

I created a simple interface to get most popular PHP repositories from GitHub API.

I used the following languages and frameworks to create this interface:  
PHP, MySQL, Javascript, JQuery, AJAX, Bootstrap and DataTables and XAMPP.

I followed the steps shown below to create an interface using MacBook Pro laptop (macOS Mojave version 10.14.5).

To replicate the creation of the application, first you need to clone the repository from my GitHub account at <https://github.com/deepika537/GithubRepos> .

The following steps are recommended.

1. Install XAMPP webserver.
2. Create **Repositories** folder in Applications/XAMPP/xamppfiles/htdocs
3. Upload all PHP files and resources folder to Repositories folder on XAMPP.  
Following is the explanation of all the PHP files
  - a. Db.php => It establishes the connection with the database using connection string variables.
  - b. Index.php => It has references to all JavaScript and CSS libraries that are required to create the interface. It also calls all other PHP pages to get the Repository details from the GitHub API, insert repository details into the database, and fetch details from the database and display on the index page.
  - c. Insertrepos.php => It calls GitHub API insert details into the database.
  - d. GitHub API call: I used this following link to call GitHub API.  
**<https://api.github.com/search/repositories?q=topic:PHP+language:PHP>**
  - e. Fetch.php => It fetches Repository details from Database and creates the DataTables.
  - f. Details.php => It fetches the remaining hidden repository details from the database and displays on the interface when the user clicks on small '+' green color icon.
4. Resources folder has images used in this project
5. Create the database in MySQL (<http://localhost/phpmyadmin>)
  - a. Database name: repositories;
6. Create table in the database
  - a. Tablename: repos
7. Create 10 columns, including ID, repositoryID, repoName, repoURL, createdDate, lastpushDate, Description, Starts, Language, and Forks.
8. If you want to skip the steps 6 and 7 shown above, you just need to upload repos.sql file (from my GitHub account) to MySQL Database.
9. Please note that ID is the primary key of the table.

10. Structure of the Table is shown in the following screenshot:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID	int(100)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	repositoryID	int(100)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
3	repoName	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial Fulltext More
4	repoURL	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial Fulltext More
5	createdAt	date			No	None		Change Drop Primary Unique Index Spatial Fulltext More
6	lastpushDate	date			No	None		Change Drop Primary Unique Index Spatial Fulltext More
7	Description	varchar(1000)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial Fulltext More
8	Stars	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
9	Language	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial Fulltext More
10	Forks	int(100)			No	None		Change Drop Primary Unique Index Spatial Fulltext More

11. The following screenshot shows that the repositories from the API are successfully uploaded into the database

	ID	repositoryID	repoName	repoURL	createdAt	lastpushDate	Description	Stars	Language	Forks
Edit Copy Delete	1	1863329	laravel	https://github.com/laravel/laravel	2011-06-08	2020-07-25	A PHP framework for web artisans	60419	PHP	18967
Edit Copy Delete	2	458058	symfony	https://github.com/symfony/symfony	2010-01-04	2020-07-26	The Symfony PHP framework	23669	PHP	7729
Edit Copy Delete	3	1864363	composer	https://github.com/composer/composer	2011-06-08	2020-07-25	Dependency Manager for PHP	23499	PHP	5866
Edit Copy Delete	4	7548986	framework	https://github.com/laravel/framework	2013-01-10	2020-07-26		21640	PHP	7447
Edit Copy Delete	5	1420053	guzzle	https://github.com/guzzle/guzzle	2011-02-28	2020-07-24	Guzzle, an extensible PHP HTTP client	19651	PHP	2104
Edit Copy Delete	6	2246815	DesignPatternsPHP	https://github.com/dominikl/DesignPatternsPHP	2011-08-22	2020-07-12	sample code for several design patterns in	18905	PHP	4070

The functionality of the application is shown below:

1. Open <http://localhost/Repositories/> in the browser

- Click “Add Repositories” to load repositories into the interface as shown below

The screenshot shows a web browser window with the address bar displaying 'localhost/Repositories/'. The page title is 'Github PHP Repositories Details'. A green button labeled 'Add Repositories' is circled in red. Below it are buttons for 'Copy', 'CSV', 'Excel', 'PDF', and 'Print'. A search bar is located on the right. The main content is a table with columns: Details, ID, Name, URL, CreatedDate, and PublishedDate. The table lists 10 repositories, including laravel, symfony, composer, framework, guzzle, DesignPatternsPHP, CodeIgniter, phpunit, PHPMailer, and yii2. At the bottom, it says 'Showing 1 to 10 of 588 entries' and a pagination bar with 'Previous', '1', '2', '3', '4', '5', '...', '59', and 'Next'.

Details	ID	Name	URL	CreatedDate	PublishedDate
+	1863329	laravel	https://github.com/laravel/laravel	2011-06-08	2020-07-25
+	458058	symfony	https://github.com/symfony/symfony	2010-01-04	2020-07-26
+	1864363	composer	https://github.com/composer/composer	2011-06-08	2020-07-25
+	7548986	framework	https://github.com/laravel/framework	2013-01-10	2020-07-26
+	1420053	guzzle	https://github.com/guzzle/guzzle	2011-02-28	2020-07-24
+	2246815	DesignPatternsPHP	https://github.com/donnikl/DesignPatternsPHP	2011-08-22	2020-07-12
+	2234102	CodeIgniter	https://github.com/bcit-ci/CodeIgniter	2011-08-19	2020-07-09
+	448045	phpunit	https://github.com/sebastianbergmann/phpunit	2009-12-24	2020-07-24
+	2253830	PHPMailer	https://github.com/PHPMailer/PHPMailer	2011-08-23	2020-07-20
+	3431193	yii2	https://github.com/yiisoft/yii2	2012-02-13	2020-07-22

- While uploading the repository details into the database a loading “Please Wait” gif will be displayed as shown below and will be hidden if we click on “OK” alert window as shown in the next screenshot.

The screenshot shows the same interface as the previous one, but with a large circular loading gif centered over the table. The text 'Please Wait ... Uploading Content to Database' is visible within the gif. The rest of the interface, including the 'Add Repositories' button, search bar, and pagination, remains the same.

localhost/Repositories/

localhost says  
Data has been Uploaded:  
OK

Add Repositories

Copy CSV Excel PDF Print

Search:

Details	ID	Name	URL	CreatedDate	PublishedDate
+	1863329	laravel	https://github.com/laravel/laravel	2011-06-08	2020-07-25
+	458058	symfony	https://github.com/symfony/symfony	2010-01-04	2020-07-26
+	1864363	composer	https://github.com/composer/composer	2011-06-08	2020-07-25
+	7548986	framework	https://github.com/laravel/framework	2013-01-10	2020-07-26
+	1420053	guzzle	https://github.com/guzzle/guzzle	2011-02-28	2020-07-24
+	2246815	DesignPatternsPHP	https://github.com/dominikl/DesignPatternsPHP	2011-08-22	2020-07-12
+	2234102	CodeIgniter	https://github.com/bcit-ci/CodeIgniter	2011-08-19	2020-07-09
+	448045	phpunit	https://github.com/sebastianbergmann/phpunit	2009-12-24	2020-07-24
+	2253830	PHPMailer	https://github.com/PHPMailer/PHPMailer	2011-08-23	2020-07-20
+	3431193	yii2	https://github.com/yiisoft/yii2	2012-02-13	2020-07-22

Showing 1 to 10 of 588 entries

Previous 1 2 3 4 5 ... 59 Next

- Click on small green “+” icon in the first column (as shown in the screenshot below) to view the remaining details of the repository.

#### Github PHP Repositories Details

Add Repositories

Copy CSV Excel PDF Print

Search:

Details	ID	Name	URL	CreatedDate	PublishedDate
-	1863329	laravel	https://github.com/laravel/laravel	2011-06-08	2020-07-25
Description: A PHP framework for web artisans Stars: 60419 Language: PHP Forks: 18967					
-	458058	symfony	https://github.com/symfony/symfony	2010-01-04	2020-07-26
Description: The Symfony PHP framework Stars: 23669 Language: PHP Forks: 7729					
+	1864363	composer	https://github.com/composer/composer	2011-06-08	2020-07-25
+	7548986	framework	https://github.com/laravel/framework	2013-01-10	2020-07-26
+	1420053	guzzle	https://github.com/guzzle/guzzle	2011-02-28	2020-07-24
+	2246815	DesignPatternsPHP	https://github.com/dominikl/DesignPatternsPHP	2011-08-22	2020-07-12
+	2234102	CodeIgniter	https://github.com/bcit-ci/CodeIgniter	2011-08-19	2020-07-09

- Click on export buttons “CSV, Excel, PDF” as highlighted in the following screenshot in order to export the data in different formats.

## Github PHP Repositories Details

[Add Repositories](#)
[Copy](#)
[CSV](#)
[Excel](#)
[PDF](#)
[Print](#)

Search:

Details	ID	Name	URL	CreatedDate	PublishedDate
<a href="#">+</a>	1863329	laravel	https://github.com/laravel/laravel	2011-06-08	2020-07-25
<a href="#">+</a>	458058	symfony	https://github.com/symfony/symfony	2010-01-04	2020-07-26
<a href="#">+</a>	1864363	composer	https://github.com/composer/composer	2011-06-08	2020-07-25
<a href="#">+</a>	7548986	framework	https://github.com/laravel/framework	2013-01-10	2020-07-26
<a href="#">+</a>	1420053	guzzle	https://github.com/guzzle/guzzle	2011-02-28	2020-07-24
<a href="#">+</a>	2246815	DesignPatternsPHP	https://github.com/dominikl/DesignPatternsPHP	2011-08-22	2020-07-12
<a href="#">+</a>	2234102	CodeIgniter	https://github.com/bcit-ci/CodeIgniter	2011-08-19	2020-07-09
<a href="#">+</a>	448045	nhunit	https://github.com/sebastianhermann/nhunit	2009-12-24	2020-07-24

- Enter any word in the search bar (on top right corner of the screenshot) to filter repositories in the table

## Github PHP Repositories Details

[Add Repositories](#)
[Copy](#)
[CSV](#)
[Excel](#)
[PDF](#)
[Print](#)

Search:

Details	ID	Name	URL	CreatedDate	PublishedDate
<a href="#">+</a>	17162016	command	https://github.com/guzzle/command	2014-02-25	2016-11-24

Showing 1 to 1 of 1 entries (filtered from 588 total entries)

[Previous](#)
[1](#)
[Next](#)

- Click on each column to sort table using the specific column.