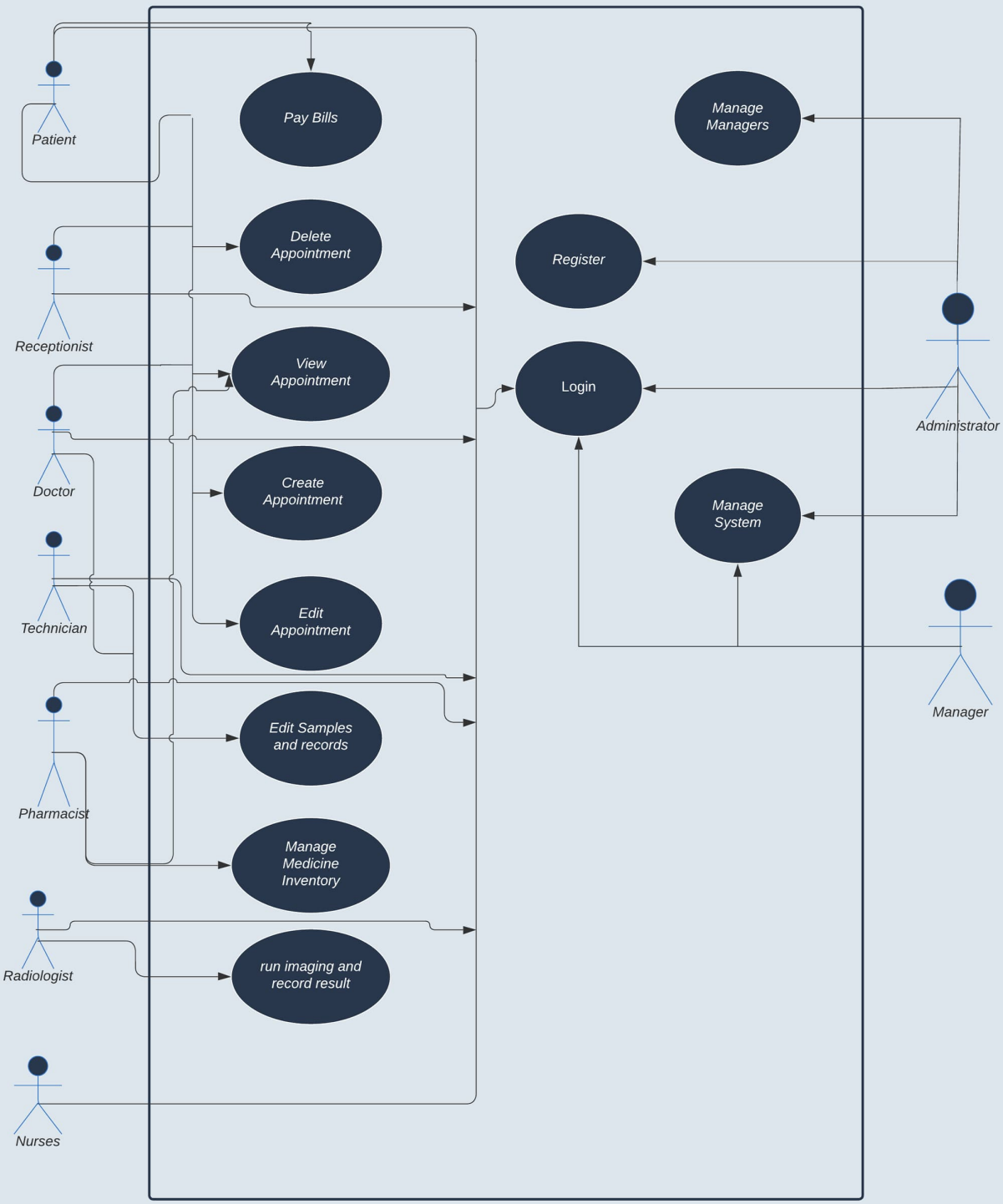
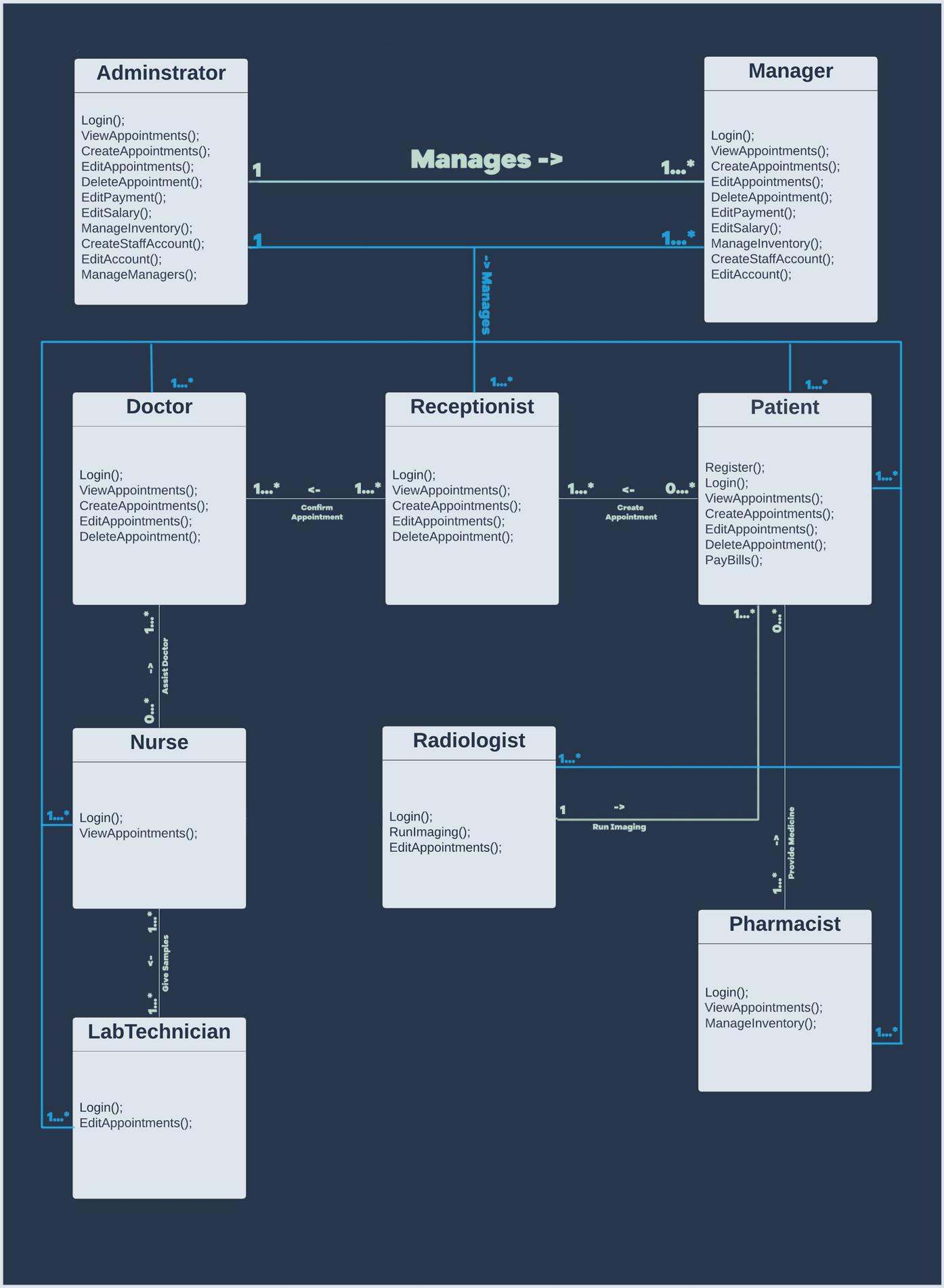
Hospital Managment System

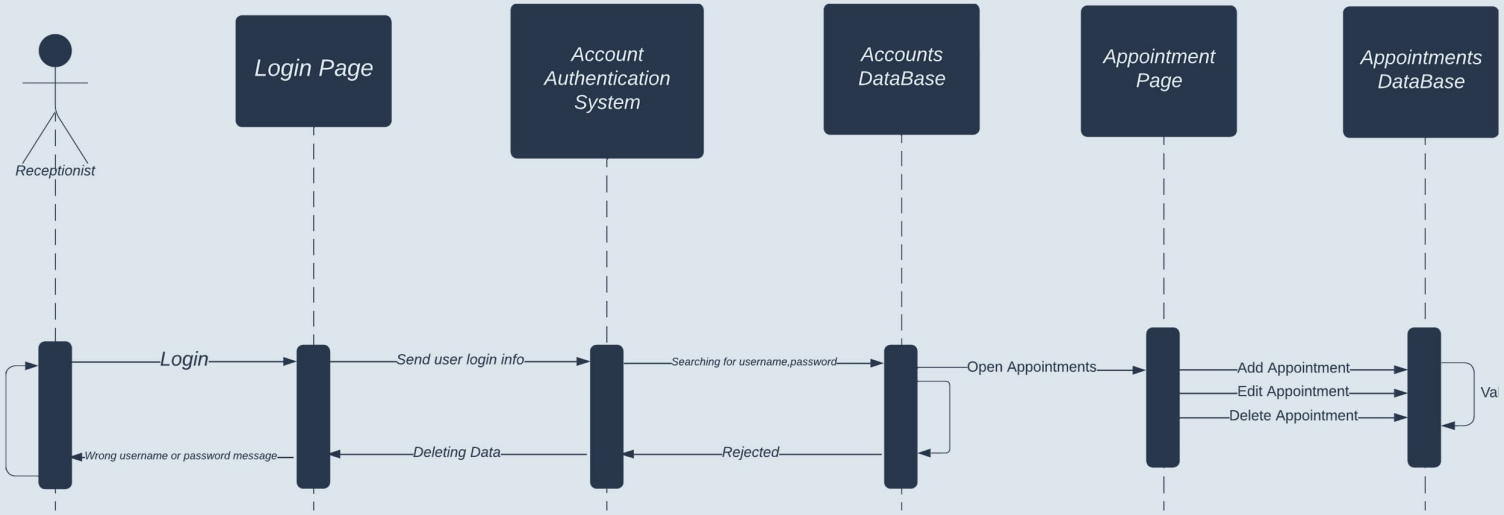
Description:

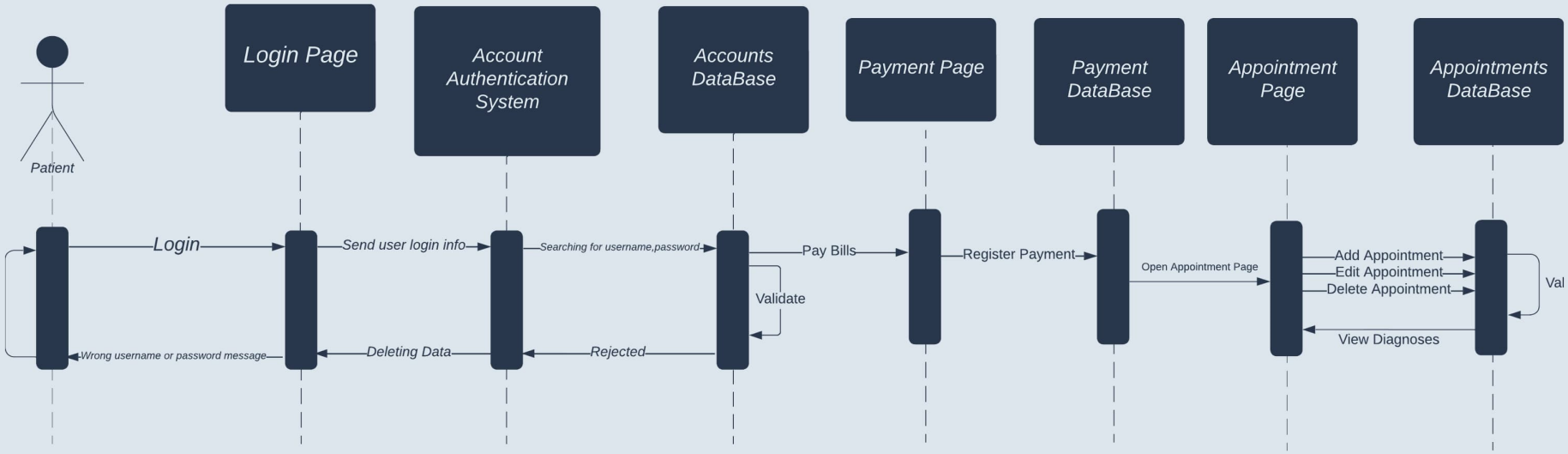
A Hospital Management System (HMS) is a digital platform designed to streamline the operations and management of a hospital. It helps hospital managers to manage patient information, appointment scheduling, electronic medical records, inventory management, billing and payment processing,reporting and analytics, and other related tasks.

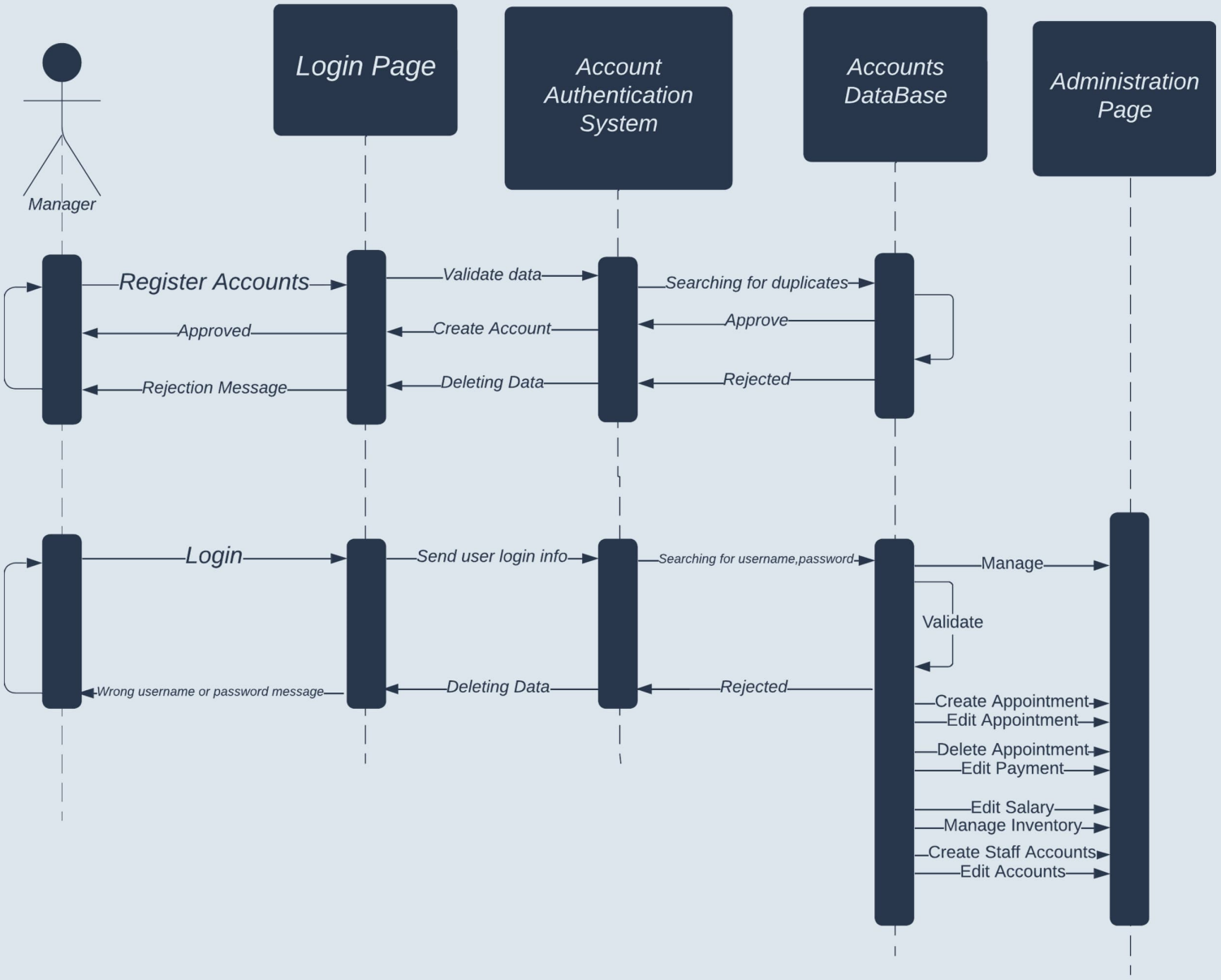
Reciptionist is responsible for managing appointments.
Patient can view,create,edit and delete requested appointments and pays his bills.
Doctor can write diagnoses and prescribe medications and confirm or edit the appointment.
Pharmacist is responsible for dispensing medications and managing inventory.
Lab Technician manages samples, runs tests and records results.
Rediologist runs imaging and record results.
managers manages patient payments and employees salaries and all informations.
All system actors except patient can login in the system while patient can login and register.
Administrator manages everything.

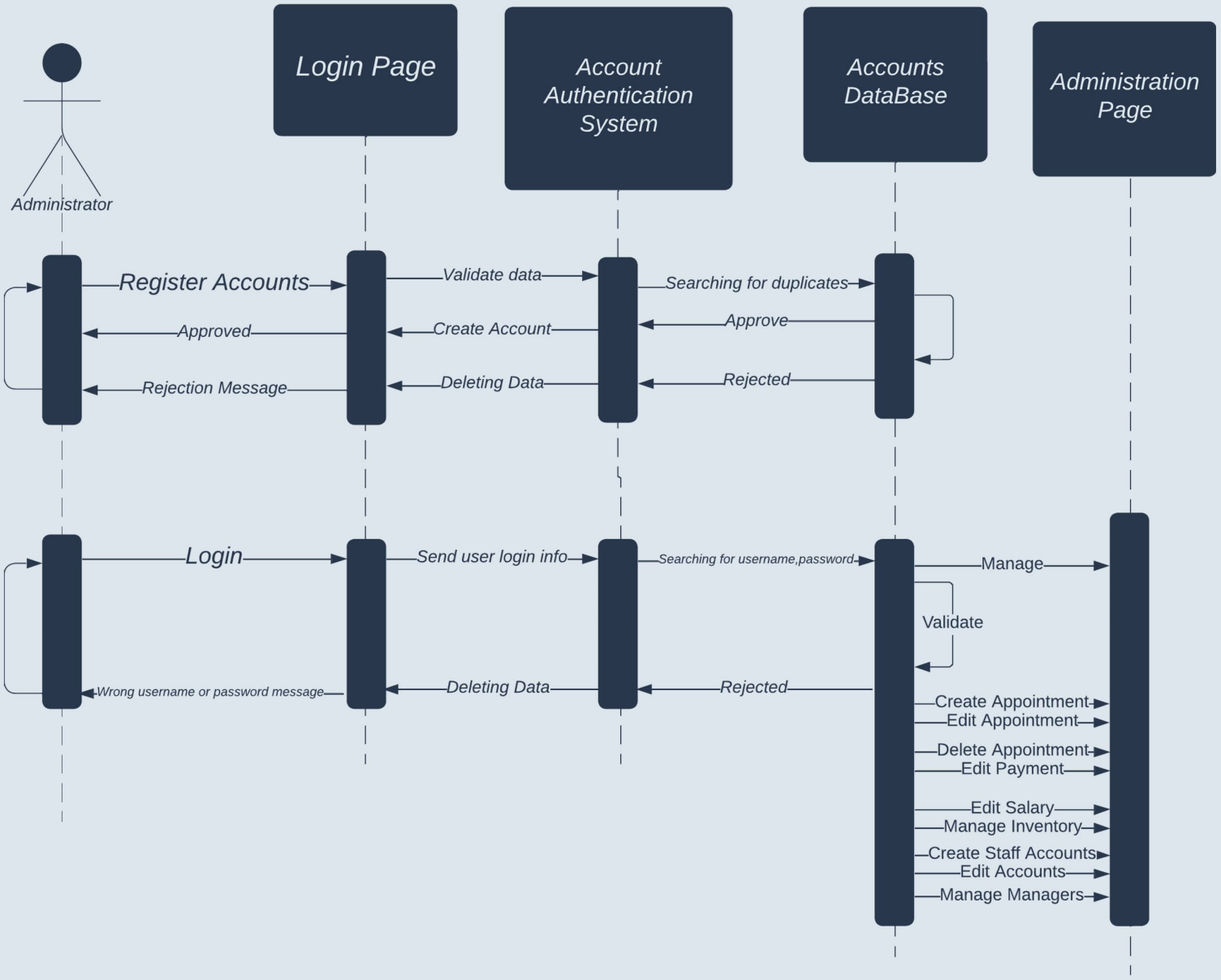

Patient
Pay Bills
Manage Managers
Delete Appointment
Register
Receptionist
View Appointment
Login
Administrator
Doctor
Create Appointment
Manage System
Technician
Edit Appointment
Manager
Edit Samples and records
Pharmacist
Manage Medicine Inventory
Radiologist
run imaging and record result
Nurses

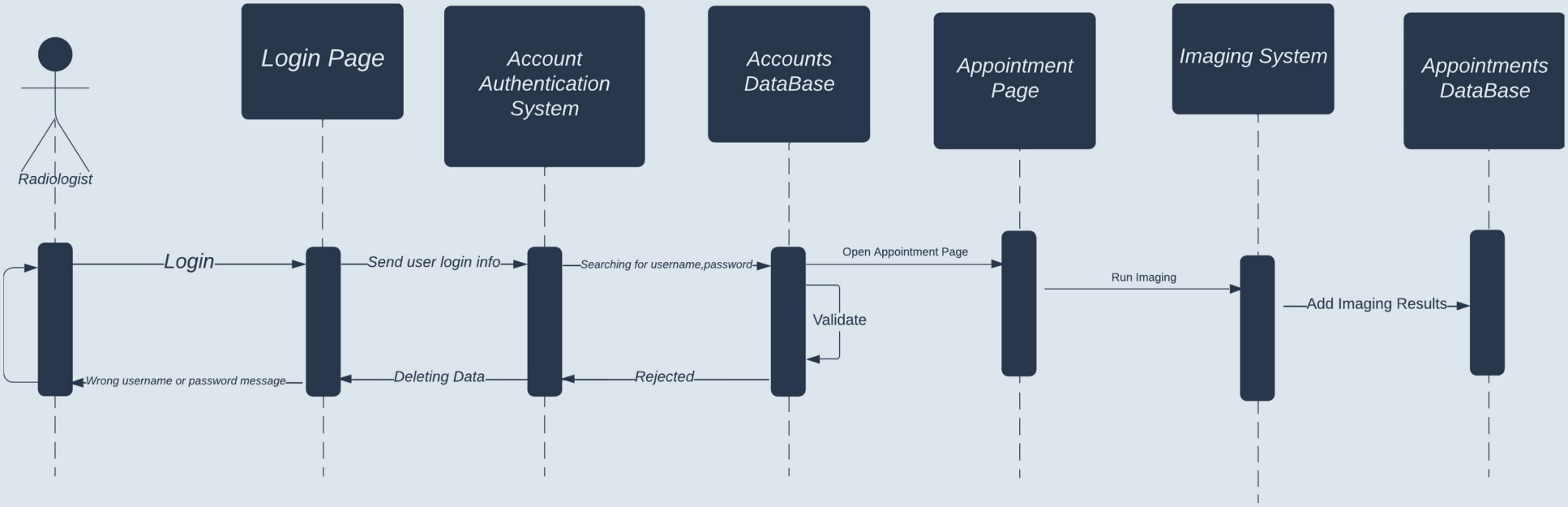

Adminstrator
Login();
ViewAppointments();
CreateAppointments();
EditAppointments();
DeleteAppointment();
EditPayment();
EditSalary();
ManageInventory();
CreateStaffAccount();
EditAccount();
ManageManagers();
Manager
Login();
ViewAppointments();
CreateAppointments();
EditAppointments();
DeleteAppointment();
EditPayment();
EditSalary();
ManageInventory();
CreateStaffAccount();
EditAccount();
Manages ->
1
1...*
1
1...*
<- Manages
Doctor
Login();
ViewAppointments();
CreateAppointments();
EditAppointments();
DeleteAppointment();
Receptionist
Login();
ViewAppointments();
CreateAppointments();
EditAppointments();
DeleteAppointment();
Patient
Register();
Login();
ViewAppointments();
CreateAppointments();
EditAppointments();
DeleteAppointment();
PayBills();
1...*
<-
Confirm Appointment
1...*
1...*
<-
Create Appointment
0...*
1...*
1...*
1

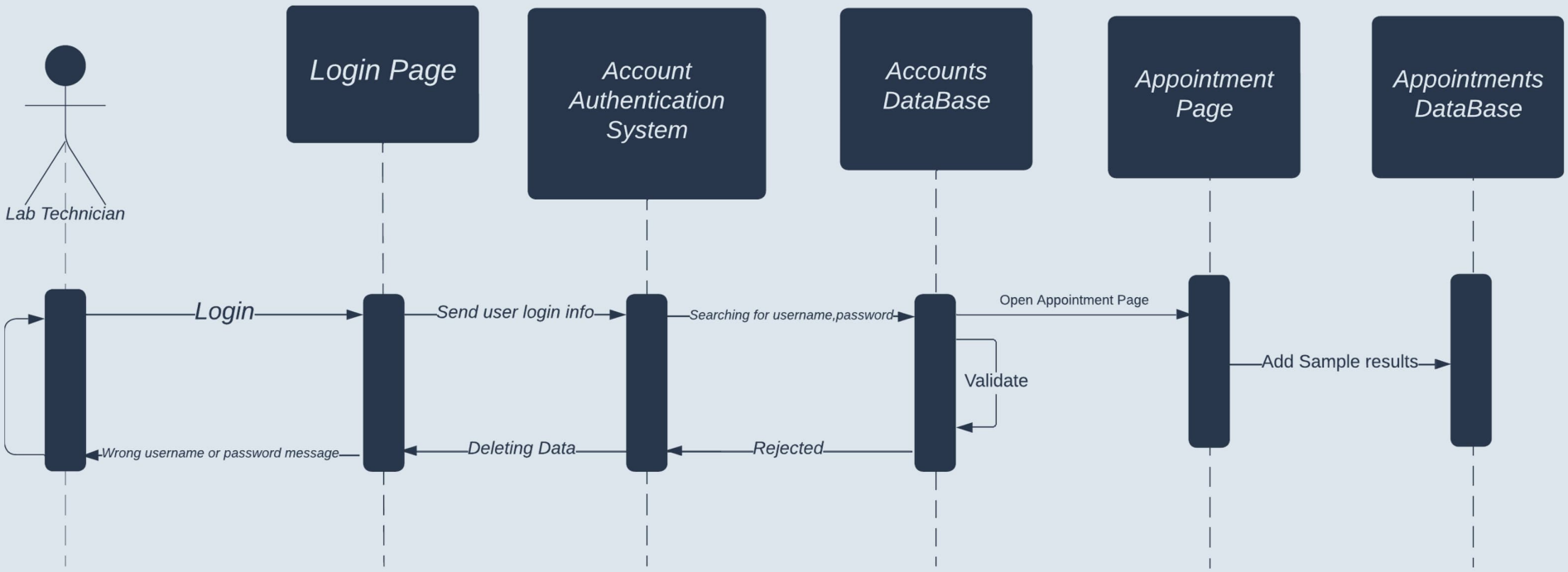

Receptionist
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Appointments DataBase
Login
Send user login info
Searching for username,password
Open Appointments
Add Appointment
Edit Appointment
Delete Appointment
Wrong username or password message
Deleting Data
Rejected

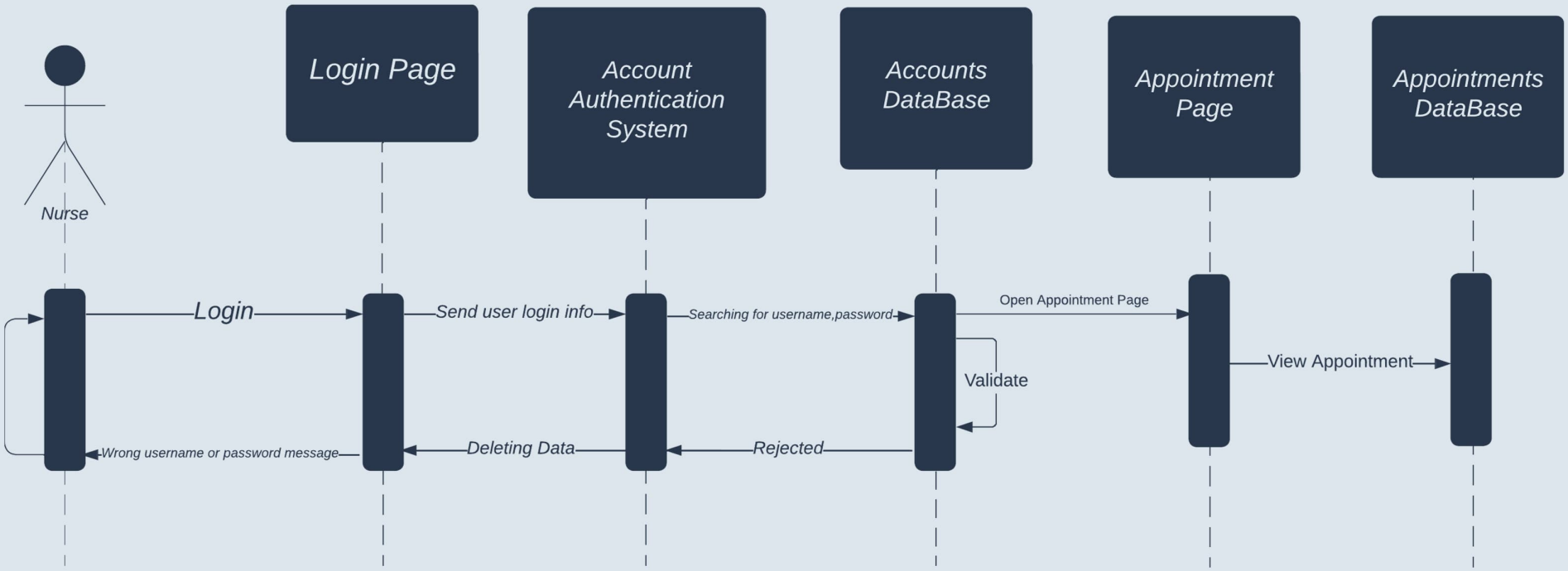

Patient
Login Page
Account Authentication System
Accounts DataBase
Payment Page
Payment DataBase
Appointment Page
Appointments DataBase
Login
Send user login info
Searching for username,password
Pay Bills
Register Payment
Open Appointment Page
Add Appointment
Edit Appointment
Delete Appointment
Val
Validate
View Diagnoses
Wrong username or password message
Deleting Data
Rejected

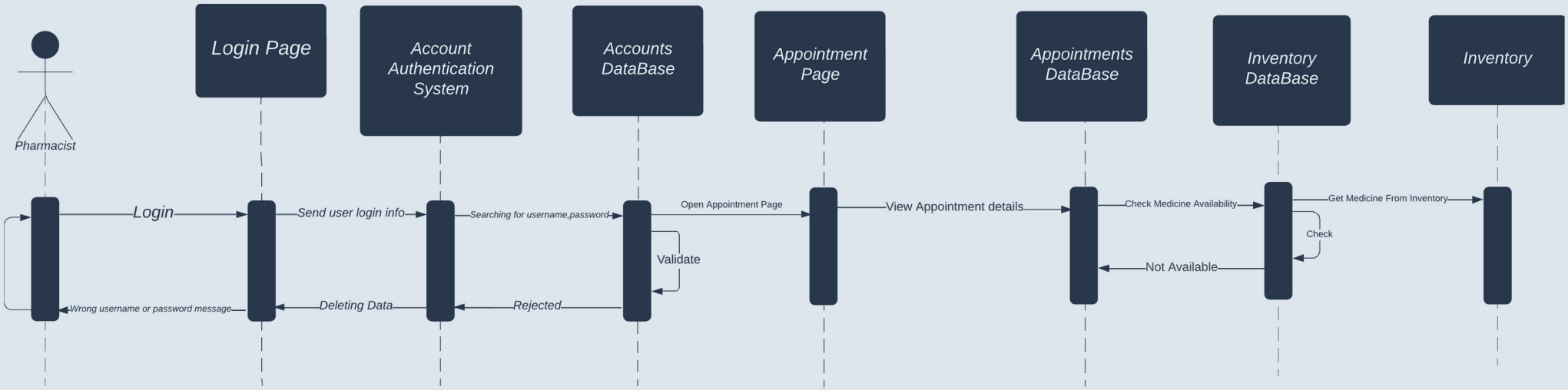

Manager
Login Page
Account Authentication System
Accounts DataBase
Administration Page
Register Accounts
Validate data
Searching for duplicates
Approved
Create Account
Approve
Rejection Message
Deleting Data
Rejected
Login
Send user login info
Searching for username,password
Manage
Validate
Wrong username or password message
Deleting Data
Rejected
Create Appointment
Edit Appointment
Delete Appointment
Edit Payment
Edit Salary
Manage Inventory
Create Staff Accounts
Edit Accounts

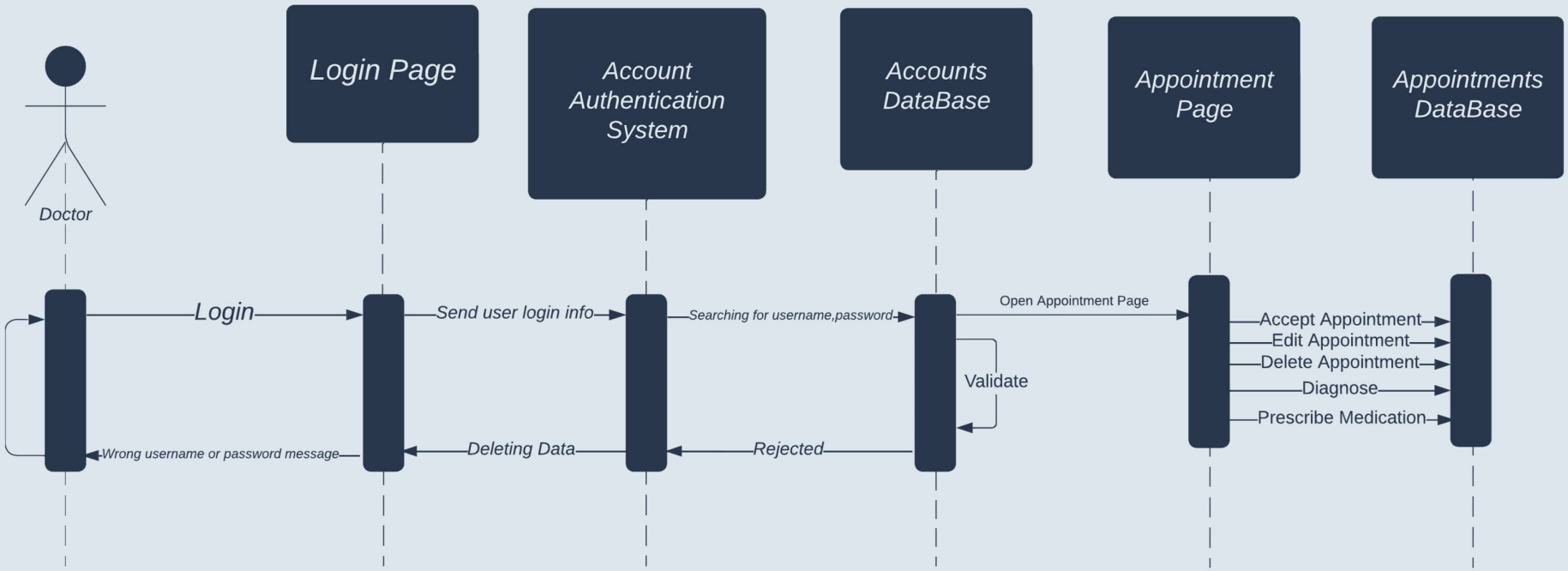

Administrator
Login Page
Account Authentication System
Accounts DataBase
Administration Page
Register Accounts
Validate data
Searching for duplicates
Approved
Create Account
Approve
Rejection Message
Deleting Data
Rejected
Login
Send user login info
Searching for username,password
Manage
Validate
Wrong username or password message
Deleting Data
Rejected
Create Appointment
Edit Appointment
Delete Appointment
Edit Payment
Edit Salary
Manage Inventory
Create Staff Accounts
Edit Accounts
Manage Managers


Radiologist
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Imaging System
Appointments DataBase
Login
Send user login info
Searching for username,password
Open Appointment Page
Run Imaging
Add Imaging Results
Validate
Wrong username or password message
Deleting Data
Rejected


Lab Technician
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Appointments DataBase
Login
Send user login info
Searching for username,password
Open Appointment Page
Validate
Add Sample results
Wrong username or password message
Deleting Data
Rejected


Nurse
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Appointments DataBase
Login
Send user login info
Searching for username,password
Open Appointment Page
Validate
View Appointment
Wrong username or password message
Deleting Data
Rejected


Pharmacist
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Appointments DataBase
Inventory DataBase
Inventory
Login
Send user login info
Searching for username,password
Open Appointment Page
View Appointment details
Check Medicine Availability
Get Medicine From Inventory
Check
Validate
Not Available
Wrong username or password message
Deleting Data
Rejected


Doctor
Login Page
Account Authentication System
Accounts DataBase
Appointment Page
Appointments DataBase
Login
Send user login info
Searching for username,password
Open Appointment Page
Validate
Accept Appointment
Edit Appointment
Delete Appointment
Diagnose
Prescribe Medication
Wrong username or password message
Deleting Data
Rejected

Sprint ID	User Story	Tasks	Owner	Status
Sprint 1	As a receptionist, I want to be able to log in to the system, so that I can access the necessary functionalities, Also I want to schedule appointments and manage admissions, so that I can efficiently handle patient flow. As a patient, I want to be able to view my appointments and diagnoses, so that I can stay informed about my medical condition, Also I want to be able to pay my bills online, so that I can conveniently handle my financial obligations.	Create user login functionality	Mr.Joky	Completed
		Design and develop the receptionist's appointment scheduling module	Mr.Oni	Completed
		Implement patient view for appointments and diagnoses	T.Madoka	Completed
		Set up billing and payment processing system for patients	Mr.Oni	Completed
Sprint 2	As a doctor, I want to be able to write diagnoses and prescribe medications, so that I can provide accurate treatment plans for my patients. As a pharmacist, I want to be able to dispense medications and manage inventory, so that I can ensure the availability of necessary medications. As a lab technician, I want to be able to manage samples, run tests, and record results, so that I can contribute to the diagnostic process. As a radiologist, I want to be able to run imaging tests and record results, so that I can provide accurate reports to assist in patient treatment.	Develop the doctor's module for writing diagnoses and prescribing medications	Dr.Joky	Completed
		Implement the pharmacist's module for dispensing medications and managing inventory	T.Madoka	Completed
		Design and develop the lab technician's module for managing samples and recording test results	Dr.Joky	Not Started
		Set up the radiologist's module for running imaging and recording results	Dr.Joky	In-Progress
Sprint 3	As a Manager, I want to be able to manage All Staf Accounts and manage payments and employee salaries, so that financial tasks can be efficiently handled. As an administrator, I want to be able to manage every thing and manage permissions, so that I can control access to the system and ensure proper functionality.	Implement the staff module for managing patient payments and employees' salaries	Dr.Joky	Completed
		Develop the administrator's module for managing staff accounts and permissions	T.Madoka	Completed
		Conduct testing and bug fixing for all previously implemented modules	Mr.Oni	In-Progress
		Prepare documentation for the system's functionalities	T.Madoka	Not Started