

BACKEND DEVELOPER TEST DOCUMENTATION

[\[REPO - LINK\]](#)

1. TEST CASE

I. Login Endpoint (api/login/) :-

→ Valid Login:

1. Input: Valid username and password.
2. Expected Output: Successful login with a status code of 200 and a response message.

→ Invalid Login:

1. Input: Invalid username or password.
2. Expected Output: Unauthorised access with a status code of 401 and an appropriate error message.

II. File Upload (api/upload/) :-

→ Valid File Upload:

1. Input: Upload a file with a valid format.
2. Expected Output: Successful file upload with a status code of 201 and a success message.

→ Invalid File Type Upload:

1. Input: Attempt to upload a file with an invalid format.
2. Expected Output: Rejection of the file upload with a status code of 400 and an error message.

III. User Signup (api/signup/)

→ Valid User Signup:

1. Input: Provide valid user data.
2. Expected Output: Successful user registration with a status code of 201 and a registration confirmation message.

→ Invalid User Signup:

1. Input: Attempt to sign up with invalid user data.
2. Expected Output: Rejection of user registration with a status code of 400 and appropriate error messages.

IV. Email Verification (api/verify-email/uid/token/) :-

→ Valid Email Verification:

1. Input: Use a valid verification link.
2. Expected Output: Successful email verification with a status code of 200 and a verification confirmation message.

→ Invalid Email Verification:

1. Input: Use an invalid or expired verification link.

2. Expected Output: Unsuccessful email verification with a status code of 400 and an error message.

V. Download file (api/download-file/file-id/) :-

→ **Valid File Download:**

1. Input: Request to download a file with a valid file ID.
2. Expected Output: Successful file download with a valid download link and a status code of 200.

VI. List All Uploaded Files (api/list-uploaded-files/) :-

→ **List Uploaded Files:**

1. Input: Request to list all uploaded files.
2. Expected Output: Successfully retrieve a list of uploaded files with a status code of 200.

2. DEVELOPMENT PLAN

I. Environment Setup :-

=> Ensuring the production environment is ready by installing all the necessary tools for running Django applications.

=> By Keeping things organised using a requirements.txt file to manage dependencies.

II. Database Migration (PostgreSQL):

=> Making sure the database is set up correctly by running Django's migration commands.

=> Using PostgreSQL for the database as it's reliable and performs well.

III. Web Server Configuration (Nginx): Configuring Nginx to deal with static files and direct requests to the Django app.

IV. Security Measures:

=> Securing data in transit by enabling HTTPS.

=> Keeping the server safe by following security best practices and setting up firewalls.

V. Email Configuration: Setting up email configurations (e.g., SMTP) for user verification and improved communication.

VI. Documentation: Regularly updating and maintaining a clear documentation outlining the backend development process.

VII. Post Deployment Monitoring:

=> Implement processes for post-deployment monitoring using Render to ensure ongoing stability.

=> Developing effective communication strategies to inform users about new features and updates.

RESPONSE SNAPSHOTS

GET

http://127.0.0.1:8000/api/get-token/

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

<input checked="" type="checkbox"/>	Cookie	<input checked="" type="checkbox"/>	csrf_token=JotQOIFmgjsAZIF
<input checked="" type="checkbox"/>	Postman-Token	<input checked="" type="checkbox"/>	<calculated when request is se
<input checked="" type="checkbox"/>	Host	<input checked="" type="checkbox"/>	<calculated when request is se
<input checked="" type="checkbox"/>	User-Agent	<input checked="" type="checkbox"/>	PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>	Accept	<input checked="" type="checkbox"/>	*/*
<input checked="" type="checkbox"/>	Accept-Encoding	<input checked="" type="checkbox"/>	gzip, deflate, br
<input checked="" type="checkbox"/>	Connection	<input checked="" type="checkbox"/>	keep-alive
<input type="checkbox"/>	Content-Type		application/json
<input type="checkbox"/>			
	Key		Value

ody

Cookies (2)

Headers (11)

Test Results

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2  |    "csrf_token": "0x4KFED93KHy1uAxFBiVgPA1cLS8wa4wXtnqpvimkQAHJU5IkZHXvxbycGwXbSek"
3  }
```

POST

▼

http://127.0.0.1:8000/api/login/

Params	Authorization	Headers (11)	Body ●	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>		Content-Type				multipart/form-data, boundary-
<input checked="" type="checkbox"/>		Content-Length				<calculated when request is se
<input checked="" type="checkbox"/>		Host				<calculated when request is se
<input checked="" type="checkbox"/>		User-Agent				PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>		Accept				*/*
<input checked="" type="checkbox"/>		Accept-Encoding				gzip, deflate, br
<input checked="" type="checkbox"/>		Connection				keep-alive
<input checked="" type="checkbox"/>		X-CSRFToken				qLeKMTOfLK53tRPHt6GwQrL5
<input checked="" type="checkbox"/>		Content-Type				application/json
		Key				Value

ody

Cookies (2)

Headers (12)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

≡

```
1 {
2   "message": "Login successful"
3 }
```

POST

▼

http://127.0.0.1:8000/api/upload/

Params

Authorization

Headers (11)

Body ●

Pre-request Script

Tests

Settings

☒

Content-Typemultipart/form-data; boundary:

☒

Content-Length<calculated when request is se

☒

Host<calculated when request is se

☒

User-AgentPostmanRuntime/7.36.0

☒

Accept*/*

☒

Accept-Encodinggzip, deflate, br

☒

Connectionkeep-alive

☒

Content-Typeapplication/json

☒

X-CSRFTokenox4KFED93KHy1uAxFBiVgPA1c

KeyValue

ody Cookies (2) Headers (10) Test Results

Pretty	Raw	Preview	Visualize	JSON ▼	≡
1	{				
2	"message": "File uploaded successfully"				
3	}				

POST

▼

http://127.0.0.1:8000/api/signup/

Params	Authorization	Headers (11)	Body ●	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Content-Type					multipart/form-data; boundary:
<input checked="" type="checkbox"/>	Content-Length					<calculated when request is se
<input checked="" type="checkbox"/>	Host					<calculated when request is se
<input checked="" type="checkbox"/>	User-Agent					PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>	Accept					/*/*
<input checked="" type="checkbox"/>	Accept-Encoding					gzip, deflate, br
<input checked="" type="checkbox"/>	Connection					keep-alive
<input checked="" type="checkbox"/>	Content-Type					application/json
<input checked="" type="checkbox"/>	X-CSRFToken					ox4KFED93KHy1uAxFBIvGpA1c
	Key					Value

ody Cookies (2) Headers (10) Test Results

Pretty	Raw	Preview	Visualize	JSON ▼	≡
1	{				
2	"message": "User created successfully. Verification email sent."				
3	}				

GMAIL VERIFICATION :-

to me ▾

Click the following link to verify your email: <http://127.0.0.1:8000/api/verify-email/NQ/c0dzwv-630536b1bf2f8a41dfb8c1a9c14f7a60>

POST ▾

http://127.0.0.1:8000/api/verify-email/NQ/c0dzwv-630536b1bf2f8a41dfb8c1a9c14f7a60

Params

Authorization

Headers (10)

Body

Pre-request Script

Tests

Settings

<input checked="" type="checkbox"/>	Postman-Token		<calculated when request is sent>
<input checked="" type="checkbox"/>	Content-Length		0
<input checked="" type="checkbox"/>	Host		<calculated when request is sent>
<input checked="" type="checkbox"/>	User-Agent		PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>	Accept		*/*
<input checked="" type="checkbox"/>	Accept-Encoding		gzip, deflate, br
<input checked="" type="checkbox"/>	Connection		keep-alive
<input checked="" type="checkbox"/>	Content-Type		application/json
<input checked="" type="checkbox"/>	X-CSRFToken		ox4KFED93KHy1uAxFBiVgPA1cLS8wa4wXtnqpin
	Key		Value

Body

Cookies (2)

Headers (10)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▾

```
1 {
2   "message": "Email verified successfully."
3 }
```

GET

⌵

http://127.0.0.1:8000/api/list-uploaded-files/

arams	Authorization	Headers (9)	Body	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Cookie					csrftoken=J6tQU1Pnrg3jSA2IPyzcpSLHa5eZPSkY; session
<input checked="" type="checkbox"/>	Postman-Token					<calculated when request is sent>
<input checked="" type="checkbox"/>	Host					<calculated when request is sent>
<input checked="" type="checkbox"/>	User-Agent					PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>	Accept					/*/*
<input checked="" type="checkbox"/>	Accept-Encoding					gzip, deflate, br
<input checked="" type="checkbox"/>	Connection					keep-alive
<input checked="" type="checkbox"/>	Content-Type					application/json
<input checked="" type="checkbox"/>	X-CSRFToken					Tdrq4XL6FSHxIPBT0vi2j8quclUXabnzu6M5A6HyhxyzjyvH6
	Key					Value

dy

Cookies (2)

Headers (10)

Test Results

Pretty

Raw

Preview

Visualize

JSON ⌵

```
1  {
2    "files": [
3      {
4        "id": 1,
5        "file": "/media/uploads/He_Deep_Residual_Learning_CVPR_2016_paper_1.docx",
6        "uploaded_at": "2024-01-05T23:52:15.733175+05:30"
7      },
8      {
9        "id": 2,
10       "file": "/media/uploads/He_Deep_Residual_Learning_CVPR_2016_paper_1_5WbSTR9.docx",
11       "uploaded_at": "2024-01-06T15:19:02.210325+05:30"
12     }
13   ]
14 }
```

GET

⌵

http://127.0.0.1:8000/api/download-file/1

arams	Authorization	Headers (9)	Body	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Cookie					csrftoken=J6tQU1Pnrg3jSA2IPyzcpSLHa5eZPSkY; session
<input checked="" type="checkbox"/>	Postman-Token					<calculated when request is sent>
<input checked="" type="checkbox"/>	Host					<calculated when request is sent>
<input checked="" type="checkbox"/>	User-Agent					PostmanRuntime/7.36.0
<input checked="" type="checkbox"/>	Accept					/*/*
<input checked="" type="checkbox"/>	Accept-Encoding					gzip, deflate, br
<input checked="" type="checkbox"/>	Connection					keep-alive
<input checked="" type="checkbox"/>	Content-Type					application/json
<input checked="" type="checkbox"/>	X-CSRFToken					ox4KFED93KHy1uAxFBiVgPA1cLS8wa4wXtnqpvmkQAHJL
	Key					Value

dy Cookies (2) Headers (10) Test Results

Pretty

Raw

Preview

Visualize

JSON ⌵

⌵

```
1 {
2   "download_link": "/download/1/?token=eyJmaWxlX2lkIjoxLCJ1c2VyX2lkIjoxfQ.nAyGIaSyX0jCE5JdCEUX40j1sXI",
3   "message": "success"
4 }
```