Project Title: Diagnostic Medicare Center Manager.

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Objectives:

Below are the objectives that shall be fulfilled post the execution of this project:

Diagnostic Medicare Center Management system will create and maintain Customer and Doctor Information.

- Create and maintain customer and doctor information.
- Search for the Medicare services.
- Customer applies for the Health Checkup.
- Customer can search for agent.
- Customer/Doctor will view the result.

Technologies:

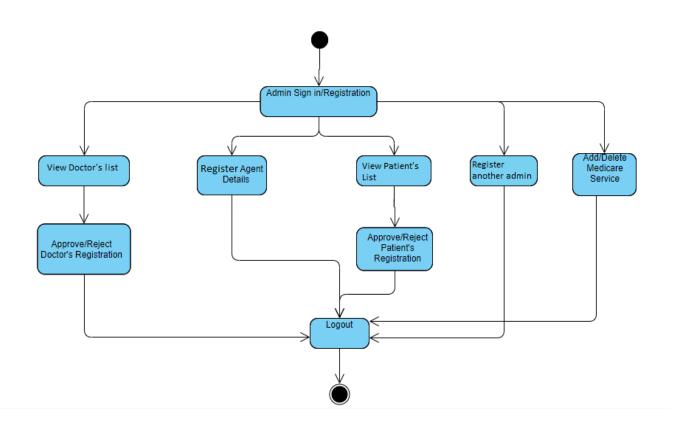
Front End	Java (HTML5,CSS3, JavaScript, Angular)	
Middleware	Java (Spring Data JPA, Spring MVC, Spring Boot, Hibernate,	
	JWT)	
Backend	SQL	

Hardware and Software Requirements:

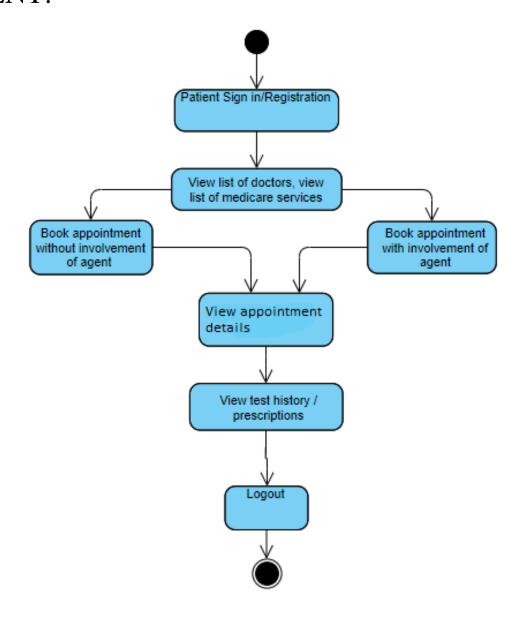
Technology	Hardware	Software
Java 1.8	Desktop PC with	1. Visual Studio Code 1.30
Angular 6	8GB RAM	2. Eclipse IDE f or Java EE Developers
Maven 3.6.0		(Oxygen)
Spring		3. Tomcat 8.5
Hibernate		4. MySQL Workbench 8.0.14
		5. Postman
		6. NodeJS 10

SYSTEM FLOW:

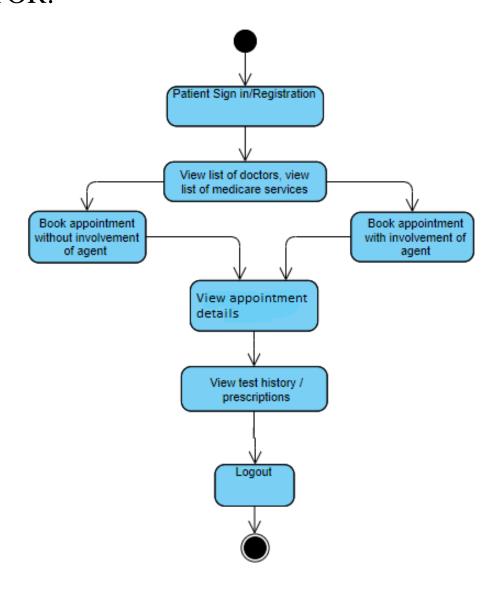
ADMIN:



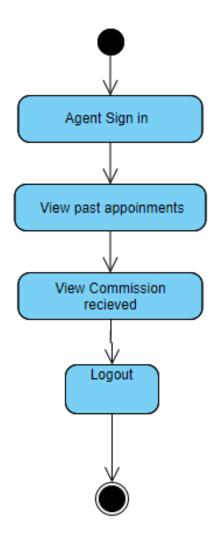
PATIENT:



DOCTOR:



AGENT:



ER DIAGRAM:

Please refer the attached document in the mail for ER Diagram.

BUSINESS REQUIREMENTS:

Note - Primary focus is to complete developing the critical requirements (highlighted in Yellow) and then to proceed with the remaining requirements.

US: User Stories.

REQ: Requirements/sub-tasks.

User Story ID	User Story Description	Sub tasks details.	Dependency of User Story
US_1	The objective of this requirement is to allow the user to Register/ login as Customer	ID SHORT DESCRIPTION REQ_1 Initial Selection: Ability of the system to allow to Customer to choose Admin/Customer/ Doctor Login/Registration	No dependency
	/ Doctor / Admin / Agent	REQ_2 Customer Registration: Ability of the system to procure the fundamental details of the Customer REQ_3 Customer Registration: Customer Authentication: Ability of the system to authenticate the Customer	
		credentials of the registered Customer Doctor Registration Ability of the system to procure the fundamental details of the Doctor REQ_5 Doctor Authentication:	
		Ability of the system to authenticate the Doctor credentials of the registered Doctor REQ_6 Agent Registration: Ability of the system to procure the fundamental details of the Agent	
		REQ_7 Agent Authentication: Ability of the system to authenticate the Agent credentials of the registered Agent REQ_8 Admin Registration:	
		Ability of the system to procure the fundamental details of the Admin REQ_9 Admin Authentication: Ability of the system to authenticate the credentials of the registered Admin	
US_2	The objective of this requirement is to allow doctor to update the Medicare service Details	REQ_10 Add / Update Medicare Service Details: Ability of the system to allow doctor to add / update the Medicare service Details	Has a dependency with FS_1

US_3	The objective of	ID	SHORT DESCRIPTION	Has a
- -	this requirement is to allow Admin to update Agent Details		Update Agent details: Ability of the system to allow Admin to update Agent Details	dependency with FS_1
	Domins			
US_4	The objective of this requirement is to allow the customer to have the list Medicare service / Doctor / Agent details displayed.	ID REQ_12	View Medicare Service/ Doctor details: Ability of the system to list Medicare service / Doctor details to the Customer / Agent.	Has a dependency with FS_1, FS_2, FS_3
US_5	The objective of this requirement is to allow Customer to raise Checkup request	REQ_14 REQ_15	Book appointment: Ability of the system to allow Customer / agent to book appointment Approval / Denial for appointment: Ability of the system to allow Doctor / Admin to approve / deny the View Appointment status: Ability of the system to allow Customer / agent to view appointment status.	Has a dependency with FS_1, FS_2, FS_3, FS_4
HG 6		REQ_16	Send remainders: Ability of the system to send remainder messages to Doctor / Patient upon the Appointment approval.	
US_6	The objective of this requirement is to allow the Doctor to update the Test result and treatment	REQ_19	Add / Update Medicare Service Details: Ability of the system to allow doctor to add / update the Medicare service Details Update Treatment / prescription details: Ability of the system to allow Doctor to update	Has a dependency with FS_1, FS_5
LIC 7	history	REQ_20	Treatment / prescription details Maintain treatment history: Ability of the system to allow doctor to maintain the treatment history of the patient	H
US_7	The objective of this requirement is to allow customer / doctor to view the updated test result, treatment history	REQ_18 REQ_21	View Test Result: Ability of the system to allow customer / doctor to view the updated test result. View treatment history: Ability of the system to allow patient to view the treatment history	Has a dependency with FS_1, FS_5

US_8	The objective of this requirement is to allow customer to chat with doctor	ID REQ_22	SHORT DESCRIPTION Chat with Doctors: Ability of the system to allow Patients to chat with Doctors	Has a dependency with FS_1, FS_5
US_9	The objective of this requirement is to allow customer to get technical help	ID REQ_23	Help: Page to assist the Customers to report technical issues	Has a dependency with FS_1
US_10	The objective of this requirement is to allow customer to get other validations like forget user id, password	ID REQ_24	SHORT DESCRIPTION Other validations: Ability of the system to allow add on validations like Forget Customer ID, Forget Password	Has a dependency with FS_1
US_11	The objective of this requirement is to allow customer to provide reviews, admin to update review questions, system to trigger for review	ID REQ_25 REQ_26 REQ_27	Reviews: Ability of the system to allow the Customer to provide feedback / reviews for Doctor / Service Review Questionnaire: Ability of the system to allow admin to create review questionnaire for the Doctor / Service Trigger Review: For an appointment, once the treatment / follow up is completed, on the next log trigger message to the Customer for Review.	Has a dependency with FS_1, FS_5
US_12	The objective of this requirement is to allow system to calculate Agent commission, agent to view commission and admin to update commission	ID REQ_28 REQ_29 REQ_30	SHORT DESCRIPTION	Has a dependency with FS_1, FS_5
US_13	The objective of this requirement is to allow admin to pull report	ID REQ_31	SHORT DESCRIPTION Admin reporting: Ability of the system to pull report for any service, agent, doctor.	Has a dependency with FS_1, FS_5

US_14	The objective of	ID	SHORT DESCRIPTION	Has a
	this requirement	REQ_32	Customer / Admin logoff:	dependency
	is to allow the		Ability of the system to enable Customer /	with FS_1
	user to Log off		Admin to logoff	
	upon completion			
	of the required			
	activity			

DATABASE DESIGN:

Table 1

Patient / User

Field Name	Field Type	Data Type	Mandatory	Possible Values
Patient /	Text(10)	Alphabetic	Yes	System
User ID				Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male,
				Female
DoB	Text(10)	Alphanumeric	No	
Contact	Text(10)	Numeric	Yes	
Number				
Alt Contact	Text(10)	Numeric	No	
Number				
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	
Address	Text(100)	Alphanumeric	Yes	
Line 1				
Address	Text(100)	Alphabetic	No	
Line 2				
City	Text(50)	Alphabetic	Yes	
State	Text(50)	Alphabetic	Yes	
Zip Code	Text(10)	Numeric	Yes	

Table 2

Doctor

Field Name	Field Type	Data Type	Mandatory	Possible
				Values
Doctor ID	Text(10)	Alphabetic	Yes	System
				Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male,
				Female
DoB	Text(10)	Alphanumeric	No	
Contact	Text(10)	Numeric	Yes	
Number				
Alt Contact	Text(10)	Numeric	No	
Number				
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	
Address Line 1	Text(100)	Alphanumeric	Yes	
Address Line 2	Text(100)	Alphabetic	No	
City	Text(50)	Alphabetic	Yes	
State	Text(50)	Alphabetic	Yes	
Zip Code	Text(10)	Numeric	Yes	
Degree	Text(50)	Alphabetic	Yes	
Specialty	Text(50)	Alphabetic	Yes	
Work hours	Drop down	NA	Yes	
Hospital/Clinic	Text(100)	Alphanumeric	Yes	
Name		_		
Medicare	Numeric(10)	Numeric	Yes	System
Service ID				Generated

Table 3

Admin

Field Name	Field Type	Data Type	Mandatory	Possible Values
Admin ID	Text(10)	Alphabetic	Yes	System
				Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male,
				Female
DoB	Text(10)	Alphanumeric	Yes	_

Contact	Text(10)	Numeric	Yes	
Number				
Alt Contact	Text(10)	Numeric	No	
Number				
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	

Table 4

Medicare services

Field Name	Field Type	Data Type	Mandatory	Possible Values
Medicare	Numeric(10)	Numeric	Yes	System
Service ID				Generated
Medicare	Text 50	Alphabetic	Yes	
Service				
Service	Text(200)	Alphabetic	Yes	
Description				
Amount	Numeric(10)	Numeric	Yes	

Table 5

Agent

Field Name	Field Type	Data Type	Mandatory	Possible Values
Agent ID	Text(10)	Alphabetic	Yes	System
				Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male,
				Female
DoB	Text(10)	Alphanumeric	No	
Contact	Text(10)	Numeric	Yes	
Number				
Alt Contact	Text(10)	Numeric	No	
Number				
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	
Address	Text(100)	Alphanumeric	Yes	
Line 1				

Address	Text(100)	Alphabetic	Yes	
Line 1				
City	Text(50)	Alphabetic	Yes	
State	Text(50)	Alphabetic	Yes	
Zip Code	Text(10)	Numeric	Yes	

Table 6
Medical Test History

Field Name	Field Type	Data Type	Mandatory	Possible
				Values
Report ID	Numeric(10)	Numeric	Yes	System
				Generated
Customer	Text(10)	Alphabetic	Yes	System
ID				Generated
Doctor ID	Text(10)	Alphabetic	Yes	System
				Generated
Medicare	Numeric(10)	Numeric	Yes	System
Service ID				Generated
Agent ID	Text(10)	Alphabetic	Yes	System
				Generated
Service date	Text(10)	Alphanumeric	Yes	
Test Result	Text(10)	Alphanumeric	Yes	
date				
Diag 1 –	Numeric(10)	Numeric	Yes	
Actual				
Value				
Diag 1 –	Numeric(10)	Numeric	Yes	
Normal				
Range				
Diag 2 –	Numeric(10)	Numeric	No	
Actual				
Value				
Diag 2 –	Numeric(10)	Numeric	No	
Normal				
Range				
Diag 3 –	Numeric(10)	Numeric	No	
Actual				
Value				
Diag 3 –	Numeric(10)	Numeric	No	
Normal				
Range				
Diag 4 –	Numeric(10)	Numeric	No	
Actual				
Value				

Diag 4 – Normal Range	Numeric(10)	Numeric	No	
Diag 5 – Actual Value	Numeric(10)	Numeric	No	
Diag 5 – Normal Range	Numeric(10)	Numeric	No	
Diag 6 – Actual Value	Numeric(10)	Numeric	No	
Diag 6 – Normal Range	Numeric(10)	Numeric	No	
Doctors Comments	Text(300)	Alphabetic	Yes	
Other info	Text(300)	Alphabetic	No	

Table 7

Feedback

Field Name	Field Type	Data Type	Mandatory	Possible Values
Assessment id	number	numeric	Yes	
Question 1	Text(200)	Alphabetic	Yes	
Question 2	Text(200)	Alphabetic	Yes	
Question 3	Text(200)	Alphabetic	Yes	
Question 4	Text(200)	Alphabetic	Yes	
Question 5	Text(200)	Alphabetic	Yes	
Question 6	Text(200)	Alphabetic	Yes	
Question 7	Text(200)	Alphabetic	Yes	
Question 8	Text(200)	Alphabetic	Yes	
Question 9	Text(200)	Alphabetic	Yes	
Question 10	Text(200)	Alphabetic	Yes	

Table 8

User Feedback

Field Name	Field Type	Data Type	Mandatory	Possible Values
User ID	Text(10)	Alphanumeric	Yes	
Assessment id	number	numeric	Yes	
Rating Que 1	Text(200)	Alphabetic	Yes	
Rating Que 2	Text(200)	Alphabetic	Yes	

Rating Que 3	Text(200)	Alphabetic	Yes	
Rating Que 4	Text(200)	Alphabetic	Yes	
Rating Que 5	Text(200)	Alphabetic	Yes	
Rating Que 6	Text(200)	Alphabetic	Yes	
Rating Que 7	Text(200)	Alphabetic	Yes	
Rating Que 8	Text(200)	Alphabetic	Yes	
Rating Que 9	Text(200)	Alphabetic	Yes	
Rating Que 10	Text(200)	Alphabetic	Yes	
Assessment	Date	Date	Yes	
date				