



MedBook

Searching for a doctor made easy.

User Requirements and System Specifications

Version 1.0

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1. Design Patterns

1.1 Proxy design pattern

In order to satisfy NFR-2 (i.e., NFR-2: The system must comply with the current data protection regulations set forth by GDPR), the Proxy design pattern is used. This pattern provides the required security and reliability to the system. Specifically, by implementing the Protection Proxy, the ProxyAppointment class allows access to RealAppointment objects only for authenticated users. A RealAppointment object is accessible only by system administrators and the doctor and patient associated with that specific appointment (for example, authentication can be achieved through the properties appPatientID, appDoctorID, and an isAdmin function for the mentioned user categories). Additionally, access rights vary depending on the type of user accessing the object. Furthermore, the Virtual Proxy can also be applied so that an image object is displayed until the RealAppointment is loaded from the database.

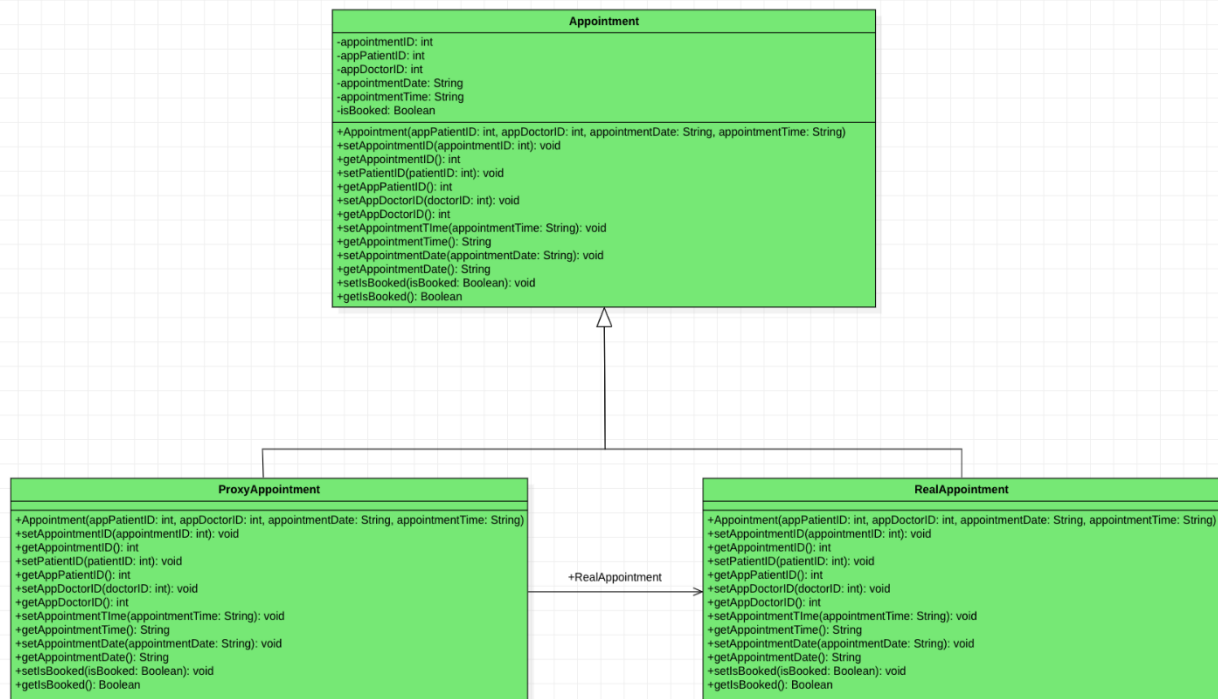


Figure 1: Proxy design pattern



1.2 Abstract Factory design pattern

In order to satisfy NFR-2 (i.e., NFR-2: The system must operate without issues on every device running Windows 7 or a more recent version of the operating system and Android 8 or a more recent version), the Abstract Factory design pattern is employed. With this pattern, our system is capable of being supported by a family of products. The client software creates concrete implementations of the abstract class `UserDeviceFactory`, and depending on which implementation we have, a different version of `createUserDevice()` is called to create a concrete implementation of the abstract `UserDevice`. This pattern also offers us design extensibility so that if we want our system to be supported by a new device, this can be achieved by creating the corresponding concrete classes.

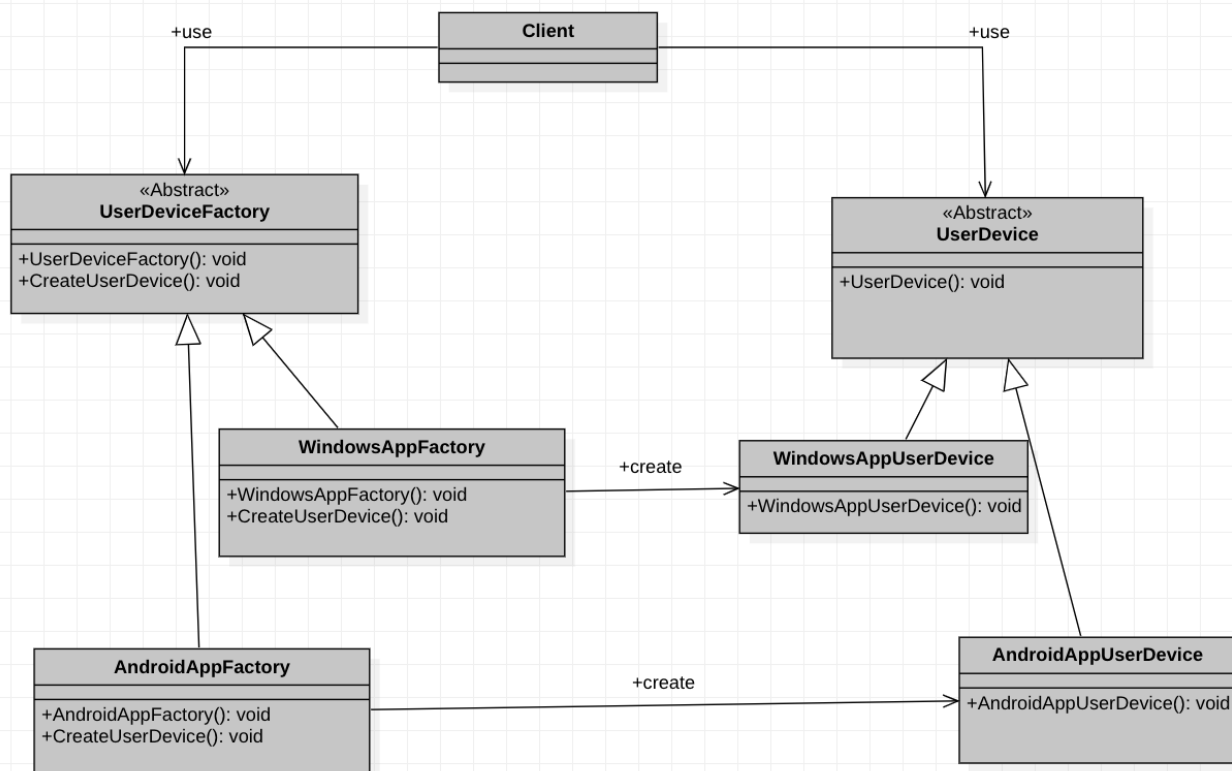


Figure 2: Abstract Factory Design Pattern



1.3 Observer design pattern

In this case, a behavioral design pattern is used to satisfy a functional requirement (i.e., FR-3: The notification system must be able to send notifications to the user). Specifically, whenever the status of an appointment is updated (e.g., change in time or date), the users (Patient and Doctor) involved in that appointment are notified. This is achieved through the `notifyUsers` function, which calls the `displayNotificationMessage` function for each user. The `displayNotificationMessage` function, in turn, creates the corresponding `PatientNotificationMessageGUI` or `DoctorNotificationMessageGUI` object and redirects the user to a screen where a relevant message about the appointment status change is displayed (the message varies depending on the user type). In the event that one of the involved users is offline, the `NotificationMessageGUI` screen (and consequently the notification message) will be displayed to the user as soon as they reconnect to the application.

Note: The classes mentioned above may also include other properties and methods, which are omitted as we focus on the functionality of the pattern.

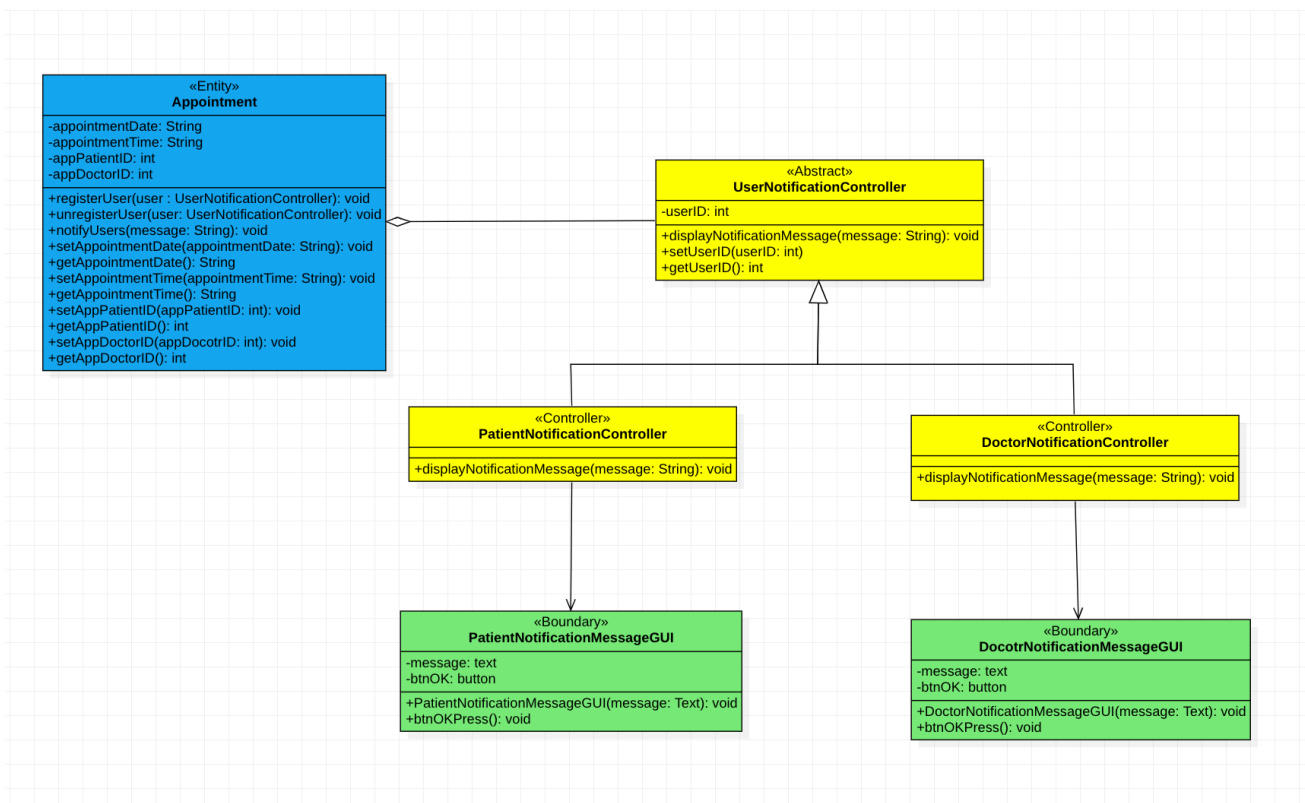


Figure 3: Observer Design Pattern



2. System Architecture

- [API in Swaggerhub](#)

2.1 System resources detection

Based on the principles of REST architecture, identify the Resources of your system (one-off, data, and algorithmic - as defined in the lecture "Advanced Types of Client-Server Architecture: REST") using the classes you recognized in the previous deliverable and record them in a table format as follows (for the sake of summary).

BEC class	REST resource	Endpoints (HTTP Verbs)
Patient	/patient	POST
Patient	/patient/{patientId}	POST, PUT
Doctor	/doctor	POST
Doctor	/doctor/{doctorId}	POST, PUT
Appointment, (Patient)	/appointments/patient/{patientId}	POST, GET
Appointment, (Patient)	/appointments/patient/{patientId} /{appointmentId}	DELETE
Appointment, (Doctor)	/appointments/doctor/{doctorId}	PUT, GET
Appointment, (Doctor)	/appointments/doctor/{doctorId}/ {appointmentId}	PUT
Review, (Doctor)	/reviews/{doctorId}	POST, GET
Report	/reports	POST
None	/search	GET
(Patient)	/notifications/{patientId}	POST, GET, DELETE
(Doctor)	/notifications/{doctorId}	POST, GET, DELETE



2.2 REST Interface Documentation

2.2.1 Resource Patient

2.2.1.1 Patient data model

```
Patient {  
  email*           string  
  password*        string($password)  
  firstName*       string  
  lastName*        string  
  age*             integer  
                  minimum: 12  
                  maximum: 100  
  sex*            string  
  profileImage     string($binary)  
  phoneNumber*     string  
  address*         string  
  patientId*       integer($int64)  
}
```

Figure 4: Patient data model

2.2.1.2 Endpoint POST of resource Patient

POST /patient

FR1 - A user must be able to enter his details to the system.

Parameters Cancel

No parameters

Request body required application/json

The patient that will be created.

```
{  
  "email": "string",  
  "password": "string",  
  "firstName": "string",  
  "lastName": "string",  
  "age": 100,  
  "sex": "string",  
  "profileImage": "string",  
  "phoneNumber": "string",  
  "address": "string"  
}
```

Execute Clear

Figure 5: Explanation and presentation of the resource parameters.



Responses

Curl

```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "email": "string",
    "password": "string",
    "firstName": "string",
    "lastName": "string",
    "age": 100,
    "sex": "string",
    "profileImage": "string",
    "phoneNumber": "string",
    "address": "string"
  }'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient

Server response

Code	Details
201	<p>Response body</p> <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 0, "sex": "string", "phoneNumber": "string", "address": "string", "patientId": 0 }</pre> <p>Response headers</p> <pre>content-length: 113 content-type: application/json;charset=utf-8</pre>

Figure 6: endpoint testing

Responses

Code	Description	Links
201	Patient account created.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links

Media type: application/json

Example Value | Schema

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "patientId": 0
}
```

Media type: application/json

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 7: System responses



2.2.1.3 Endpoint POST of resource Patient, for specific Patient Id

POST /patient/{patientId} Testing purposes

FR1 - A user must be able to enter his details to the system.

Parameters Cancel Reset

Name	Description
patientId * required	ID of the patient to add
integer(\$int64)	
(path)	<input type="text" value="87654321"/>

Request body required application/json

The data of the patient.

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "patientId": 87654321
}
```

Execute Clear

Figure 8: Explanation and presentation of the resource parameters.



Responses

Curl

```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient/87654321' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "email": "string",
    "password": "string",
    "firstName": "string",
    "lastName": "string",
    "age": 100,
    "sex": "string",
    "profileImage": "string",
    "phoneNumber": "string",
    "address": "string",
    "patientId": 87654321
  }'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient/87654321

Server response

Code	Details
201	<p>Response body</p> <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 0, "sex": "string", "phoneNumber": "string", "address": "string", "patientId": 0 }</pre> <p>Response headers</p> <pre>content-length: 113 content-type: application/json;charset=utf-8</pre>

Figure 9: endpoint testing

Responses

Code	Description	Links
201	Patient account created.	No links
400	Bad input parameters.	No links
404	Page not found.	No links
default	unexpected error	No links

Media type:

Controls Accept Header

Example Value | Schema

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "patientId": 0
}
```

Media type:

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 10: System responses



2.2.1.4 Endpoint PUT of resource Patient, for specific Patient Id

PUT

/patient/{patientId}

FR2 - A user must be able to edit his details. FR13 - A user must be able to edit his profile photos.

Parameters

Cancel

Reset

Name	Description
patientId <small>required</small>	ID of the patient to edit
integer(\$int64)	
(path)	
	87654321

Request body required

application/json

The new data of the patient.

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "patientId": 87654321
}
```

Execute

Clear

Figure 11: Explanation and presentation of the resource parameters

Responses

Curl

```
curl -X 'PUT' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient/87654321' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "patientId": 87654321
}'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/patient/87654321
```

Server response

Code

Details

200

Response headers

```
content-length: 20
content-type: application/json;charset=utf-8
```

Figure 12: endpoint testing



Responses		
Code	Description	Links
200	Patient account successfully edited.	No links
201	Patient account created.	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 13: System responses



2.2.2 Resource Doctor

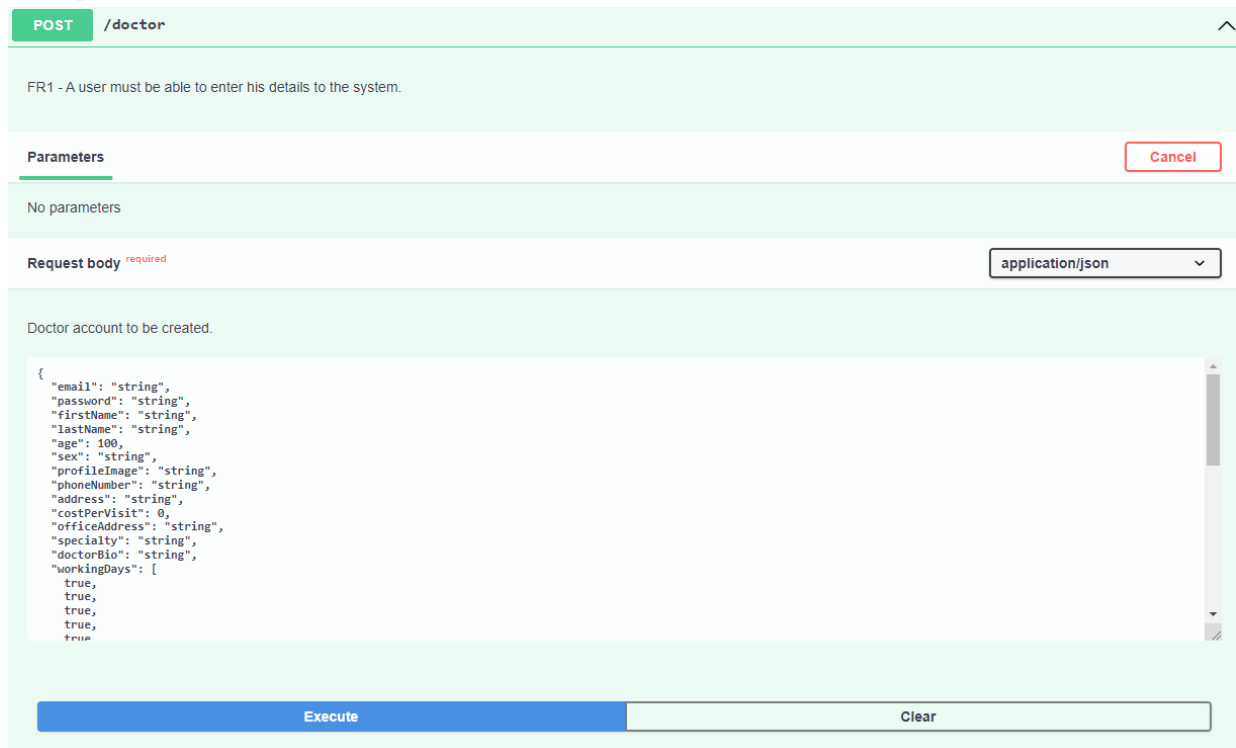
2.2.2.1 Doctor data model



```
Doctor {
  email*: string
  password*: string($password)
  firstName*: string
  lastName*: string
  age*: integer
    minimum: 12
    maximum: 100
  sex*: string
  profileImage: string($binary)
  phoneNumber*: string
  address*: string
  costPerVisit*: integer
  officeAddress*: string
  specialty*: string
  doctorBio: string
  workingDays*: > [...]
  workingHours*: > [...]
  doctorId*: integer($int64)
  officeBackgroundImg: string($binary)
}
```

Figure 14: Doctor data model

2.2.2.2 Endpoint POST of resource Doctor



POST /doctor

FR1 - A user must be able to enter his details to the system.

Parameters Cancel

No parameters

Request body required application/json

Doctor account to be created.

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "costPerVisit": 0,
  "officeAddress": "string",
  "specialty": "string",
  "doctorBio": "string",
  "workingDays": [
    true,
    true,
    true,
    true,
    true
  ]
}
```

Execute **Clear**

Figure 15: Explanation and presentation of the resource parameters.



Server response

Code	Details
201	<p>Response body</p> <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 0, "sex": "string", "phoneNumber": "string", "address": "string", "costPerVisit": 0, "officeAddress": "string", "specialty": "string", "doctorBio": "string", "workingDays": [true], "workingHours": [true], "doctorId": 0 }</pre> <p>Response headers</p> <pre>content-length: 172 content-type: application/json;charset=utf-8</pre>

Figure 16: endpoint testing



Responses		
Code	Description	Links
201	Doctor account created. Media type application/json Controls Accepts header Example Value Schema <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 100, "sex": "string", "profileImage": "string", "phoneNumber": "string", "address": "string", "costPerVisit": 0, "officeAddress": "string", "specialty": "string", "doctorBio": "string", "workingDays": [true, true, true, true, true, true, true], }</pre>	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error Media type application/json Example Value Schema <pre>{ "code": 0, "message": "string" }</pre>	No links

Figure 17: System responses



2.2.2.3 Endpoint POST of resource Doctor, for specific doctorId

POST /doctor/{doctorId} Testing purposes

FR1 - A user must be able to enter his details to the system.

Parameters Cancel

Name	Description
doctorId * required integer(\$int64) (path)	ID of the doctor to add

Request body required application/json

The data of the doctor:

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "costPerVisit": 0,
  "officeAddress": "string",
  "specialty": "string",
  "doctorBio": "string",
  "workingDays": [
    true,
    true,
    true,
    true
  ]
}
```

Execute Clear

Figure 18: Explanation and presentation of the resource parameters.

Server response

Code **Details**

201

Response body

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 0,
  "sex": "string",
  "phoneNumber": "string",
  "address": "string",
  "costPerVisit": 0,
  "officeAddress": "string",
  "specialty": "string",
  "doctorBio": "string",
  "workingDays": [
    true
  ],
  "workingHours": [
    true
  ],
  "doctorId": 0
}
```

Download

Response headers

```
content-length: 172
content-type: application/json;charset=utf-8
```

Figure 19: endpoint testing



Responses		
Code	Description	Links
201	Doctor account created.	No links
<div>Media type application/json</div> <div>Controls Accept Header</div> <div>Example Value Schema</div> <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 100, "sex": "string", "profileImage": "string", "phoneNumber": "string", "address": "string", "costPerVisit": 0, "officeAddress": "string", "specialty": "string", "doctorBio": "string", "workingDays": [true, true, true, true, true, true, true], }</pre>		
400	Bad input parameters.	No links
404	Page not found.	No links
default	unexpected error	No links
<div>Media type application/json</div> <div>Example Value Schema</div> <pre>{ "code": 0, "message": "string" }</pre>		

Figure 20: System responses



2.2.2.4 Endpoint PUT of resource Doctor, for specific doctorId

PUT /doctor/{doctorId}

FR2 - A user must be able to edit his details. FR13 - A user must be able to edit his profile photos.

Parameters Cancel

Name	Description
doctorId * required integer(\$int64) (path)	ID of the doctor to edit

Request body * required application/json

The new data of the patient.

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 100,
  "sex": "string",
  "profileImage": "string",
  "phoneNumber": "string",
  "address": "string",
  "costPerVisit": 0,
  "officeAddress": "string",
  "specialty": "string",
  "doctorBio": "string",
  "workingDays": [
    true,
    true,
    true,
    true,
    true
  ]
}
```

Execute Clear

Figure 21: Explanation and presentation of the resource parameters

Server response

Code	Details
200	<p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With,Content-Type,Accept,Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json;charset=utf-8 date: Tue,31 May 2022 10:15:11 GMT etag: W/"14-4DhJ6nhrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 200 OK</pre> <p>Request duration</p> <p>758 ms</p>

Figure 22: endpoint testing



Responses		
Code	Description	Links
200	Doctor account successfully edited	No links
201	Doctor account created	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 22: System responses

2.2.3 Resource Appointment

2.2.3.1 Appointment data model

```
Appointment {
  appPatientId* integer($int64)
  appDoctorId* integer($int64)
  appointmentDate* string($date)
  appointmentTime* string
  appointmentId* integer($int64)
  isBooked boolean
}
```

Figure 23: Appointment data model

2.2.3.2 Appointments data model (List of objects Appointment)

```
Appointments {
  Appointments {
    appPatientId* integer($int64)
    appDoctorId* integer($int64)
    appointmentDate* string($date)
    appointmentTime* string
    appointmentId* integer($int64)
    isBooked boolean
  }
}
```

Figure 24: Appointments data model



2.2.3.3 Endpoint POST of resource appointments, for patient and specific patientId

POST /appointments/patient/{patientId}

FR4 - A patient must be able to book an appointment.

Parameters Cancel

Name	Description
patientId * <small>required</small>	ID of the patient
integer(\$int64)	
(path)	<input type="text" value="87654321"/>

Request body required application/json

The chosen appointment.

```
{  "appPatientId": 0,  "appDoctorId": 0,  "appointmentDate": "2022-05-31",  "appointmentTime": "string"}
```

Execute Clear

Figure 25: Explanation and presentation of the resource parameters



Responses

Curl

```
curl -X 'POST' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "appPatientId": 0,
  "appDoctorId": 0,
  "appointmentDate": "2022-05-31",
  "appointmentTime": "string"
}'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321

Server response

Code Details

201

Response body

```
{
  "appPatientId": 0,
  "appDoctorId": 0,
  "appointmentDate": "2015-07-20",
  "appointmentTime": "string",
  "appointmentId": 0,
  "isBooked": true
}
```



Download

Response headers

content-length: 110
content-type: application/json; charset=utf-8

Figure 26: endpoint testing

Responses		
Code	Description	Links
201	Doctor account created. Media type <div>application/json</div> Controls Accept header: Example Value Schema <pre>{ "appPatientId": 0, "appDoctorId": 0, "appointmentDate": "2022-05-31", "appointmentTime": "string", "appointmentId": 0, "isBooked": true }</pre>	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error Media type <div>application/json</div> Example Value Schema <pre>{ "code": 0, "message": "string" }</pre>	No links

Figure 27: System responses



2.2.3.4 Endpoint GET of resource appointments, for patient and specific patientId

GET /appointments/patient/{patientId}

FR8 - A user must be able to view his appointments.

Parameters Cancel

Name	Description
patientId * required	ID of the patient.
integer(int64)	
(path)	<input type="text" value="87654321"/>

Execute **Clear**

Figure 28: Explanation and presentation of the resource parameters

Responses

Curl

```
curl -X 'GET' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321' \
-H 'accept: application/json'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "appPatientId": 0, "appDoctorId": 0, "appointmentDate": "2015-07-20", "appointmentTime": "string", "appointmentId": 0, "isBooked": true }</pre> <p>Response headers</p> <pre>content-length: 114 content-type: application/json;charset=utf-8</pre>

Figure 29: endpoint testing

Responses

Code	Description	Links
200	List with patients appointments	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type
application/json

Example Value | **Schema**

```
{
  "appPatientId": 0,
  "appDoctorId": 0,
  "appointmentDate": "2022-05-31",
  "appointmentTime": "string",
  "appointmentId": 0,
  "isBooked": true
}
```

Media type
application/json

Example Value | **Schema**

```
{
  "code": 0,
  "message": "string"
}
```

Figure 30: System responses



2.2.3.5 Endpoint DELETE of resource appointments, for patient and specific patientId, appointmentId.

DELETE /appointments/patient/{patientId}/{appointmentId} ^

FR5 - A user must be able to cancel an appointment.

Parameters Cancel

Name	Description
patientId * required integer(\$int64) (path)	ID of the patient
appointmentId * required integer(\$int64) (path)	ID of the appointment to be cancelled

Execute Clear

Figure 31: Explanation and presentation of the resource parameters

Responses

Curl

```
curl -X 'DELETE' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321/11223344' \
-H 'accept: application/json'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/patient/87654321/11223344
```

Server response

Code	Details
200	Response headers <pre>content-length: 20 content-type: application/json; charset=utf-8</pre>

Responses

Code	Description	Links
200	Appointment successfully cancelled.	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 32: Endpoint testing and system responses



2.2.3.6 Endpoint PUT of resource appointments, for doctor and specific doctorId.

PUT `/appointments/doctor`
`/{"doctorId"}`

FR4 - A user must be able to enter his details. FR12 - A doctor must be able to edit his available for booking appointments.

Parameters Cancel

Name	Description
doctorId * required <code>integer(\$int64)</code> (path)	ID of the patient <input type="text" value="12345678"/>

Request body **required** application/json

The chosen appointments.

```
[
  {
    "appPatientId": 0,
    "appDoctorId": 0,
    "appointmentDate": "2022-05-31",
    "appointmentTime": "string",
    "appointmentId": 0,
    "isBooked": true
  }
]
```

Execute Clear

Figure 33: Explanation and presentation of the resource parameters



Server response

Code	Details
200	<p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With, Content-Type, Accept, Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json; charset=utf-8 date: Tue, 31 May 2022 15:23:06 GMT etag: W/"14-4DhJ6nhrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 200 OK</pre> <p>Request duration</p> <p>324 ms</p>

Figure 34: endpoint testing

Responses

Code	Description	Links
200	Doctor available appointments uploaded.	No links
201	Doctor available appointments uploaded.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 35: System responses



2.2.3.7 Endpoint GET of resource appointments, for doctor and specific doctorId.

GET /appointments/doctor/{doctorId}

FR8 - A user must be able to view his appointments.

Parameters Cancel

Name	Description
doctorId * required integer(\$int64) (path)	ID of the doctor.

Execute

Clear

Figure 36: Explanation and presentation of the resource parameters

Responses

Curl

```
curl -X 'GET' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/doctor/12345678' \
-H 'accept: application/json'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/doctor/12345678
```

Server response

Code	Details
200	<div>Response body<pre>[{ "appPatientId": 0, "appDoctorId": 0, "appointmentDate": "2015-07-20", "appointmentTime": "string", "appointmentId": 0, "isBooked": true }]</pre><div>Download</div></div> <div>Response headers<pre>content-length: 114 content-type: application/json;charset=utf-8</pre></div>

Figure 37: endpoint testing



Responses		
Code	Description	Links
200	List with doctors appointments	No links
<div>Media type application/json</div> <div>Controls Accept header</div> <div>Example Value Schema</div> <pre>{ "appPatientId": 0, "appDoctorId": 0, "appointmentDate": "2022-05-31", "appointmentTime": "string", "appointmentId": 0, "isBooked": true }</pre>		
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links
<div>Media type application/json</div> <div>Example Value Schema</div> <pre>{ "code": 0, "message": "string" }</pre>		

Figure 38: System responses

2.2.3.9 Endpoint PUT of resource appointments, for doctor and specific doctorId, appointmentId.

PUT /appointments/doctor/{doctorId}/{appointmentId}

FR5 - A user must be able to cancel an appointment. FR14 - A doctor must be able to mark an available for booking appointment as booked.

Parameters Cancel

Name	Description
doctorId * required integer(\$int64) (path)	ID of the doctor
appointmentId * required integer(\$int64) (path)	ID of the appointment

Request body required application/json

The appointment to be changed.

```
{
  "appPatientId": 0,
  "appDoctorId": 0,
  "appointmentDate": "2022-05-31",
  "appointmentTime": "string",
  "appointmentId": 0,
  "isBooked": true
}
```

Execute Clear

Figure 39: Explanation and presentation of the resource parameters



Responses

Curl

```
curl -X 'PUT' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/doctor/12345678/11223344' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "appPatientId": 0,
    "appDoctorId": 0,
    "appointmentDate": "2022-05-31",
    "appointmentTime": "string",
    "appointmentId": 0,
    "isBooked": true
  }'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/appointments/doctor/12345678/11223344

Figure 40: endpoint testing

Responses

Code	Description	Links
200	Appointment availability successfully changed.	No links
201	Appointment availability successfully created.	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 41: System responses



2.2.4 Resource Review

2.2.4.1 Review data model

```
Review {  
  imgProfile      string($binary)  
  txtName*        string  
  imgHeart        string($binary)  
  txtRating*      string  
  txtDay          string  
  txtReview       string  
}
```

Figure 42: Review data model

2.2.4.2 Data model Reviews (List of objects Review)

```
Reviews [Reviews {  
  imgProfile      string($binary)  
  txtName*        string  
  imgHeart        string($binary)  
  txtRating*      string  
  txtDay          string  
  txtReview       string  
}]
```

Figure 43: Reviews data model

2.2.4.3 Endpoint POST of resource reviews, for specific doctorId.



POST /reviews/{doctorId}

FR6 - A patient must be able to write a review about the doctor following the date of the booked appointment.

Parameters Cancel

Name	Description
doctorId required	ID of the doctor being reviewed.
integer (int64) (path)	<input type="text" value="12345678"/>

Request body required application/json

The review to be submitted.

```
{
  "imgProfile": "string",
  "txtName": "string",
  "imgHeart": "string",
  "txtRating": "string",
  "txtDay": "string",
  "txtReview": "string"
}
```

Execute Clear

Figure 44: Explanation and presentation of the resource parameters

Responses

Curl

```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reviews/12345678' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "imgProfile": "string",
    "txtName": "string",
    "imgHeart": "string",
    "txtRating": "string",
    "txtDay": "string",
    "txtReview": "string"
  }'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reviews/12345678
```

Server response

Code	Details
201	<p>Response headers</p> <pre>content-length: 20 content-type: application/json;charset=utf-8</pre>

Figure 45: endpoint testing



Responses		
Code	Description	Links
201	The review submitted.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links
Media type		
application/json		
Controls Accept Header		
Example Value Schema		
<pre>{ "code": 0, "message": "string" }</pre>		

Figure 46: System responses

2.2.4.4 Endpoint GET of resource reviews, for specific doctorId.

GET /reviews/{doctorId}

FR7 - A patient must be able to view doctor's reviews

Parameters

Cancel

Name	Description
doctorId * required	ID of the doctor being reviewed.
integer(\$int64)	
(path)	12345678

Execute Clear

Figure 47: Explanation and presentation of the resource parameters



Responses

Curl

```
curl -X 'GET' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reviews/12345678' \
-H 'accept: application/json'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reviews/12345678

Server response

Code Details

200

Response body

```
[
  {
    "txtName": "string",
    "txtRating": "string",
    "txtDay": "string",
    "txtReview": "string"
  }
]
```



Download

Response headers

```
content-length: 72
content-type: application/json;charset=utf-8
```

Figure 48: endpoint testing

Responses

Code	Description	Links
200	Reviews are ready for reading	No links
<div>Media type application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <pre>[{ "imgProfile": "string", "txtName": "string", "imgHeart": "string", "txtRating": "string", "txtDay": "string", "txtReview": "string" }]</pre>		
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links
<div>Media type application/json</div> <div>Example Value Schema</div> <pre>{ "code": 0, "message": "string" }</pre>		

Figure 49: System responses



2.2.5 Resource Report

2.2.5.1 Report data model

```
Report {  
  reportText*      string  
                  maxLength: 400  
  reportingUserId* string  
  submittedByDoctor boolean  
}
```

Figure 50: Report data model

2.2.5.2 Endpoint POST of resource reports

POST /reports

FR11 - A user must be able to submit a report.

Parameters Cancel

No parameters

Request body required application/json

The report to be submitted.

```
{  
  "reportText": "string",  
  "reportingUserId": "string",  
  "submittedByDoctor": true  
}
```

Execute Clear

Figure 51: Explanation and presentation of the resource parameters



Responses

Curl

```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reports' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "reportText": "string",
    "reportingUserId": "string",
    "submittedByDoctor": true
  }'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/reports

Server response

Code	Details
201	<p>Response headers</p> <pre>content-length: 20 content-type: application/json;charset=utf-8</pre>

Figure 52: endpoint testing

Responses

Code	Description	Links
201	The report submitted successfully.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 53: System responses



2.2.6 Resource Search

2.2.6.1 Doctors data model

```
Doctors ▾ [Doctors ▾ {  
  email*           string  
  password*        string($password)  
  firstName*       string  
  lastName*        string  
  age*             integer  
                  minimum: 12  
                  maximum: 100  
  sex*             string  
  profileImage     string($binary)  
  phoneNumber*     string  
  address*         string  
  costPerVisit*    integer  
  officeAddress*   string  
  specialty*       string  
  doctorBio        string  
  workingDays*     > [...]  
  workingHours*    > [...]  
  doctorId*        integer($int64)  
  officeBackgroundImg string($binary)  
}]
```

Figure 54: Doctors data model

2.2.6.2 Endpoint GET of resource search

GET /search

FR9 - A patient must be able to search for doctors.

Parameters Cancel

Name	Description
inputField string (query)	Typed in search bar <input type="text" value="keyword example"/>
visitCost array(Integer) (query)	The visit cost range of the doctors. <input type="text" value="20"/> <input type="text" value="40"/> Add integer item
rating integer (query)	Minimum doctor rating <input type="text" value="4"/>
earliestAppointment string (query)	Doctors with earliest available appointment within said time-frame <input type="text" value="earliestAppointment"/>
maxDistance string (query)	Maximum distance between patients address and doctors office address <input type="text" value="maxDistance"/>
sortingMethod string (query)	Order of doctors in the results page increasingCost

Execute Clear

Figure 55: Explanation and presentation of the resource parameters



Responses

Curl

```
curl -X 'GET' \
'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/search?inputField=keyword&visitCost=20&visitCost=40&rating=4&sortingMethod=increasingCost' \
-H 'accept: application/json'
```

Request URL

```
https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/search?inputField=keyword&visitCost=20&visitCost=40&rating=4&sortingMethod=increasingCost
```

Server response

Code Details

200

Response body

```
{
  "email": "string",
  "password": "string",
  "firstName": "string",
  "lastName": "string",
  "age": 0,
  "sex": "string",
  "phoneNumber": "string",
  "address": "string",
  "costPerVisit": 0,
  "officeAddress": "string",
  "specialty": "string",
  "doctorBio": "string",
  "workingDays": [
    true
  ],
  "workingHours": [
    true
  ],
  "doctorId": 0
}
```

Response headers

```
content-length: 175
content-type: application/json;charset=utf-8
```

Figure 56: endpoint testing



Responses		
Code	Description	Links
200	List of doctors	No links
<div>Media type application/json</div> <div>Controls Accept header</div> <div>Example Value Schema</div> <pre>{ "email": "string", "password": "string", "firstName": "string", "lastName": "string", "age": 100, "sex": "string", "profileImage": "string", "phoneNumber": "string", "address": "string", "costPerVisit": 0, "officeAddress": "string", "specialty": "string", "doctorBio": "string", "workingDays": [true, true, true, true, true, true, true] }</pre>		
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links
<div>Media type application/json</div> <div>Example Value Schema</div> <pre>{ "code": 0, "message": "string" }</pre>		

Figure 57: System responses



2.2.7 Resource Notifications

2.2.7.1 Endpoint POST of the resource notifications, for specific patientId.

POST /notifications/{patientId}

FR3 - The notification system must be able to notify the users.

Parameters Cancel

Name	Description
patientId required	ID of the patient to be notified.
integer(\$int64)	
(path)	87654321

Request body required text/plain

The notification message.

string

Execute Clear

Figure 58: Explanation and presentation of the resource parameters

Responses

Snippets

cURL (bash) cURL (PowerShell) cURL (CMD)

```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/notifications/87654321' \
  -H 'accept: application/json' \
  -H 'Content-Type: text/plain' \
  -d 'string'
```

Request URL

https://virtserver.swaggerhub.com/kostaGRG/MedBook/1.0.0/notifications/87654321

Server response

Code	Details
201	<p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With, Content-Type, Accept, Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json; charset=utf-8 date: Tue, 31 May 2022 10:23:48 GMT etag: W/"14-4DhJ6nhn3sooLwXlJ6FqT6xz/E" expires: -1 status: 201 Created</pre> <p>Request duration</p> <p>803 ms</p>

Figure 59: endpoint testing



Code	Description	Links
201	The notification was submitted.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 60: System responses

2.2.7.2 Endpoint GET of the resource notifications, for specific patientId.

GET /notifications/{patientId}

FR3 - The notification system must be able to notify the users.

Parameters Cancel

Name	Description
patientId * required	ID of the patient requesting his notification.
integer(\$int64)	
(path)	87654321

Execute Clear

Figure 61: Explanation and presentation of the resource parameters

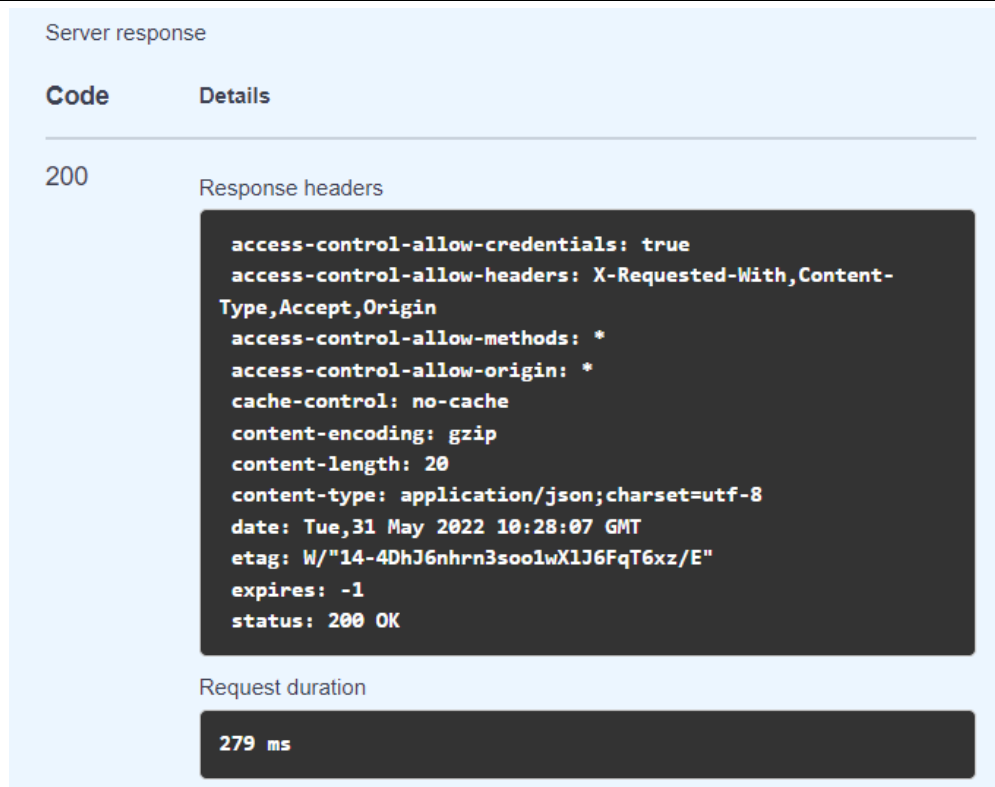


Figure 62: endpoint testing



Responses

Code	Description	Links
200	Notification Received Successfully	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

▼

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 63: System responses



2.2.7.3 Endpoint DELETE of the resource notifications, for specific patientId.

DELETE /notifications/{patientId}

FR3 - The notification system must be able to notify the users.

Parameters

Cancel

Name	Description
patientId * required	ID of the patient.
integer(\$int64)	
(path)	<input type="text" value="87654321"/>

Execute

Clear

Figure 64: Explanation and presentation of the resource parameters

Server response

Code	Details
200	<div>Response headers<pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With,Content-Type,Accept,Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json;charset=utf-8 date: Tue,31 May 2022 10:30:27 GMT etag: W/"14-4DhJ6nhrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 200 OK</pre></div> <div>Request duration</div> <div>1082 ms</div>

Figure 65: endpoint testing



Responses

Code	Description	Links
200	Notification Syccesfully Deleted!	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

▼

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 66: System responses



2.2.7.4 Endpoint POST of the resource notifications, for specific doctorId.

POST /notifications/{doctorId}

FR3 - The notification system must be able to notify the users.

Parameters

Cancel

Name	Description
doctorId * required integer(\$int64) (path)	ID of the doctor to be notified.
	<input type="text" value="12345678"/>

Request body required

text/plain

The notification message.

string

Execute

Clear

Figure 67: Explanation and presentation of the resource parameters



Server response

Code	Details
201	<p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With, Content-Type, Accept, Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json;charset=utf-8 date: Tue, 31 May 2022 10:34:11 GMT etag: W/"14-4DhJ6nhrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 201 Created</pre> <p>Request duration</p> <p>726 ms</p>

Figure 68: endpoint testing

Responses

Code	Description	Links
201	The notification was submitted.	No links
400	Bad input parameters	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

▼

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 69: System responses



2.2.7.5 Endpoint GET of the resource notifications, for specific doctorId.

GET `/notifications/{doctorId}`

FR3 - The notification system must be able to notify the users.

Parameters

Cancel

Name	Description
doctorId * required <code>integer(\$int64)</code> (path)	ID of the doctor requesting his notification.

Execute

Clear

Figure 70: Explanation and presentation of the resource parameters

Server response

Code	Details
200	<div>Response headers</div> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With,Content-Type,Accept,Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json;charset=utf-8 date: Tue,31 May 2022 10:35:57 GMT etag: W/"14-4DhJ6nhnrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 200 OK</pre> <div>Request duration</div> <div>798 ms</div>

Figure 71: endpoint testing



Responses		
Code	Description	Links
200	Notification Received Successfully	No links
<div>Media type</div> <div>text/plain</div> <div>Controls Accept header</div> <div>Example Value Schema</div> <div>string</div>		
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links
<div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{ "code": 0, "message": "string" }</pre></div>		

Figure 72: System responses

2.2.7.6 Endpoint DELETE of the resource notifications, for specific doctorId.

DELETE /notifications/{doctorId}

FR3 - The notification system must be able to notify the users. FR10 - A patient must be able to sort the search results according to increasing/decreasing cost or doctors' ratings.

Parameters

Cancel

Name	Description
doctorId * required	ID of the doctor.
integer(\$int64)	
(path)	<input type="text" value="12345678"/>

Execute

Clear

Figure 73: Explanation and presentation of the resource parameters



Server response

Code	Details
200	<p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-headers: X-Requested-With,Content-Type,Accept,Origin access-control-allow-methods: * access-control-allow-origin: * cache-control: no-cache content-encoding: gzip content-length: 20 content-type: application/json;charset=utf-8 date: Tue,31 May 2022 10:37:15 GMT etag: W/"14-4DhJ6nhrn3soo1wXlJ6FqT6xz/E" expires: -1 status: 200 OK</pre> <p>Request duration</p> <p>753 ms</p>

Figure 74: endpoint testing

Responses

Code	Description	Links
200	Notification Syccesfully Deleted!	No links
400	Bad input parameter	No links
404	Page not found.	No links
default	unexpected error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "code": 0,
  "message": "string"
}
```

Figure 75: System responses



Appendix I – Open Issues

- There is room for the implementation of additional design patterns for other non-functional and/or functional requirements. In this specific deliverable, it was requested to implement indicatively 3 design patterns.