

POST-CLASS LEARNING AND PRACTICE 4.4: ACCESS DATA ACCESS BY USING JAVASCRIPT

Lesson Objective 4.4:

Access data access by using JavaScript.

Additional learning resources:

MSDN®:

IndexedDB: [http://msdn.microsoft.com/en-us/library/hh673548\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/hh673548(v=vs.85).aspx)

File API: [http://msdn.microsoft.com/en-us/library/hh673542\(v=VS.85\).aspx](http://msdn.microsoft.com/en-us/library/hh673542(v=VS.85).aspx)

Other resources (books, e-reference):

JSON Tutorial: <http://www.w3schools.com/json/default.asp>

HTML5 Rocks and File API: <http://www.html5rocks.com/en/tutorials/file/filesystem/>

Resources, software, and additional files needed for this lesson:

1. None

Student activity:

Directions to the student:

Read the following scenario and answer the questions. Verify your answers with the instructor. If there is support for IndexedDB (this feature is scheduled to be available with Internet Explorer® 10), you may extend this activity to create the database and use the commands to add, update, access, filter, and delete records.

Scenario:

Isabel Martin maintains the website for Tailspin Toys. The current site provides information about Tailspin products and allows users to shop online.

Isabel's supervisor has asked her to update the site to add wish lists that will allow users to save a list of the items they want to buy in the future. She has decided to use an indexed database to store the wish list information for easy access.

Content:

1. What information would you include in each "record" of the wish list database?
2. What can be used as a key value to uniquely identify individual object stores (records)?
3. What common database operations are needed for this application to work with the new IndexedDB?

KEY 4.4: ACCESS DATA ACCESS BY USING JAVASCRIPT

Content:

1. What information would you include for each “record” in the wish list database?

Each object store should contain a unique key, an item number, a description, and a price. (Answers may vary.)

2. What can be used as a key value to uniquely identify individual object stores (records)?

Answers may vary. To make the key unique, the developer can use the current date and timestamp. In addition, it would be helpful to have a secondary key to identify the user.

3. What common database operations are needed for this application to work with the new IndexedDB?

Answers may vary.

- a. Add objects to an object store.
- b. Update a record object in a cursor.
- c. Access individual records.
- d. Filter records.
- e. Delete records.