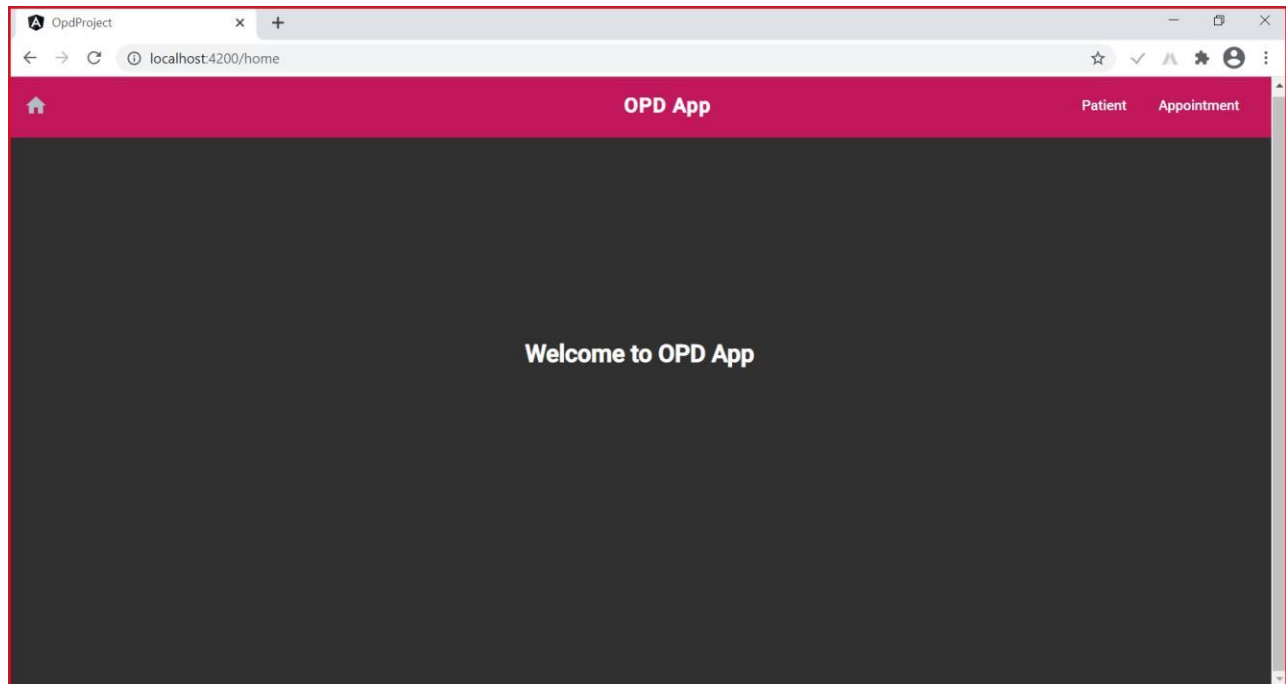


# OPD-APP

## SCREENSHOTS OF PROJECT

### Home Page



## All Patient List

OPD App

Patient Appointment

Patient

Search

Patient ID	Name	Email	Phone	Medical History	Details	Update	Delete	Book Appointment
P000003	James Garcia	james.garcia@gmail.com	122-351-6221					
P000005	Omesh Agrawal	omesh.agrawal@gmail.com	1238891191					
P000006	Tejas Autkar	tejas.autkar@gmail.com	2372718181					
P000007	Sachin Sonawane	sachin.sonawane@gmail.com	3211255331					
P000008	Marco Rosso	marco.rosso@gmail.com	2134822811					
P000009	Timothy Garcia	timothy@gmail.com	2347328191					
P000010	Phineas Triller	phineas.triller@gmail.com	123-445-2222					
P000011	Brent Consolas	Brent.Consolas@gmail.com	2384383812					

## Searching Patient with patient name ("Gar")

OPD App

Patient Appointment

Patient

Search

Gar

Patient ID	Name	Email	Phone	Medical History	Details	Update	Delete	Book Appointment
P000003	James Garcia	james.garcia@gmail.com	122-351-6221					
P000009	Timothy Garcia	timothy@gmail.com	2347328191					
P000012	Jenna Garcia	jenna.garcia@gmail.com	3217238181					

## Searching Patient with Patient Id which has a prefix("P00001")

The screenshot shows the OPD App interface. The search bar at the top of the patient list is filled with 'P00001'. The table below displays a list of patients filtered by this search criteria.

Patient ID	Name	Email	Phone	Medical History	Details	Update	Delete	Book Appointment
P000010	Phineas Triller	phineas.triller@gmail.com	123-445-2222					
P000011	Brent Consolas	Brent.Consolas@gmail.com	2384383812					
P000012	Jenna Garcia	jenna.garcia@gmail.com	3217238181					
P000015	Alexander Lacazette	alexander.lacazette@gmail.com	3127346372					
P000017	Gugev Yevgeny	gugev.yevgeny@gmail.com	7838991929					
P000018	Frodo Trigger	frodo.trigger@gmail.com	3211321231					

## Sorting can be done my name ,Patient Id, email address. Here we are sorting by name

The screenshot shows the OPD App interface with the patient list sorted by name. The 'Name' column header has an upward arrow indicating ascending sort order. The table displays patients sorted alphabetically by name.

Patient ID	Name ↑	Email	Phone	Medical History	Details	Update	Delete	Book Appointment
P000015	Alexander Lacazette	alexander.lacazette@gmail.com	3127346372					
P000011	Brent Consolas	Brent.Consolas@gmail.com	2384383812					
P000018	Frodo Trigger	frodo.trigger@gmail.com	3211321231					
P000017	Gugev Yevgeny	gugev.yevgeny@gmail.com	7838991929					
P000003	James Garcia	james.garcia@gmail.com	122-351-6221					
P000012	Jenna Garcia	jenna.garcia@gmail.com	3217238181					
P000008	Marco Rosso	marco.rosso@gmail.com	2134822811					
P000005	Omesh Agrawal	omesh.agrawal@gmail.com	1238891191					

**Validations when adding a Patient. Submit button will be disabled if any of the validation criteria is not met.**

The screenshot shows the 'New Patient' form in the OPD App. The form contains several input fields with validation errors indicated by red icons and text:

- First Name:** 'asd' (Error: First Name should have atleast 3 characters)
- Last Name:** 'Last name' (Error: required)
- Email:** 'asd@' (Error: Email address is invalid)
- Phone:** '132131131' (Error: Phone format invalid)
- Address:** '123, XYZ Street' (Valid)
- City:** 'Pu' (Error: City should have atleast 3 characters)
- State:** 'Maharashtra' (Error: required)
- Gender:** 'Male' (Valid)
- Birth-Date:** '01/05/2021' (Valid)
- SSN:** '123-31-99997' (Error: SSN format invalid)

The 'Submit' button is disabled.

**When all the input fields are valid. An alert box for the patient id generated from the hibernate is shown.**

The screenshot shows the 'New Patient' form in the OPD App with all input fields valid, indicated by green checkmarks. An alert box is displayed over the form, showing the message: 'localhost:4200 says patient added with id -P000019'. The 'Submit' button is now enabled.

Alert Box Message: localhost:4200 says patient added with id -P000019

Form Fields (All Valid):

- First Name:** David
- Last Name:** Werner
- Email:** david.werner@gmail.com
- Phone:** 1321311312
- Address:** 123, XYZ Street
- City:** Pune
- State:** Maharashtra
- Gender:** Male
- Birth-Date:** 07/12/1995
- SSN:** 123-67-3123

Adding medical history of patient

interCT

Finance and Op

OpdProject

A00000014.pdf

New Tab

FullStackProject

YouTube

localhost:4200/patients/history/P000015

☆

✓

🔍

⚙️

👤

⋮

🏠

OPD App

Patient

Appointment

Patient

📄 Patient List

➕ New Patient

Patient ID

P000015

Height

182

Weight

88

BP-Systolic

120

Diastolic

90

pulseRate

80

Submit

Patient details, where you can update patient details as well as you can add the medical history of the patient.

OpdProject

localhost:4200/patients/details/P000015

☆

✓

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⚙️

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⋮

🏠

OPD App

Patient

Appointment

Patient

📄 Patient List

➕ New Patient

Patient Id	Name	Email	Phone	Gender	DOB	Address	SSN
P000015	Alexander Lacazette	alexander.lacazette@gmail.com	3127346372	MALE	12/10/1988	London Colony,NorthLondon, London	435-12-8889

Update

Medical History

Updated on	Height	Weight	Blood Pressure	Pulse Rate
29/01/2021	182	88	120 - 90	80

Updating Patient info, updating email address of the patient from [james.garcia@gmail.com](mailto:james.garcia@gmail.com) to [james@gmail.com](mailto:james@gmail.com).  
Patient Id and SSN input fields are read only.

OPD App

Patient ID: P000003

First Name: James ✓ Last Name: Garcia ✓

Email: james@gmail.com ✓ Phone: 122-351-6221 ✓

Address: 123, XYZ Street ✓

City: Mumbai ✓ State: Maharashtra ✓

Gender: Male ✓ SSN: 123-45-6915 ✓

Submit

Dialog box is shown, asking for the confirmation for deleting a Patient

OPD App

Search

Patient ID	Name	Email	Phone	Medical History	Details	Update	Delete	Book Appointment
P000009	Timothy Garcia	timothy@gmail.com	2347328191					
P000010	Phineas Triller	p...	123-445-2222					
P000011	Brent Consolas	B...	2384383812					
P000012	Jenna Garcia	jenna.garcia@gmail.com	3217238181					
P000015	Alexander Lacazette	alexander.lacazette@gmail.com	3127346372					
P000017	Gugev Yevgeny	gugev.yevgeny@gmail.com	7838991929					
P000018	Frodo Trigger	frodo.trigger@gmail.com	3211321231					
P000019	David Werner	david.werner@gmail.com	1321311312					

Are you sure want to delete?

Delete Cancel

## Booking Appointment. Alert box confirming that appointment is booked.

OpdProject

localhost:4200/appointments/new/P000015

Appointment fixed for Patient Id P000015

OK

Patient Appointment

Appointment

Appointment List

Patient Id P000015 ✓ Specialist G\_PHYSICIAN ✓

Doctor Name Radhika Sharma ✓ Doctor Id D000010

Appointment Date 02/19/2021 ✓ Slot Start Time 09:30:00 ✓

Slot End Time 10:00:00 ✓

Submit

List of all Appointments. For some appointments update button is disabled as you cannot update appointment 2 days prior to the appointment date (but you can delete/cancel them). For some appointments update button is disabled as you cannot update or delete appointment whose appointment date is passed.

OpdProject

localhost:4200/appointments/all

OPD App

Patient Appointment

Appointment

Appointment List

Search

Appointment Id	Patient ID	Doctor Name	Appointment Date	Start Time	End Time	Download	Update	Delete
A00000010	P000007	Vinod Patil	27/01/2021	10:30:00	11:00:00			
A00000011	P000003	Yash kumar	26/02/2021	12:30:00	13:00:00			
A00000012	P000010	Vikram Batra	05/02/2021	14:30:00	15:00:00			
A00000013	P000005	Rita Yadav	04/02/2021	14:00:00	14:30:00			
A00000014	P000009	Yash kumar	28/01/2021	09:00:00	09:30:00			
A00000015	P000012	Yash kumar	28/01/2021	09:30:00	10:00:00			
A00000017	P000008	Manish Malhotra	31/01/2021	09:30:00	10:00:00			
A00000018	P000010	Rita Yadav	31/01/2021	09:00:00	09:30:00			

When updating appointment, the user cannot change the doctor. He can only reschedule the appointment

localhost:4200/appointments/update/A00000027

localhost:4200 says  
Appointment updated for Patient Id P000015

OK

Appointment

Appointment List

Patient Id

P000015

Affected Organ

G\_PHYSICIAN

Doctor Name

Radhika Sharma

Doctor Id

D000010

Appointment Date

02/03/2021

Slot Start Time

11:30:00

Slot End Time

12:00:00

Submit

We can sort on Doctor name, appointment id, patient Id and appointment date. Here sorting on date (ascending as well as descending) is shown

localhost:4200/appointments/all

OPD App

Patient Appointment

Appointment

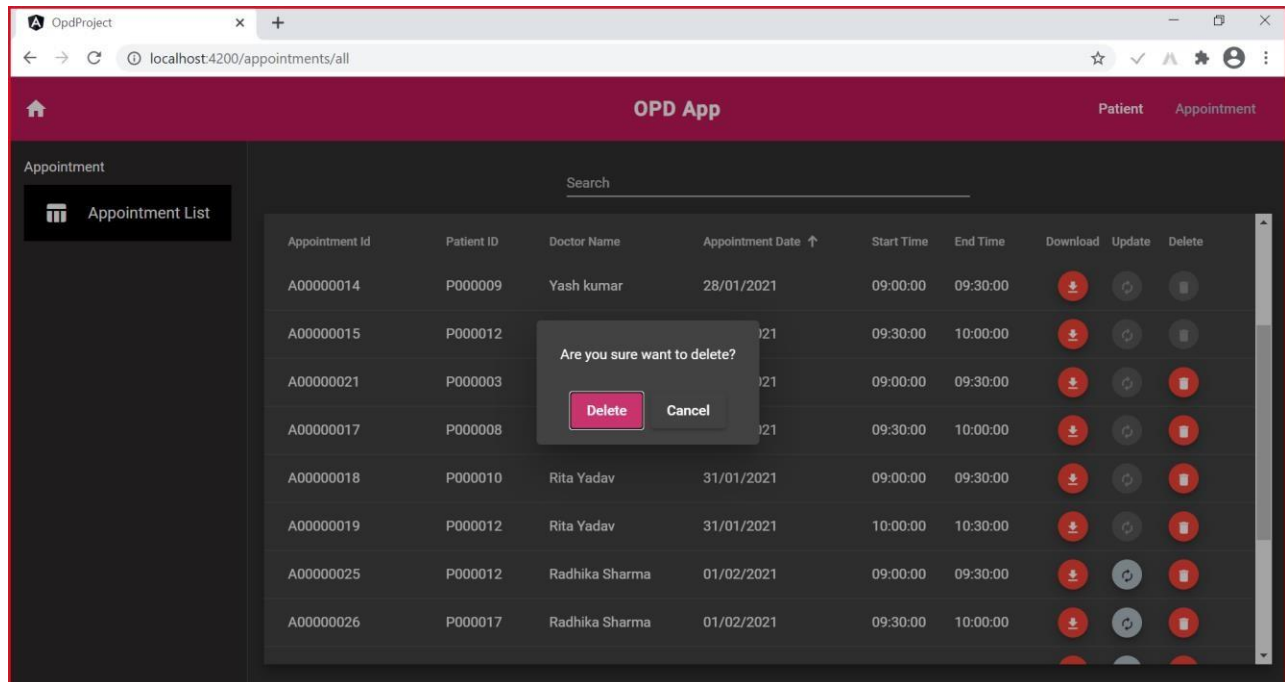
Appointment List

Search

Appointment Id	Patient ID	Doctor Name	Appointment Date ↑	Start Time	End Time	Download	Update	Delete
A00000014	P000009	Yash kumar	28/01/2021	09:00:00	09:30:00			
A00000015	P000012	Yash kumar	28/01/2021	09:30:00	10:00:00			
A00000021	P000003	Vikram Batra	30/01/2021	09:00:00	09:30:00			
A00000017	P000008	Manish Malhotra	31/01/2021	09:30:00	10:00:00			
A00000018	P000010	Rita Yadav	31/01/2021	09:00:00	09:30:00			
A00000019	P000012	Rita Yadav	31/01/2021	10:00:00	10:30:00			
A00000025	P000012	Radhika Sharma	01/02/2021	09:00:00	09:30:00			
A00000026	P000017	Radhika Sharma	01/02/2021	09:30:00	10:00:00			



## Confirmation dialog when deleting an appointment



## Download the pdf report of Appointment

# Appointment Report

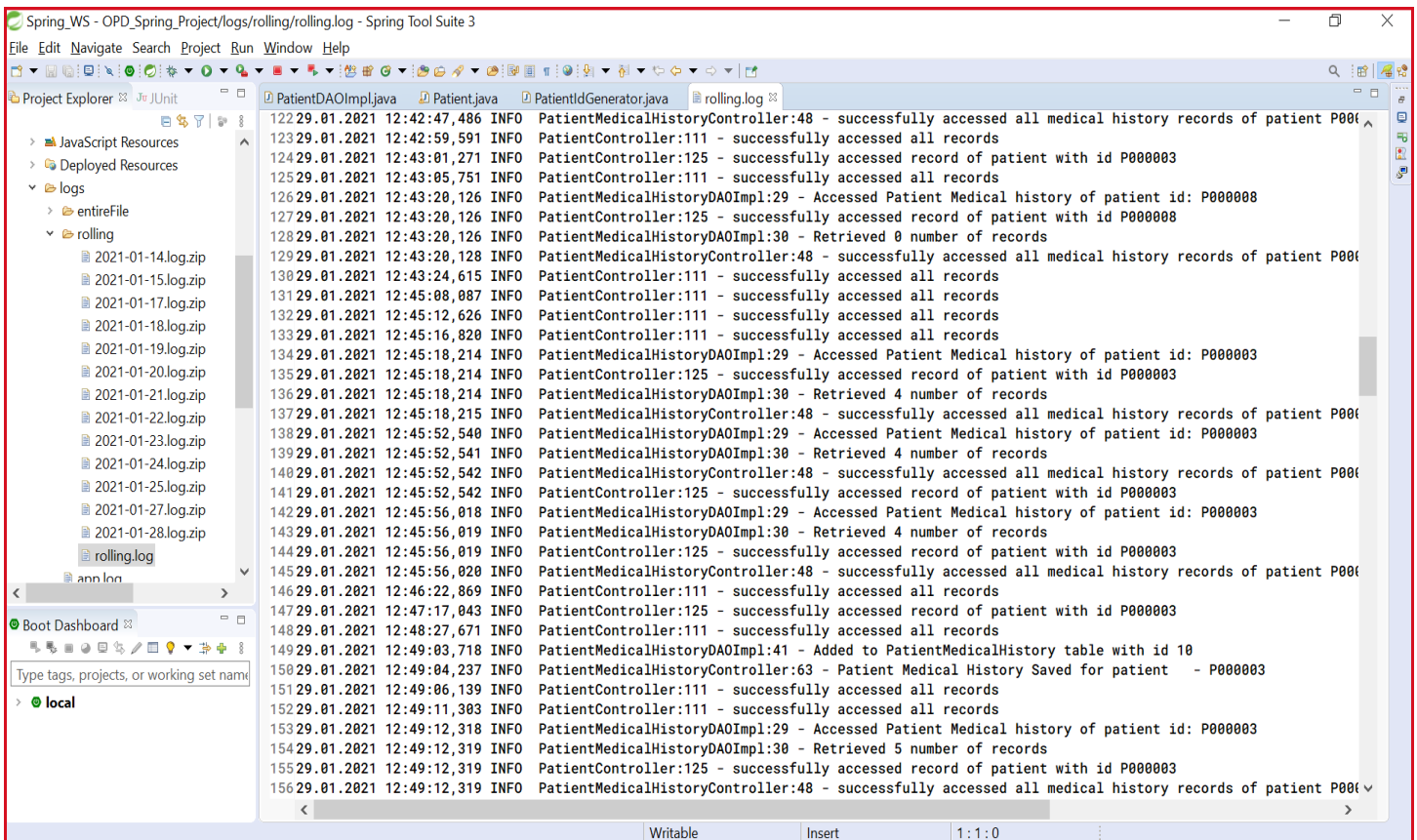
Appointment Date  
31/01/2021

Patient ID - P000012  
Patient Name - Jenna Garcia  
Age - 28

Receptionist

AppointmentId	Doctor Name	Speciality	Slot
A0000019	Rita Yadav	ORTHOPAEDIC	10:00:00 - 10:30:00

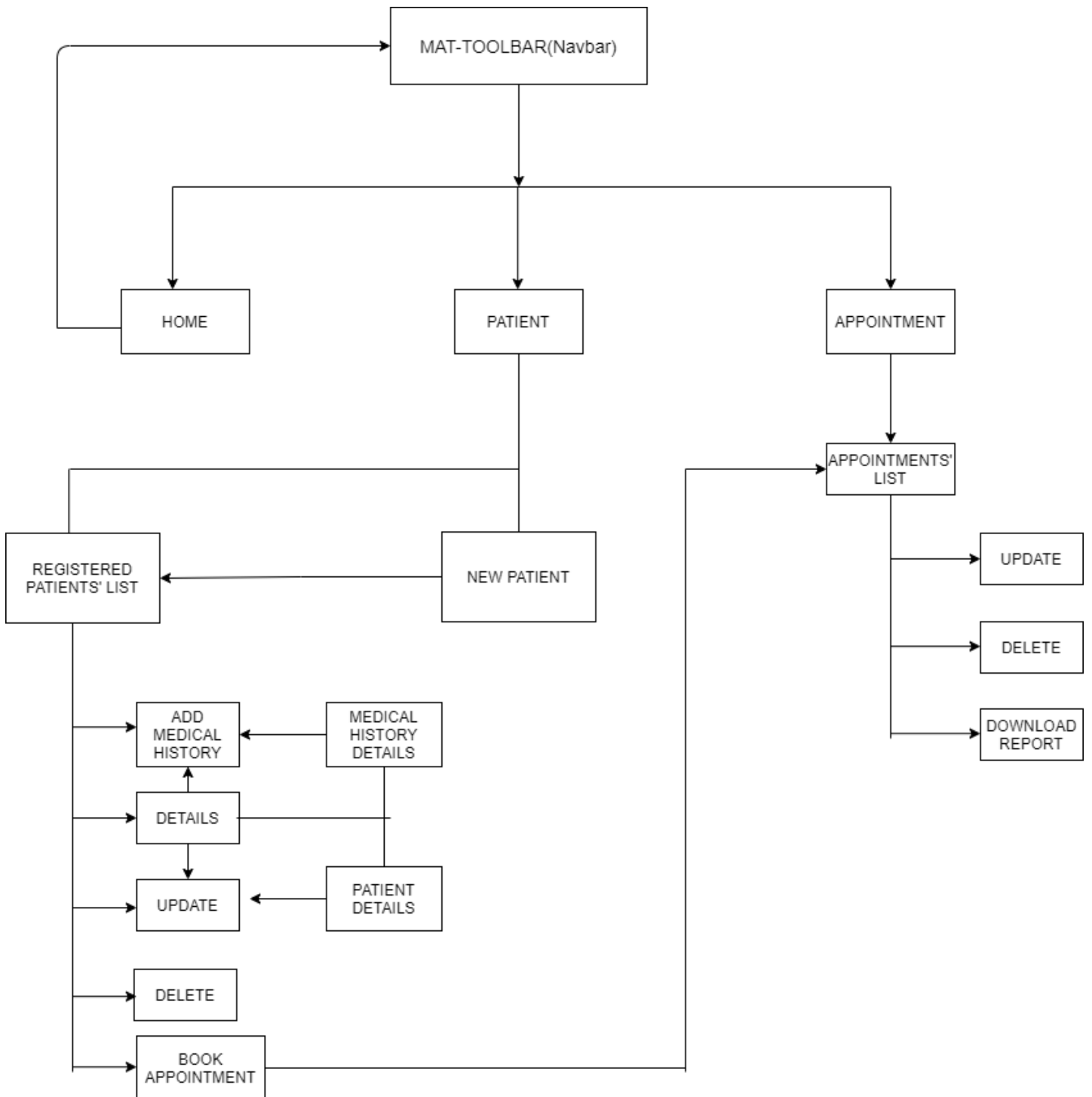
Logs are appended to rolling.log file. Logs of previous days are compressed and saved as (data).log.zip . We have logged Info level logs.



The screenshot displays the Spring Tool Suite 3 interface. On the left, the Project Explorer shows the 'logs' directory containing a 'rolling' subdirectory with files like '2021-01-14.log.zip' through '2021-01-28.log.zip', and the current 'rolling.log' file. The main editor window shows the content of 'rolling.log', which contains a series of log entries in the format: `timestamp timestamp timestamp INFO message`. The messages include actions like 'successfully accessed all medical history records of patient P000003', 'successfully accessed all records', 'Accessed Patient Medical history of patient id: P000003', and 'Retrieved 4 number of records'. The status bar at the bottom indicates 'Writable', 'Insert' mode, and a cursor position of '1:1:0'.

```
122 29.01.2021 12:42:47,486 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
123 29.01.2021 12:42:59,591 INFO PatientController:111 - successfully accessed all records
124 29.01.2021 12:43:01,271 INFO PatientController:125 - successfully accessed record of patient with id P000003
125 29.01.2021 12:43:05,751 INFO PatientController:111 - successfully accessed all records
126 29.01.2021 12:43:20,126 INFO PatientMedicalHistoryDAOImpl:29 - Accessed Patient Medical history of patient id: P000003
127 29.01.2021 12:43:20,126 INFO PatientController:125 - successfully accessed record of patient with id P000003
128 29.01.2021 12:43:20,126 INFO PatientMedicalHistoryDAOImpl:30 - Retrieved 0 number of records
129 29.01.2021 12:43:20,128 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
130 29.01.2021 12:43:24,615 INFO PatientController:111 - successfully accessed all records
131 29.01.2021 12:45:08,087 INFO PatientController:111 - successfully accessed all records
132 29.01.2021 12:45:12,626 INFO PatientController:111 - successfully accessed all records
133 29.01.2021 12:45:16,820 INFO PatientController:111 - successfully accessed all records
134 29.01.2021 12:45:18,214 INFO PatientMedicalHistoryDAOImpl:29 - Accessed Patient Medical history of patient id: P000003
135 29.01.2021 12:45:18,214 INFO PatientController:125 - successfully accessed record of patient with id P000003
136 29.01.2021 12:45:18,214 INFO PatientMedicalHistoryDAOImpl:30 - Retrieved 4 number of records
137 29.01.2021 12:45:18,215 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
138 29.01.2021 12:45:52,540 INFO PatientMedicalHistoryDAOImpl:29 - Accessed Patient Medical history of patient id: P000003
139 29.01.2021 12:45:52,541 INFO PatientMedicalHistoryDAOImpl:30 - Retrieved 4 number of records
140 29.01.2021 12:45:52,542 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
141 29.01.2021 12:45:52,542 INFO PatientController:125 - successfully accessed record of patient with id P000003
142 29.01.2021 12:45:56,018 INFO PatientMedicalHistoryDAOImpl:29 - Accessed Patient Medical history of patient id: P000003
143 29.01.2021 12:45:56,019 INFO PatientMedicalHistoryDAOImpl:30 - Retrieved 4 number of records
144 29.01.2021 12:45:56,019 INFO PatientController:125 - successfully accessed record of patient with id P000003
145 29.01.2021 12:45:56,020 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
146 29.01.2021 12:46:22,869 INFO PatientController:111 - successfully accessed all records
147 29.01.2021 12:47:17,043 INFO PatientController:125 - successfully accessed record of patient with id P000003
148 29.01.2021 12:48:27,671 INFO PatientController:111 - successfully accessed all records
149 29.01.2021 12:49:03,718 INFO PatientMedicalHistoryDAOImpl:41 - Added to PatientMedicalHistory table with id 10
150 29.01.2021 12:49:04,237 INFO PatientMedicalHistoryController:63 - Patient Medical History Saved for patient - P000003
151 29.01.2021 12:49:06,139 INFO PatientController:111 - successfully accessed all records
152 29.01.2021 12:49:11,303 INFO PatientController:111 - successfully accessed all records
153 29.01.2021 12:49:12,318 INFO PatientMedicalHistoryDAOImpl:29 - Accessed Patient Medical history of patient id: P000003
154 29.01.2021 12:49:12,319 INFO PatientMedicalHistoryDAOImpl:30 - Retrieved 5 number of records
155 29.01.2021 12:49:12,319 INFO PatientController:125 - successfully accessed record of patient with id P000003
156 29.01.2021 12:49:12,319 INFO PatientMedicalHistoryController:48 - successfully accessed all medical history records of patient P000003
```

## Flowchart



# Database Design

## 1. Patient Table

Properties	PatientId (Primary key)	Address	City	DateOf Birth	Email	FirstName	Gender	LastName	PhoneNumber
Data Type	Varchar(255)	Varchar(255)	Varchar(30)	Date	Varchar(255)	Varchar(30)	Varchar(255)	Varchar(30)	Varchar(255)

SSN	State
Varchar(255)	Varchar(30)

## 2. Patient History Table

Properties	Id (Primary key)	Diastolic	Height	HistoryUpdatedOn	PatientId	PulseRate	Systolic	Weight
Data Type	int	int	int	datetime2	Varchar(255)	int	int	int

## 3. Appointment Table

Properties	AId	Appointment Id (Primary key)	Patient Id	Affected Organ	Doctor Id	Doctor Name	Appointment Date	StartTime	EndTime	Booking Status
Data Type	int	Varchar(9)	Varchar(255)	Varchar(20)	Varchar(7)	Varchar(50)	date	time	time	bit

4. Doctor Table

Properties	DId	DoctorId (Primary key)	FirstName	LastName	Address	Email	PhoneNumber	City	State
Data Type	int	Varchar(7)	Varchar(20)	Varchar(20)	text	Varchar(50)	Varchar(15)	Varchar(30)	Varchar(30)

DOB	SSN	Speciality
date	char	Varchar(100)

5. Slots Table

Properties	SlotId	StartTime	EndTime
Data Type	int	time	time