of the address bar.

**Step 3.3.4:** Adding push notification in the component

* Install push notifications using the below command:

**npm install ngx-push-notifications --save**

* Add the code given below in **app.module.ts:**

**import { PushNotificationService } from 'ngx-push-notifications';**

**@NgModule({**

**declarations: [...],**

**imports: [...],**

**providers: [PushNotificationService],**

**bootstrap: [...]**

**})**

**export class AppModule { }**

**...**

* Add the code given below in **app.component.ts**:

**import** { PushNotificationOptions, PushNotificationService } **from** 'ngx-push-notifications';

**...**

constructor(private \_pushNotificationService: PushNotificationService) { }

...

ngOnInit() {

  this.\_pushNotificationService.requestPermission();

}

...

myFunction() {

    const title **=** 'Hello';

    const options **=** **new** PushNotificationOptions();

    options.body **=** 'Native Push Notification';

    this.\_pushNotificationService.create(title, options).subscribe((notif) => {

**if** (notif.event.type **===** 'show') {

        console.log('onshow');

        setTimeout(() => {

          notif.notification.close();

        }, 3000);

      }

**if** (notif.event.type **===** 'click') {

        console.log('click');

        notif.notification.close();

      }

**if** (notif.event.type **===** 'close') {

        console.log('close');

      }

    },

    (err) => {

         console.log(err);

    });

}

**Step 3.3.5:** Pushing the files to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit . -m “Changes have been committed.”

Push the files to the folder you initially created using the following command:

git push -u origin master