



IT 332

INTEGRATIVE PROGRAMMING and Technologies

Activity for XML

What to Prepare

Web browser, XAMPP, Sublime Text, and the XML File to be provided by the instructor in the Google Classroom.

What to do

Create an HTML web page that manages a Plant Catalog.

1. Open the plant_catalog.xml using XML HTTP Request.
2. Display the plant catalog on a table.
3. When a plant is selected/clicked from the table, its data are displayed on input text boxes.
4. When the Save button is clicked, the plant's data are updated in the table.

Sample Output

Click on a plant to display its information.

Common:

Botanical:

Zone:

Light:

Price:

Availability:

Save

COMMON	BOTANICAL	ZONE	LIGHT	PRICE	AVAILABILITY
Bloodroot	Sanguinaria canadensis	4	Mostly Shady	\$2.44	031599
Columbine	Aquilegia canadensis	3	Mostly Shady	\$9.37	030699
Marsh Marigold	Caltha palustris	4	Mostly Sunny	\$6.81	051799
Cowslip	Caltha palustris	4	Mostly Shady	\$9.90	030699
Dutchman's-Breeches	Dicentra cucullaria	3	Mostly Shady	\$6.44	012099
Ginger, Wild	Asarum canadense	3	Mostly Shady	\$9.03	041899
Hepatica	Hepatica americana	4	Mostly Shady	\$4.45	012699
Liverleaf	Hepatica americana	4	Mostly Shady	\$3.99	010299
Jack-In-The-Pulpit	Arisaema triphyllum	4	Mostly Shady	\$3.23	020199
Mayapple	Podophyllum peltatum	3	Mostly Shady	\$2.98	060599
Phlox, Woodland	Phlox divaricata	3	Sun or Shade	\$2.80	012299
Phlox, Blue	Phlox divaricata	3	Sun or Shade	\$5.59	021699

Clicking the Marsh Marigold displays its data on the sidebar.

The screenshot shows a web application titled "Plants Info" running on a local host. On the left, there is a sidebar with a heading "Click on a plant to display its information." Below this, there are input fields for "Common:" (Marsh Marigold), "Botanical:" (Caltha palustris), "Zone:" (4), "Light:" (Mostly Sunny), "Price:" (\$6.81), and "Availability:" (051799). A "Save" button is at the bottom of the sidebar. On the right, there is a table with columns: COMMON, BOTANICAL, ZONE, LIGHT, PRICE, and AVAILABILITY. The table lists various plants, and the "Marsh Marigold" row is highlighted in red. At the bottom right of the table, there is an illustration of three potted plants.

COMMON	BOTANICAL	ZONE	LIGHT	PRICE	AVAILABILITY
Bloodroot	Sanguinaria canadensis	4	Mostly Shady	\$2.44	031599
Columbine	Aquilegia canadensis	3	Mostly Shady	\$9.37	030699
Marsh Marigold	Caltha palustris	4	Mostly Sunny	\$6.81	051799
Cowslip	Caltha palustris	4	Mostly Shady	\$9.90	030699
Dutchman's-Breeches	Dicentra cucullaria	3	Mostly Shady	\$6.44	012099
Ginger, Wild	Asarum canadense	3	Mostly Shady	\$9.03	041899
Hepatica	Hepatica americana	4	Mostly Shady	\$4.45	012699
Liverleaf	Hepatica americana	4	Mostly Shady	\$3.99	010299
Jack-In-The-Pulpit	Arisaema triphyllum	4	Mostly Shady	\$3.23	020199
Mayapple	Podophyllum peltatum	3	Mostly Shady	\$2.98	060599
Phlox, Woodland	Phlox divaricata	3	Sun or Shade	\$2.80	012299
Phlox, Blue	Phlox divaricata	3	Sun or Shade	\$5.59	021699

Let's say we change the zone to 10. When the save button is clicked, the plant's data are updated in the table.

This screenshot shows the same "Plants Info" application, but the "Zone" field in the sidebar has been changed to "10". The "Save" button has been clicked, and the table on the right has been updated. The "Marsh Marigold" row now shows "10" in the "ZONE" column. The rest of the application, including the sidebar fields and the other rows in the table, remains the same.

COMMON	BOTANICAL	ZONE	LIGHT	PRICE	AVAILABILITY
Bloodroot	Sanguinaria canadensis	4	Mostly Shady	\$2.44	031599
Columbine	Aquilegia canadensis	3	Mostly Shady	\$9.37	030699
Marsh Marigold	Caltha palustris	10	Mostly Sunny	\$6.81	051799
Cowslip	Caltha palustris	4	Mostly Shady	\$9.90	030699
Dutchman's-Breeches	Dicentra cucullaria	3	Mostly Shady	\$6.44	012099
Ginger, Wild	Asarum canadense	3	Mostly Shady	\$9.03	041899
Hepatica	Hepatica americana	4	Mostly Shady	\$4.45	012699
Liverleaf	Hepatica americana	4	Mostly Shady	\$3.99	010299
Jack-In-The-Pulpit	Arisaema triphyllum	4	Mostly Shady	\$3.23	020199
Mayapple	Podophyllum peltatum	3	Mostly Shady	\$2.98	060599
Phlox, Woodland	Phlox divaricata	3	Sun or Shade	\$2.80	012299
Phlox, Blue	Phlox divaricata	3	Sun or Shade	\$5.59	021699



Good Luck!