**Installation of MongoDb and Mongoose library**

* Download the mongodb from <https://www.mongodb.com/> ((need to install for windows 10 and 64 bit))
* Start mongod.exe 🡺 programFiles\MongoDb\server\3.6\bin\mongod.exe
* This will create new port on localhost ((localhost:27017))
* Create a directory where you want to create your project in the directory and install library using NPM 🡺 mkdir project

Cd project

npm init ((install npm((installing NPM means we are accessing all the libraries that we need in the project and that are save in package.json file)) in the project press enter till you getn (Is this Ok)))

npm install –save mocha ((mocha is a testing framework that we need to connect to the mongo))) nodemon mongoose ((these are the libraries we need))

* create two directory inside your project folder named **src** and **test**
* in test create a file **test\_helper.js**
* write code 🡺 const mongoose = require(‘mongoose’); 🡪 ((this is to import the mongoose library))
  + - mongoose.connect(‘mpngodb://localhost/project\_name’);
    - mongoose.connection
    - .once(‘open’,()=> console.log(“good to go”)
    - .on(‘error’,(error)=>{console.warn(“warning”, error);
    - });
* Run test\_helper.js file in cmd => node test/test\_helper.js
* In src create a file **user.js**
* Write code 🡺 const mongoose = require(‘mongoose’); ((import mongoose library))
  + - const Schema = mongoose.Schema; ((create a schema using the schema property of mongoose))
    - const UserSchema = new Schema({ name: string}); ((this is the schema inside the user Model))
    - const User =mongoose.model(‘user’, UserSchema); ((this is the **user** Model with **UserSchema** schema))
    - module.exports = User ((this is how we export User model to others who wants to have access the Model))

**Mocha testing framework**

* create a test file named **create.js ((**this is to test the user schema we created inside the src directory and to check if we are successful running the user.js file))
  + write code 🡺 const assert = require(‘assert’); ((((this is import from library which is here to check if the line is correct or not and according to that it will run the line))))
    - * const User = require(‘path of the user file where this User model is saved’)
      * describe(‘creating record’, ()=>{
      * it(‘saves a user’, ()=>{
      * const joe = new User({ name: ‘Joe’}); (((this is here we are creating a instance of User named joe so we can apply the functionalities of User “class” to it )))
      * });
      * });

**Notes from book :**

* Use a different database or create a new database 🡺 use databaseName
* Add a collection inside the database 🡺 go to the database 🡺 db.collectionName
* Create a document 🡺 documentName = {“title” : ”book”, ”content”: 10, “comment”: [“hello”,”world”,1]}
* To insert the document in the database 🡺 db.collectionName.insert(documentName)
* To find all the document inside a database 🡺 db. collectionName.find()
* To drop a database 🡺 go to the database using **use** command 🡺 db.dropDatabase()
* To delete the a single document from database 🡺 db. collectionName.remove(dacumentName)
* To delete the entire documents from the database 🡺 db. collectionName.remove({})
* To update the document inside a database🡺create a document that you want to replace by🡺 db. collectionName.update({title: “book”} , documentName)
* To connect to the remote database using the mongo Shell 🡺 mongo hostname:portNumber /databaseName ((or)) => mongo -nodb => conn = new Mongo(“localhost:27017”)=> db = conn.getDB(“databaseName”)
* Show all the databases on the server 🡺show dbs