Creating Apps Using WordPress Plugins and MySQL

This presentation is an overview of creating simple database applications in WordPress.

No programming is needed, but you should be familiar with the following concepts.

- Database: a container for tables
- Tables: data organized in rows and columns
- Plugins: configurable software tools that generate input forms, tables, and reports



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Database Tables

- Most WordPress data is stored in MySQL tables, e.g. users, links, terms, posts, options.
- Plugin configurations are stored in tables in the same database, e.g. participants_database_fields, exportsreports_reports.
- You can add your own custom tables to store data there too.



WordPress plugins used in these examples

Participants Database (PDB): A membership database app

Pods: Create a simple app with a form and a table

WP phpMyAdmin: Database administration tools

Exports and Reports: Custom reports using SQL queries

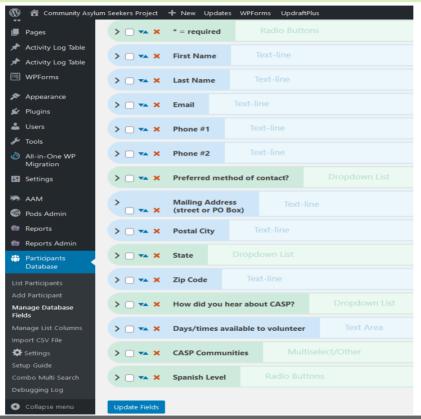
Plugin: Participants Database (PDB)

- 1. Add the form fields (creates a MySQL table)
- 2. Add the shortcode to a WordPress page (creates the form)
- 3. Users enter data into the form
- 4. List the collected input using Exports and Reports

Participants Database (PDB) Input Form

* = required		
First Name*		
Last Name*	Text boxes	
Email*		
Phone #1*		
Phone #2		
Preferred method of contact?	×	
Mailing Address (street or PO Box)*		
Postal City*		
State*	V	
Zip Code*		
How did you hear about CASP?	~	
Days/times available to volunteer*	.d	
CASP Communities	☐ Rockingham ☐ Westminster ☐ Brattleboro ☐ Marlboro ☐ Putney ☐ other: ☐	Check boxes
	Check the CASP communities (if any) you'd like to be a part of.	
Spanish Level	○ None ○ Beginning ○ Intermediate ○ Advanced ○ Fluent/Near Fluent	Radio buttons

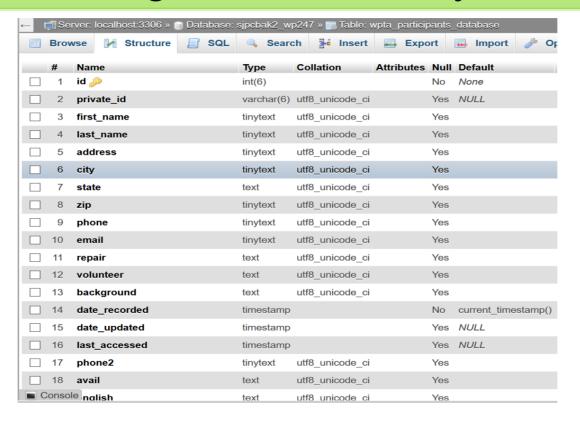
1a. Create the input form fields in PDB



Text boxes

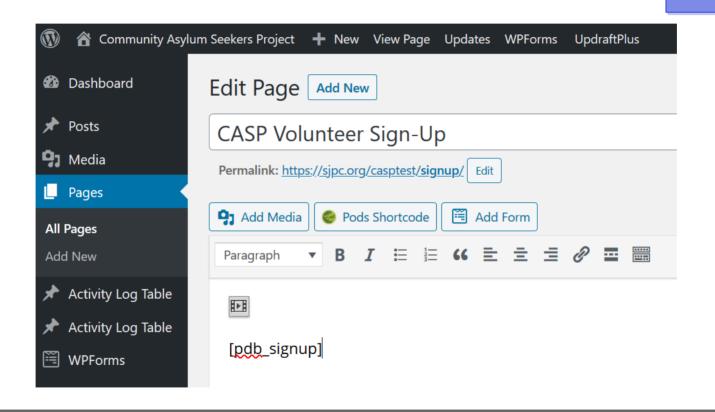
Check boxes
Radio buttons

1b. PDB generates the MySQL table

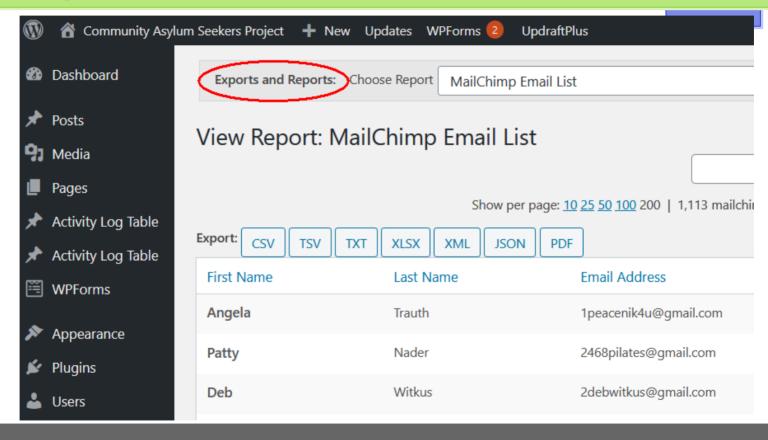


Viewed via WP phpMyAdmin

2. Add the PDB shortcode to a WordPress page



4. Report of names and email addresses



Plugin Pods can create an app with a form and a table

- 1. Add the form fields (creates a MySQL table)
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Enter the application data into an input form

Activity Log

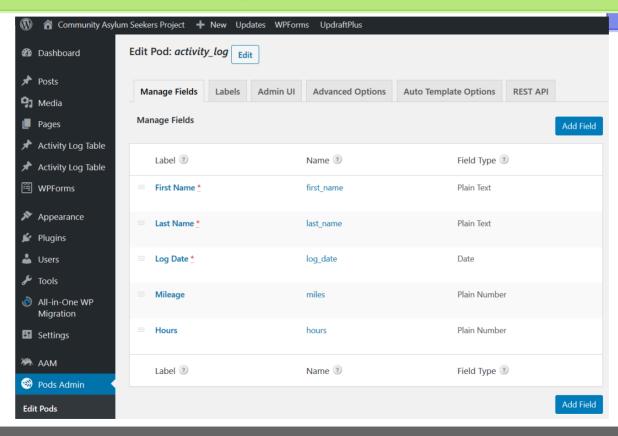
Please enter the miles you've driven for CASP and the number of hours you've volunteered since your last log entry.

Fields marked with * are required fields.

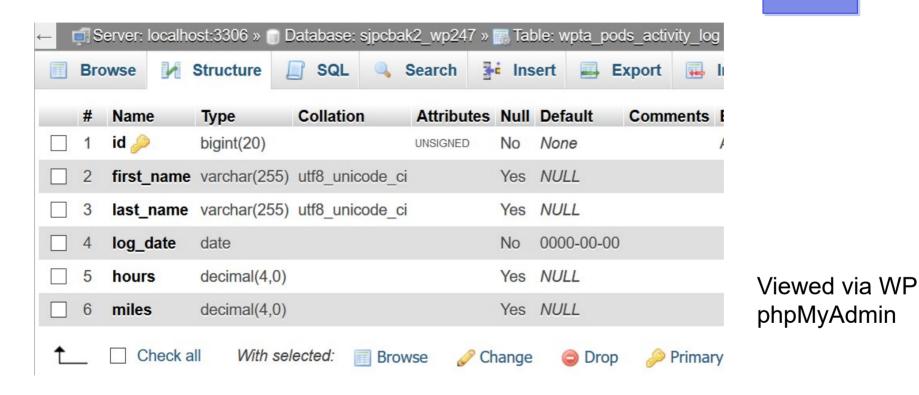
First Name *	EB	Text
Last Name <u>*</u>		
Log Date *		Date
Hours	0	Numbe
Mileage	0	

Submit Log

1a. Create the input form fields in Pods



1b. Pods generates the MySQL table



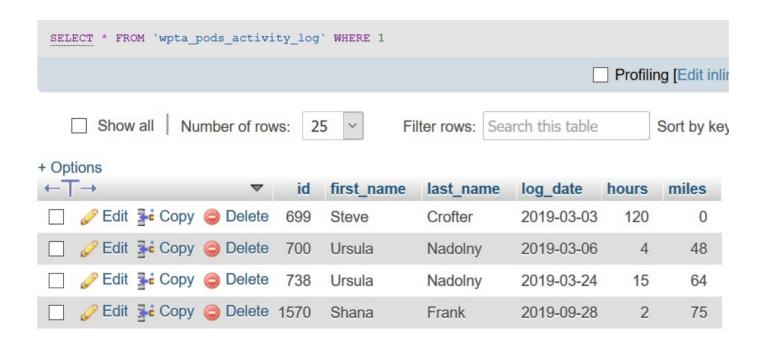
2. Add the Pods shortcode to a WordPress page

Please enter the miles you've driven for CASP and the number of hours you've volunteered since your last log entry.

Fields marked with * are required fields.

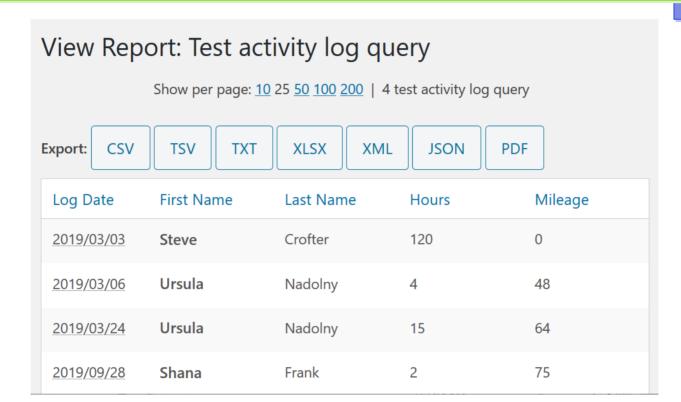
```
[pods-form name="Activity Log" slug="activitylog"
fields="first_name,last_name,log_date,hours,miles" label="Submit
Log"]
```

3. Users entered this data into the form



Viewed via WP phpMyAdmin

4a. Exports and Reports output



4b. Exports and Reports MySQL query

SQL Query

SELECT log_date, first_name, last_name, hours, miles FROM wpta_pods_activity_log ORDER BY log_date, first_name, last_name

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Questions?

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