

# Make PWA of a Django Project

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Progressive Web Apps or PWA are a type of application that is developed using web technologies and can be installed on any device like a normal application.

**Prerequisites:** A django project that is ready to be deployed. For Django tutorial you can refer the following link <a href="https://www.geeksforgeeks.org/django-tutorial/">https://www.geeksforgeeks.org/django-tutorial/</a>

The below steps have to be followed to create a progressive web application of a Django project.

STEP 1: Firstly use the following command to install django pwa

pip install django-pwa

STEP 2: In settings.py of project inside installed apps section add 'pwa' and in urls.py of project give the following path –

path(", include('pwa.urls'))

settings.py

```
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migrations
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admin.py
apps.py
models.py
tests.py
views.py

init_ep
__imit_py
aspi.py
manage.py

manage.py

ridiango.contrib.contenttypes',
diango.contrib.sessions',
diango.contrib.sessions',
diango.contrib.sesticfiles',
diango.contrib.sest
```

#### urls.py

```
| Settings.py |
```

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following code to it.

## **Javascript**

```
self.addEventListener('fetch', function(event) {
    var requestUrl = new URL(event.request.url);
    if (requestUrl.origin === location.origin) {
        if ((requestUrl.pathname === '/')) {
            event.respondWith(caches.match(''));
            return;
        }
    }
    event.respondWith(
        caches.match(event.request).then(function(response)) {
            return response || fetch(event.request);
        })
    );
});
```

STEP 4: Now in settings.py add the path to service worker as PWA\_SERVICE\_WORKER\_PATH = os.path.join(BASE\_DIR, 'static/js', 'serviceworker.js').

**STEP 5:** Now to create manifest.json file go into settings file of your Django Project and add the following details. Django will automatically builds the manifest.json for your project

## Python3

```
PWA_APP_NAME = 'geeksforgeeks'
PWA_APP_DESCRIPTION = "GeeksForGeeks PWA"
PWA_APP_THEME_COLOR = '#000000'
PWA_APP_BACKGROUND_COLOR = '#ffffff'
PWA_APP_DISPLAY = 'standalone'
```

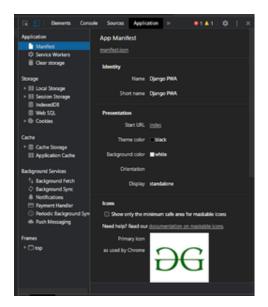
```
PWA APP SCOPE = '/'
PWA APP ORIENTATION = 'any'
PWA_APP_START_URL = '/'
PWA_APP_STATUS_BAR_COLOR = 'default'
PWA APP ICONS = [
    {
        'src': 'static/images/icon-160x160.png',
        'sizes': '160x160'
PWA APP ICONS APPLE = [
        'src': 'static/images/icon-160x160.png',
        'sizes': '160x160'
PWA APP SPLASH SCREEN = [
        'src': 'static/images/icon.png',
        'media': '(device-width: 320px) and (device-height: 568px) and (-webkit-de
PWA APP DIR = 'ltr'
PWA APP LANG = 'en-US'
```

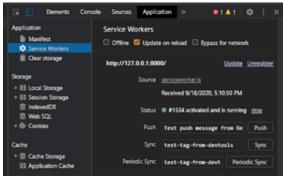
**STEP 6:** Add {% load pwa %} and {% progressive\_web\_app\_meta %} in index or first page of the project.



STEP 7: Right click on browser and choose inspect element option. In the application section you will see that manifest file and service worker file are

present there.





**STEP 8:** Our PWA is ready to be installed now. You will see the install icon in the address tab.



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