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**Class ID:11**

**Introduction:**

* This ICP is get to know about D3(Data Driven Documents) creation and usage of data formats in given code and constructing a tree diagram in DOM model as well as creation of MongoDB account.
* Performing CRUD(create,Read,Update,Delete) operations on student deatils.

**Programming Languages:**

* HTML5
* Java script
* CSS

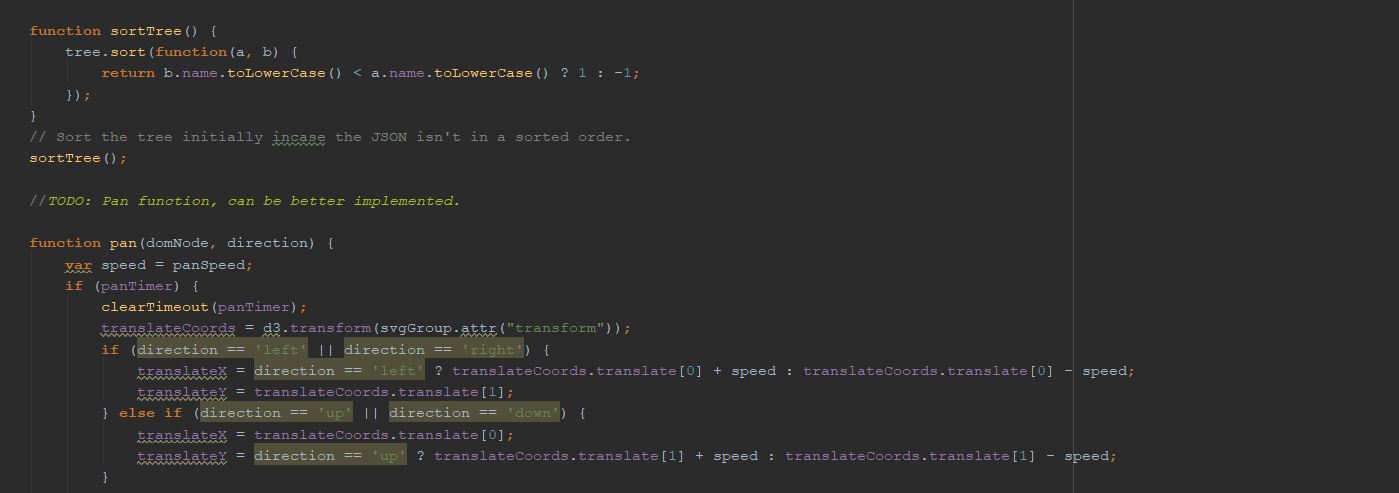
**Software and platforms used:**

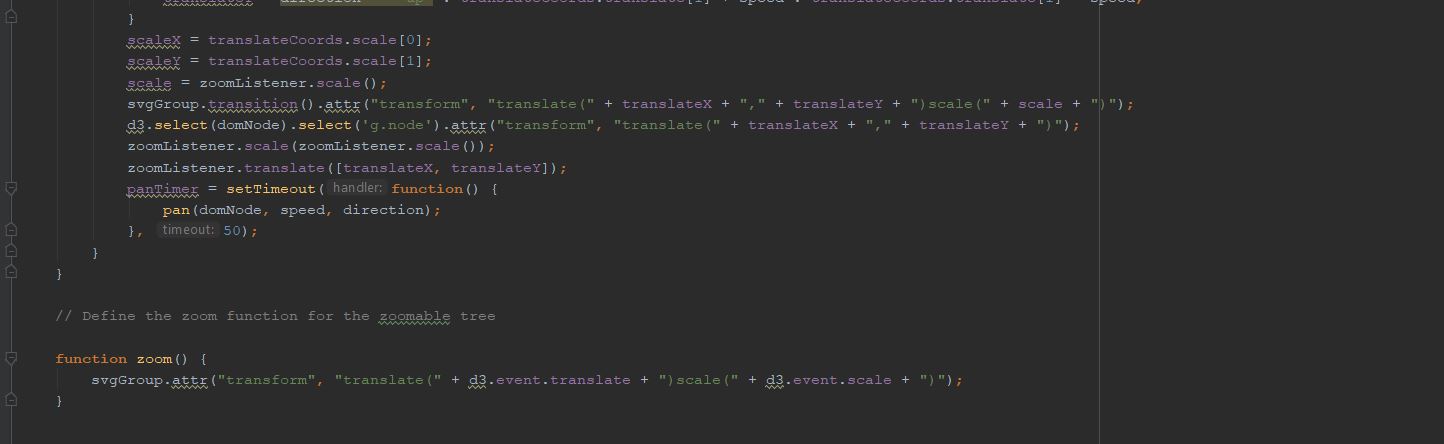
* Jetbrains-webstorm
* Database in MongoDB

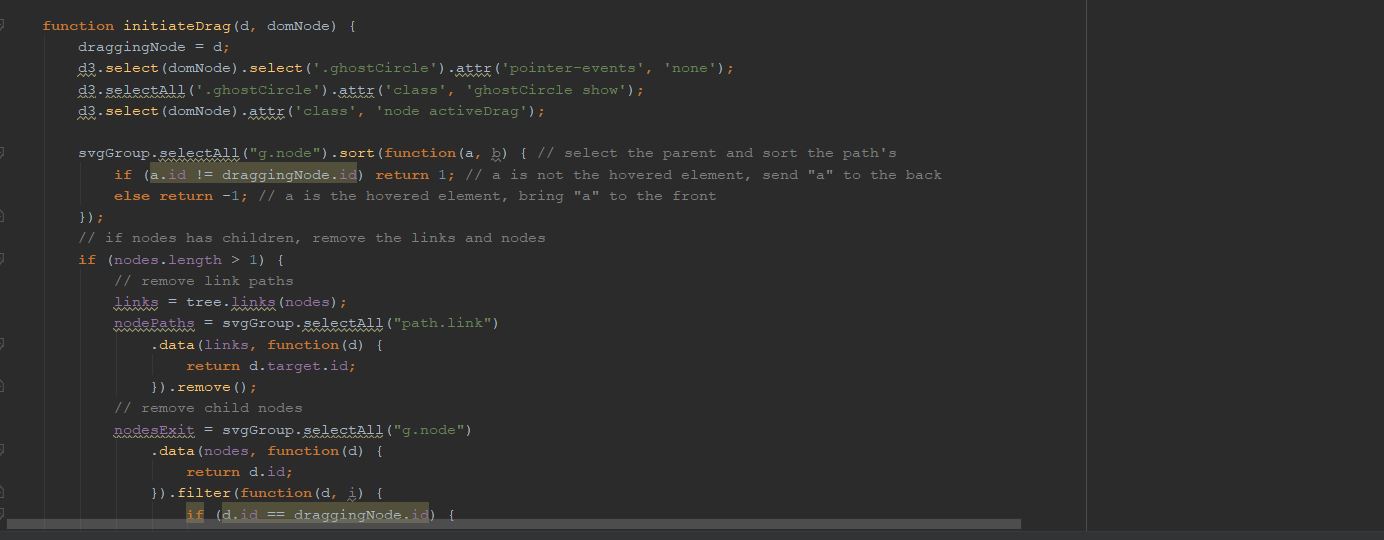
**Objective1:**

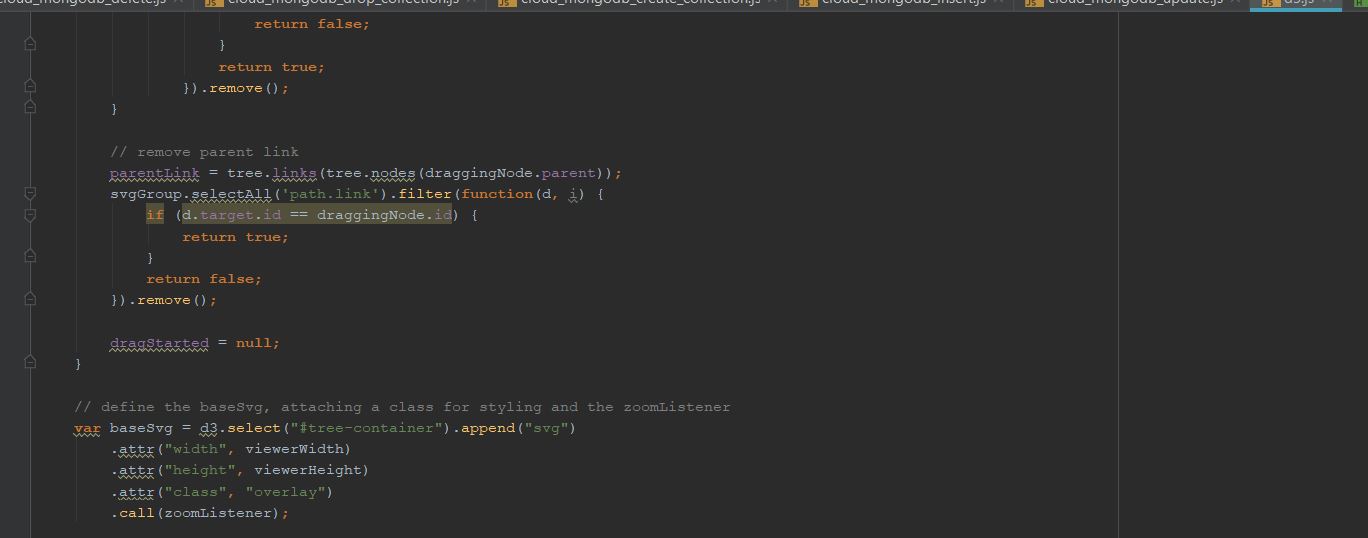
* For the given Use case D3 need to create of drag,drop,autosizing and collapse functions.
* For this D3 model data format as json is used.
* Functions for drag,drop,auto-sizing,collapse are created.
* The code snippets along with comments and output are given below.

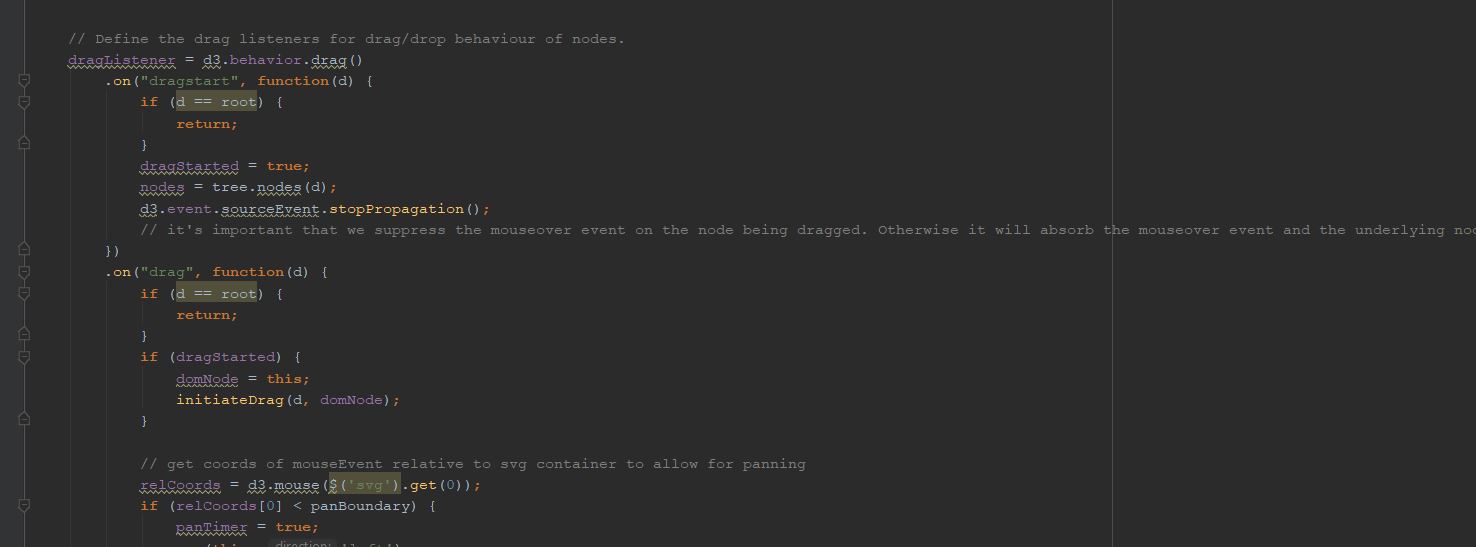


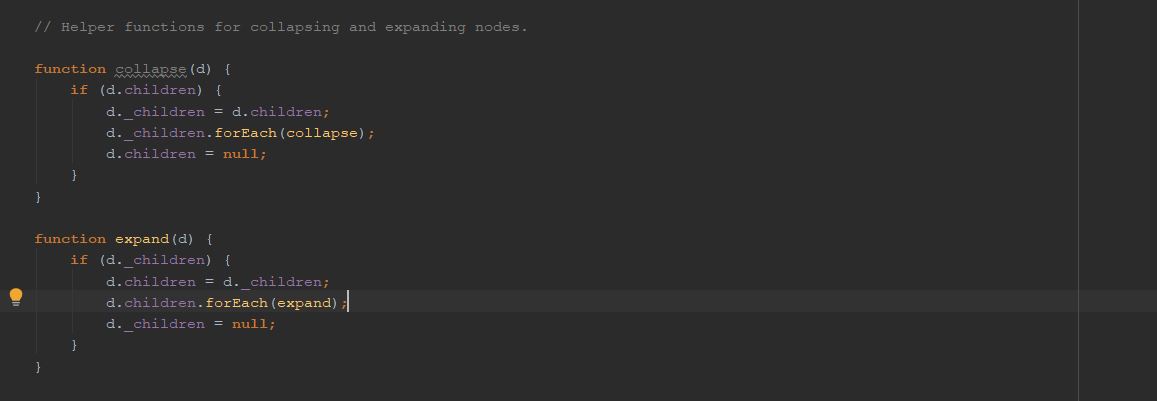




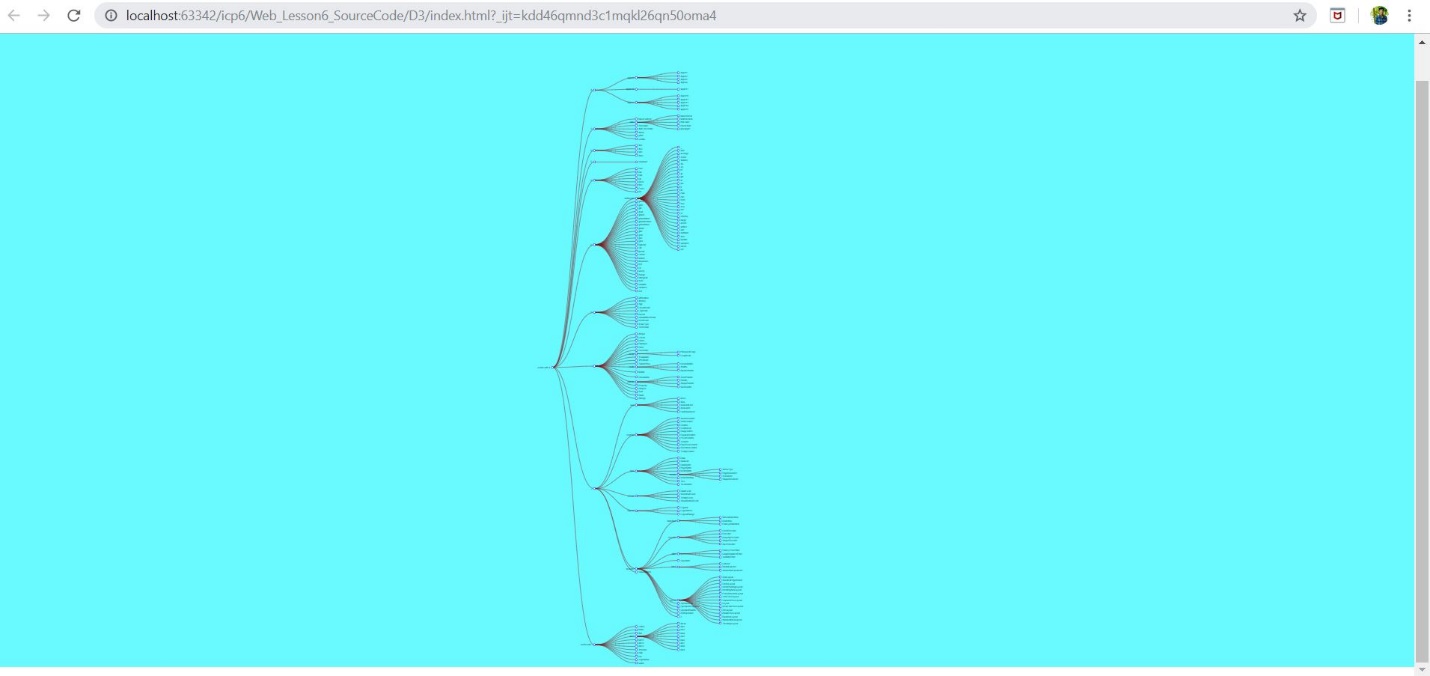








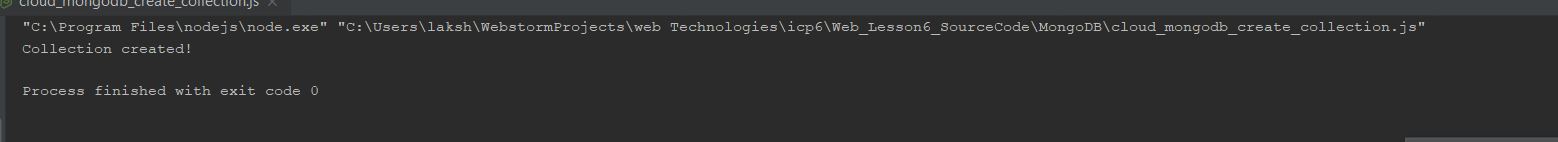




**Objective-2:**

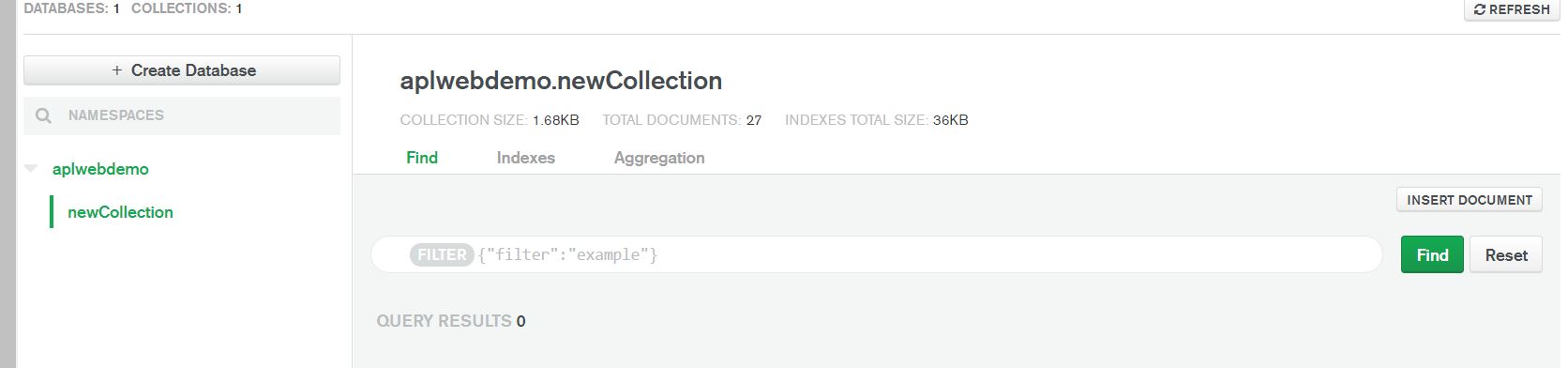
* To Create MongoDB account and create student database to perform CRUD operations.
* The code snippets along with output for each operation is given below.



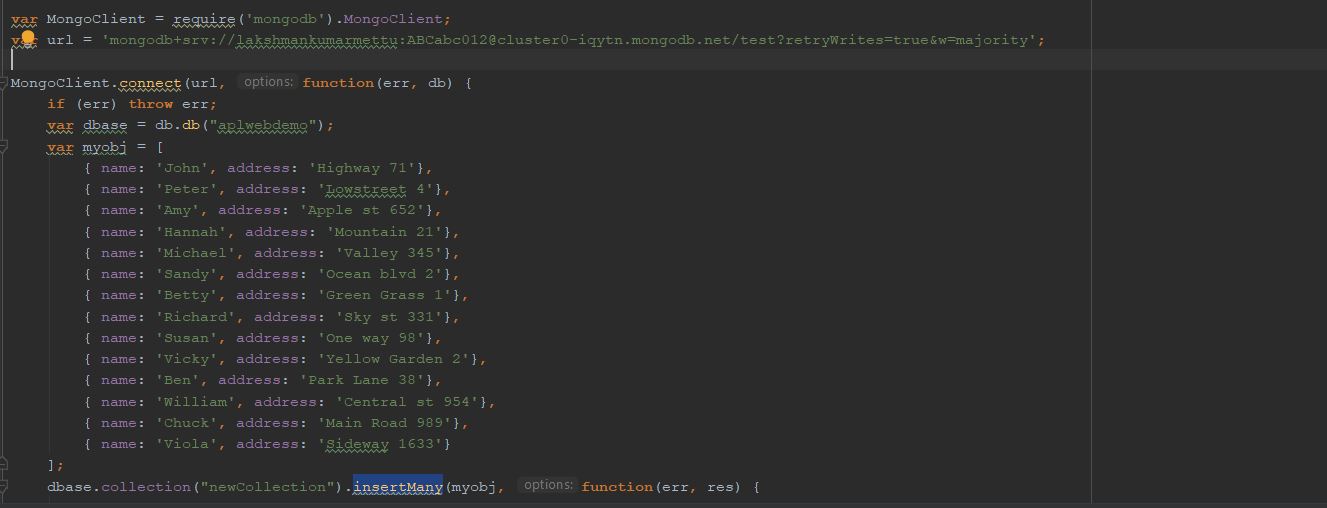




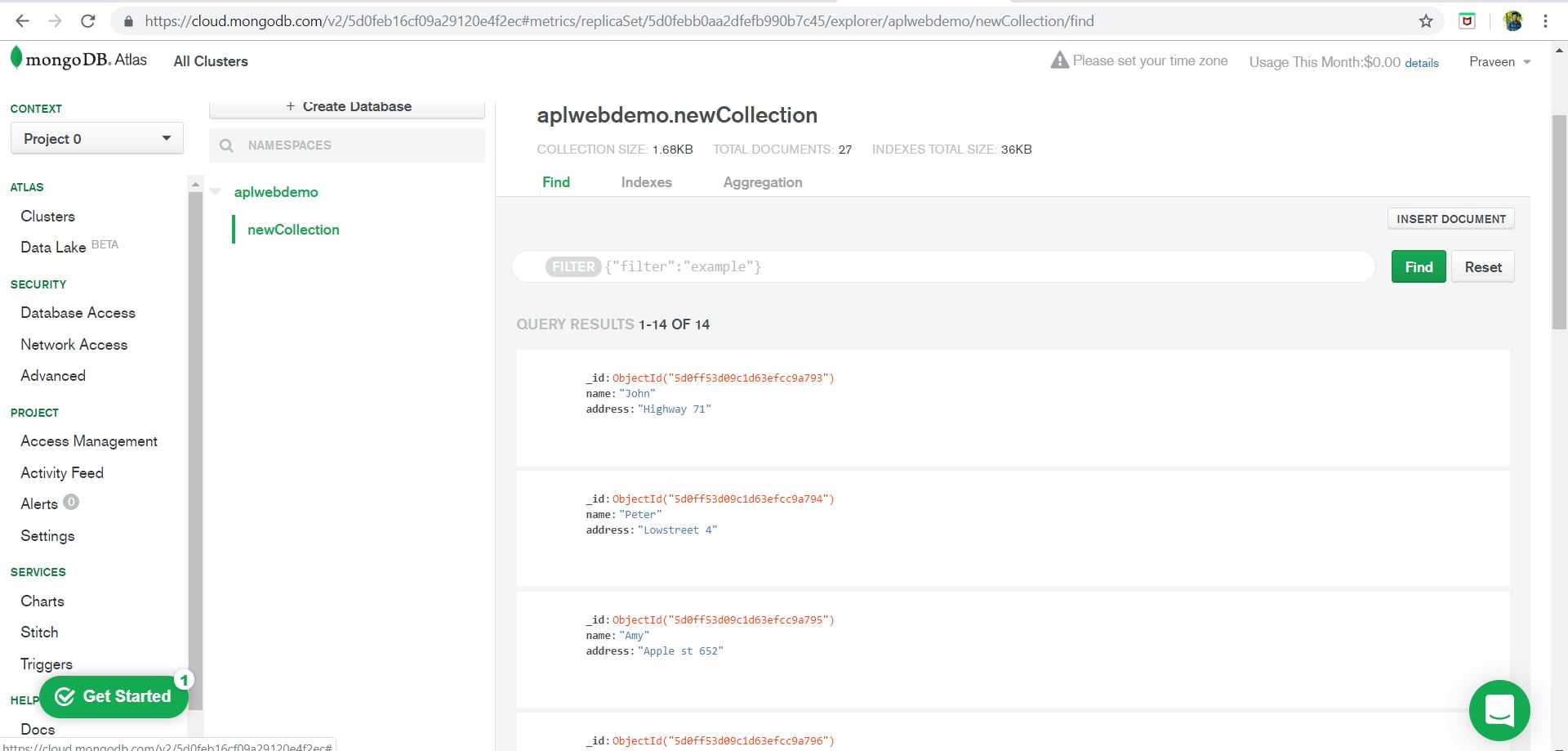
* Database Created and shown in snippet.



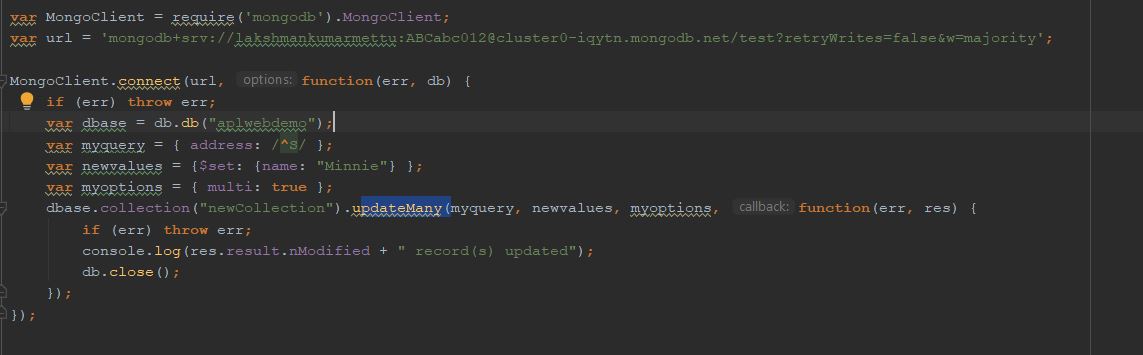
* Inserting Records In database.



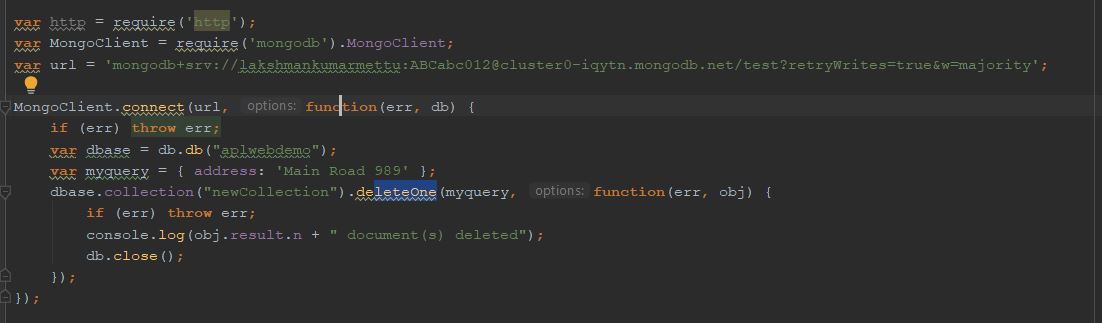
* Output Snippet for record insertion

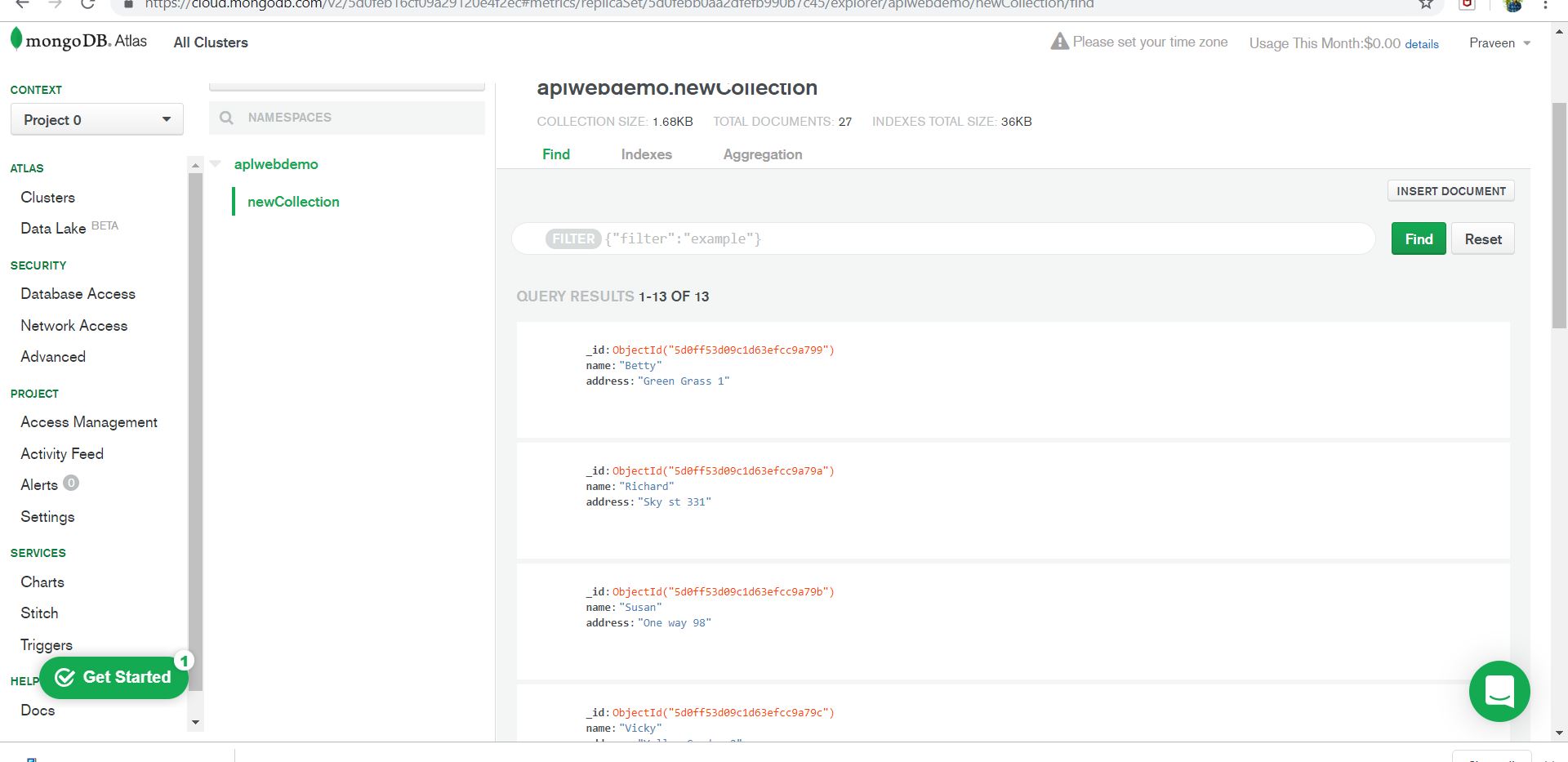


* Updating the Records

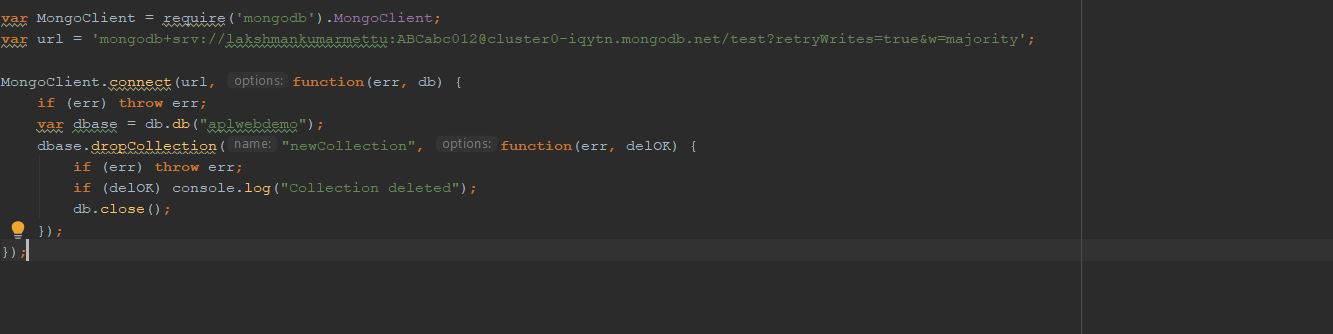


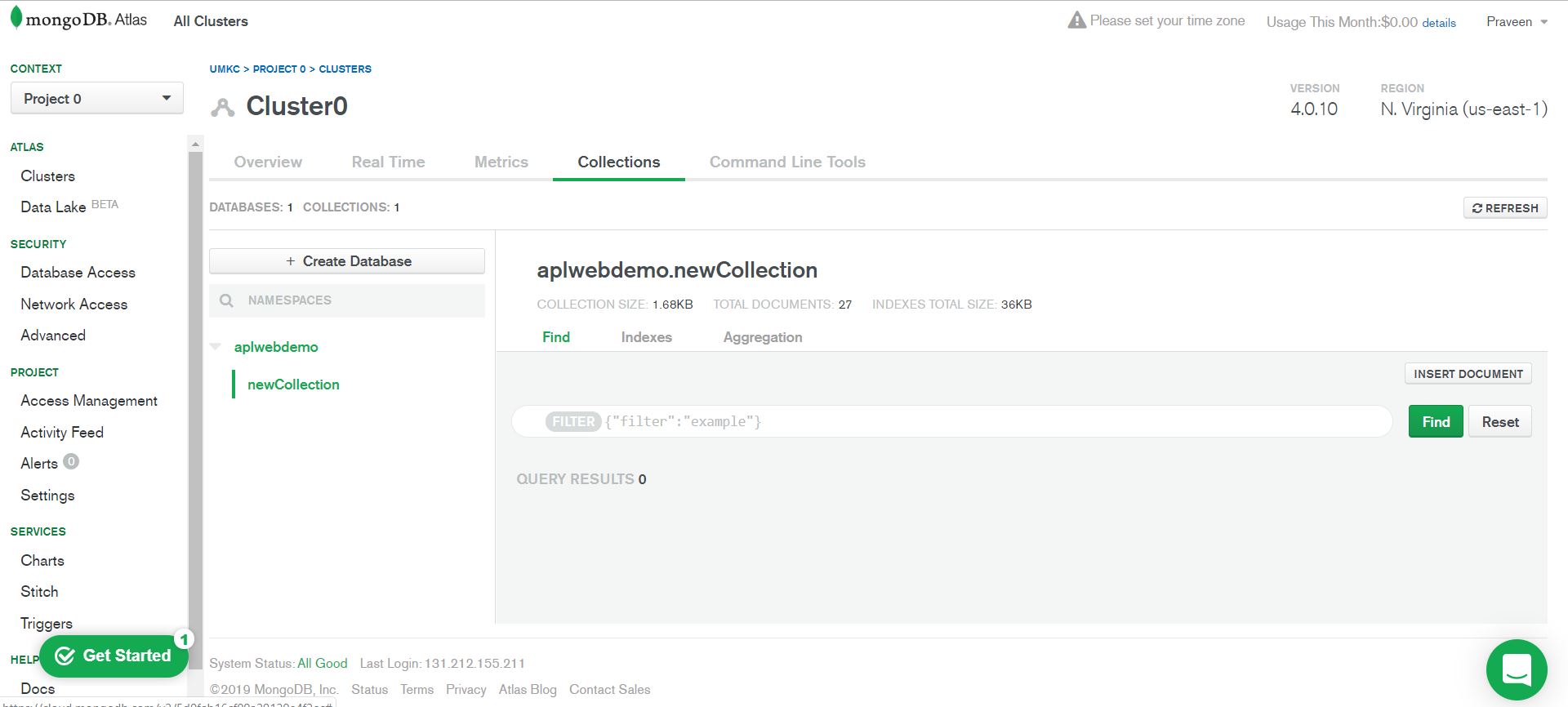
* Deleting 1 record





* Dropping Records





**Discussions:**

* Got keen knowledge on different data formats using D3 and also performing CRUD operations and learnt different data inserting techniques to cloud.

**Conclusion:**

* Hence learnt how to create Document Object Model(DOM) using Data Driven Document((D3) and also learnt to perform CRUD operations using MongoDB.