



PHPRunner. The best PHP code generator in the world.

Course Notes

Version 11.1

2 September 2025

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Start working with the projects

PHPRunner provides an option either to create an application from scratch or to choose one of the application templates. Choose **Blank application** if you want to build the project from scratch. Otherwise, you can select one of the predefined templates. Templates are pre-made sample projects and they also create all the required database tables for you.

[Restore Session](#) [New project](#) [Import project](#) [Open existing](#)

Project name
 [Create](#)

Templates [Manage templates...](#)


Application Wizard


Cars


Chat


Classified


DocManager


Events


HelpDesk


Jobs

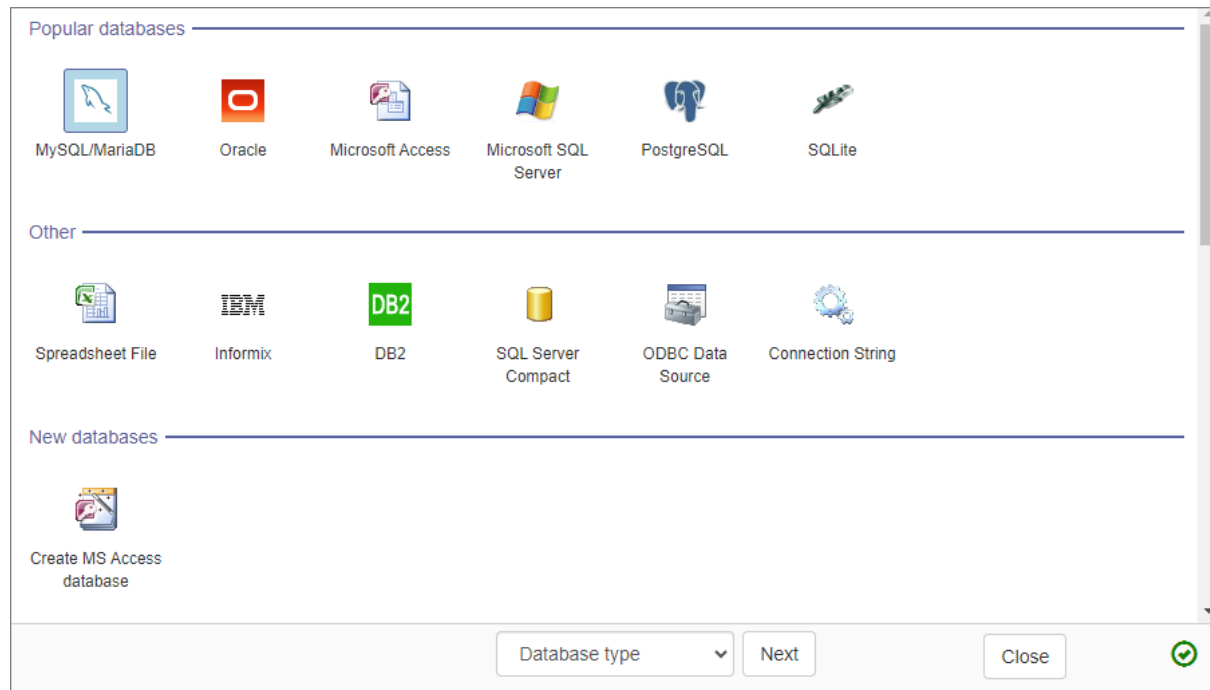

KnowledgeBase


MassMailer

[Start](#) 

Working with databases

PHPRunner supports all popular databases: MySQL, MariaDB, Microsoft SQL Server, Oracle, MS Access, DB2, PostgreSQL, and more. Select the type of the database you are going to use.



Note: If you do not have a database server or web server, see [How to install local server..](#)

Then you should provide the database connection credentials. You have an option to select an existing database or to create a new one.

Connect to MySQL/MariaDB

Host/Server name or IP address

localhost

☐ SSL connection

User

Password

Port (if not 3306)

Database

Database

New

☐ Connect using PHP

URL:

Upload phprunner.php

[How it works?](#)

Connect

Back

Connect to database ▾

Next

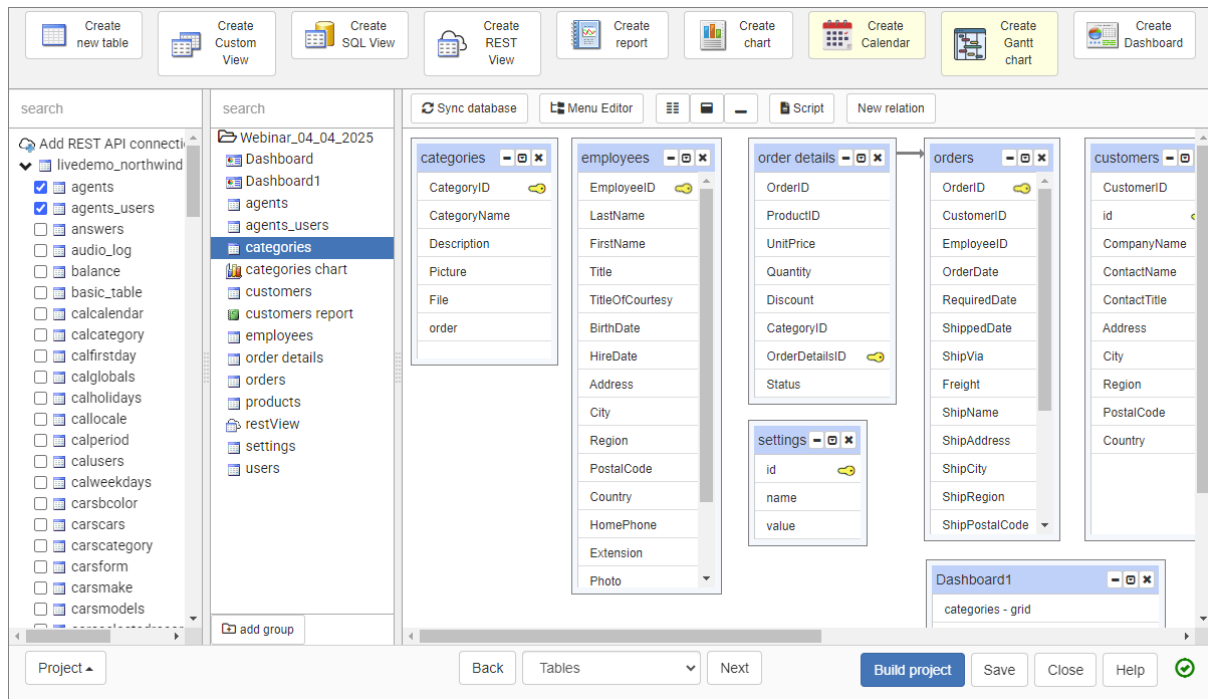
Close

If you are using MySQL, you can also [Connect to a remote MySQL database via PHP](#).

Working with Tables

In PHPRunner, you can modify the tables, fields and the database structure, as well as create new tables, queries, and relations between them.

You can also create dashboards, charts, and reports on the **Datasource tables** screen to present your project data in a user-friendly way.



Queries

This screen provides options for modifying the database and the tables using SQL queries. You can generate SQL queries via [Query Designer](#), or write the code on your own. Using the **Query Designer** can help you sort and filter your data, create aliases to the fields, and control the data output on the pages. You also can preview the [Results](#) and create [Additional Where clauses](#).

The screenshot shows the 'Query Designer' interface. On the left, a sidebar lists 'Project11' with sub-items 'agents', 'country', 'employees', and 'invoices' (selected). The main area has tabs for 'Query Designer', 'SQL query', 'Results', and 'Additional WHERE tabs'. Below the tabs are buttons for 'Reset Query', 'Add table', 'Group By', and a 'Limit data to first' input set to '0' rows. A 'Help' button is also present. The 'invoices' table is selected, and its columns are listed in a table below:

Column	Alias	Table	Output	Sort type	Sort order	Filter	Or...+
id		invoices	☒				
date		invoices	☒				
invoice_number		invoices	☒				
buyer_info		invoices	☒				
hash		invoices	☒				

At the bottom, there are buttons for 'Project', 'Back', 'Query' (with a dropdown arrow), 'Next', 'Build project' (highlighted in blue), 'Save', 'Close', 'Help', and a green checkmark icon.

Pages

On the next screen - **Pages**, you can choose what pages to build for each table. You can also set additional options, for example, show **Add/Edit/View** pages in a popup or freeze the header of the grid on the **List** page.

Pages to build

☒ List page

Settings...

Click actions...

 ☐ Spreadsheet mode

Settings...

 ☒ Edit record

Settings...

 ☐ Update selected

 ☐ Inline edit

 ☒ Add new

Settings...

☐ Inline add

Settings...

☐ Delete record

 ☒ View record

Settings...

 ☐ Copy record

 ☒ Printer friendly

Settings...

 ☒ Export page

Settings...

 ☒ Import page

Selected key columns

What are key columns?

 Id

Edit keys

Note: Make sure to select a proper key column. A key column is used to identify table rows, so, the key values must be unique for each record.

Fields

On this screen, you may choose the fields to appear on each page. Do this by selecting the respective checkboxes. You can also configure **Search and Filter** settings and set up different columns for different device types.

Choose fields to appear on each page

Field	Label	Properties	List	Search	Add	Edit	View	Print	Export	Import	Inline Add	Init
☐ id	Id	...	☒	☒	☐	☐	☒	☒	☒	☒	☐	
☐ date	Date	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ invoice_number	Invoice Number	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ buyer_info	Buyer Info	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ hash	Hash	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ subtotal	Subtotal	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ tax	Tax	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ total	Total	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ seller_info	Seller Info	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ terms	Terms	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ company_name	Company Name	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	
☐ invoice_name	Invoice Name	...	☒	☒	☒	☒	☒	☒	☒	☒	☐	

See also:

•[Choose fields screen](#)

Miscellaneous settings

Proceed to the Miscellaneous settings screen to configure the projects settings, such as application language, map settings, notifications, SMS and email settings, as well as the Table specific settings, such as number of records per page, Search and Filter settings, and add **Next/Prev** buttons on **Edit/View** pages.

Project settings

Language: English

Multiple languages

Label editor

Regional settings: English (United States)

Email settings...

SMS settings...

Output Code Page: Unicode (UTF-8)

Landing page

Map settings...

☐ Section 508 compatibility

Error reporting

Notification API

☐ Use PhpSpreadsheet library to export and import from Excel (**experimental**)

REST API

☒ Enable PDF creation

☐ Add Chinese, Japanese and Korean languages support to PDF

☐ EU cookie consent banner

Message...

Table specific settings

☐ Warn about leaving Add/Edit pages

☐ Hide data until search

☐ Display "Loading..." box on the list page

☐ Next/Prev buttons on Edit/View pages

Search and Filter settings...

Records per page selection

10,20,30,50,100,500,all

Records per page

20

Apply to all tables

Security configuration

Proceed to the Security screen to configure the user registration and authentication system, as well as to restrict access to the database. You can set up a hardcoded login/password combination, or you can store it in the Database, or even use Active Directory.

You can also regulate access to the specific tables and pages via User Group Permissions.

The screenshot displays the 'Security configuration' interface. On the left, a sidebar contains three buttons: 'None', 'Hardcoded', and 'Database' (which is selected with a checkmark). Below these is a 'More' button with a dropdown arrow. The main panel is titled 'Enable database authentication' (checked) and includes a 'settings...' button. Below this, it states 'Usernames and passwords are stored in the database table.' and provides two buttons: 'Create new table' and 'Add new user'. The configuration section includes several dropdown menus: 'Table where users are stored' (set to 'users'), 'Username field' (set to 'username'), 'Password field' (set to 'password'), 'Full name field (optional)' (set to 'Select column...'), and 'Email field (optional)' (set to 'email'). On the right side of the interface, there is a vertical stack of buttons: 'Login form appearance...', 'Two-factor authentication...', 'Registration and passwords...', 'Advanced...', 'Permissions...', 'Locking and Audit...', 'Encryption...', and 'Session control...'.

Visual appearance customization

The next step is the visual appearance customization. On the Page Designer screen you can customize and position the elements, and set the layout and grid type of the pages.

The screenshot displays the 'Page Designer' interface with the 'edit' tab selected. The main workspace contains a form titled 'Employees, Edit [{%EmployeeID}]' with a sub-section 'edit_message'. Below this is a large green area with a 'Change form' button and a list of fields: LastName, FirstName, Title, Address, Region, and Country. The top navigation bar includes buttons for list, add, edit, view, print, export, import, and a plus icon. Below the navigation bar are buttons for 'Add field', 'Remove field', 'Add Section', 'Add Tab', 'Add Step', 'Insert...', 'Undo', and 'Redo'. The right sidebar, titled 'edit page properties', contains a 'Cell properties' section with 'Merge', 'Insert', and 'Split' options, each with a corresponding icon. Below these are input fields for 'align', 'orientation', 'text color', 'background', 'border', 'padding', and 'width'.

The Style Editor screen shows the preview of the pages. You can select a theme, set the size of the elements, add custom CSS code, edit the menu, and view the page as HTML.

View code

Modify CSS

Menu Editor

Theme:

sandstone

Size:

normal

☐ This page has custom style

Sidebar theme:

legacy

Sidebar color:

light

Sidebar width:

300px

☒ Sidebar fixed

☐ Sidebar compact

Topbar theme:

legacy

☐ Topbar gradient

☐ Legacy topbar controls

☐ Topbar fixed

Logo the

legacy

Menu sty

rounde

Project11

≡ ◀ ▶ 🏠

EMPLOYEES

search

✕ 🔍 ⚙

<

header

SEARCH IN ⋮

ADD NEW

Displaying 1

Employee ID ✕

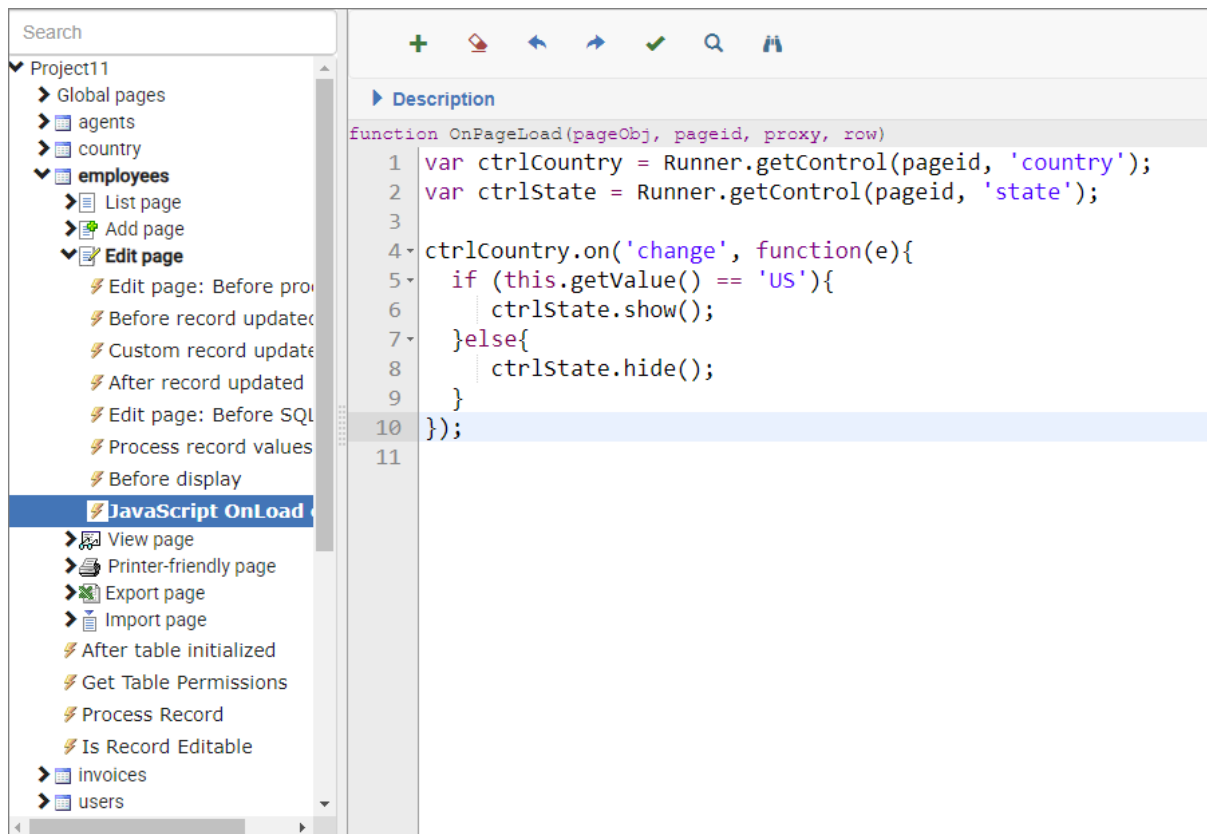
SEARCH

	☐	Employee ID	Last Name	First Name	Title	Title Of
	☐	EmployeeID	LastName	FirstName	Title	Title
	☐	EmployeeID	LastName	FirstName	Title	Title

Events

You are able to extend the functionality of your application - by adding your code to Events. Events are actions that are performed automatically when certain conditions are met, for instance: a record was added to the database, or the user opened the **List** page.

You can use sample event code snippets or write the code on your own.



Output

Proceed to the **Output** screen to select the project output directory - a place to store your project files.

You may use the built-in Apache web-server or a custom one to preview the project locally.

You can also configure the **Server database connection**.

Local preview

☒ Built-in web server ☐ I have my own web server

Output folder

C:\runnerapps\Project11 Browse...

Additional

Error reporting

Server database connections

livedemo_northwind at localhost	<Default>	New	Edit	Delete
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See also:

- [Output directory settings](#)
- [How to install local web server \(XAMPP\)](#)

Final stages

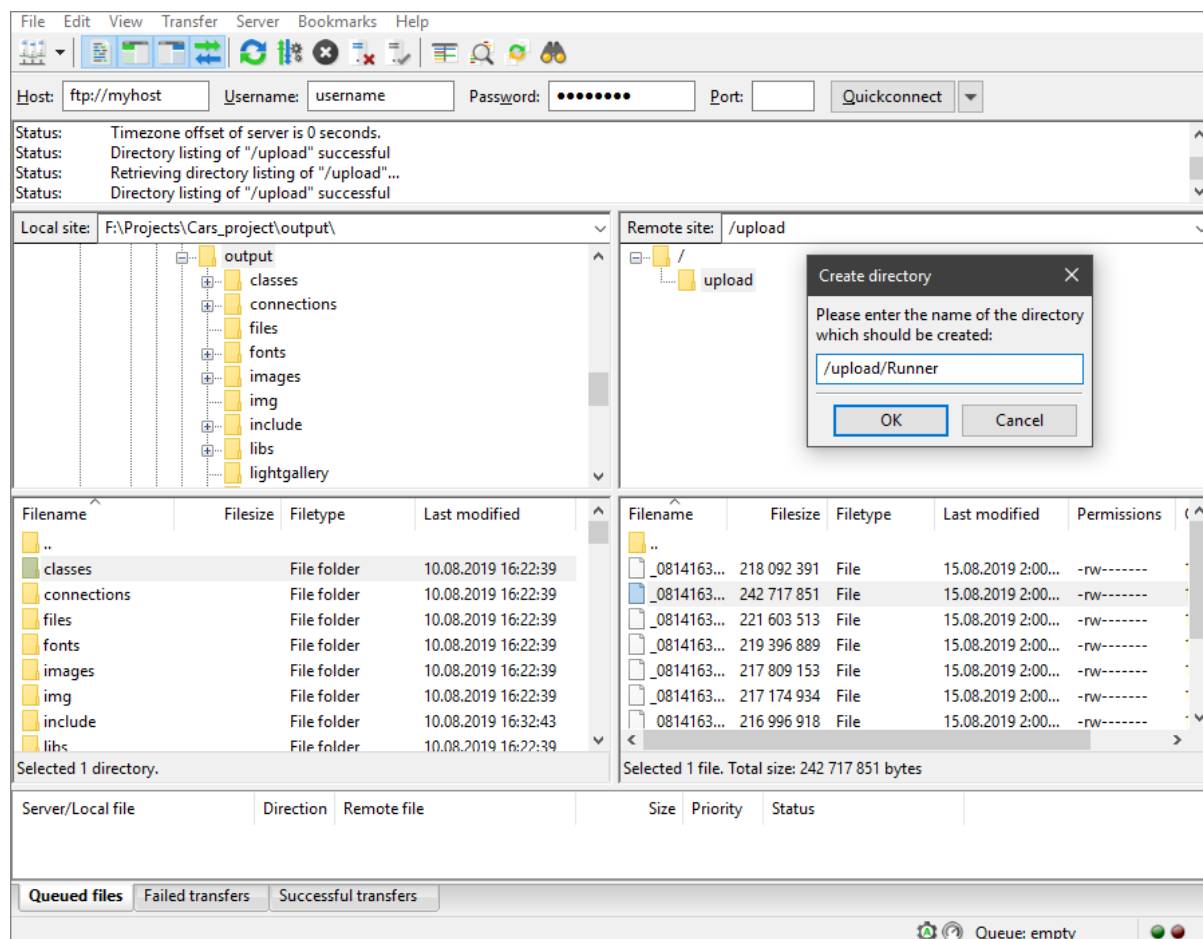
As soon as everything is completed, you are ready to build! Now you can preview the application in the browser and start testing it. Moreover, you have options to **Open output folder** of the project, or **Create SQL Script**.

PHPRunner manual Upload web application using a third-party FTP client

After you have built an application with PHPRunner, you may use any FTP client to upload it to a remote server. Here is how you can do it using **FileZilla**.

First of all, you need to connect to the remote server. Fill in the *Host*, *Username*, *Password*, *Port* fields and click the **Quickconnect** button.

Note: you can see the connection status in the panel below the **Quickconnect** button.



The left panel represents your local files/site. Open the **Output folder** of your project in the local files.

Note: to learn more about the output settings, see [Output directory settings](#).

The right panel represents the remote server file structure. Create a new folder for your project on the remote server - right-click anywhere in the bottom-right panel and select **Create new directory** and enter it.

Once you opened both folders (local and remote), select all local folders and files in the output directory, right-click on them and select **Upload**. The selected files are added to the **Queue** and uploaded to the remote server.

When the contents of the **Output folder** have been copied to the remote server, open the browser, type in the name of your website and add */ %name of the folder you made%* after it. In our example, the URL looks like this: <https://www.xlinesoft.com/upload/Runner/>.