# **⚙️ Appwrite SDK Generator**

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WORK IN PROGRESS - NOT READY FOR GENERAL USAGE

[Appwrite](https://appwrite.io/) SDK generator is a PHP library for auto generating SDK libraries for multiple languages and platforms.

The SDK Generator uses predefined language settings as [Twig templates](https://twig.symfony.com/) to generate codebases based on different API specs.

Currently, the only spec supported is Swagger 2.0, but we intend to add support for more specifications in the near future. This generator is still lacking support for any definition/models specs.

## **Getting Started**

Install using composer:

CLI

composer update --ignore-platform-reqs --optimize-autoloader

Docker (UNIX)

docker run --rm --interactive --tty --volume "$(pwd)":/app composer install --ignore-platform-reqs

Docker (Windows)

docker run --rm --interactive --tty --volume "%cd%":/app composer install --ignore-platform-reqs

Create language and SDK instances and generate code to target directory.

<?php

require\_once 'vendor/autoload.php';

use Appwrite\Spec\Swagger2;

use Appwrite\SDK\SDK;

use Appwrite\SDK\Language\PHP;

// Read API specification file (Swagger 2) and create spec instance

$spec = new Swagger2(file\_get\_contents('https://appwrite.io/v1/open-api-2.json?extension=1'));

// Create language instance

$lang = new PHP();

$lang // Set language or platform specific options

 ->setComposerPackage('my-api')

 ->setComposerVendor('my-company')

;

// Create the SDK object with the language and spec instances

$sdk = new SDK($lang, $spec);

$sdk

 ->setLogo('https://appwrite.io/v1/images/console.png')

 ->setLicenseContent('License content here.')

 ->setVersion('v1.1.0')

;

$sdk->generate(\_\_DIR\_\_ . '/examples/php'); // Generate source code

## **Supported Specs**

* [Swagger 2](https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md)
* [OpenAPI 3](https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.2.md) (Not Ready)
* [RAML 1.0](https://raml.org/) (Not Ready)
* [RAML 0.8](https://raml.org/) (Not Ready)
* [Postman 2.0](https://schema.getpostman.com/json/collection/v2.0.0/docs/index.html) (Not Ready)
* [Postman 1.0](https://schema.getpostman.com/json/collection/v1.0.0/docs/index.html) (Not Ready)
* [API Blueprint 1A](https://github.com/apiaryio/api-blueprint/blob/master/API%20Blueprint%20Specification.md) (Not Ready)

## **Supported Client / Platform SDKs**

| **Language** | **Supported Versions** | **Coding Standards** | **Package Manager** | **Maintainer** |
| --- | --- | --- | --- | --- |
| Web | ES5+ | [NPM Coding Style](https://docs.npmjs.com/misc/coding-style) | NPM, Yarn, | [@eldadfux](https://github.com/eldadfux) |
| Flutter |  | [Effective Dart](https://dart.dev/guides/language/effective-dart/style) | pub tool | [@bartektartanus](https://github.com/bartektartanus) [@Almoullim](https://github.com/Almoullim) [@lohanidamodar](https://github.com/lohanidamodar) |
| Android (Kotlin, Java) | 5.0+ | [Android style guide](https://developer.android.com/kotlin/style-guide) | Gradle, Maven | [@abnegate](https://github.com/abnegate) |
| iOS, macOS (Swift) | iOS 15+, macOS 11+ | [Swift Style Guide](https://google.github.io/swift/) | Swift Pkg Manager | [@abnegate](https://github.com/abnegate) |
| Unity (Csharp) |  |  | ? | [You?](https://github.com/appwrite/sdk-generator/issues/20) |

## **Supported Server SDKs**

| **Language** | **Supported Versions** | **Coding Standards** | **Package Manager** | **Contributors** |
| --- | --- | --- | --- | --- |
| TypeScript |  | [NPM Coding Style](https://docs.npmjs.com/misc/coding-style) | NPM, Yarn | [@eldadfux](https://github.com/eldadfux) |
| NodeJS | 8, 10, 12 | [NPM Coding Style](https://docs.npmjs.com/misc/coding-style) | NPM, Yarn | [@eldadfux](https://github.com/eldadfux) |
| PHP | 7.0+ | [PHP FIG](https://www.php-fig.org/) | Composer | [@eldadfux](https://github.com/eldadfux) |
| Ruby | 2.4+ | [Ruby Style Guide](https://github.com/rubocop-hq/ruby-style-guide) | GEM | [@eldadfux](https://github.com/eldadfux) [@abnegate](https://github.com/abnegate) |
| Python | 3.5+ | [PEP8](https://www.python.org/dev/peps/pep-0008/) | PIP | [@eldadfux](https://github.com/eldadfux) [@abnegate](https://github.com/abnegate) |
| Dart | 2.7+ | [Effective Dart](https://dart.dev/guides/language/effective-dart/style) | pub | [@lohanidamodar](https://github.com/lohanidamodar) |
| Go |  | [Effective Go](https://golang.org/doc/effective_go.html) | go get | [@panz3r](https://github.com/panz3r) [@phaus] |
| .NET | .NET core 3.1 | [C# Coding Conventions](https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/inside-a-program/coding-conventions) | NuGet | [@komemi](https://github.com/komemi) [@TorstenDittmann](https://github.com/TorstenDittmann) |
| D |  |  | ? | [You?](https://github.com/appwrite/sdk-generator/issues/20) |
| Kotlin | 1.4.31+ | [Kotlin style guide](https://kotlinlang.org/docs/coding-conventions.html#apply-the-style-guide) | Gradle, Maven | [@abnegate](https://github.com/abnegate) |
| Java | 8+ | [Google style guide](https://google.github.io/styleguide/javaguide.html) | Gradle, Maven | [@abnegate](https://github.com/abnegate) |
| Swift | 5.5+ | [Swift Style Guide](https://google.github.io/swift/) | Swift Pkg Manager | [@abnegate](https://github.com/abnegate) |
| Docker CLI |  |  | Docker Hub | [@christyjacob4](https://github.com/christyjacob4) |

## **Contributing**

All code contributions - including those of people having commit access - must go through a pull request and approved by a core developer before being merged. This is to ensure proper review of all the code.

We truly ❤️ pull requests! If you wish to help, you can learn more about how you can contribute to this project in the [contribution guide](https://github.com/appwrite/sdk-generator/blob/master/CONTRIBUTING.md).

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