

**Objective:** To learn to create a simple table, and create backend code to interact with the DB.

Create a database named **IoTLab2**

Create a table named **simple\_data** with the following fields (and associated description)

DataID	autoNumber field
SensorName	eg DHT22, LDR3, etc (make this a required field)
SensorType	eg Temperature,
CurrentReading	eg 32.1 (make this a required field)
SensorLocation	eg R115
DateRead	(make it a timestamp)

**Create the following backend files to interact with the database**

- i. A file to hold database connection information eg you may name this **config.php**
- ii. A file that allows data to be inserted into the table. Note that data for required fields must always be provided. You may name this **insert.php**. Assume that the file accepts the variables using the **GET** method.
- iii. A file that allows deletion of a particular record by using its DataID value (named **delete.php**)
- iv. A file that allows update of a record given its DataID value (named **update.php**)
- v. A file that allows retrieval of the following:
  - a. all data
  - b. only one sensor type current readings
  - c. all records where temperature readings are higher than 35

This file may be called **listing.php**, but depending on a parameter passed in the URL, may execute one of the above listings

**Extra credit:**

Consider using a template eg a basic bootstrap template to enhance the presentation of your lists.