**Day 10: 28 Sep. 25**

**mongoose :** Mongoose is another third party modules which use to connect mongo db database using node or express JS. Mongoose is base upon ODM (Object Data Modelling). Mongoose support features as schema (collection name, attribute name, data types inside that attribute), to do this type of work we use **model** concept. Model concept link to collection in mongo db. It support validation concept (field data types).

**Model view controller: is a type of design pattern or architecture**

Creating rest api for product with mongoose module with standard (MVC style project).

Create folder with name as **product-rest-api-using-mongoose**

**npm init -y** package.json

**npm install express mongoose dotenv**

express : to create rest api

mongoose: to connect mongo db database using ODM concept.

dotenv : load resource details form .env file

config -🡪 folder

**dbConfig.js** : this file provide us database configuration details.

model🡪 folder

**productModel.js:** This file provide the structure for collection ie schema means collection name, attribute name and their data types with validation (if required).

repository 🡪 folder or dao (data access object)

**productRepository.js :** this file contains set of function which contains pure database logic using mongodb or mongoose. This file import or require means load the productModel file and do the operation on that collection as store, delete, update and retrieve etc

controller 🡪 folder which contains pure express js code

**productController.js :** : this file contains all rest api method means which takes request and response as parameter and pass this information to repository layer and base upon repository layer acknowledgment it return response to view technologies in json or text format.

**router** : 🡪 folder contains routing details

productRouter.js : this file provide path or sub path as well http method details like post, put, delete and get etc. this provide providing routing details.

**app.js or main.js or sever.js**

this file main file or entry of the application.

Which load express module ,middleware module, provide the main path, link to routing file and port number details.

**.env** : this file contains all configuration details

PORT

MONGO\_DB\_URL



Node js external module ie **nodemon.**

this module we need to install externally.

**npm install -g nodemon**

after installation. In place of

**node filename.js**. you need to run

**nodemon filename.js (if we run application using nodemon whenever we do any changes in this file automatically project get re-fresh. No need to stop and re-run).**