@startuml

!define RECTANGLE class

!define usecase usecase

!define actor actor

!define interface interface

!define package package

!define enum enum

package "Healthcare Management System" {

[Login] as login

[Register] as register

[Data Encryption] as encrypt

[Forgot Password] as forgotPassword

[Calculate Salary] as calculateSalary

[Terminate Employee] as terminateEmployee

[Messaging between Staff and Patients] as messaging

[CRUD Patient Information] as patientInfo

[Payment] as payment

[Generate Invoice] as invoice

[CRUD Appointments] as appointment

[View Medical History] as medicalHistory

[CRUD Employee Information] as employeeInfo

[Manage Employee Schedules] as employeeSchedule

[Track Revenue and Expenses] as financialTracking

[Create Financial Reports] as financialReports

[Inventory and Supply Tracking] as inventoryTracking

[Manage Inventory Transactions] as inventoryManagement

[Send Appointment Reminders] as appointmentReminder

[CRUD Prescriptions] as prescription

[Store and Manage Medical Records] as medicalRecords

[Print Medical Records] as printMedicalRecords

[Monitor Equipment Status] as equipmentStatus

[Create Equipment Maintenance Plans] as maintenancePlan

[CRUD Advertisements] as advertising

[CRUD Vouchers] as voucher

[Service Feedback] as feedback

[Create Patient Treatment Plans] as treatmentPlan

[Track Treatment Plan Progress] as treatmentProgress

[CRUD Service Contracts] as serviceContract

[CRUD Supply Contracts] as supplyContract

[CRUD Potential Customers (Businesses)] as potentialCustomer

[CRUD Clinic Information] as clinicInfo

actor "User" as user

actor "Doctor" as doctor

actor "Manager" as manager

actor "Staff" as staff

actor "Patient" as patient

user --|> login

user --|> register

user --|> forgotPassword

user --|> messaging

user --|> appointment

patient --|> messaging

patient --|> medicalHistory

doctor --|> calculateSalary

staff --|> terminateEmployee

staff --|> messaging

staff --|> appointment

staff --|> inventoryTracking

staff --|> inventoryManagement

staff --|> appointmentReminder

staff --|> prescription

staff --|> treatmentPlan

staff --|> treatmentProgress

staff --|> supplyContract

manager --|> financialTracking

manager --|> financialReports

manager --|> inventoryTracking

manager --|> inventoryManagement

manager --|> equipmentStatus

manager --|> maintenancePlan

manager --|> advertising

manager --|> voucher

manager --|> feedback

manager --|> serviceContract

manager --|> potentialCustomer

manager --|> clinicInfo

manager --|> employeeInfo

manager --|> employeeSchedule

manager --|> equipmentStatus

manager --|> maintenancePlan

manager --|> employeeSchedule

clinicInfo --|> maintenancePlan

clinicInfo --|> equipmentStatus

invoice --|> financialReports

appointmentReminder --|> appointment

medicalRecords --|> printMedicalRecords

appointment --|> treatmentPlan

treatmentProgress --|> treatmentPlan

clinicInfo --|> treatmentPlan

potentialCustomer --|> potentialCustomer

patientInfo --|> medicalHistory

patientInfo --|> prescription

patientInfo --|> treatmentPlan

patientInfo --|> treatmentProgress

clinicInfo --|> clinicInfo

clinicInfo --|> potentialCustomer

serviceContract --|> supplyContract

supplyContract --|> supplyContract

financialReports --|> financialReports

equipmentStatus --|> maintenancePlan

equipmentStatus --|> equipmentStatus

supplyContract --|> supplyContract

}

@enduml