







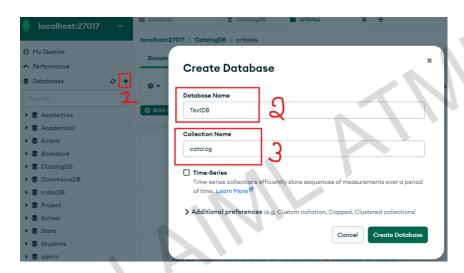




Program 10

Develop an aggregation pipeline to illustrate Text search on Catalog data collection.

Create a database TextDB and collection catalog in Mongo IDE.



Add the following documents in the catalog collection in MongoDB Shell.

```
"name": "Apple iPhone 14",

"description": "Latest model of iPhone with advanced features",
"category": "Electronics"
}
```

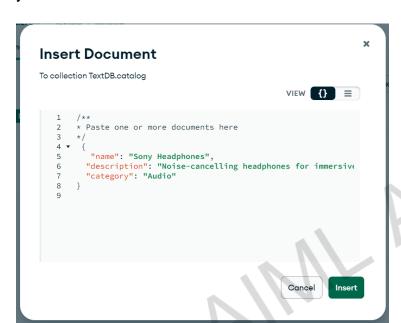
"description": "Newest Samsung smartphone with great camera",

"category": "Electronics"

}

```
"name": "Sony Headphones",

"description": "Noise-cancelling headphones for immersive sound",
"category": "Audio"
}
```



In MongoShell

>use TextDB

Create a Text Index

First, create a text index on the 'name' and 'description' fields.

db.catalog.createIndex({ name: "text", description: "text" });

Output:

name_text_description_text

Define the Aggregation Pipeline

Now, create an aggregation pipeline to perform the text search and process the results. Below is an example pipeline:

```
db.catalog.aggregate([
{ $match: {
       $text: { $search: " Apple iPhone 14" } }
},
{$project: {
   name: 1,
   description: 1,
   category: 1,
   score: { $meta: "textScore" }
  }
},
  $sort: {
   score: { $meta: "textScore" }
  } },
{
  $limit: 10
 }]);
```

Output:

