

# ASSIGNMENT-7

## Weather Details:

This is the Extension to the Lab 6 in which we have used two web services to populate the UI. In this assignment, the data is managed using mongolab.

Create, Read, Update and Delete operations are performed on the Lab.

The data available on the online data is:

```
[{"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 284.94, "Description": "Heavy Rain", "city": "Chicago, IL, USA", "Humidity": 71, "lon": -87.6297982, "lat": 41.8781136}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 279.656, "Description": "Clear sky", "city": "Kansas, USA", "Humidity": 80, "lon": -98.4845465, "lat": 39.811303}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 397.006, "Description": "Few cloud", "city": "Hyderabad, Telangana, India", "Humidity": 26, "lon": 78.346071, "lat": 17.385044}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 286.091, "Description": "Light intensity drizzle", "city": "Ohio, USA", "Humidity": 100, "lon": -82.90712300000001, "lat": 60.4172872}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 279.358, "Description": "few clouds", "city": "Las Vegas, NV, USA", "Humidity": 55, "lon": -115.1398296, "lat": 36.1699412}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 298.54, "Description": "Clear sky", "city": "Mumbai, Maharashtra, India", "Humidity": 95, "lon": 72.8776509, "lat": 19.0759837}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 296.15, "Description": "mist", "city": "New Delhi, Delhi 110001, India", "Humidity": 60, "lon": 77.2090212, "lat": 28.6139391}, {"_id": {"$oid": "56e0f97193057206bc587f8b"}, "Favorite": true, "Temperature": 279.25, "Description": "mist", "city": "London, UK", "Humidity": 93, "lon": -0.1277583, "lat": 51.5073509}]
```

update mongod - Google | https://api.mongolab.com | mLab: MongoDB-as-a-Service

ObjectLabs Corporation [US] https://mlab.com/databases/places/collections/placecollection?q=&f=&s=&pageNum=0&pageSize=10

Apps For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now.

Home: (db: 'places') Collection: placecollection

Documents | Indexes | Stats | Tools

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Documents

Delete all documents in collection | Add document

Start new search

All Documents

Display mode: list | table (edit table view)

records / page 10 [1 - 8 of 8]

```
{
  "_id": {
    "$oid": "56e0f97193057206bc587f8b"
  },
  "Favorite": true,
  "Temperature": 284.94,
  "Description": "Heavy Rain"
}
```

```
{
  "_id": {
    "$oid": "56e0f97193057206bc587f8b"
  },
  "Favorite": true,
  "Temperature": 279.656,
  "Description": "Clear sky"
}
```

```
{
  "_id": {
    "$oid": "56e0f97193057206bc587f8b"
  },
  "Favorite": true,
  "Temperature": 397.006,
  "Description": "Few cloud"
}
```

The main screen looks like:

The screenshot shows a web browser window with the URL `http://localhost:8080/Lab6/Main.html`. The page title is "Weather Details". It contains four input fields with associated buttons:

- Enter city name:** A text input field containing "Vegas" and a "Get Details" button.
- Enter city name to remove from favorites:** A text input field containing "Chicago" and an "Update" button.
- Enter city name:** A text input field containing "London" and a "Search" button.
- Enter city name to Delete:** A text input field containing "Kansas" and a "Delete" button.

On giving the city name and clicking get details button, the data from two services is populated on the screen and the data is stored in mongolab.

**Write:**

The screenshot shows a web browser window with the URL `http://localhost:8080/Lab6/sample`. The page displays the following information:

Record Of-->

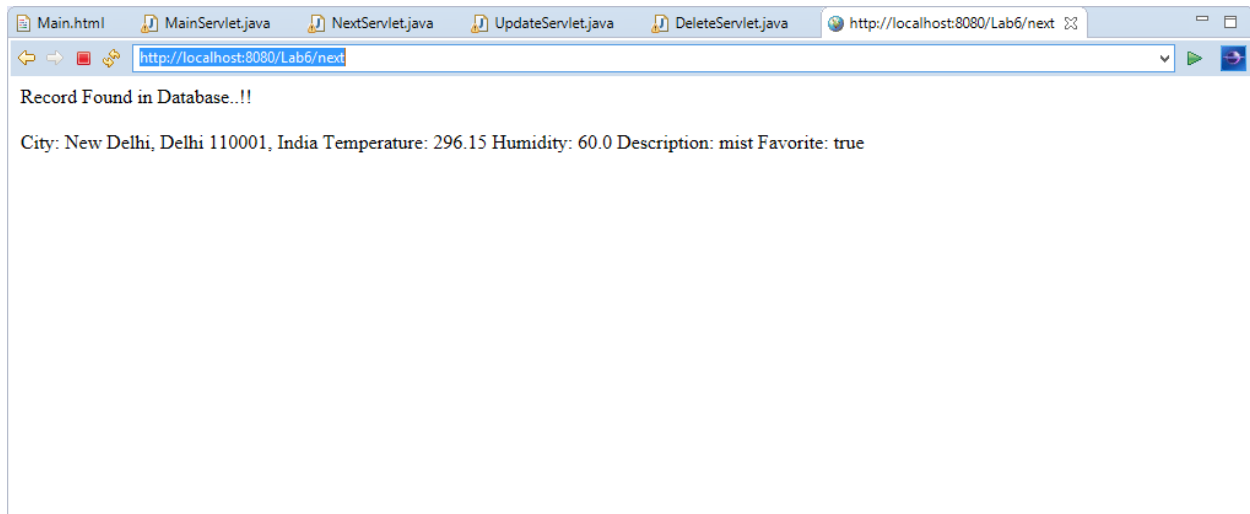
Location: Las Vegas, NV, USA Latitude:36.1699412 Longitude:-115.1398296 Temperature:279.156 Min Temperature: 279.156 Max Temperature: 279.156 Humidity: 55.0 Description: few clouds

Data recorded in database

The screen shot is:

**Read:**

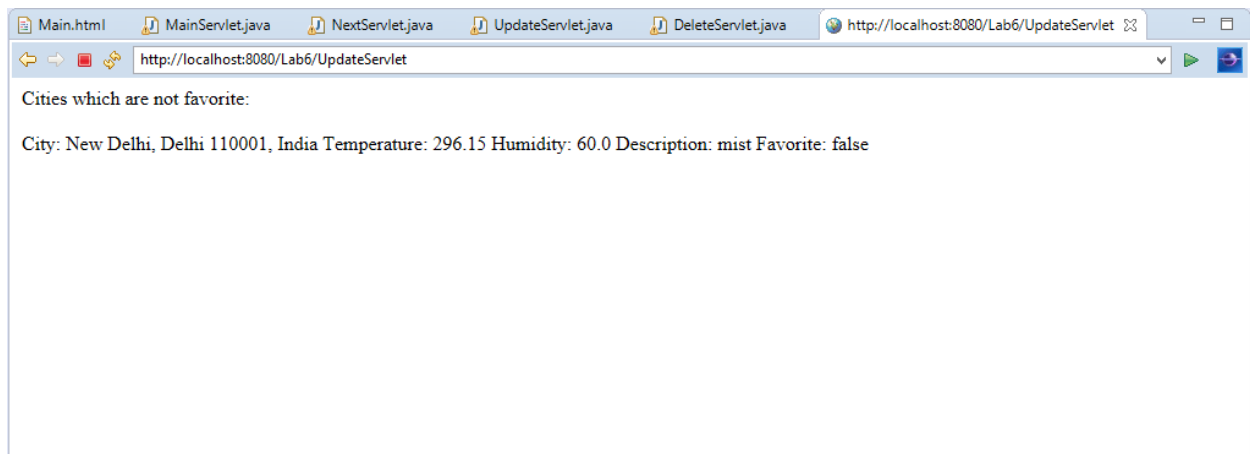
Given a city name, a read operation on the db is performed populating the results on the screen.



### Update:

By default, all the cities that are entered into the database is set to favorite. In the update operation. User is allowed to change the preferences.

### Screenshot:



### Delete:

A record is deleted from the database when a city name is provided.

### Screenshot:

