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Advanced Backend & Feature Engineering

1.0.0 OAS 3.1

/openapi.json

FastAPI backend with JWT, RBAC, services, repositories, file upload and testing

Authorize

Authentication

POST	/api/v1/auth/register	Register
POST	/api/v1/auth/login	Login
POST	/api/v1/auth/forgot-password	Forgot Password
POST	/api/v1/auth/reset-password	Reset Password

Users

GET	/api/v1/users/	Get Users

Doctors

POST	/api/v1/doctors/	Create Doctor
GET	/api/v1/doctors/	Get Doctors
GET	/api/v1/doctors/{doctor_id}	Get Doctor
PUT	/api/v1/doctors/{doctor_id}	Update Doctor

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PUT /api/v1/doctors/{doctor_id} Update Doctor

DELETE /api/v1/doctors/{doctor_id} Delete Doctor

Patients

POST /api/v1/patients/ Create Patient

GET /api/v1/patients/ Get Patients

GET /api/v1/patients/{patient_id} Get Patient

PUT /api/v1/patients/{patient_id} Update Patient

DELETE /api/v1/patients/{patient_id} Delete Patient

Appointments

POST /api/v1/appointments/ Create Appointment

GET /api/v1/appointments/ Get Appointments

PUT /api/v1/appointments/{appointment_id}/status Update Appointment Status

PUT /api/v1/appointments/{appointment_id}/cancel Cancel Appointment

Files

POST /api/v1/files/upload/{patient_id} Upload File

GET /api/v1/files/patient/{patient_id} Get Patient Files

default

GET / Home

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http://127.0.0.1:8000/docs#/ 90%

default

GET / Home

Schemas

- AppointmentCreate > Expand all object
- AppointmentStatusUpdate > Expand all object
- Body_login_api_v1_auth_login_post > Expand all object
- Body_upload_file_api_v1_files_upload__patient_id__post > Expand all object
- DoctorCreate > Expand all object
- DoctorUpdate > Expand all object
- ForgotPasswordSchema > Expand all object
- HTTPValidationError > Expand all object
- PatientCreate > Expand all object
- PatientUpdate > Expand all object
- ResetPasswordSchema > Expand all object
- UserCreate > Expand all object
- ValidationError > Expand all object

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/auth/register' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "Sandhiya",
  "email": "sandhiya@gmail.com",
  "password": "sandhiya123",
  "role": "Admin"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/auth/register
```

Server response

Code	Details
200	**Response body**

```
{
  "success": true,
  "message": "User registered successfully",
  "data": {
    "id": 1,
    "name": "Sandhiya",
    "email": "sandhiya@gmail.com",
    "role": "Admin"
  }
}
```

Download

Response headers

```
content-length: 135
content-type: application/json
date: Thu,07 May 2026 10:54:50 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response Media type application/json Controls `Accept` header. **Example Value** | Schema	*No links*

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/auth/login' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/x-www-form-urlencoded' \
  -d 'grant_type=password&username=sandhiya%40gmail.com&password=sandhiya123&client_id=string&client_secret=********'
```

Request URL

```
http://127.0.0.1:8000/api/v1/auth/login
```

Server response

Code	Details
200	

Response body


```
{
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xlIjoiQWRtaW4iLCJ1c2VyX2lkIjoxLCJleHAiOjE3NzgxNTUyNDN9.hDkiWGIbZDbce_GO1JAGKkZXzx96uUj6onBQ4Hr-3Ro",
  "token_type": "bearer"
}
```


Download

Response headers

```
content-length: 218
content-type: application/json
date: Thu,07 May 2026 11:00:42 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

422	Validation Error	*No links*

Media type

application/json

Example Value | Schema

Advanced Backend & Feature Engineering

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/openapi.json

FastAPI backend with JWT, RBAC, services, repositories, file upload and testing

Authorize

Available authorizations

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.

API requires the following scopes. Select which ones you want to grant to Swagger UI.

OAuth2PasswordBearer (OAuth2, password)

Authorized

Token URL: `/api/v1/auth/login`

Flow: `password`

username: `sandhiya@gmail.com`

password: `******`

Client credentials location: `basic`

client_secret: `******`

Logout Close

Execute Clear

Execute | Clear

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/auth/forgot-password' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "email": "sandhiya@gmail.com"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/auth/forgot-password
```

Server response

Code	Details
200	

Response body


```
{
  "success": true,
  "message": "Password reset token generated",
  "data": {
    "reset_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJleHAiOjE3NzgxNTI2Nzh9.urjSWaiYnNlEcwXrggst7oxNCd2OWtZpxdSvR_UBi0o"
  }
}
```


Download

Response headers

```
content-length: 226
content-type: application/json
date: Thu,07 May 2026 11:02:57 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/auth/reset-password' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJleHAiOjE3NzgxNTI2Nzh9.urjSWaiYnNlEcwXrggst7oxNCd2OWtZpxdSvR_UBi0o",
  "new_password": "sandhiya@123"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/auth/reset-password
```

Server response

Code	Details
200	

Response body

```
{
  "success": true,
  "message": "Password reset successfully",
  "data": null
}
```

Download

Response headers

```
content-length: 68
content-type: application/json
date: Thu,07 May 2026 11:04:24 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*
422	Validation Error	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Media type

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/v1/users/?skip=0&limit=10' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xlIjoiQWRtaW4iLCJ1c2VyX2lkIjoxLCJleHAiOjE3NzgxNTUzMTJ9.txBAj34Mc3dimnWSPVy4uS93PzA23WuiEMYiLj2k8
```

Request URL

```
http://127.0.0.1:8000/api/v1/users/?skip=0&limit=10
```

Server response

Code	Details
200	

Response body


```
{
  "success": true,
  "message": "Users fetched successfully",
  "data": [
    {
      "password": "$2b$12$UIaDm7qUnQCRiAtVOHDpkeAID3.FKZGehSNC1jYlzu.CvXgTAMKUS",
      "id": 1,
      "is_active": true,
      "name": "Sandhiya",
      "email": "sandhiya@gmail.com",
      "role": "Admin"
    }
  ]
}
```


Download

Response headers

```
content-length: 226
content-type: application/json
date: Thu,07 May 2026 11:05:23 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*
422	Validation Error	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/doctors/' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: application/json' \
  -d '{
  "name": "Dr Ishaan Dev",
  "specialization": "Cardiologist",
  "email": "ishaan.dev@gmail.com"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/doctors/
```

Server response

Code	Details
200	

Response body

```
{
  "success": true,
  "message": "Doctor created successfully",
  "data": {
    "name": "Dr Ishaan Dev",
    "specialization": "Cardiologist",
    "is_active": true,
    "email": "ishaan.dev@gmail.com",
    "id": 1
  }
}
```

Download

Response headers

```
content-length: 175
content-type: application/json
date: Thu,07 May 2026 11:08:13 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/v1/doctors/?sort_by=id&skip=0&limit=10' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJy
```

Request URL

```
http://127.0.0.1:8000/api/v1/doctors/?sort_by=id&skip=0&limit=10
```

Server response

Code	Details
200	

Response body


```
{
  "success": true,
  "message": "Doctors fetched successfully",
  "data": [
    {
      "name": "Dr Ishaan Dev",
      "specialization": "Cardiologist",
      "is_active": true,
      "email": "ishaan.dev@gmail.com",
      "id": 1
    }
  ]
}
```


Download

Response headers

```
content-length: 178
content-type: application/json
date: Thu,07 May 2026 11:08:45 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response Media type application/json Controls `Accept` header. **Example Value** | Schema `"string"`	*No links*
422	Validation Error Media type	*No links*

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/patients/' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: application/json' \
  -d '{
  "name": "Rithvik Arun",
  "age": 35,
  "phone": "9012345678"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/patients/
```

Server response

Code	Details
200	

Response body

```
{
  "success": true,
  "message": "Patient created successfully",
  "data": {
    "id": 1,
    "phone": "9012345678",
    "name": "Rithvik Arun",
    "age": 35
  }
}
```

Download

Response headers

```
content-length: 125
content-type: application/json
date: Thu,07 May 2026 11:09:36 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Execute | Clear

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/v1/patients/?sort_by=id&skip=0&limit=10' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJy
```

Request URL

```
http://127.0.0.1:8000/api/v1/patients/?sort_by=id&skip=0&limit=10
```

Server response

Code	Details
200	Response body


```
{
  "success": true,
  "message": "Patients fetched successfully",
  "data": [
    {
      "id": 1,
      "phone": "9012345678",
      "name": "Rithvik Arun",
      "age": 35
    }
  ]
}
```


Download

Response headers

```
content-length: 128
content-type: application/json
date: Thu,07 May 2026 11:09:48 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/appointments/' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: application/json' \
  -d '{
  "doctor_id": 1,
  "patient_id": 1,
  "appointment_date": "2026-05-10T10:30:00"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/appointments/
```

Server response

Code	Details
200	

Response body

```
{
  "success": true,
  "message": "Appointment created successfully",
  "data": {
    "id": 1,
    "doctor_id": 1,
    "appointment_date": "2026-05-10T10:30:00",
    "patient_id": 1,
    "status": "Pending"
  }
}
```

Download

Response headers

```
content-length: 166
content-type: application/json
date: Thu,07 May 2026 11:10:33 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

422	Validation Error	*No links*

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/appointments/' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: application/json' \
  -d '{
  "doctor_id": 1,
  "patient_id": 1,
  "appointment_date": "2026-05-10T10:30:00"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/appointments/
```

Server response

Code	Details
400 *Undocumented*	Error: Bad Request

Response body

```
{
  "detail": "Doctor already booked for this time slot"
}
```

Download

Response headers

```
content-length: 53
content-type: application/json
date: Thu,07 May 2026 11:11:42 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response Media type: application/json Controls `Accept` header. **Example Value** | Schema `"string"`	*No links*
422	Validation Error Media type: application/json **Example Value** | Schema	*No links*

Execute | Clear

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/v1/appointments/?sort_by=id&skip=0&limit=10' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJy
```

Request URL

```
http://127.0.0.1:8000/api/v1/appointments/?sort_by=id&skip=0&limit=10
```

Server response

Code	Details
200	

Response body


```
{
  "success": true,
  "message": "Appointments fetched successfully",
  "data": [
    {
      "id": 1,
      "doctor_id": 1,
      "appointment_date": "2026-05-10T10:30:00",
      "patient_id": 1,
      "status": "Pending"
    }
  ]
}
```


Download

Response headers

```
content-length: 169
content-type: application/json
date: Thu,07 May 2026 11:13:56 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

Curl

```
curl -X 'PUT' \
  'http://127.0.0.1:8000/api/v1/appointments/1/status' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: application/json' \
  -d '{
  "status": "Pending"
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/appointments/1/status
```

Server response

Code	Details
200	

Response body

```
{
  "success": true,
  "message": "Appointment status updated successfully",
  "data": {
    "id": 1,
    "doctor_id": 1,
    "appointment_date": "2026-05-10T10:30:00",
    "patient_id": 1,
    "status": "Pending"
  }
}
```

Download

Response headers

```
content-length: 173
content-type: application/json
date: Thu,07 May 2026 11:15:50 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```

422	Validation Error	*No links*

file * required
string

Browse... patient_report.pdf

Execute | Clear

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/v1/files/upload/1' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJyb2xl
  -H 'Content-Type: multipart/form-data' \
  -F 'file=@patient_report.pdf;type=application/pdf'
```

Request URL

```
http://127.0.0.1:8000/api/v1/files/upload/1
```

Server response

Code	Details
200	Response body

```
{
  "success": true,
  "message": "File uploaded successfully",
  "data": {
    "file_type": "application/pdf",
    "id": 1,
    "uploaded_at": "2026-05-07T11:21:18.249439",
    "file_name": "patient_report.pdf",
    "patient_id": 1,
    "file_size": 1705
  }
}
```

Download

Response headers

```
content-length: 209
content-type: application/json
date: Thu,07 May 2026 11:21:17 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response Media type	*No links*

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/v1/files/patient/1' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJzYW5kaGl5YUBnbWFpbC5jb20iLCJy
```

Request URL

```
http://127.0.0.1:8000/api/v1/files/patient/1
```

Server response

Code	Details
200	

Response body


```
{
  "success": true,
  "message": "Patient files fetched successfully",
  "data": [
    {
      "file_type": "application/pdf",
      "id": 1,
      "uploaded_at": "2026-05-07T11:21:18.249439",
      "file_name": "patient_report.pdf",
      "patient_id": 1,
      "file_size": 1705
    }
  ]
}
```


Download

Response headers

```
content-length: 219
content-type: application/json
date: Thu,07 May 2026 11:21:39 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	*No links*

Media type

application/json

Controls `Accept` header.

Example Value | Schema

```
"string"
```