Researching Project MongoDB and Mobile App

‘ Week1 Report ’

Lecturer: Mr. HEL Chanthan

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2019-2020

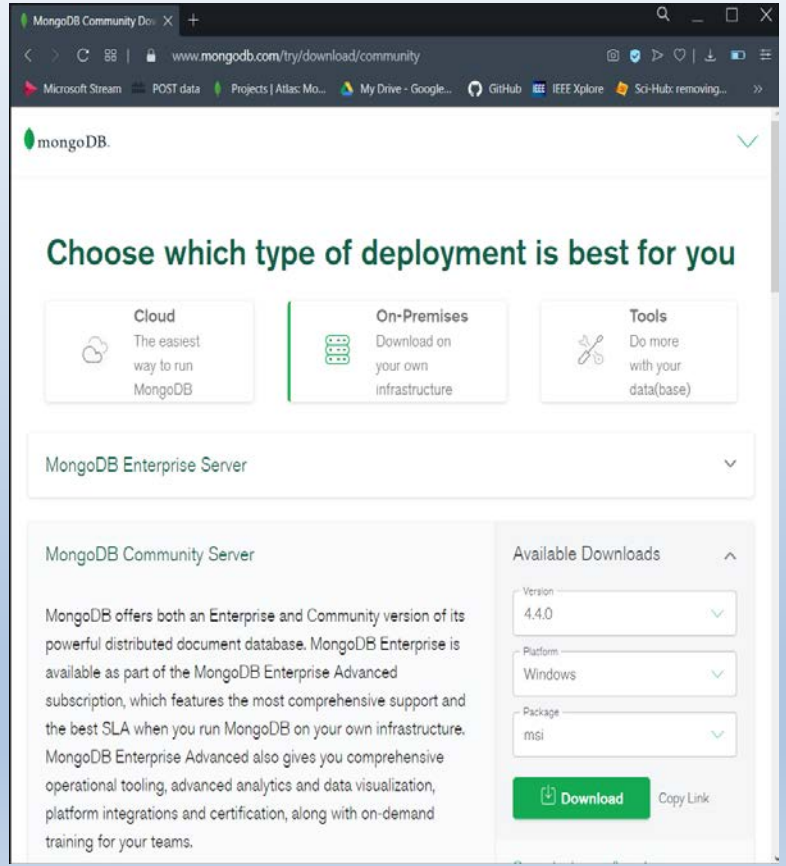
Outline

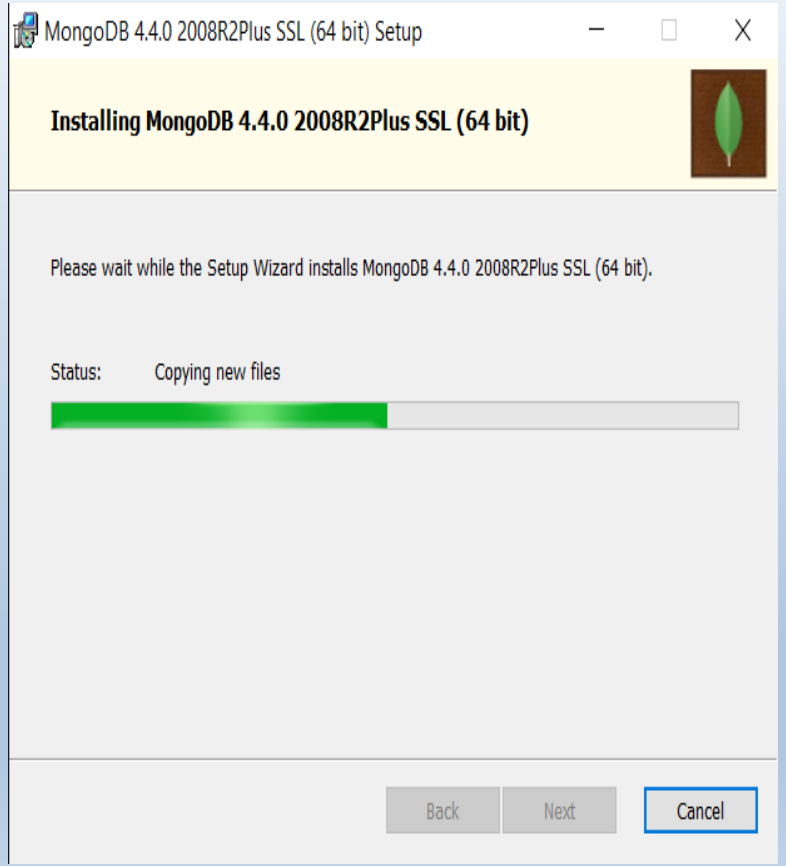
- Planning for First Month.
- Installation MongoDB (Shell and Compass)
- Connect localhost between Shell and Compass.(Locally)
- Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.
- Creating MongoDB Atlas account and Projects.
- Connect MongoDB Atlas to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)
- Installation Visual Studio Code .
- Connecting Node.js to MongoDB Cluster. (Cloud)
- Connecting sample Backend to MongoDB Cluster and storing Products in the Database.

❖ Planning for First Month

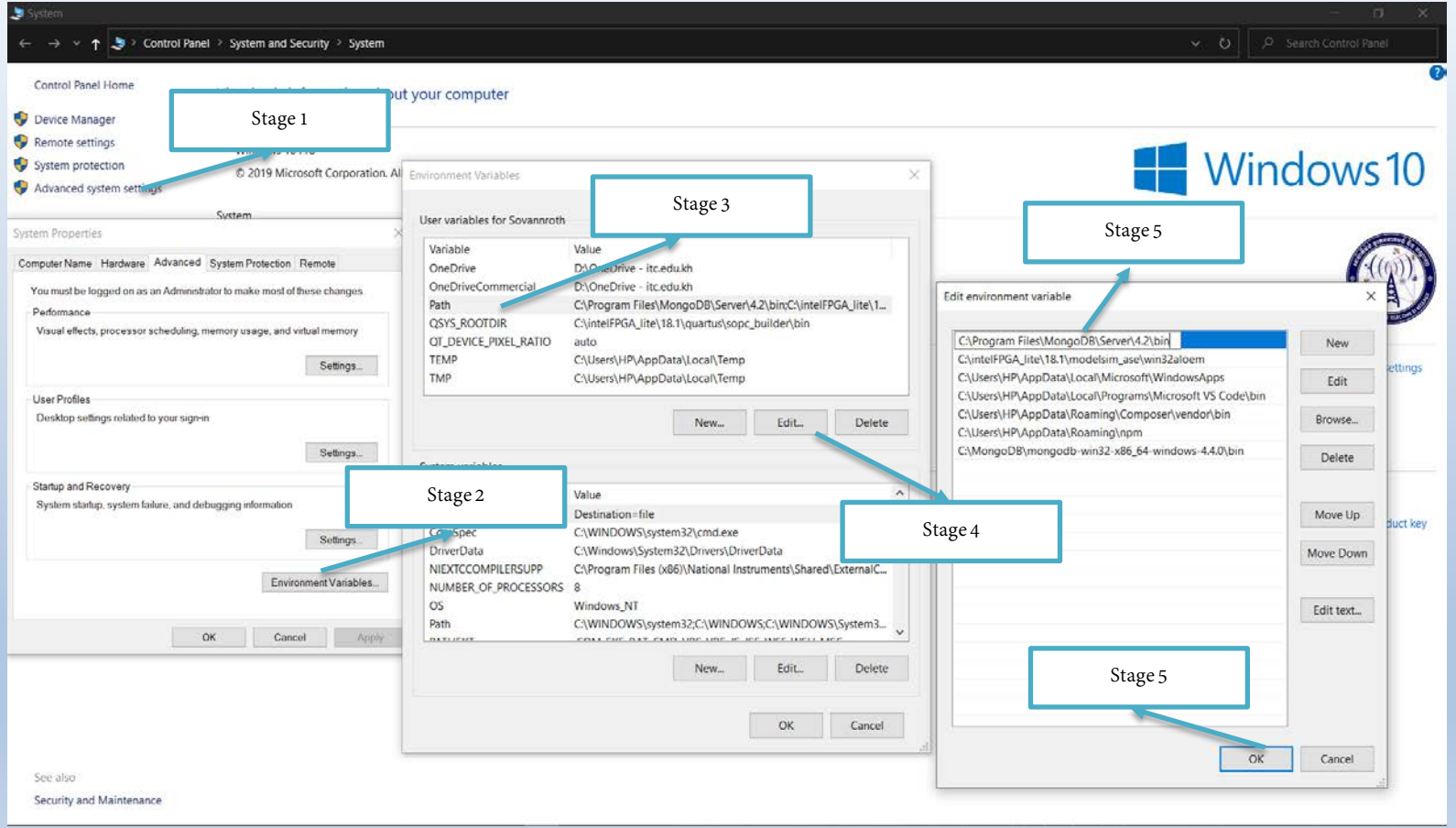
Activity (Start on 06.08.2020)	Thursday (Presentation day)	Friday	Monday	Tuesday	Wednesday (Meeting day)
Week 1	Installation MongoDB (Shell and Compass) and connect localhost between Shell and Compass.(Locally)	Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.	Creating MongoDB Atlas account and connect it to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)	Installation Visual Studio Code and connect driver to MongoDB Atlas.(Cloud)	Connecting sample Backend to MongoDB Cluster and storing Products in the Database.
Week 2	Connecting driver to Mongo Shell.(Locally)	Starting to build sample backend connect with and without MongoDB Atlas.	Build creating, editing and deleting Products on server.	Transmitting and fetching data to/from the Database.	Creating Login and Signup. (Email and password)
Week 3	Adding Users connect to database.	Starting to build backend for project.	Creating Login and Signup.	User management: • Create new user • Reset user password • Delete and edit user	Manage new category: • Create new category • Edit and delete exiting categories.
Week 4	Manage news: • Post news • Edit news • Delete news	Manage Info: • Logo • Name • Contact info • Map • Social	Create Dashboard	Manage Calculate: • Addition • Subtraction • Multiplication • Division	Get data from Sensors and Calculate.

❖ Installation MongoDB (Shell and Compass)



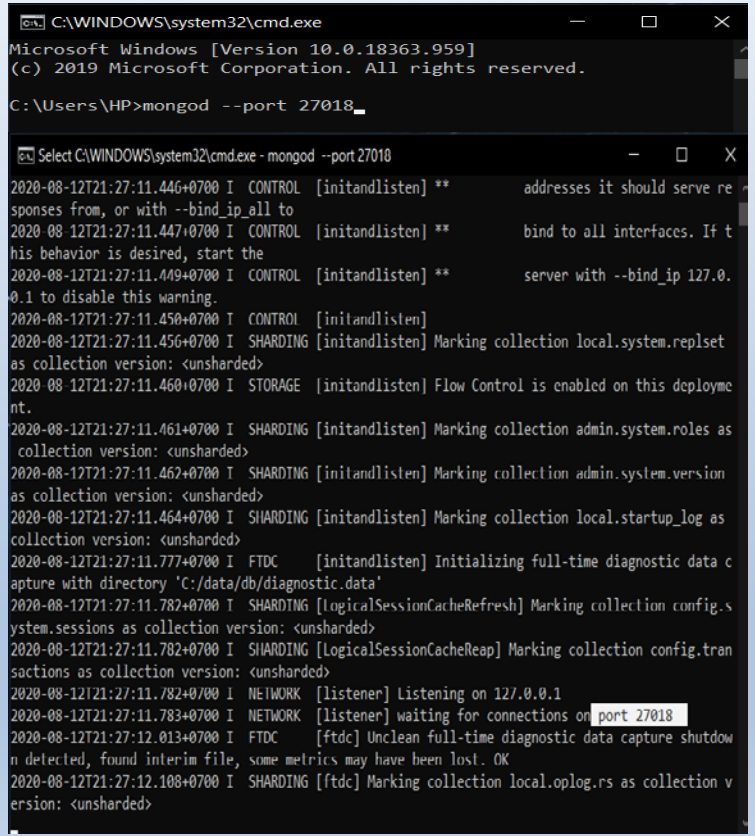


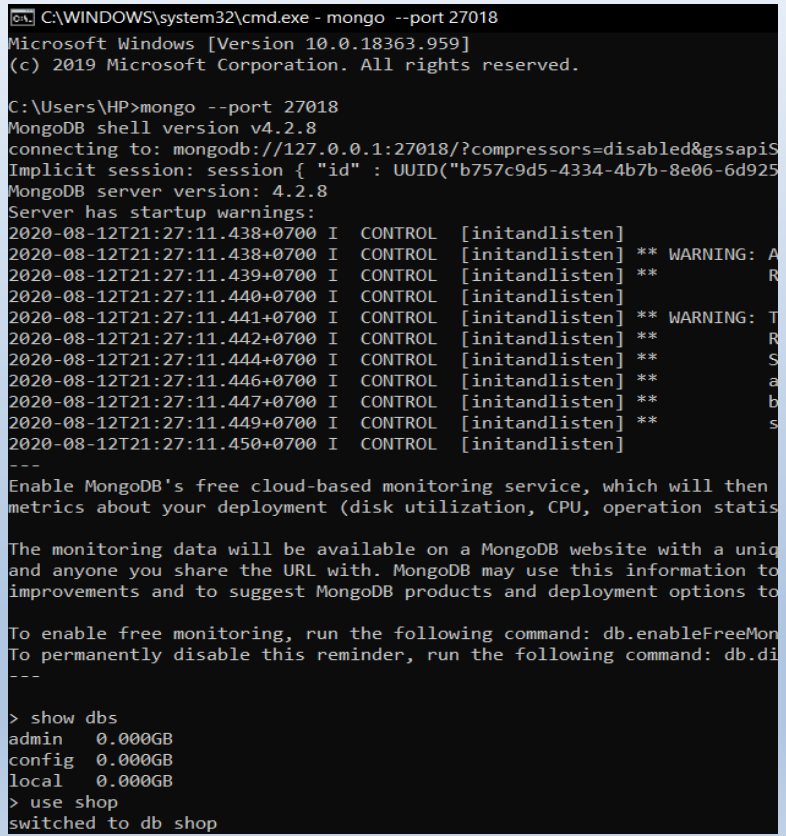
❖ Installation MongoDB (Shell and Compass)



❖ Connect localhost between Shell and Compass.(Locally)

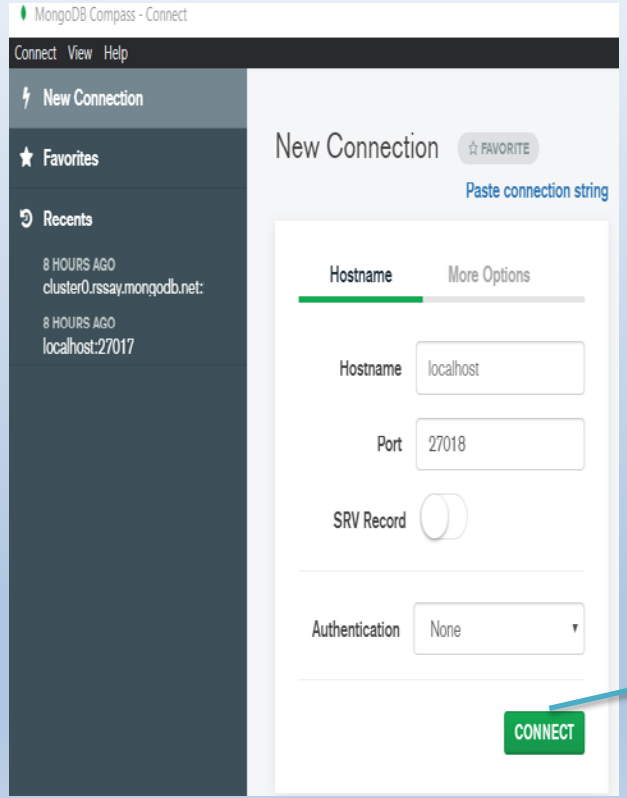
➢ Mongo Shell

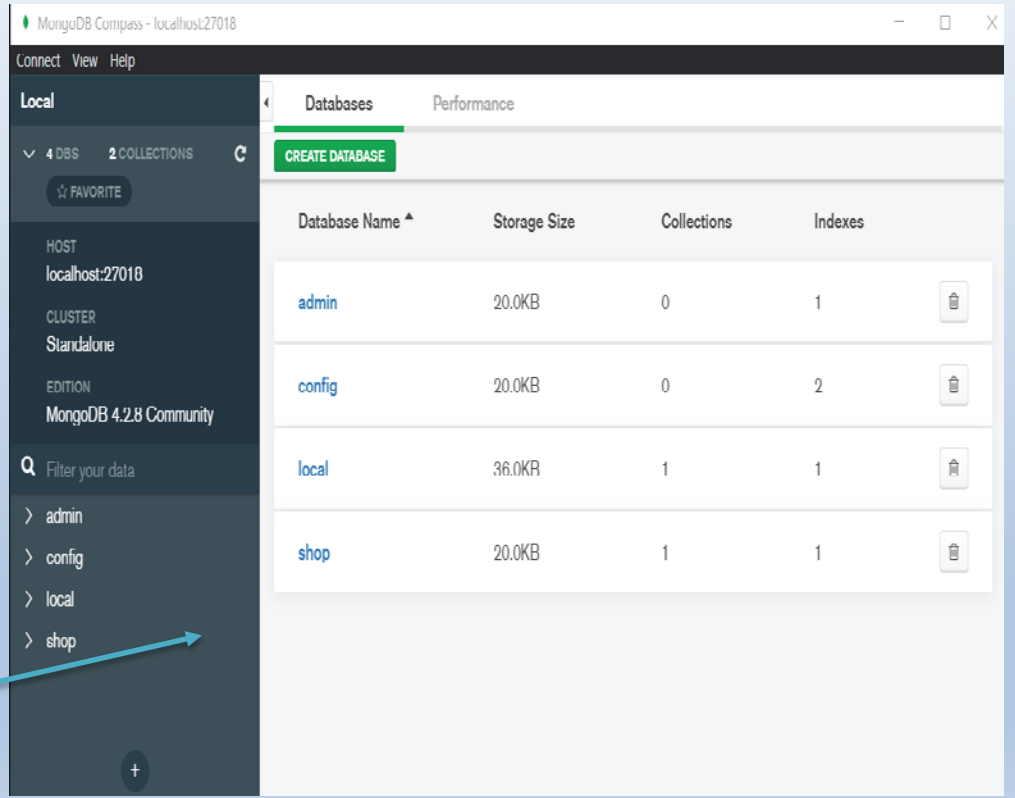




❖ Connect localhost between Shell and Compass.(Locally)

➢ MongoDB Compass





❖ Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.

➢ Mongo Shell

❖ Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.

➢ Mongo Shell

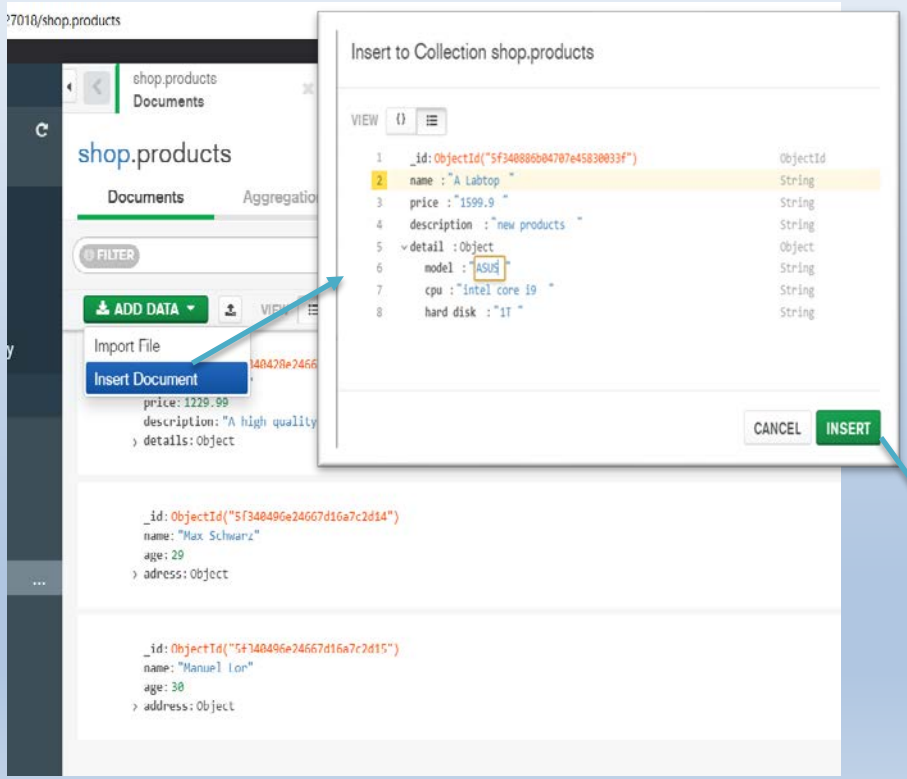
*MongoDB_Note.txt - Notepad

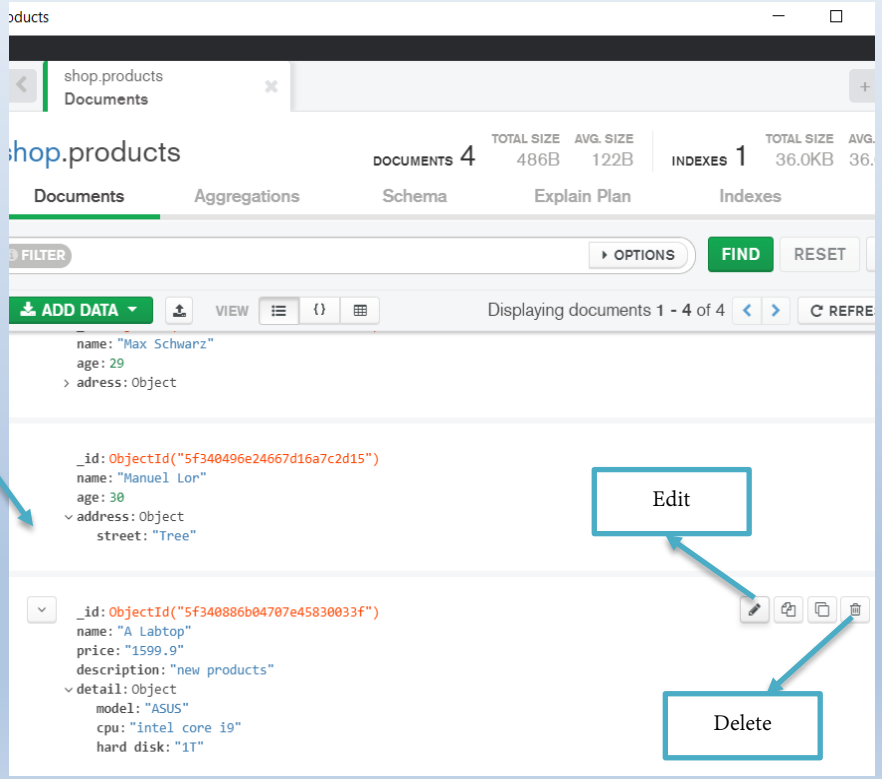
File Edit Format View Help

```
#Sample command in mongo shell:
> mongo
> show dbs
> use shop
> show collections
> db.products.insertOne({name: "A Computer", price: 1229.99, description: "A high quality computer.", details: {cpu: "Intel i7 8770", memory: 32}})
> db.products.find()
> db.products.find().pretty()
> cls
> mongod --help
> mongod --port 27018
> mongo --port 27018
> db.flightData.deleteOne({departureAirport: "TXL"})
> db.flightData.updateOne({distance: 12000}, {$set: {marker: "delete"}})
> db.flightData.updateMany({}, {$set: {marker: "toDelete"}})
> db.flightData.deleteMany({marker: "toDelete"})
> db.flightData.find({intercontinental: true}).pretty()
> db.flightData.find({distance: {$gt:10000}})
> db.flightData.updateOne({_id: ObjectId("5b97882ce6d2da95ae6406ab")}, {$set: {delayed: true}})
> db.passengers.find({}, {name: 1}).pretty()
> db.passengers.find({}, {name: 1, _id: 0}).pretty()
> db.flightData.updateMany({}, {$set: {status: {description: "on-time", lastUpdated: "1 hour ago", details: {responsible: "Max Schwarzmuller"}}}})
> db.passengers.updateOne({name: "Albert Twostone"}, {$set: {hobbies: ["sports", "cooking"]}})
> db.passengers.findOne({name: "Albert Twostone"}).hobbies
> db.passengers.findOne(hobbies: "sports"}).pretty()
> db.flightData.findOne({"status.description": "on-time"}).pretty()
> db.flightData.findOne({"status.details.responsible": "Max Schwarzmueller"}).pretty()
> db.companies.insertOne({name: "Fresh Apple Inc", isStartup: ture, employees: 33, funding: 12345678901234567890, details: {ceo: "Mark Super"}, tags: [{title: "super"}, {title: "perfect"}],
> db.stats()
> db.numbers.drop()
> db.patients.findOne().diseaseSummary
```

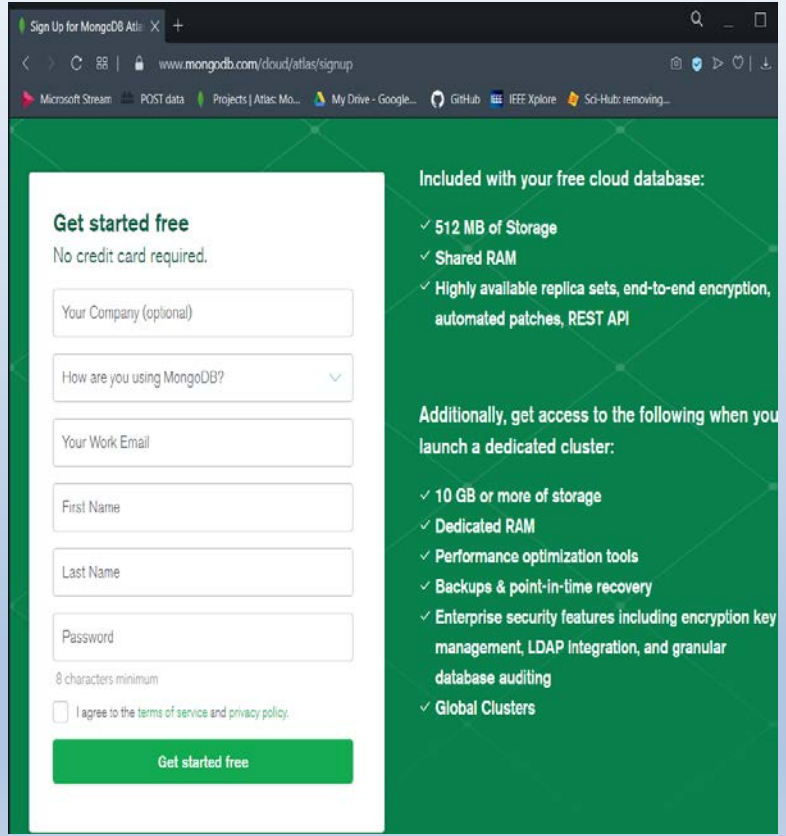
❖ Performing CRUD (Create, Read, Update, Delete) on Mongo Shell and MongoDB Compass.

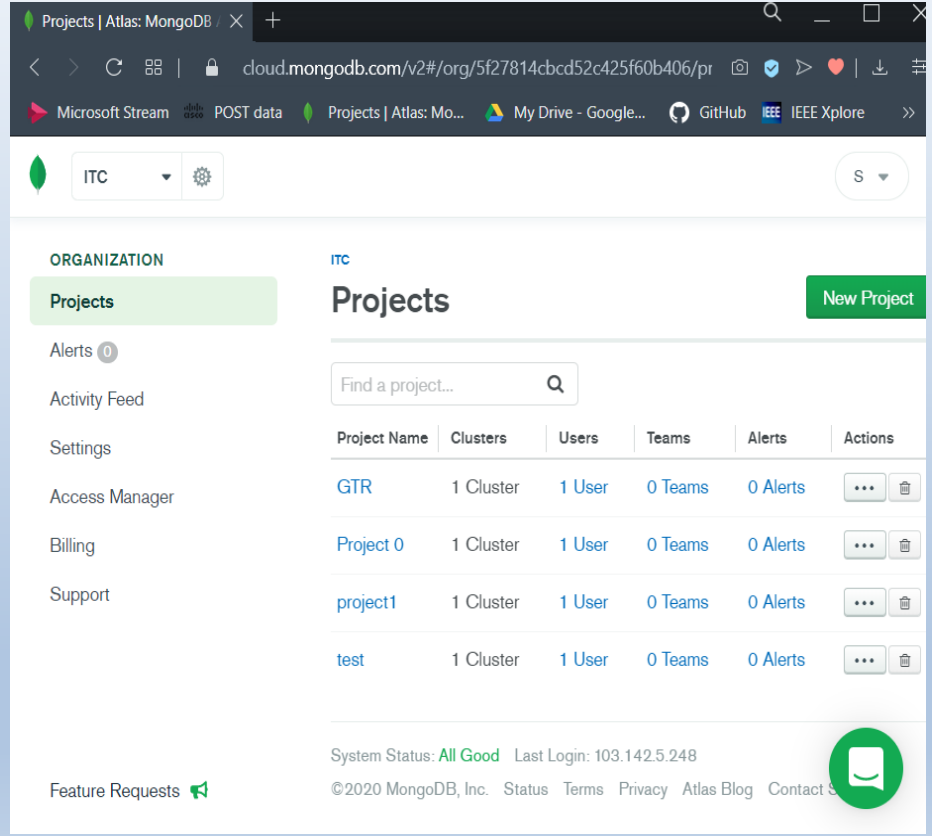
➢ MongoDB Compass





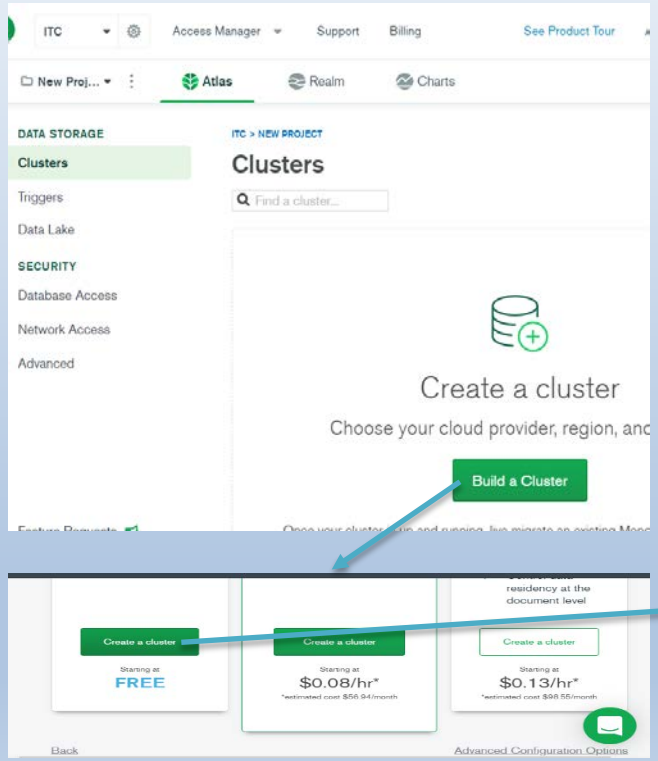
❖ Creating MongoDB Atlas account and Projects.

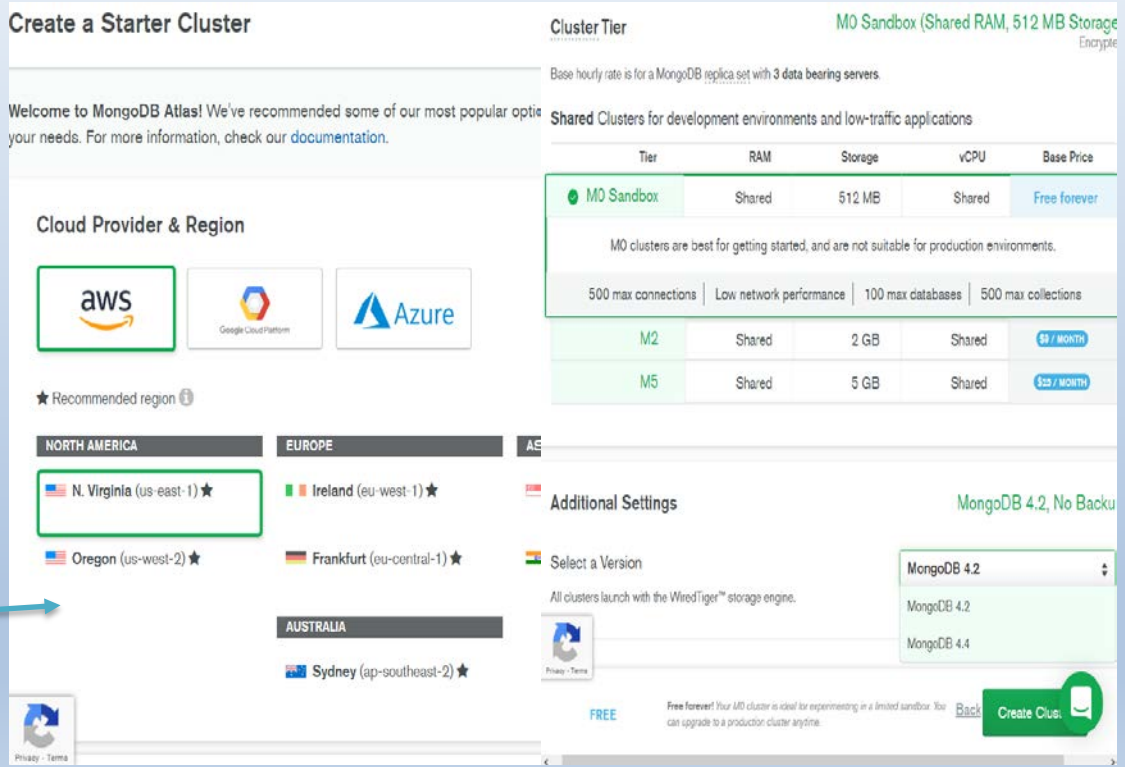




❖ Creating MongoDB Atlas account and Projects.

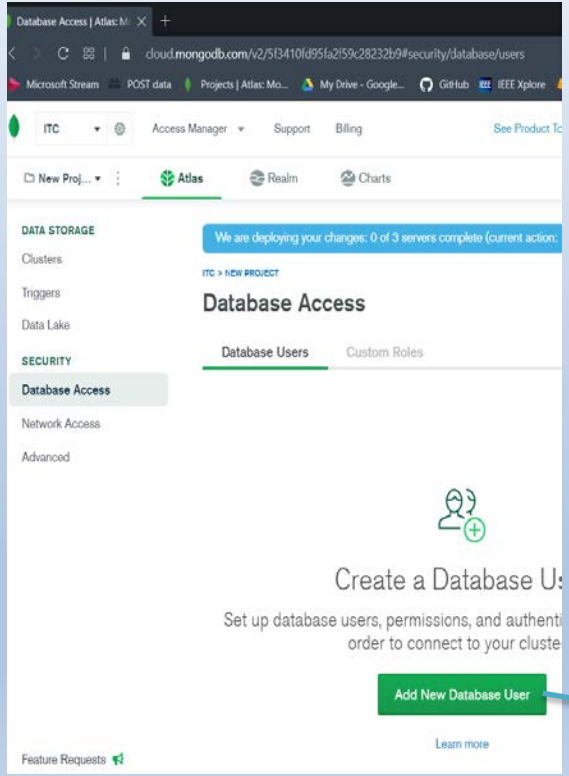
➢ Build Clusters

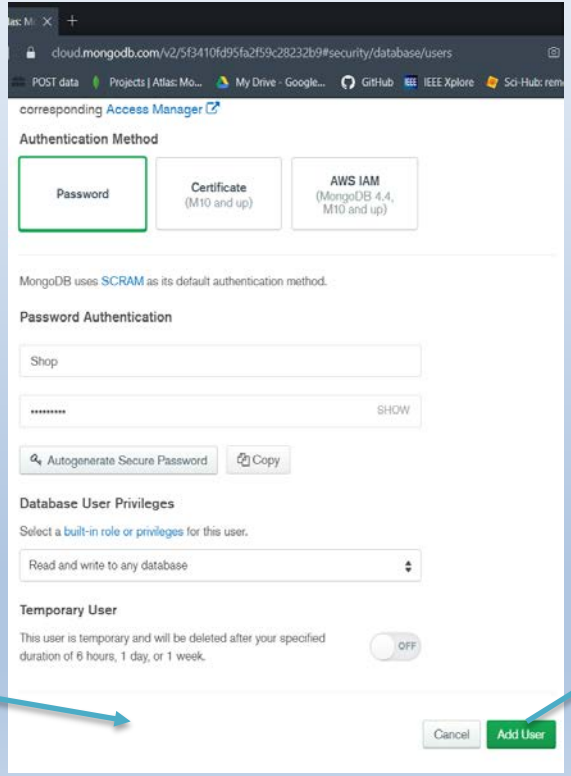


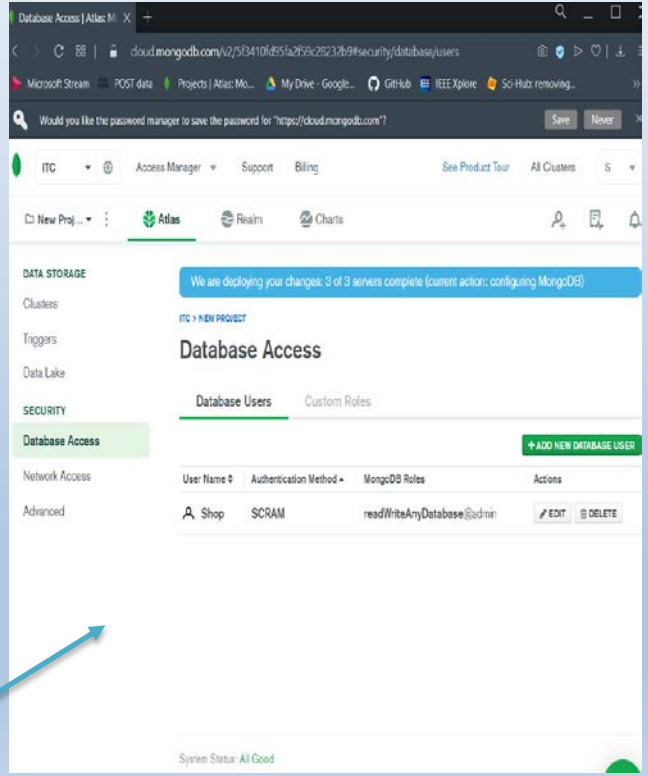


❖ Creating MongoDB Atlas account and Projects.

➢ Create Database User

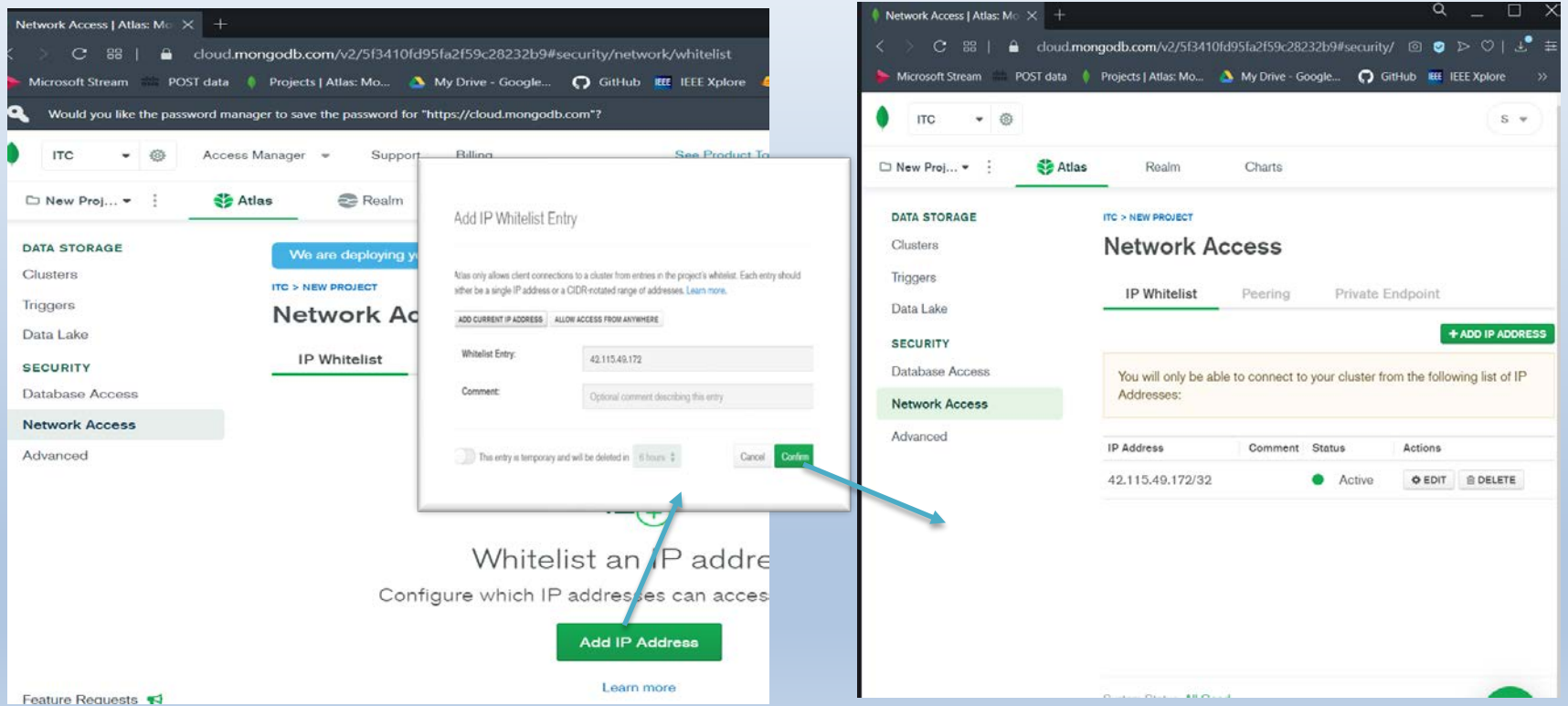




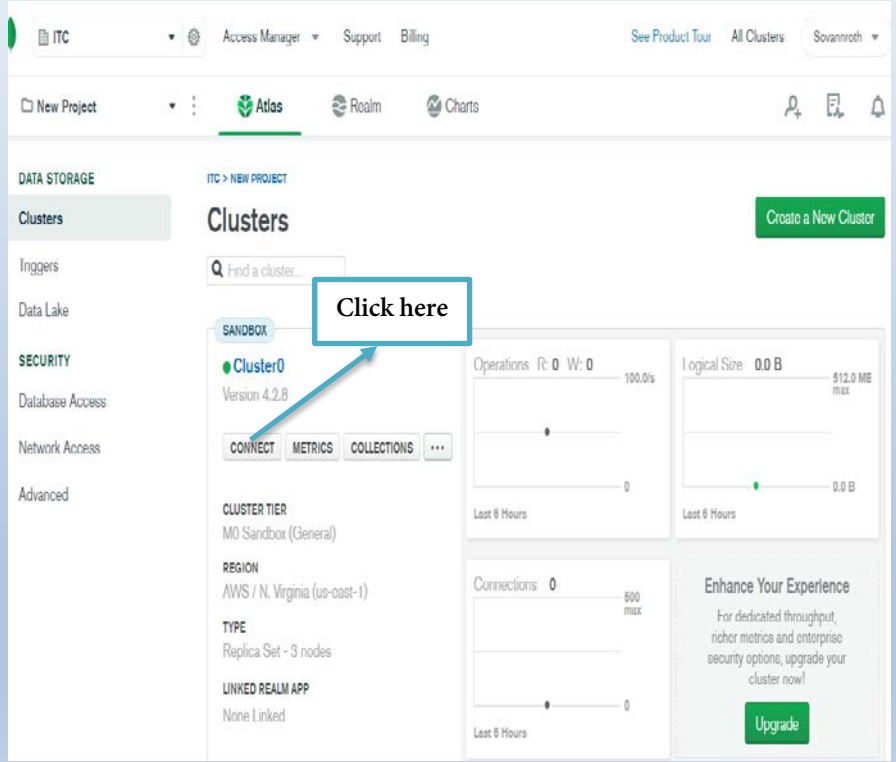


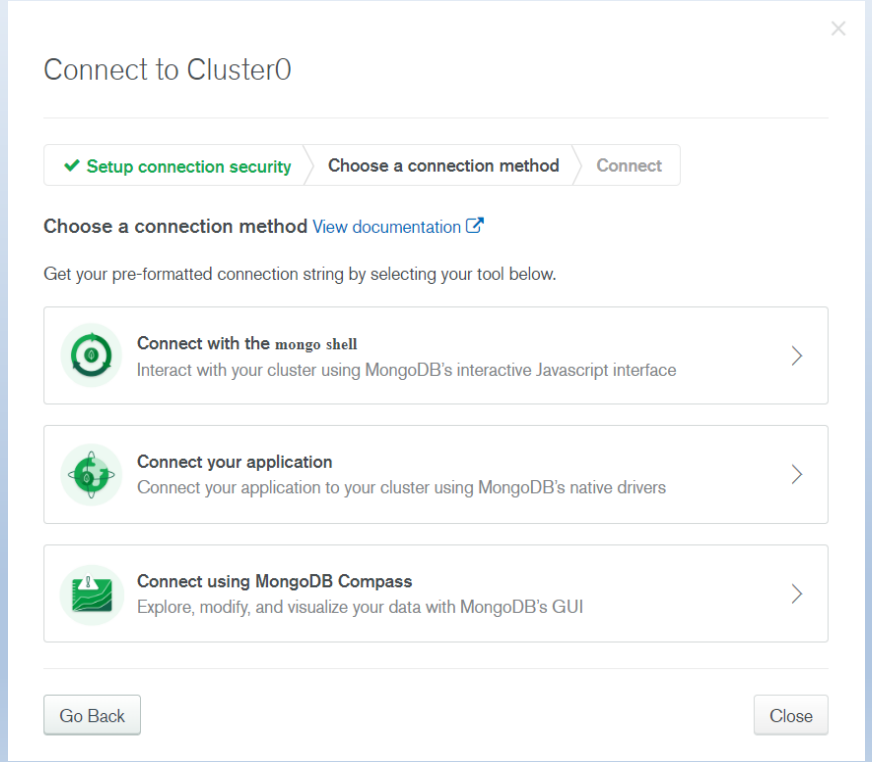
❖ Creating MongoDB Atlas account and Projects.

➢ Create IP address

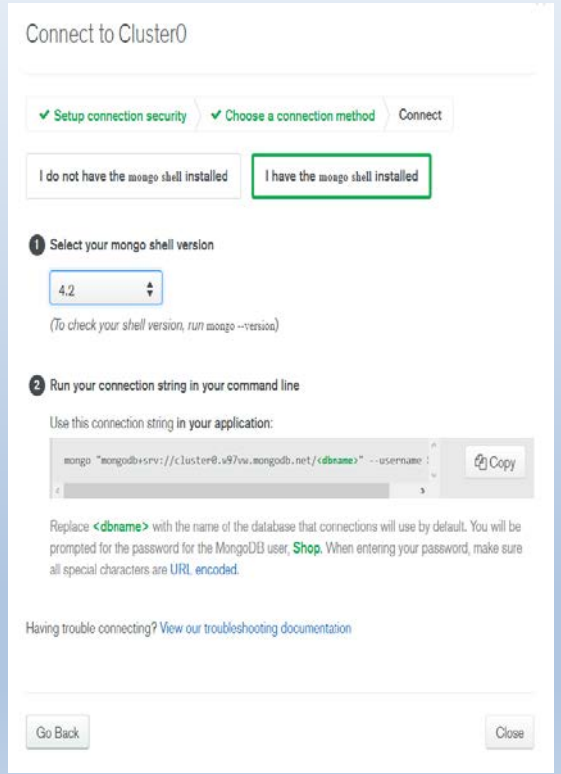


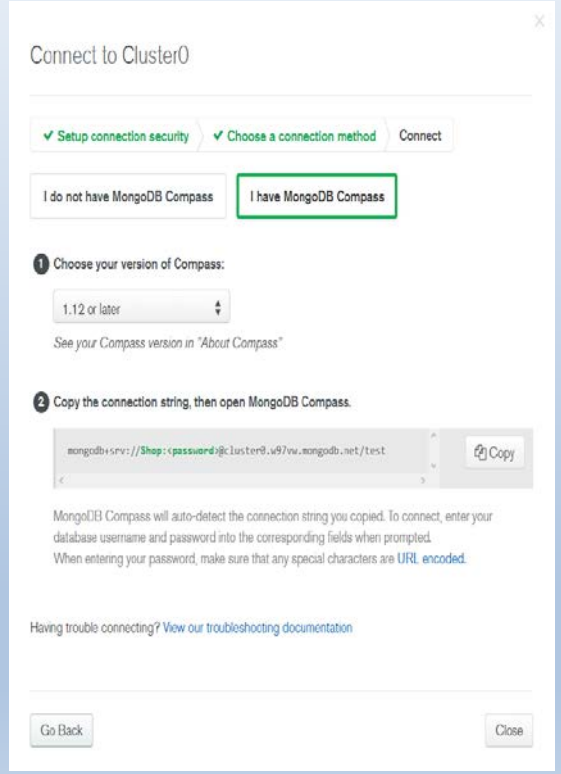
❖ Connect MongoDB Atlas to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)

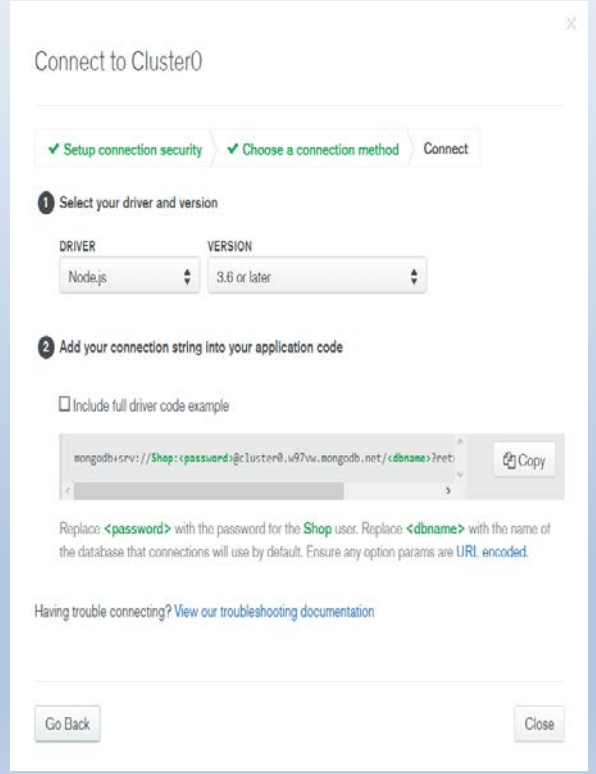




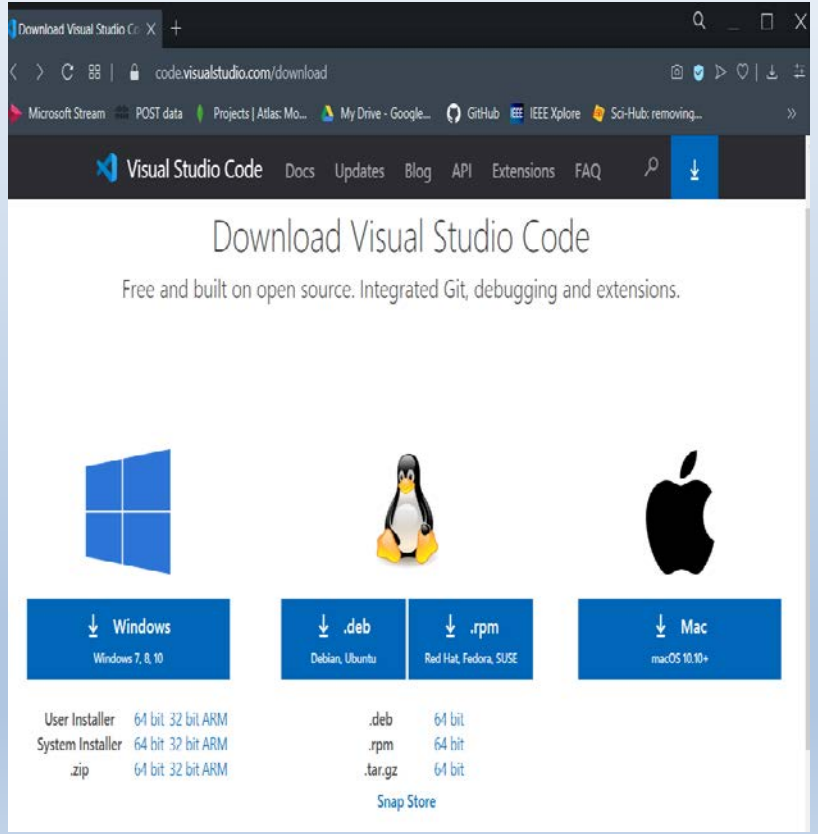
❖ Connect MongoDB Atlas to Mongo Shell or MongoDB Compass, and Driver (Node.js).(Cloud)

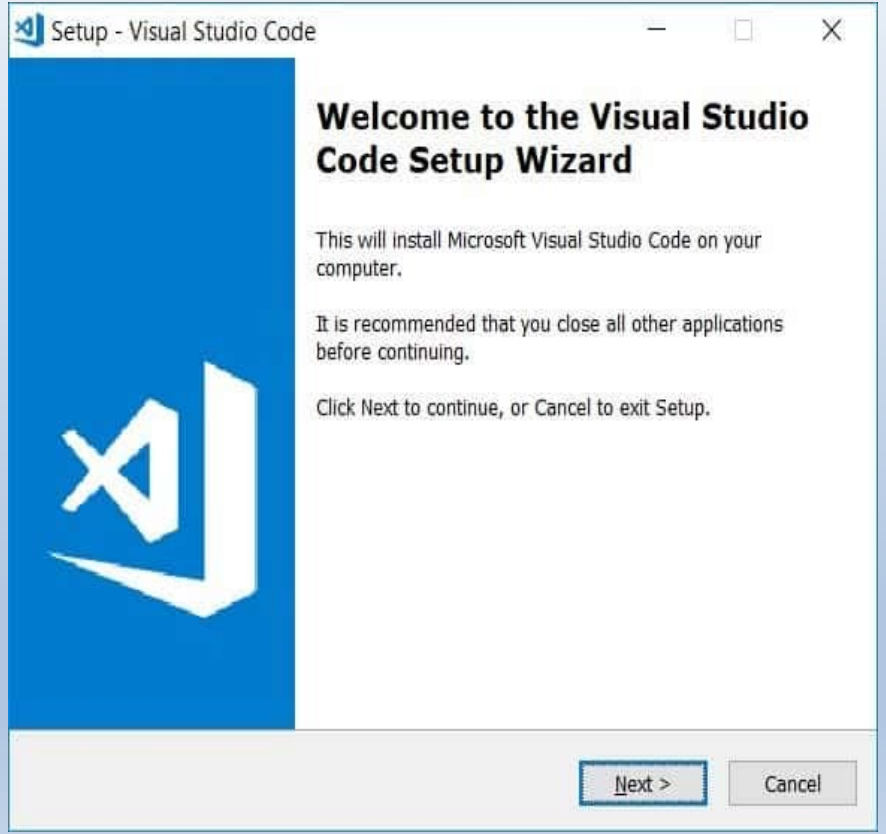




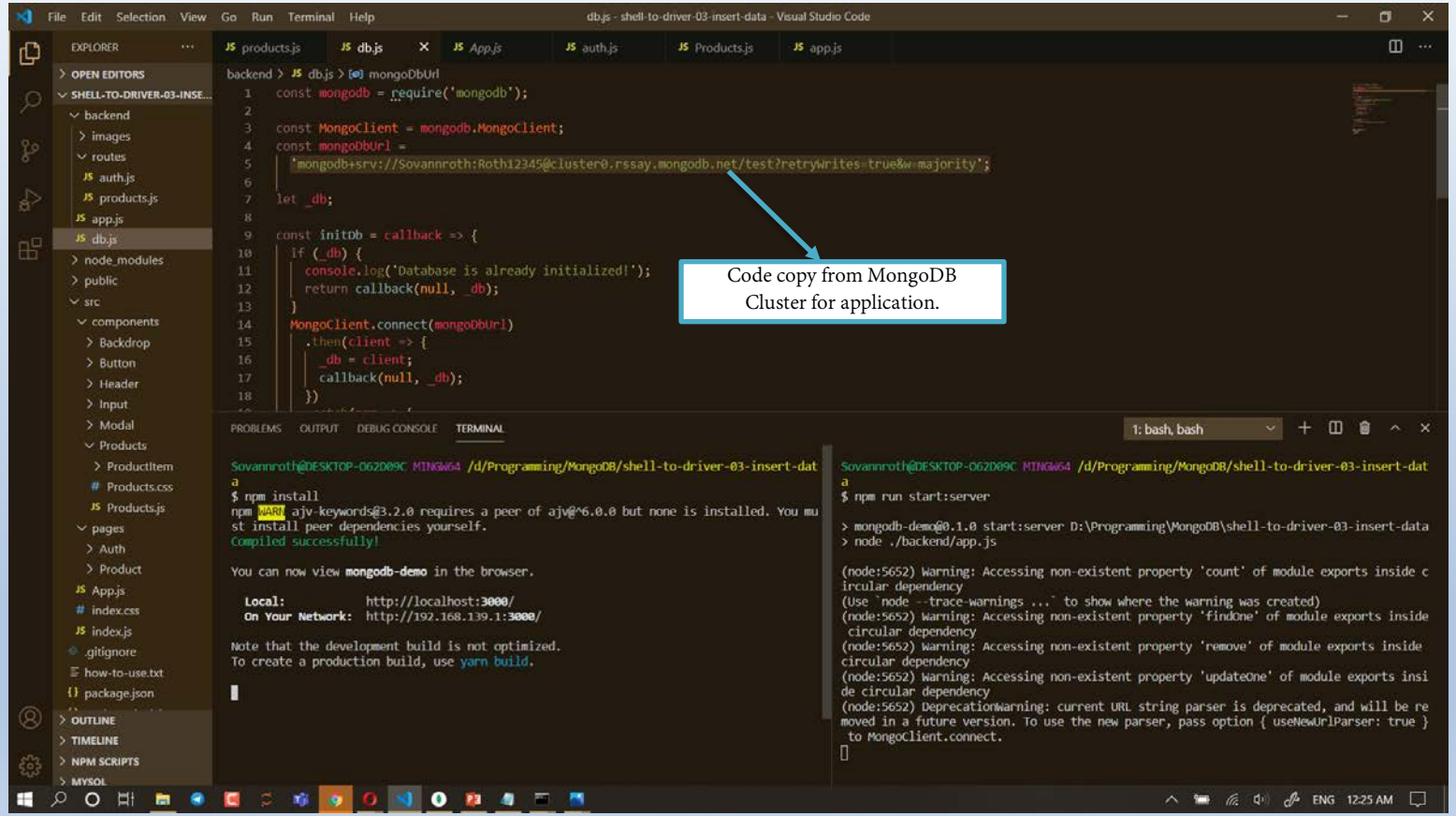


❖ Installation Visual Studio Code



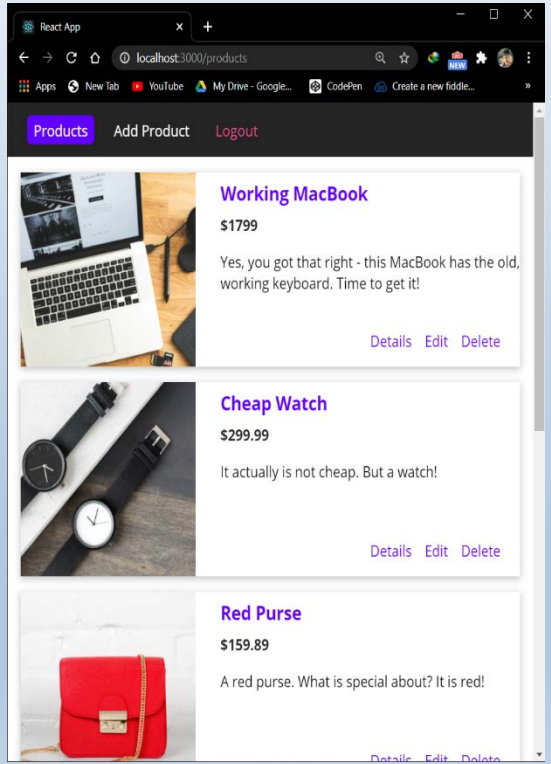


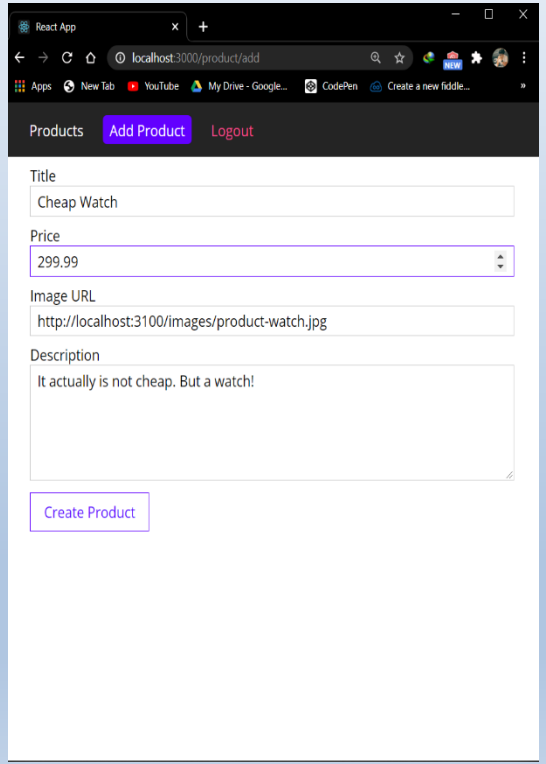
❖ Connecting Node.js to MongoDB Cluster. (Cloud)

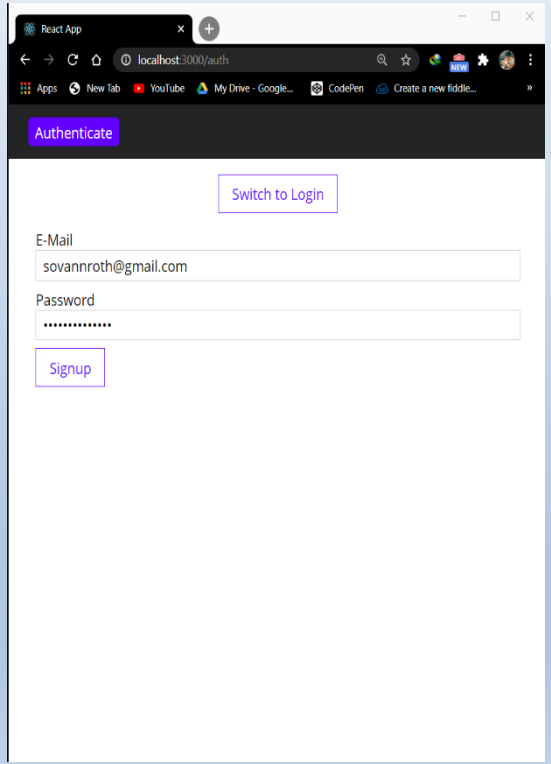


❖ Connecting sample Backend to MongoDB Cluster and storing Products in the Database.

➢ Sample Backend

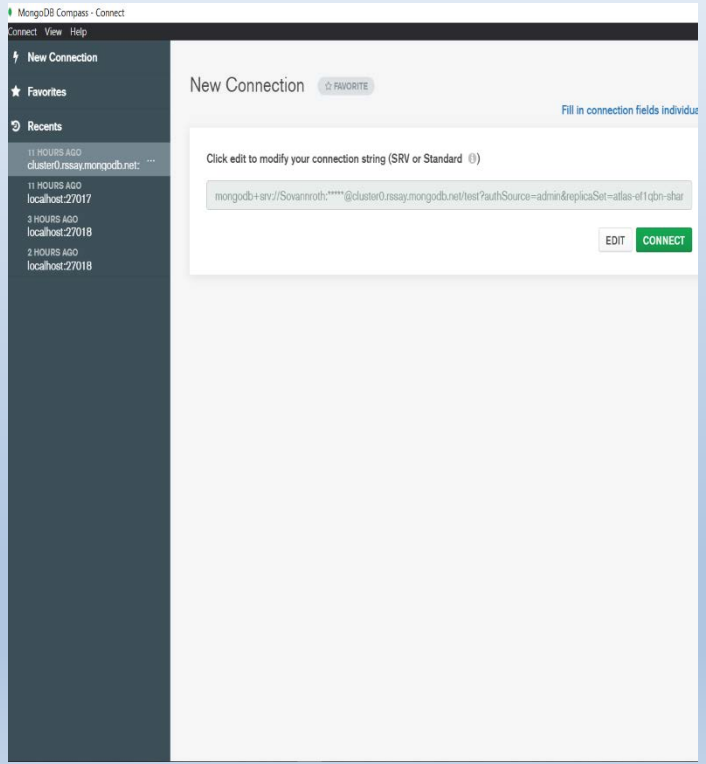


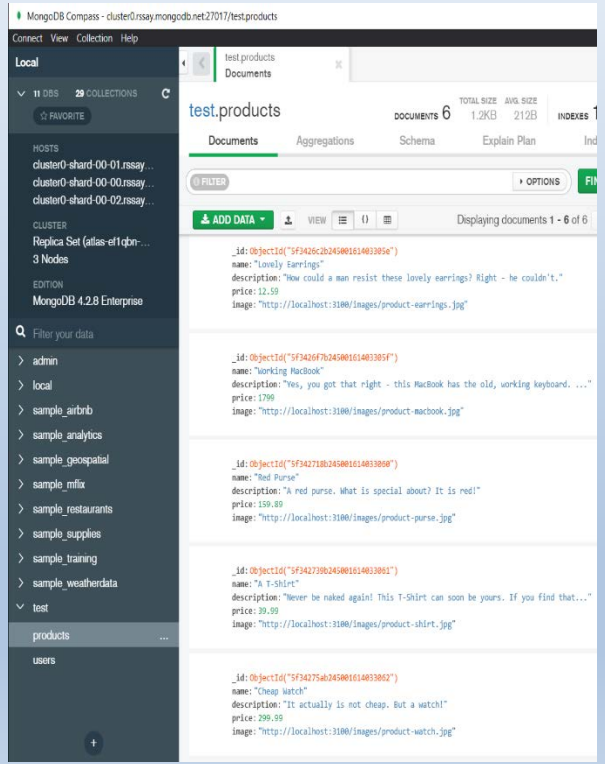


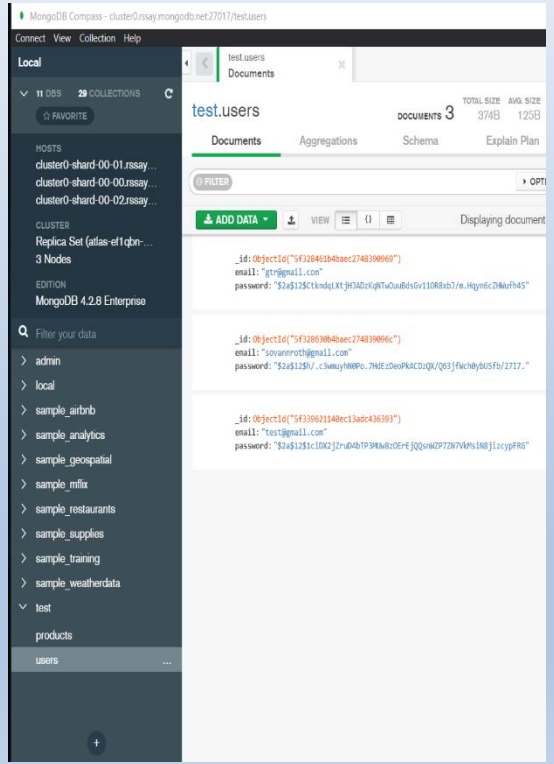


❖ Connecting sample Backend to MongoDB Cluster and storing Products in the Database.

➢ Storing products and users signup in the Database.







Thank You!