

care24

Easy Health Service

Group: 1 1

Md. Habibullah Bin Ismail (0905049)

Akhter Al Amin (0905056)

Rayhan Shikder (0905060)

System Features

Features

- Area Based diagnostic center and chamber search.
- Online Appointment.
- Online prescription.
- Google map integration .
- Online notice board of corresponding chamber and diagnostic center.
- Queued up patient' s appointment with the basis of priority.
- Mobile alert.
- Prescription history management.
- Doctor' s profile.

Technology

Technology

- Platform:
 1. Android
 2. PHP
 3. Html
 4. CSS
- Database:
 1. MySQL
- Framework:
 1. CodeIgniter
 2. Bootstrap
- Tools:
 1. Eclipse-Android Developer
 2. Netbeans

Use-Case Diagrams

Subsystems

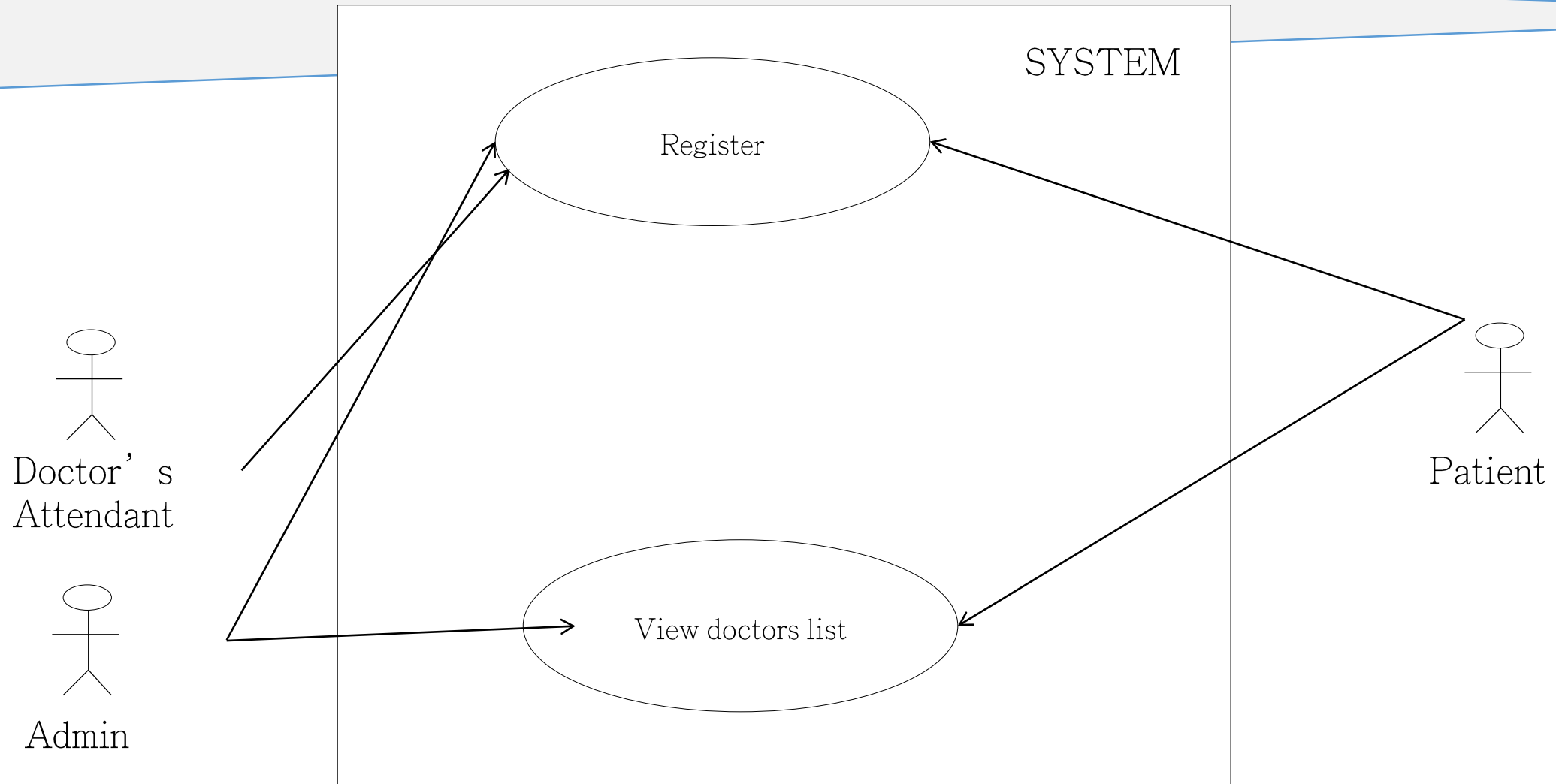
- Registration subsystem.
- Appointment subsystem.
- History management subsystem

Registration Subsystem

Use-Cases: Registration Subsystem

Use case name	Actors
Register	Doctor's Attendant, Admin Patient, Admin
View Doctor's list	Patient

Use-Case Diagram: Registration Subsystem



Use-Case Narrative: Registration Subsystem

- Name: Register
- Priority: High
- Primary Actor: Doctor's Attendant, Patient
- Secondary Actor: Admin
- Precondition: All information field required for registration should be properly fulfilled.
- Trigger: Registration will be approved by admin after authentication.

Use-Case Narrative: Registration Subsystem

Register Patient: Typical Course of Events

Actor Action (Patient)	Actor Action (Admin)	System Response
1. None		2. Show Registration Option
3. Select Patient Registration Option		4. Show Registration Form
5. Provide registration information		6. Verify registration info
	7. Authorize patient's Registration info	8. Store Patient's Info
		9. Show Confirmation

Use-Case Narrative: Registration Subsystem

Register Doctor: Typical Course of Events

Actor Action (Doctor's Attendant)	Actor Action (Admin)	System Response
1. None		2. Show Registration Option
3.Select Attendant Registration Option		4. Show Registration Form
5.Provide registration information		6. Verify registration info
	7. Authorize attendant's Registration info	8.Store attendant's Info
		9.Show Confirmation 10.Show Doctor's Registration Form
11.Give Doctor's Info		11.Verify Doctor's Info 12.Store Doctor's Info

Use-Case Narrative: Registration Subsystem

- Alternative Course of events:
 - Admin can detects a fake doctor' s registration.
- Conclusion:
 - The filled up registration form reaches Admin.
- Post Condition:
 - All the registration field have to be filled up correctly.

Use-Case Narrative: Registration Subsystem

- Finding Data

1. Doctor's attendant provide authentication informations of doctor.
2. Doctor's attendant provide doctor's chamber address.
3. Doctor's attendant provide doctor's specialty on any disease.
4. Patient finds doctors according to disease priority basis.
5. Patient provides his/her disease patterns.

Use-Case Narrative: Registration Subsystem

- Name: View Doctor's List
- Priority: Low
- Primary Actor: Patient
- Secondary Actor:
- Precondition:
- Trigger:

Use-Case Narrative: Registration Subsystem

View Doctor's List : Typical Course of Events

Actor Action (Patient)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify Patient Login 5. Show Doctor Category
4. Select Category	6. Show Doctor's List
6. Select Doctor	7. Show Doctor's info

Use-Case Narrative: Registration Subsystem

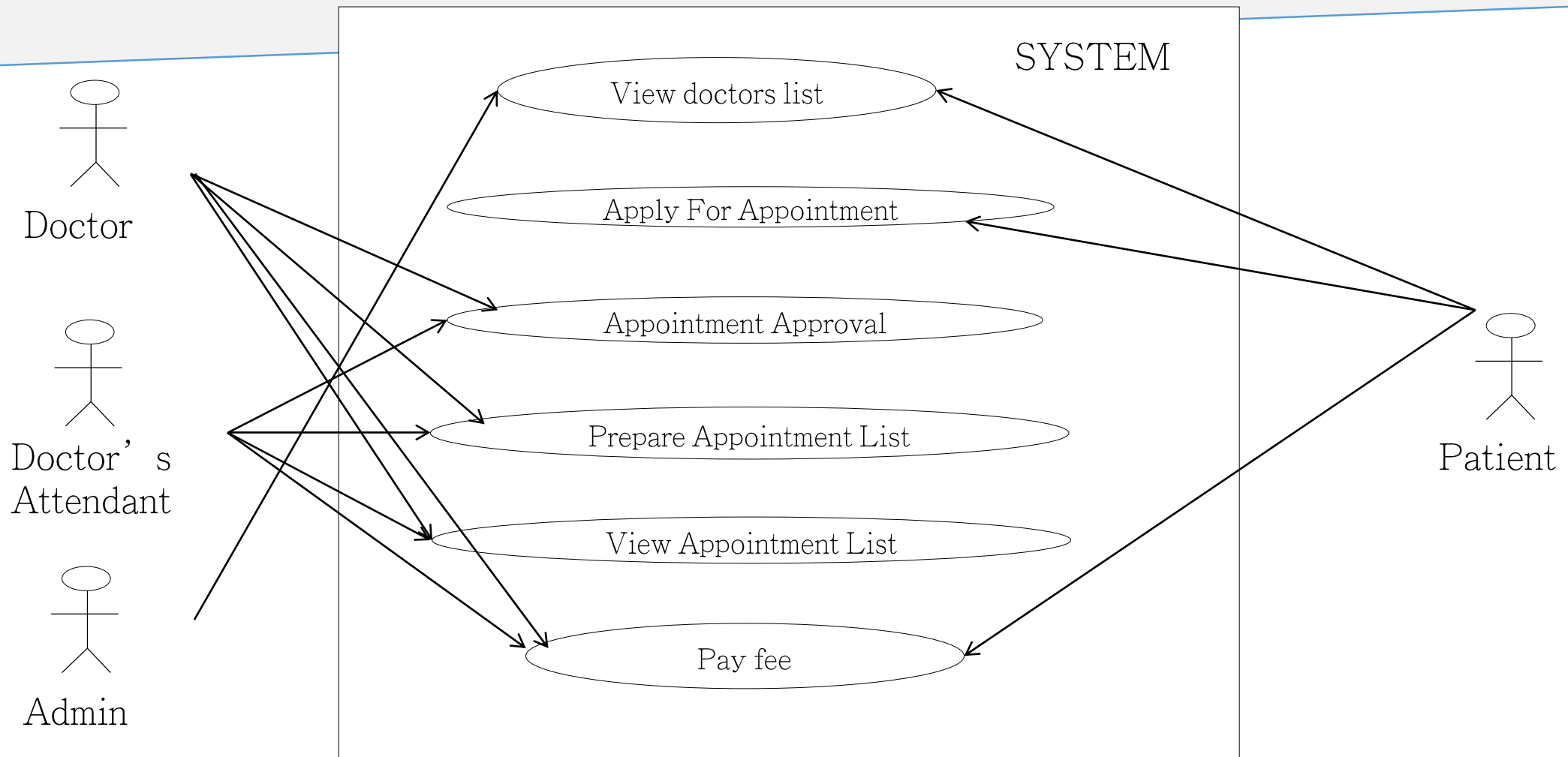
- **Conclusion:**
- Patient gets all kinds of benefit in searching specific doctor' s according to his/her requisition.
- **Post Condition:**
- Doctor' s list should be sorted by admin.

Appointment Subsystem

Use-Cases: Appointment Subsystem

Use-Case Name	Actors
View doctors list	Patient, Admin
Apply For Appointment	Patient
Appointment Approval	Doctor' s Attendant, Doctor
Prepare Appointment List	Doctor' s Attendant, Doctor
View Appointment List	Doctor' s Attendant, Doctor
Pay fee	Doctor' s Attendant, Doctor, Patient

Use-Case Diagram: Appointment Subsystem



Use-Case Narrative: Appointment Subsystem

- Name: Apply for appointment
- Priority: High
- Primary Actor: Patient
- Precondition: Form has been prepared.
- Trigger: Apply form reaches to the doctor's attendance for approval.

Use-Case Narrative: Appointment Subsystem

Apply for Appointment: Typical Course of Events

Actor Action (Patient)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify Patient Login 5. Show Doctor list.
6. Select Doctor	7. Show Appointment Info form
8. Fill up appointment form and submit.	9. Success message.

Use-Case Narrative: Appointment Subsystem

- Name: Appointment approval
- Priority: High
- Primary Actor: Doctor's attendant
- Secondary Actor: Doctor
- Precondition: Patient apply for appointment
- Trigger: Approval of appointment reaches

Use-Case Narrative: Appointment Subsystem

Approve Appointment: Typical Course of Events

Actor Action (Doctor's Attendant)	Actor Action (Doctor)	System Response
1.None		2.Ask for login
3. Provide Information for login		4. Verify Doctor's attendant Login
		5. Show Appointment list.
6.Select Appointment.		7.Show client info.
		8.Show Appointment Info provided by the client .
9.Authenticate all appointment info.		
10.Froward patients's profile to doctor.		
	11.Ask for patient list forwarded by attendant	12.Show patient list.

Use-Case Narrative: Appointment Subsystem

- **Conclusion:** Patient confirms the appointment.
- **Post Condition:** Patient has been applied for approval.
- **Business Rule:**
 - New patient payment.
 - Old patient payment.

Use-Case Narrative: Appointment Subsystem

- Finding Data:

Doctor's attendance collects the information from the apply form.

Doctor's attendance checks the payment transection id from the patient.

Doctor's attendance inserts the patient name in the appointment list.

Use-Case Narrative: Appointment Subsystem

Prepare Appointment List: Typical Course of Events

Actor Action (Doctor's Attendant)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify Doctor's Attendant Login
	5. Show approved appointment list with appointment info.
6. Select approved appointment.	7. Show patient info.
8. Insert patient info in appointment list.	9. Store patient info.

Use-Case Narrative: Appointment Subsystem

- Name: View appointment list
- Priority: High
- Primary Actor: Doctor's attendant, Doctor
- Secondary Actor:
- Precondition: Appointment request have to be approved.
- Trigger: Appointment list with patient's profile reaches doctor.

Use-Case Narrative: Appointment Subsystem

View Appointment List: Typical Course of Events

Actor Action (Doctor's Attendant)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify Doctor's Login
	5. Show appointment list.
6. Select an appointment.	7. Show appointment info.
	8. Show patient info.

Use-Case Narrative: Appointment Subsystem

- **Alternative Course of Events**
 - Doctor cancel appointment of specific patient.
- **Conclusion:**

Patient's previous report, prescription and symptoms available for doctor.
- **Finding Data**

Doctor's attendant verifies patient's profile.
Doctor's attendant forward patient's id to doctor.
Doctor see appointment list.

Use-Case Narrative: Appointment Subsystem

- Name: Pay fee.
- Priority: High
- Primary Actor: Patient, Doctor's attendant
- Secondary Actor: Doctor
- Precondition: Appointment request have to be sent.
- Trigger: Approval of appointment by Doctor's attendant.

Use-Case Narrative: Appointment Subsystem

Pay Fee: Typical Course of Events

Actor Action (Patient)	Actor Action (Doctor's Attendant)	System Response
1.None		2.Ask for login
3. Provide Information for login		4. Verify Patient Login
		5. Show Doctor list.
6.Select Doctor		7.Show Appointment fee.
8.Give Fee transaction ID.		9.Verify transaction ID.
		10.If OK then proceed to next step
	11.Authenticate transaction ID and amount of money.	12.Store payment information.
		13.Send Appointment form.

Use-Case Narrative: Appointment Subsystem

- Alternative Course of Events
 - Doctor's attendant can detect fake transaction id.
 - Doctor checks whether any fraud done by attendants.
- Conclusion:
- Appointment payment assurance.
- Post Condition:
- Correct payment transaction id have to be sent.

Use-Case Narrative: Appointment Subsystem

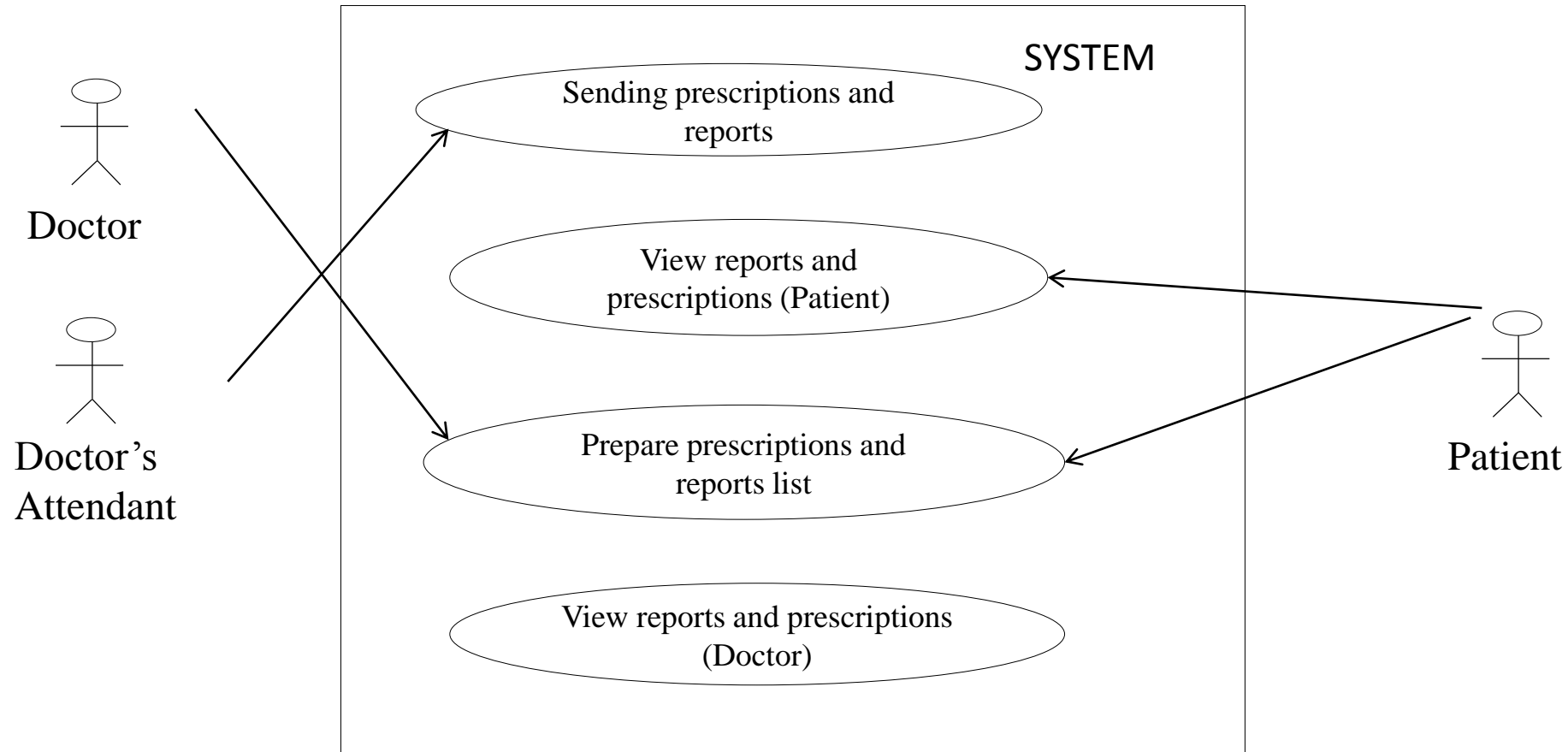
- Finding Data
- Patient pays the appointment payment.
- Patient gives money transaction id to appointed doctor's account.
- Doctor's attendant notify patients for providing wrong transaction id.
- Doctor's attendant forwards the patient's id to doctor.

History Management Subsystem

Use-Cases: History Management Subsystem

Use case name	Actors
Sending prescriptions and reports	Doctors attendant,
View reports and prescriptions (patient)	patient
Prepare prescription and reports list	patient
view prescription and reports list(doc)	doctor

Use-Case Diagram: History Management Subsystem



Use-Case Narrative: History Management Subsystem

- Name: Sending prescription and reports(P & R).
- Priority: High.
- Primary actor: Doctors attendant.
- Precondition: Prescription and reports must be in hand.
- Trigger: When P & R in hand.

Use-Case Narrative: History Management Subsystem

Send Prescription : Typical Course of Events

Actor Action (Doctor)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify doctors Login 5. Show patient list
6. Select Patient	7. Show new prescription from
8. Write new prescription from 9. Send new Prescription	10. Update patient prescription information.

Use-Case Narrative: History Management Subsystem

- Alternate course of event :
Doctor will not give new prescription .So no sending of P & R.
- Conclusion: P & R will be sent.
- Finding Data
Doctor writes down the prescription and new reports will be available supplied by the patient.
Doctor' s attendant will send the prescription to the patient account.
The new reports will also be sent to the patient account by the attendant.

Use-Case Narrative: History Management Subsystem

- Name : View reports and prescriptions(patient)
- Priority : low
- Primary actor : patient
- Secondary actor : None
- Precondition : patient should have new P & R
- Trigger : when doctor's attendant send P & R

Use-Case Narrative: History Management Subsystem

View Prescription (Patient) : Typical Course of Events

Actor Action (Patient)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify patients Login
6. Select prescription list	7. Show prescription list of patient
8.Select prescription from the list	8. Show the prescription information

Use-Case Narrative: History Management Subsystem

- **Conclusion** : Patient will be able to see all the reports and prescriptions
- **Post condition** : None
- **Finding data**
Patient will log into his account
Then he/she can see all the reports and prescriptions

Use-Case Narrative: History Management Subsystem

- Name: Prepare prescription and reports list(P & R)
- Priority : High
- Primary actor: patient
- Secondary actor : None
- Precondition :Prescription and reports are available in the account
- Trigger : Prescription and reports are available in the account

Use-Case Narrative: History Management Subsystem

Prepare Prescription List: Typical Course of Event

Actor Action (Patient)	System Response
1. None	2. Ask for patient login
3. Provide Information for login	4. Verify patients login
6. Select prepare prescription list	7. Show prescription list
8. Select prescriptions from the list that will appear to doctor	9. Show doctors list
10. Select doctor from the list	11. Update patient profile

Use-Case Narrative: History Management Subsystem

- Alternate course of events : None
- Conclusion : the optionally selected history will be available for the selected doctor
- Post condition : History must be available for the selected doctor

Use-Case Narrative: History Management Subsystem

- **Finding data**

Patient will enter into his account and go through for the prescription and reports

For the selected doctor , he will open up the parts or full of his history

He will put a tick mark on those P & R 's which he wants to be available for the doctor

After dragging the OK button, this job will be finished

Use-Case Narrative: History Management Subsystem

- **Name:** view prescription and reports list(P & R) (doctor)
- **Priority :** Medium
- **Primary actor:** doctor
- **Secondary actor :** None
- **Precondition :** Prescription and reports are available in the account chosen by the patient
- **Trigger :** Prescription and reports are available in the patient account

Use-Case Narrative: History Management Subsystem

View Prescription (Doctor) : Typical Course of Events

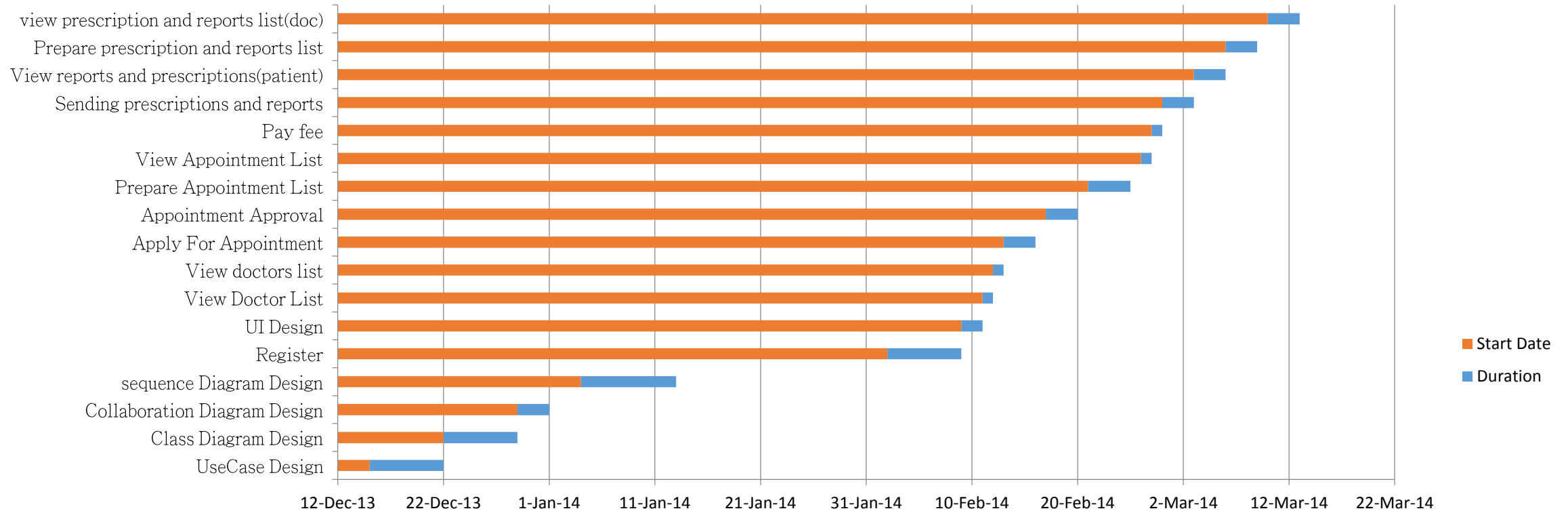
Actor Action (Patient)	System Response
1. None	2. Ask for login
3. Provide Information for login	4. Verify doctors Login
6. Select patient list	7. Show list of appointment patient
8. Select patient from the list	9. Show the list of prescription of the patient
10. Select prescription from the list	11. Show the prescription information

Use-Case Narrative: History Management Subsystem

- **Alternate course of event:** doctor will ask the patient the relative question of his disease.
- **Conclusion :** doctor will see the history of the patient he is treating
- **Finding data**
Doctor will go to the patients account.
Then he will see the previous history of that patient
Obviously, the history will be chosen by the patient.

Gantt Chart

Gantt Chart



	UseCase Design	Class Diagram Design	Collaboration Diagram Design	sequence Diagram Design	Register	UI Design	View Doctor List	View doctors list	Apply For Appointment	Appointment Approval	Prepare Appointment List	View Appointment List	Pay fee	Sending prescriptions and reports	View reports and prescriptions(patient)	Prepare prescription and reports list	view prescription and reports list(doc)
Start Date	15-Dec-13	22-Dec-13	29-Dec-13	4-Jan-14	2-Feb-14	9-Feb-14	11-Feb-14	12-Feb-14	13-Feb-14	17-Feb-14	21-Feb-14	26-Feb-14	27-Feb-14	28-Feb-14	3-Mar-14	6-Mar-14	10-Mar-14
Duration	7	7	3	9	7	2	1	1	3	3	4	1	1	3	3	3	3

Thank You

