**MODULE 4 ASSIGNMENT: SETTING UP MONGODB IN CLOUD**

IFT 598: Middleware Prog & Database Sec (2022 Fall)

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Class: 2022Fall-P-IFT458-IFT598-82341-82345

Date: 10-08-2022

**Step 1:**

Adding new cluster

**Graphical user interface, text, application, email

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Creating Sample Document in our Sample Database:

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Inserting 5 documents into our database

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**Step 2:**

Downloading zip file and performing npm install

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**Step 3:**

Creating Schemas folder and loanSchema.js file under it and defining sample schema for loan.

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Code:

//Student name: Jyoshnapriya Buddhi

//Student ID: 1222488072

//Date Created: 10/08/2022

//Short Description: Project is based on how to use mongoose and different data types available in MongoDB and the usage of MongoDB Atlas

import mongoose from 'mongoose';

const { Schema } = mongoose;

const loanSchema = new Schema({

customerName: String,

phoneNumber: String,

address: String,

loanAmount: String,

interest: String,

loanTermYears : String,

loanType: String,

description: String,

});

**Step 4:**

Schema maps to a MongoDB collection and they define the shape of the documents in that collection. Each schema has attributes and their SchemaTypes. Keys can also be assigned to nested objects which their keys and type definitions in this case the key’s value is a POJO.

In mongoose it creates these POJOs do not have actual paths and if we need a path they need to be assigned up the tree.

Different datatypes in MongoDB:

* String
* Number
* Date
* Buffer
* Boolean
* Mixed
* ObjectId
* Array
* Decimal128
* Map

**Step 5:**

Adding two attributes "createdDate" and "insertedDate" with default values for current date.

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Code:

import mongoose from 'mongoose';

const { Schema } = mongoose;

const loanSchema = new Schema({

customerName: String,

phoneNumber: String,

address: String,

loanAmount: String,

interest: String,

loanTermYears : String,

loanType: String,

description: String,

createdDate: Date,

insertedDate: Date

});

Query in MongoDB Atlas:

Searching using customerName:

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Filter by \_id:

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Description automatically generated