



PHP AND MONGODB

A Simple Guide

PRESENTED BY : HAJAR ZOUINI

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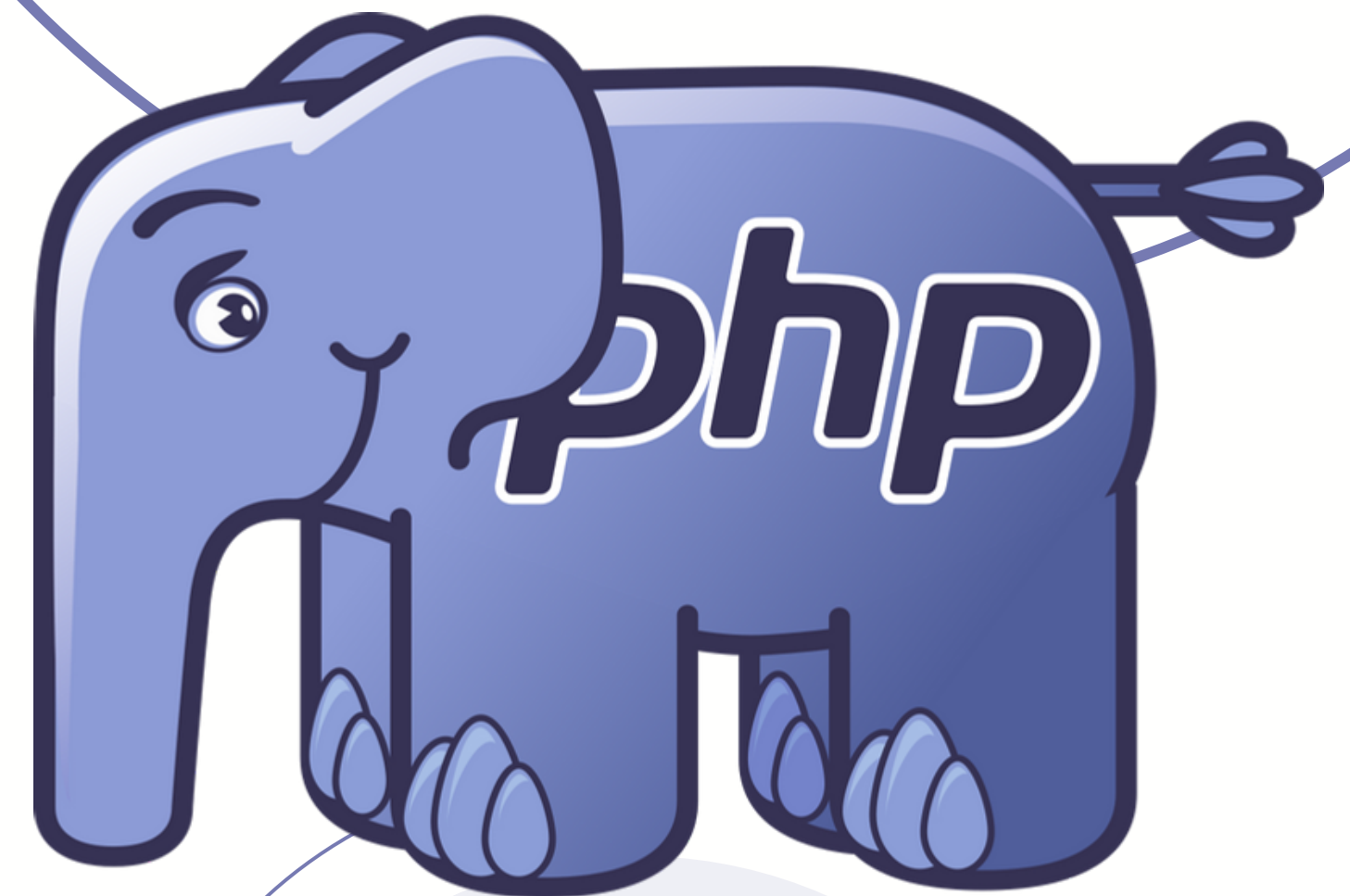
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What is php ?

PHP is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. Because PHP is primarily a web language — that is to say that it's built to work with a web server — we will need to have a web server installed locally to run and test PHP scripts on our computer.





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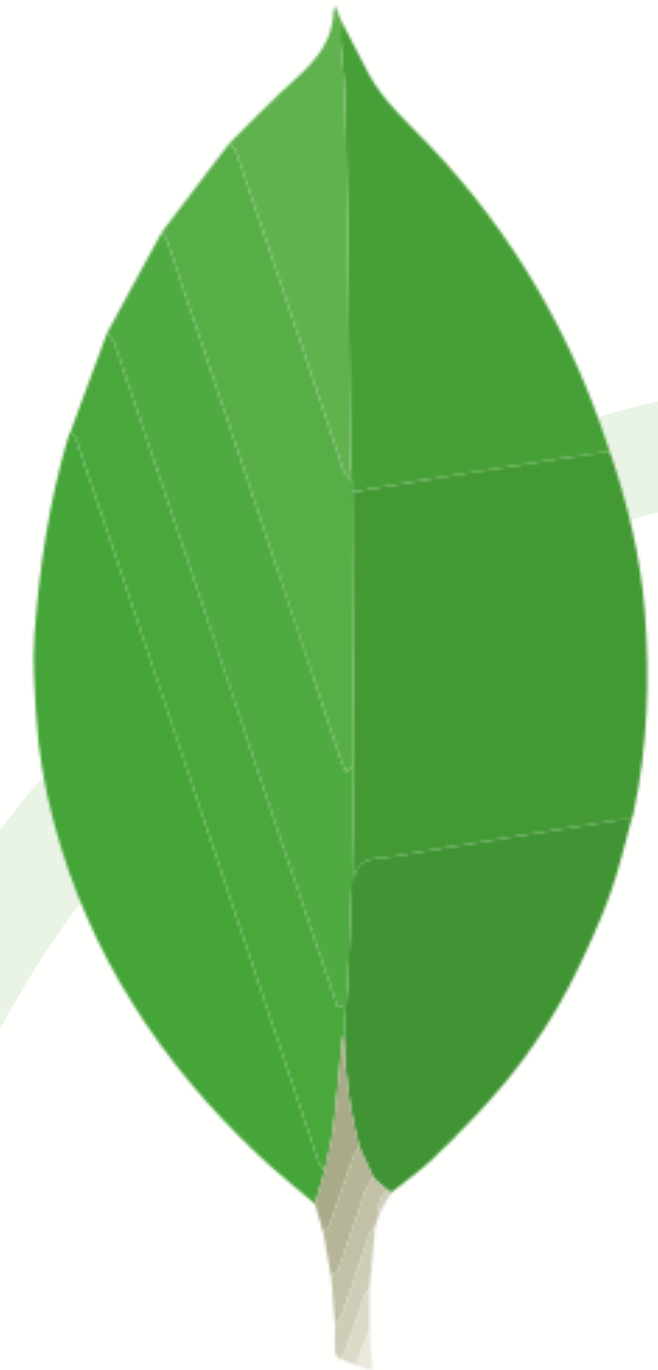
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What is MongoDB ?

MongoDB is a NoSQL database management system that stores data in flexible, JSON-like documents, using a format called BSON (Binary JSON). It is designed to provide high performance, scalability, and flexibility.



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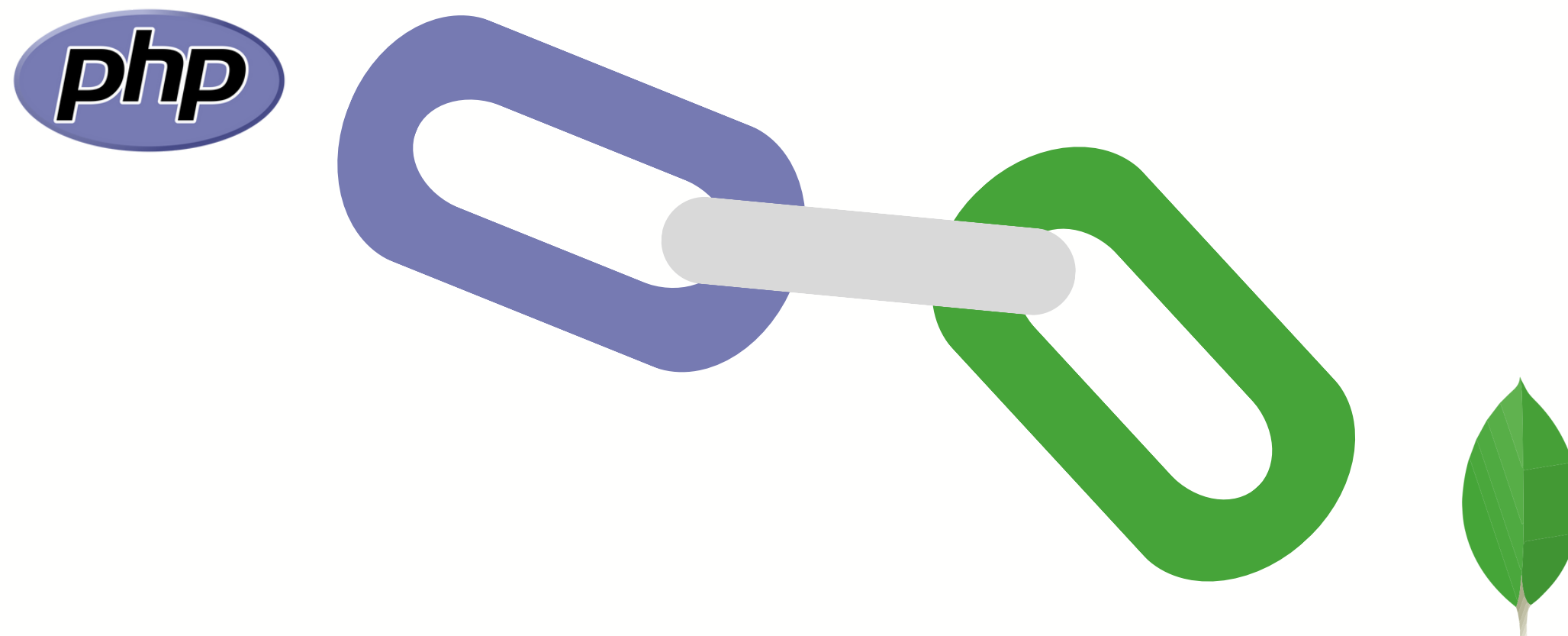
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PHP MongoDB Extension

The PHP MongoDB extension is a driver that enables PHP applications to interact with MongoDB databases. It serves as a bridge between PHP and MongoDB, allowing developers to perform CRUD operations in MongoDB from their PHP scripts.



Installing the Extension

The installation process varies depending on your operating system. Windows users should follow the following steps :

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1 - Download :

Start by downloading the precompiled binaries of the PHP MongoDB extension from its [GitHub releases page](#).

2 - Extract :

After downloading the appropriate archive for your PHP version, extract the **php_mongodb.dll** file to PHP's extension directory

3 - Update :

Open your php.ini file and add the following line to enable the MongoDB extension:
extension=php_mongodb.dll

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Installing the Extension

Linux, Unix, and macOS users can either install the extension with PECL (recommended) or manually compile from source. The following command may be used to install the extension with PECL :



```
> pecl install mongodb
```

Once the extension is installed, add this line to your php.ini file: **extension=mongodb.so**



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MongoDB PHP Library

The MongoDB PHP Library offers a comprehensive API, building upon the basic mongodb extension, which has a limited API for connecting to the database and executing commands. The library introduces high-level abstractions for client, database, and collection objects, enhancing functionality with various helper methods for contextual operations.

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Installing the Library

To install the MongoDB PHP Library, you have two options: using Composer or manual installation. Composer, a popular dependency manager for PHP, simplifies the process by handling dependencies automatically. Alternatively, manual installation is also possible, though it won't be covered in this presentation.

Using Composer :

Download and run **Composer-Setup.exe**. It will install the latest Composer version and set up your PATH so that you can call composer from any directory in your command line.



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Installing the Library

Then run the following command from your project root :



```
> composer require mongodb/mongodb
```



```
> vendor  
{ } composer.json  
{ } composer.lock
```

Now that the MongoDB PHP Library is successfully installed, we are ready to use its powerful features for seamless interaction with MongoDB databases in our PHP projects.

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Overview of the Library

Within the MongoDB PHP Library documentation, you'll come across many classes designed to facilitate your interaction with MongoDB. In this presentation we'll only focus on the most essential ones.



MongoDB\Client

Used to connect to a MongoDB server and acts as a gateway for accessing individual databases and collections.



MongoDB\Database

Provides methods for common operations on a database, such as executing database commands and managing collections.



MongoDB\Collection

Provides methods for common operations on collections and documents, including CRUD operations and index management

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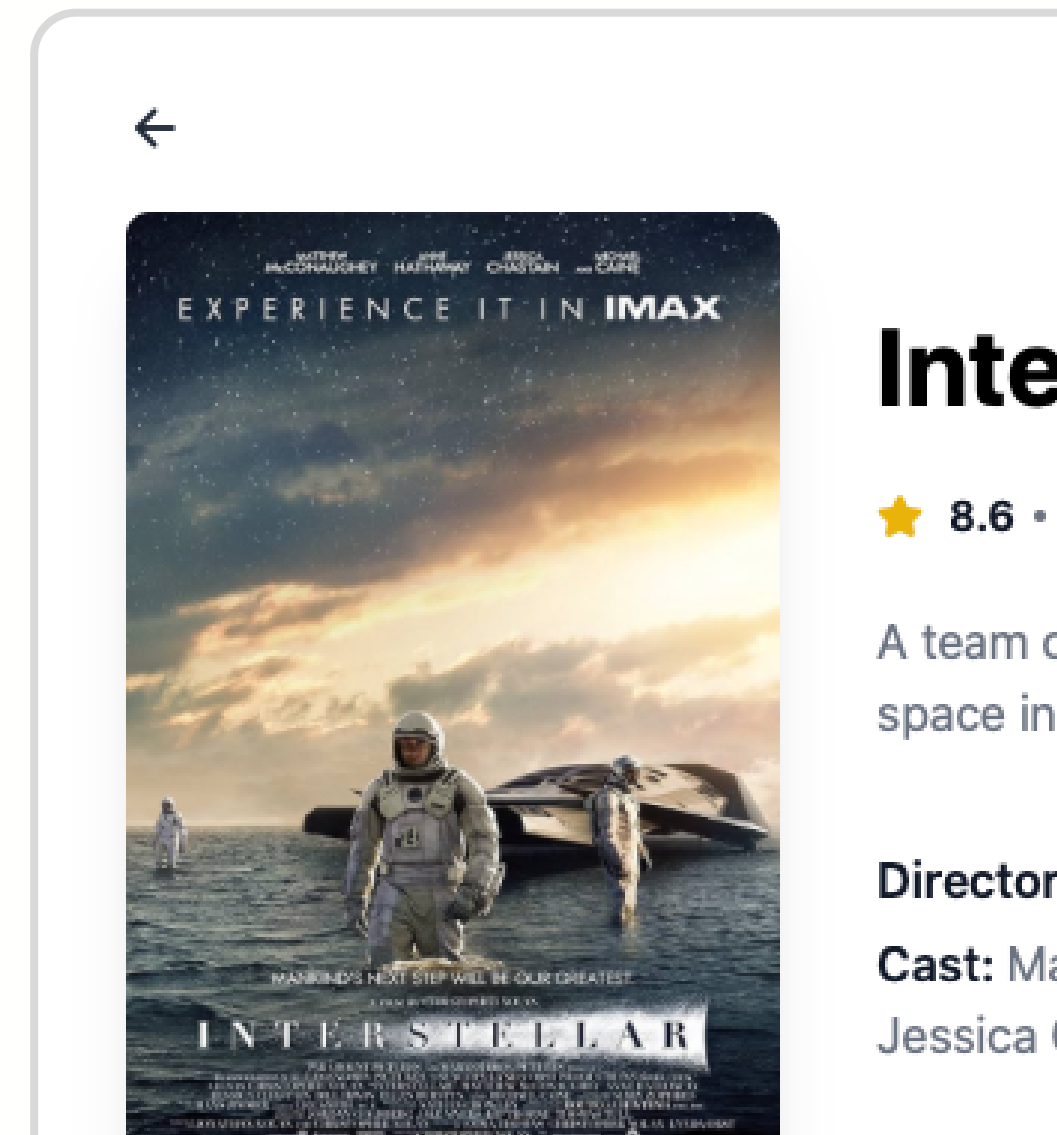
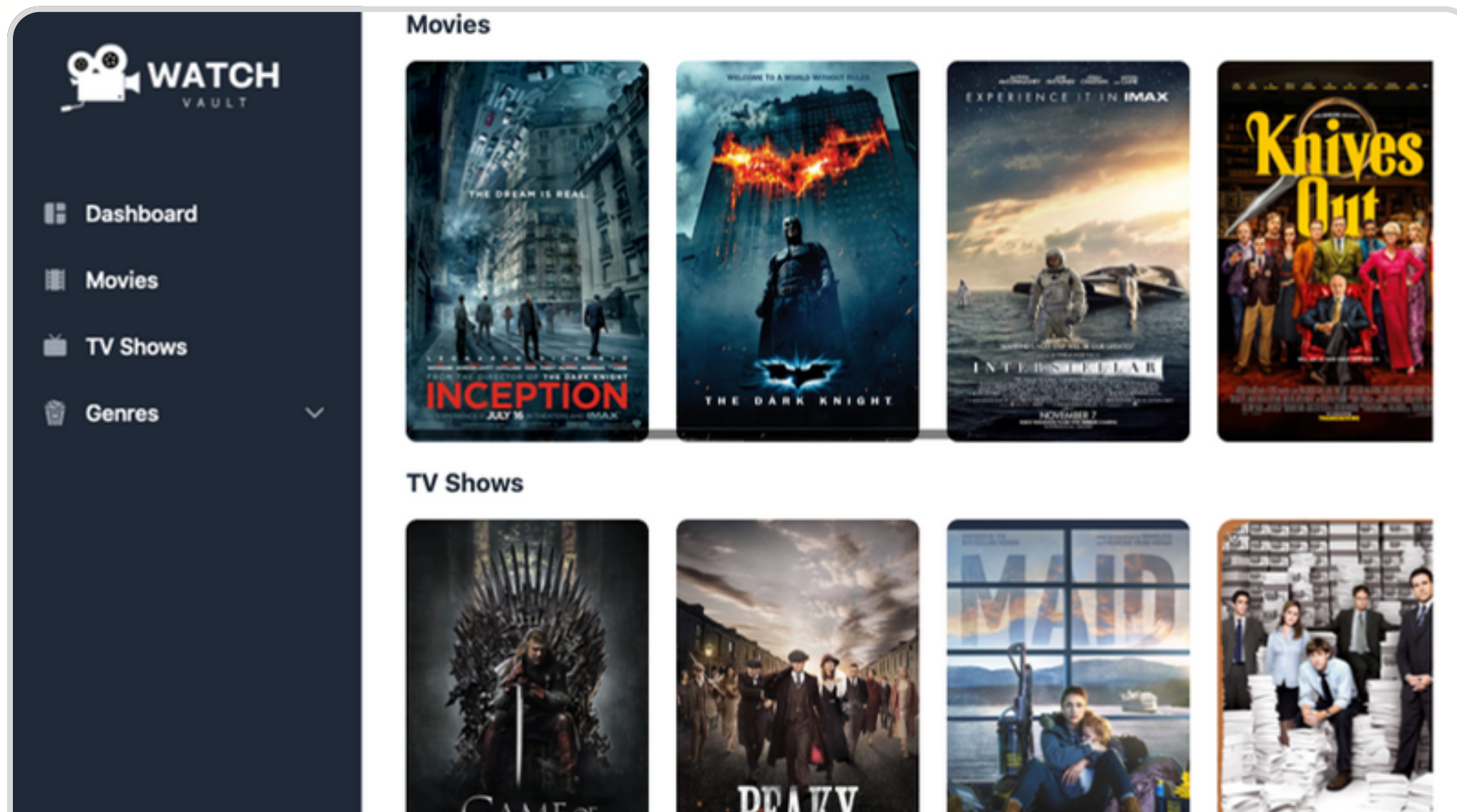
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WatchVault

A movie tracker web app that demonstrates CRUD operations using the MongoDB PHP Library. Easily add, update, or delete movies and TV shows from your watchlist. Simplify your entertainment management with this user-friendly application.



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Any questions ?

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Thank you !