Heading of the project Name : CLINIC MANAGEMENT SYSTEM

Team Name : Tech Geeks

Team Members : Afzal G
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Activity No : 01

Date of Activity : 18/12/2021

Title of the Activity :

1.To identify the Functional & Non Functional requirements.

Functional requirements that the enduser specifically demands as basic facilities that the system should offer.

Functional Requirements :

1. Receptionist

- New patients are added and managed by receptionist.
- The details includes name,age,gender,address,blood group,contact number and with these new patient id is created
- Old patient details are retrieved when his/her id or contact number is known.
- 30 appointments are limited to a doctor in a day.
- Total bill for the consultation and check up of patient is generated.

2. Admin

- Assigning Roles to staffs for process
- Manage Staff Details
- Admin add Doctors,pharmacist,lab technicians by their specialization

- Register new doctors by including name,age,gender,role,contact number,specialization,experience,address,date of joining and provided login credential
- Register new staffs by including name,age,gender,role,contact number,experience,address,date of joining and provided login credential
- Charges for medicines and tests are added.
- Should keep a track on patient feedback

3.Doctor

- Doctor should view the list of Patients appointed on that present day.And analyse the patient previous medical history details.
- According to the analysis,doctor make notes for the appointment
- Get the details of medicines availability and lab tests
- Prescribe the medicines and lab tests to the patients
- Doctor should view the lab test results for the patient appointed on the present day.
- If the patients need another specialist then refer to another doctor.

4.Lab Technician Role

- Assigning dates to patients for lab test
- Updating the lab results of patients
- Generate report using lab result
- View and Edit this Lab result details

NON-FUNCTIONAL REQUIREMENTS :

- Security of this website should be maintained
- Maintaining session and cookies
- Maintainability of this application

- The site should be fast and secure
- Features will be added whether the client is not demanding for that

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Activity No : 02

Date of Activity : **28/12/2021**

Title of the Activity :

2.To identify the Actors And UseCase

Actor: Receptionist
Use Cases:
1. Receptionist adds new Patient.
2. Receptionist Fixes an appointment for patient with a doctor.
3. Receptionist generates the consultancy bill.

Actor: Lab Technician
Use Cases:
1. Lab Technician view Test lists.
2. Lab Technician adds patient test reports.

Actor: Admin
UseCase:

      1.Admin register doctors.

      2.Admin register staff.

      3.Admin adds treatment charges.

      4.Admin manages lab test details.

Actor: Doctor
Use Case:

      1.Doctor views appointments and views previous medical history.

      2.Doctor makes medical notes for the patient and prescribes medicines and lab tests.

      3.Doctor view test results.

      4.Doctor refers to other specialists.

Actor : Pharmacist
User Case :

      Pharmacist views prescription

      Pharmacist generate bill

Activity No : 03

Date of Activity : 30/12/2021

Title of the Activity : Use case Elaboration

Use case Lab Technician

Edited By	Afzal G
Properties	Description
Use Case No	1
Use Case	Lab Technician view Test lists
Pre-condition	1.Lab technician login using credential 2.Views the pending lab test log

Normal Flow	1. Lab technician dashboard has Test View tab
	2. User navigates to the Test View tab
	3. A Table will open up
	    a. It contains details of current day tests and the tests to be completed in coming days.
	    b. Has a patient log where test details should be added
	4. Lab technician will edit the patient test details in the patient log.

Alternate Flow	
Input	1. Lab technician - username and password 2. Test details - Test Id,Patient Id,Test Date,Test Name,Test Summary,
Validation	1. Test date - Valid date 2. Test Id,Test Name are mandatory fields

Edited By	Afzal G
Properties	Description
Use Case No	2
Use Case	Lab Technician Generates bill
Pre-condition	1.Lab technician login using credential 2.Views the bill generation log

Normal Flow	1. Lab technician dashboard has Bill tab
	2. User navigates to the Bill tab
	3. A Table will open up
	    c. Enter the details of lab test
	    d. Provide the bill for the taken test

Alternate Flow	
Input	1. Lab technician - username and password 2. Test Bill - Bill Id,Test Name,Test Cost,Patient Id,Total bill.
Validation	1. Bill id,Test name,Test cost,Patient id and Total bill are mandatory fields.

Actor- ADMIN

Edited By	SHAJITH MON N
Properties	**Use Case Description**
Use Case No	1
Use Case	Admin register doctors.
Pre-condition	1. Admin should login using credentials 2. Should be new Doctor
Normal Flow	1. Admin page has **_Register Doctor_** tab 2. The Admin Navigates to the **_Register Doctor_** tab. 3. A Registration form will open up. a). Which requires Doctor detail. 4. Admin submit the form after filling the details 5. Which will generate a unique Doctor Id
Alternate Flow	1. If the Doctor is already registered, give the Doctor Id back.
Input	1. Admin - Username and Password 2. Doctor - Details -> name,age,gender,role,contact number,specialization,experience,address,date of joining and provided login credential.
Validations	1. Name,contact,address mandatory fields. 2. Name should be characters A-Z a-z 3. Contact number - 10 digits

Edited By	SHAJITH MON N
Properties	**Use Case Description**
Use Case No	2
Use Case	Admin register staff.
Pre-condition	1. Admin should login using credentials 2. Should be new Staff
Normal Flow	1. Admin page has ***Register Staffs*** tab 2. The Admin Navigates to the ***Register Staffs*** tab. 3. A Registration form will open up. a. Which requires Staff detail. 4. Admin submit the form after filling the details 5. Which will generate a unique Staff Id
Alternate Flow	1. If the Staff is already registered, give the Staff Id back.
Input	1. Admin - Username and Password 2. Staff - Details -> name,age,gender,role,contact number,specialization,experience,address,date of joining and provided login credential.
Validations	1. Name,contact,address mandatory fields. 2. Name should be characters A-Z a-z 3. Contact number - 10 digits

Edited By	SHAJITH MON N
Properties	**Use Case Description**
Use Case No	3
Use Case	Admin manages lab test details.
Pre-condition	1. Admin should login using credentials
Normal Flow	1. Admin page has **_Treatment charges_** tab 2. The Admin Navigates to the **_Treatment charges_** tab. 3. A Page with Treatment details. a. Which contains treatment charges 4. Admin adds or modifies the treatment charges. 5. Admin saves the changes.
Alternate Flow	
Input	1. Admin - Username and Password 2. Treatment - Details -> treatment name, charges.
Validations	1. Name,charge fields must be entered.

Edited By	SHAJITH MON N
Properties	**Use Case Description**
Use Case No	4
Use Case	Admin manages lab test details.
Pre-condition	1. Admin should login using credentials
Normal Flow	1. Admin page has ***Lab Test Details*** tab 2. The Admin Navigates to the ***Lab Test Details*** tab. 3. A Page with Lab Test details a. Which contains test charges and other details 4. Admin adds or modifies the test details. 5. Admin saves the changes.
Alternate Flow	
Input	3. Admin - Username and Password 4. Lab Test - Details -> Test name, charges.
Validations	2. Name,charge fields must be entered.

Actor-DOCTOR

Edited By	Vincy S
Properties	**Description**
Use Case No	1
Use case	Doctor View Appointments and view previous medical history.
Pre-condition	1.Doctor Login using credentials.
Normal Flow	1.Doctor Dashboard has View Appointments Tab 2.Doctor navigates to the View Appointments Tab 3.Appointed Patient List will open up. a.If doctor click that particular patient then his/her details will show up 4.After viewing the patient details , the doctor analyses if there is a new patient or not .
Alternate Flow	1.If the patient is already registered ,give the patient medical history.
Input	1-Doctor- username ,password 2-Patient -Id
Validations	

Use case No	2

Use case	Doctor make medical notes for the patient and prescribes medicines and lab tests.
Pre-condition	1.Doctor Login using his credentials. 2.Patient must be in Appointment table. 3.Before Prescribing medicine Doctor should view the Lab test Result.

Normal Flow	1.Doctor Dashboard has Logs and Medicines Tab.
	2.Doctor navigates to the Logs and Medicines Tab.
	   1)This Tab contains Make notes Tab,Prescribe Medicines Tab,Lab tests Tab
	     a.If doctor wants to make notes for that particular patient then click that patient id in that table and upload notes for that patient.
	     b.If doctor wants to prescribe medicines for that particular patient then click that patient id in that table and prescribe medicine for that patient.
	     c.If doctor wants to prescribe lab tests for that particular patient then click that patient id in that table and prescribe lab test for that patient
	3.Doctor updating this table after fill this details.

Alternate Flow	1.If Doctor make notes and prescribe medicine and lab test the patient,then the patient name will be removed from the appointment table or marked as Viewed.
Input	1.Doctor-Make Notes,medicine name,lab test name
Validations	1.Make notes-more than 40 characters. 2.Medicine name-Medicine name must be more than 5 characters 3.Lab test-Lab test name must contain 10 characters,lab test Name should be characters A-Z a-z

Use case No	3
Use case	Doctor View Lab test results
Pre-condition	1.Patient must have taken the lab test already.
Normal Flow	1.Doctor Dashboard has view Lab test Result Tab. 2.Doctor navigates View Lab result Tab. 3.If Doctor want particular patient lab test Result then search by his/her id. 4. After viewing that Lab test . Result,Doctor updating this to patient table.
Alternate Flow	1.Alternatively,Doctor prescribes medicine to that patient and generate notes for that patient
Input	1.Doctor-medicine name ,lab test name.
validations	

Use case No	4
Use case	Doctor refer other specialist
Pre-condition	1.Details must be updated
Normal Flow	1.Doctor Dashboard has Refer other specialist Tab. 2.Doctor navigates the Refer Other specialist tab. a.In this tab, show up all the specialist List. 3.Then select the particular specialist for the required patient.
Alternate Flow	1.After referring,the Doctor should update this detail to the patient table.
Input	Doctor-Specialist List
Validations	

Actor: RECEPTIONIST

Edited By	BELBIN SHIBI R
Properties	**Description**
Use Case No	1
Use Case	Receptionist adds a patient
Pre-condition	1. Receptionist login using credentials. 2. Should be a new patient
Normal Flow	1. Receptionist dashboard has an add Patient tab. 2. The user navigates to the add Patient tab. 3. A registration form will open up. a.Which requires patient details. 4.Receptionist submits the form after filling in the details 5.Which will generate a unique Patient ID.
Alternate Flow	1. If the patient is already registered, give the patient ID back.
Input	Receptionist- username, password Patient's details-Name,Phone,DOB,gender,blood group,address.
Validations	Name,phone,age,gender,blood group,mandatory fields. Name-should be character A-Z,a-z. Phone-10 digits.

Edited By	BELBIN SHIBI R
Properties	**Description**
Use Case No	2
Use Case	Fix appointment for a patient to doctor
Pre-condition	1. Receptionist login using credentials. 2. The patient should be registered.
Normal Flow	1. Receptionist dashboard has an appointment registration tab. 2. The user navigates to register an appointment for a patient.. 3. Give a token to a patient based on doctor availability.
Alternate Flow	2. If a doctor already has 30 appointments then the new appointment of the patient will be fixed for the next day.
Input	Receptionist- username, password Patient's details- Patient ID
Validations	Only 30 appointments should be registered.

Edited By	BELBIN SHIBI R
Properties	**Description**
Use Case No	3
Use Case	Receptionist generate consultancy bill
Pre-condition	1. Receptionist login using credentials. 2. The patient must be consulted by the doctor.
Normal Flow	1. Receptionist dashboard has a bill generation button. 2. That button navigates to the bill generation tab 3. Generate consultancy bills according to a patient 's treatment.
Alternate Flow	Null
Input	Receptionist- username, password Patient's details-Patient Id, Bill Details.
Validation	Null

Actor :Pharmacist

User Case :
1. Pharmacist views prescription
2. Pharmacist generate bill

actor

Edited By	Issac wincent
Properties	Description
Use Case No	1
Use Case	Pharmacist view doctors prescription
Pre-condition	1. Pharmacist login using credential
Normal Flow	1..Views the doctor prescription 2. check quality of medicines supplied to patients 3.ensuring that the medicines prescribed to patients are suitable 3 .generate bill of the given medicine
Alternate Flow	
Input	**Pharmacist -** Username,Password **Bill Details -** Bill Id ,Medicine Name,PatientId,MedicineCost ,Total Amount
Validation	All Details are mandatory,