

**CB.EN.U4CSE19458**

**S. PRANAV ADITH**

### **Lab-3**

**URL of the developed application in internet:**

**<https://github.com/pranavadith7/On-Time-Pharmacy>**

**Application Name:**

## **Pharmacy Management System**

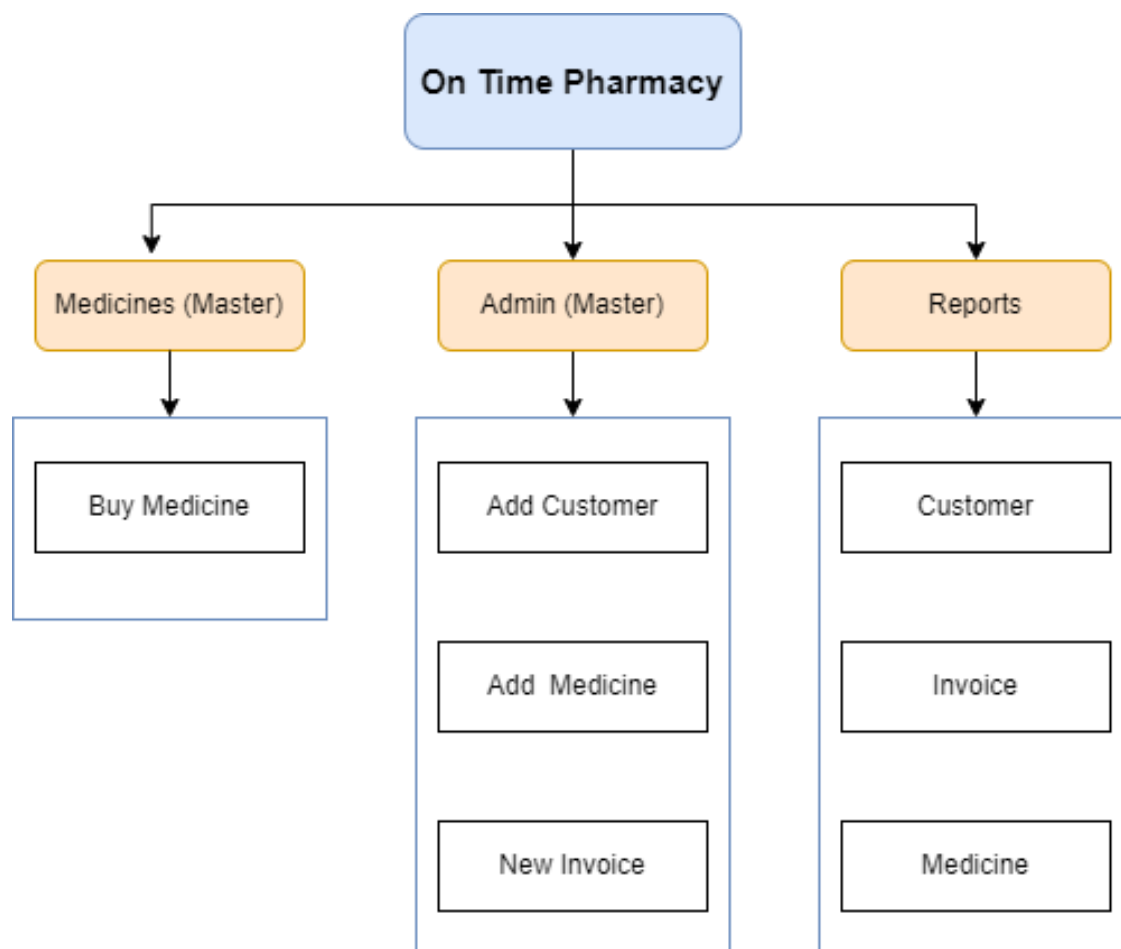
**About the application in a paragraph:**

Pharmacy management has been built to manage the medicine stock, especially those usually on the most demanded list for every customer. Moreover, also make sure to record bills, refill, and remove the expired ones. Pharmacare transforms all works, like administrative finance and overall operations, into one system.

**Modules in the application:**

- **Add / Update / Delete Customer**
- **Add / Update / Delete Medicine**
- **Add Invoice**
- **Add Supplier**
- **Add medicine stock**
- **Add purchase**
- **Contact**
- **Login / Sign-Up**

**Provide a work Break Down Diagram for the application:**



**Write in your own words how the application has used Mean Stack Development**

The application is developed in AngularJS for the front end and the back end is done in NodeJS. Express JS is used on top of Node JS. Data is stored in the database using the MongoDB Compass which is a local storage for MongoDB.

**List of technologies/languages/framework/library used with purpose and version**

technologies/languages/framework/library	Purpose
HTML/CSS/JS	Front End
AngularJS	Frontend
ExpressJS	Server, routing
NodeJS	Back end (16.14.2)
MongoDB	Database (6)

Cors	For allowing requests
Mongoose	Module to store and retrieve in mongodb

**Write in your own words how the following concepts have been used in your application:**

HTML 5	Skeleton
CSS	Styling the web page
Angular JS	Frontend
Node JS	Backend
Express JS	Connect frontend and backend
XML	Used to store information regarding invoice
XML DTD	Used to provide the type of data in xml
XML Schema	Defines the structure of the xml
JSON	Used to store information regarding invoice
MongoDB	Used to store the data in local storage

Number of Forms	8
Number of XML files	2
What is unique in your application?	Individual discounts can be given to products Existing customers can buy products by just giving their name as the information is already existing in the database
Form Names for Evaluating the concepts of AngularJS,NodeJS,ExpressJS	New_customer New_invoice
Tables for Evaluating the MongoDB concepts	Customers invoices

Explanation of content in the Document in above headings : 5 Marks

For the following tables refer the concepts provided for learning from internet resources and fill the table

Weightage : 5 Marks

Concept used from HTML5	File Name	Additional Information
<img>	Index.html	
<a>	Index.html	
<input>	Add_customer.html	
<i>	Add_customer.html	

Weightage : 10 Marks

Concept used from XML	File Name	Additional Information
#PCDATA	Problem.xml	
#ID	Problem.xml	
#PCDATA	testcase.xml	
#PCDATA	user.xml	

Weightage : 10 Marks

Concept used from JavaScript	File Name	Additional Information
Fetch	App.js	Sends and receive api request
Loops	Controller.js	To render responses
Change	submitProblem.html	To trigger after change
keyup	submitProblem.html	To trigger after change
Onsubmit	submitProblem.html	To submit the form
Map	Controller.js	To map the function
Concept used from JSON	File Name	Additional Information
Data	Controller.js	Get json data
Array	Controller.js	Get json array
Object	Controller.js	Get json object
stringify	Controller.js	Convert to string
parse	Controller.js	Parse json string

**Weightage : 20 Marks**

Concepts used from Angular JS	File Name	Additional Information
\$scope	Controller.js, app.js	Scope variable
\$http	Controller.js, app.js	Used for api requests
\$locationroute	Controller.js, app.js	Sets the location
\$routeParams	Controller.js, app.js	Get the parameter value
Window.location	Controller.js, app.js	Redirects the location
Ng-if	All html files	Conditional rendering
Ng-repeat	All html files	Loop over array
\$resource	Services.js	To handle api requests

**Weightage : 20 Marks**

Concepts used from NodeJS	File Name	Additional Information
Axios	Route.js	
Router	All route.js	
Process.env	Server.js	Loads environment variables
Require	All js files	Import js
Exports	All js files	Exports modules
Passport.js	Auth.js	To handle authentication

**Weightage : 20 Marks**

Concepts used from ExpressJS	File Name	Additional Information
App	Server.js	Initiates app
Listen	Server.js	Starts server on port
Express router	All js files	For routing
Get	all route files	Used to get request
Post	All route files	Used to post request
Put	All route files	Used to update data
Static	Server.js	Used to serve static files

**Weightage : 10 Marks**

<b>Concepts used from MongoDB</b>	<b>File Name</b>	<b>Additional Information</b>
Schema	All .model.js files	
String	All .model.js files	String constraint
Enum	All .model.js files	Values should be one of the specified enums
Number	All .model.js files	Number constraint
unique	All .model.js files	To set unique fields

**Provide five features that can be added to application in future:**

1. Buy medicines based on category
2. Suggestions on products bought
3. Recommending medicines