This PDF form demonstrates several different ways to use PHP to build on Adobe Acrobat's native capabilites to interact with SQL databases or REST APIs, including multi-parameter lookups and updates using parameterized queries in prepared statements within transactions, Sodium-based data encryption, and programmable e-mail or SMS services. Requires Adobe Acrobat Reader or Acrobat Pro, scroll to second page for additional information.

English	French	Spanish	E-mail Session Code	Show	Hide

E-mail Address | Session Code

Diamond Price Look Up

Cut Type	Ideal	$16,005.00	Per Carat Price Converted	23,052.24	
Weight Range	1.50	Get Per Carat Price	Select Currency	CAD	
Clarity	VVS1	Enter Weight 1.52	Currency Exchange Rate	1.440315	
Color	D	$ 24,327.60	Extended Price Converted	35,039.41	

			Order Date	Ship Date
Anna's Decorations, Ltd		1083	2024-02-14	2024-02-28
Anna's Decorations, Ltd			Anna O'Hara	02 9936 8555
201 Miller Street	North Sydney		2060	Australia
Level 15	NSW		Credit Limit	Current Balance
			$107,800.00	$85,100.00

SKU	Item Name	On Hand	Price	Quantity	Extension	Converted
1	Trek 9000 Mountain Bike	5240	$1,200.00	10	$12,000.00	17,283.78
4	Victoria Pro All Weather Tires	5240	$ 54.95	10	$549.50	791.45
32	Kool-Breeze Rocket Top Jersey	5240	$ 32.00	110	$3,520.00	5,069.91
					$16,069.50	23,145.14
			Sales Tax	7.75%	$ 1,245.39	1,793.75
			Subtotal		$ 17,314.89	24,938.89
			Shipping		$ 200.00	288.06
			Total		$ 17,514.89	25,226.95

Update Quantiity On Hand

32	Kool-Breeze Rocket Top Jersey	5,240

01/28/2025 04:50:38 pm - Kool-Breeze Rocket Top Jersey updated to 5240 by customdataservicesinfo@gmail.com

154,988	Total In Inventory
40	Distinct Products
$ 196.03	Average Retail Price
$ 61,777,748.00	Total Retail Value

Refresh KPIs

9497057502

Receipt sent 29-01-25 03:48:06 - Order Reference is 4987083

Text Receipt | Preview Print | Reset Form

forty-one thousand, four hundred and fourteen dollars and thirty-eight cents

Cascading Selection Menus

- Aston Martin
- Aston Martin Lagonda Ltd
- DB9
- Naturally Aspirated
- Manual(M6)
- 2-Wheel Drive, Rear

Filtered Selection Menu

C	Canada

Signature Capture and QRCode Generation

Sodium Data Encryption

Enter the text to be encrypted here. You can optionally add a reference in the field on the right. Decryption requires the unencrypted reference as well as the 3 encrypted fields below to work.	#ABC-12345
0bd1626b8390f515e4bef2f2	5a0121ddbf6561ac83d910a1d2bf1c2702cd346060063b60d7cfe580d01f6e1a
96084dbfb4c9bbcb6dae992ab25c310b57b27ce3071005a97ee2802472cc698f93f92882b90d44da433950e5b34d46512c5	
Enter the text to be encrypted here. You can optionally add a reference in the field on the right. Decryption requires the unencrypted reference as well as the 3 encrypted fields below to work.	Encrypt / Decrypt

This Adobe Acrobat form has several sections, each intended to demonstrate a different way that a standard PDF file can perform real-time interactions with SQL databases and REST APIs, including multi-parameter lookups, database record creation and updates using prepared statements within transactions, Sodium-based data encryption, and programmable e-mail and SMS messaging services.

Here are some things to consider when evaluating Acrobat Reader forms...

+ can be extended with open-source JavaScript, PHP, SQL, and cURL
+ can interact with multiple databases or APIs, in any combination or sequence
+ can execute SQL queries with PHP Data Objects for injection-proof interactions
+ objects and associated functions can be visible or hidden based on conditional logic
+ can have interactive fields, buttons, calculations, functions, and scripted events
+ provide native security features like encryption and password protection
+ provide electronic signatures with advanced digital authentication
+ can utilize ultra-efficient low-code client-server methods
+ don't have the security weaknesses of HTML forms
+ don't require SaaS connector dependencies

If you would like to test, download a copy and open with either Adobe Acrobat Reader or Acrobat Pro. The form will not work correctly if it is opened in a web browser, and non-Adobe PDF editors or readers will give mixed results.

To start, select a language to trigger Acrobat's initial trust prompt. Trust is required to enable communications with external data sources.

You can optionally test 2-Factor Authentication (2FA). Enter an e-mail address and then click the "E-mail Session Code" button. This sends an e-mail message to the e-mail address entered containing a unique session code. Copy the code from the e-mail message to the Session Code field and tab out of the field to trigger a JavaScript function that makes a timestamped "Authenticated session start" message visible. The mechanism can easily be expanded on to load the form with custom variables, hide specific fields or buttons or make them visible, or trigger scripts that perform automated processes.

The Diamond Price Look Up section uses 4 different parameters to query a SQL database for a diamond's price per carat. Enter a Cut Type, Weight Range, Clarity, and Color parameters to lookup a per carat price. Enter a carat weight between 1.00 and 5.00 to calculate the diamond's actual value.

Select a country code from the Select Currency drop-down list and tab out of the field to query the FIXER.IO currency exchange REST API.

The Customer Look Up uses either a name selected from the drop-down list or an inserted customer number (examples 1001, 1002, 1003...) to query a SQL database and return customer and accounts payable information.

The Order Form grid uses SKUs 1...40 to query a SQL database for product description, availability, and price. JavaScript error checks ensure products can't be ordered if the quantity ordered exceeds quantity on hand and also generates a red error message if the order total exceeds the customer's Credit Limit minus their Current Balance.

The Update Quantity On Hand section uses a SQL transaction to adjust the On Hand value for the specified product. Enter a new value in the field on the right of the product's name and tab out of the field to trigger the Update transaction.

Click the "Refresh KPIs" button after updating the inventory to execute 4 separate SQL queries and return updated results to the form.

Tabbing out of the Total field executes a PHP script that converts the total into a long text currency format.

The Text Receipt button sends an e-mail message that triggers the TextMagic REST API to send an SMS text receipt to the phone number entered into the field above the button (this feature works great but is disabled in this demo due to SMS rules and regulations).

Print Form can be used to print specified form elements (use Show and Hide buttons to preview) to paper or to PDF, creating a read-only version of the completed form.

The Cascading Drop-down Menus and Filtered Drop-down Menus demonstrate JavaScript generated by Try67 add-on tools (www.try67.com). The cascading drop-down menus change depending on selections made in the preceding drop-down menus, and the filtered drop-down menu changes depending on the alphabetic character inserted into the field to the left of the menu.

The signature section uses Acrobat's native Digital ID mechanism to enable optional securable digital signatures.

If you are using Acrobat Pro, a QR Code will be dynamically generated to the right of the signature that changes based on updates to the Form ID, Customer Name, or Order Total fields.

Finally, the Sodium data encryption section uses components of the Sodium Cryptographic Library to convert text and an optional reference text into 3 encrypted components. Decryption requires all 4 components to recreate the initial text.

These are just a few examples. For more information, please visit www.customdataservices.net. Thanks!