

Document Management System (DMS)

Backend — Technical Test Evidence

Mandatory Test Scenarios Evidence (REPLACE • Notifications • DELETE)

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1. REPLACE Workflow Evidence

Scenario: a USER requests a document replacement. The system creates a permission request, locks the document (PENDING_REPLACE), and waits for an ADMIN to approve. After approval, the document is updated transactionally (fileUrl + version increment) and the user receives a notification.

1.1 Initial Upload (baseline document state)

Documents

GET /documents List documents (search + pagination)

POST /documents Create document (upload file)

Parameters

No parameters

Request body required

file required
string (\$binary)
 Laporan_Penyelasan_Prisma_TS2353.docx

title required
string

description
string

 Send empty value

documentType required
string

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:3000/documents' \
  -H 'Content-Type: multipart/form-data' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVC9J.eyJzdWJtOiIjMjQwYjBlNk04ZG8kIjTlMWEtOTlkNlIjNOVlNGl3YnRhOG1lCj1wfPbC16InV:ZkIxQGlhaWnY29tIiicm9zZS16Ii1VTRVlIiCjpyXQ10jE3nZyHkQ8MjkisInV4cI
  -F 'file@/Laporan_Penyelasan_Error_Prisma_TS2353.docx;type=application/vnd.openxmlformats-officedocument.wordprocessingml.document' \
  -F 'title@test_lg' \
  -F 'description=testing upload' \
  -F 'documentType=GENERAL'
```

Request URL

<http://localhost:3000/documents>

Server response

Code	Details
201	<p>Response body</p> <pre>{ "id": "bc5cd7a9-ead1-442a-beff-85637292f5f5", "title": "test_lg", "description": "testing upload", "documentType": "GENERAL", "fileUrl": "/uploads/1771274970008-12537229.docx", "version": 1, "status": "ACTIVE", "createdId": "C24860e6-8add-4b1a-9d6c-4654e7bdab8b", "createdAt": "2020-02-16T20:49:38.096Z" }</pre> <p>Response headers</p> <pre>access-control-allow-credentials: true access-control-allow-origin: http://localhost:3000</pre> <p><input type="button" value="Download"/></p>

Figure 1 — Create document (upload) succeeded (HTTP 201).

1.2 USER creates REPLACE request

Figure 2 — USER calls /documents/{id}/request-replace (HTTP 201), request created and waiting for admin approval.

1.3 ADMIN sees pending request

Approvals

GET /approvals/requests List pending approval requests (Admin only)

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:3000/approvals/requests' \
-H 'accept: */*' \
-H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cIjoiKpVCI9.eyJzdWIiOiI2YjI2ODQ1MS0wNGEiLTkYUfDDE3YihiITFeKzNeN0c3NTYiLC1lbfpbCIGImFkbWluMkByViisInhvbi0iJ0REI3TiisImhdCIGMtC3NTI3NzQ0NiwiZXh0
```

Request URL

http://localhost:3000/approvals/requests

Server response

Code	Details	
200	Response body <pre>[{ "id": "dhdci880-a052-482e-96e6-861b1d11e1d9", "type": "REPLACE", "status": "PENDING_REPLACE", "commentId": "9fcf3f4-6a7-4f59-95d-bf588931639e", "requestedById": "c2406ed-8dd-4b1a-99d-c4654e7bdab", "replaceId": "uploads/171277344115-692283875.md", "createdAt": "2026-02-16T21:25:04.122Z", "document": { "id": "9fcf3f4-6a7-4f59-95d-bf588931639e", "title": "YES_REPLACE_USER-gantt", "description": "A Gantt chart document", "documentType": "GENERAL", "fileId": "uploads/171276989799-370675837.md", "version": 1, "status": "PENDING_REPLACE", "createdById": "c2406ed-8dd-4b1a-99d-c4654e7bdab", "createdAt": "2026-02-16T21:23:09.718Z" }, "requestedBy": { "id": "c2406ed-8dd-4b1a-99d-c4654e7bdab", "email": "user@mail.com", "role": "USER" } }, { "id": "fdch54e-99d-4334-9c83-e302a64b63d2", "type": "REPLACE" }]</pre> <p>Download</p>	
Responses	Response headers <pre>access-control-allow-credentials: true connection: keep-alive content-length: 1398 content-type: application/json; charset=utf-8 date: Mon, 15 Feb 2026 21:31:52 GMT etag: W/"5ef-tACdEO1uBXz5+qMn8N4Z++R8" last-modified: 2026-02-16T21:23:09.718Z vary: Origin x-powered-by: Express</pre>	
Code	Description	Links
200		No links

Figure 3 — ADMIN calls /approvals/requests and sees the REPLACE request with status PENDING.

1.4 ADMIN approves REPLACE request

The screenshot shows a REST API tool interface with the following details:

- Method:** POST
- Endpoint:** /approvals/requests/{id}/approve (Approve request (DELETE/REPLACE) (Admin only))
- Parameters:**

Name	Description
id * required string (path)	PermissionRequest ID dbdc1880-a052-482e-96e6-861b1d11e1d9
- Buttons:** Execute (highlighted), Clear
- Responses:**
 - Curl:** curl -X "POST" \ 'http://localhost:3000/approvals/requests/dbdc1880-a052-482e-96e6-861b1d11e1d9/approve' \ -H 'accept: */*' \ -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVC9.eyJwdWIiOiI2YjI2ODNiMS0wNGExLTlkY2UtODE3YS1hMTFnNzN0NDc3NTY1LC1lbnFpbCI6ImFkbWluMkByWlsInNvbSIsInJvbGUiOiJBRE1TIIssImlhdcIGNTc3MTI3nQ0NiwiZxh-d ''
 - Request URL:** http://localhost:3000/approvals/requests/dbdc1880-a052-482e-96e6-861b1d11e1d9/approve
 - Server response:**

Code	Details
201	Response body: <pre>{ "ok": true, "message": "Replace approved & document updated" }</pre> Response headers: <pre>access-control-allow-credentials: true access-control-allow-origin: http://localhost:3000 connection: keep-alive content-length: 59 content-type: application/json; charset=utf-8 date: Mon, 16 Feb 2026 21:34:25 GMT etag: W/"3b-rpgfF12086UOneV7xzDkkkg/DjBU" keep-alive: timeout=5 vary: Origin x-powered-by: Express</pre>
 - Responses:**

Code	Description	Links
201		No links

Figure 4 — ADMIN approves via /approvals/requests/{id}/approve (HTTP 201).

1.5 Verification after approval (document updated)

Verification points: (1) status returns to ACTIVE, (2) version increments, (3) fileUrl changes to replacement file.

Documents

GET /documents List documents (search + pagination)

Parameters

Cancel

Name	Description
q	Search query (title/description/type)
page	1
limit	10

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:3000/documents?page=1&limit=10'
  -H 'accept: */*' \
  -H 'Authorization: Bearer ey2hhdG10L7UxT1W1tsTxR5cC167spXVC19...ey2xM10112YjI200NUR5h-AG5eLT8kY3U1000C3Y513nTFwz1h0Qc3NTVLLC116FphCTG7rshhAuk93tV1LzLwlybStxTzv4G0D130881711zTz1hC5h7c3h122NgQ8h1w29'
```

Request URL

http://localhost:3000/documents?page=1&limit=10

Server response

Code Details

200 Response body

```
{
  "page": 1,
  "limit": 10,
  "total": 1,
  "totalPages": 1,
  "items": [
    {
      "id": "9fcf394c-8a77-4f10-25d6-ff588931630e",
      "title": "TEST REPLACE USER-gem1",
      "description": "test",
      "documentType": "GENERAL",
      "fileUrl": "/uploads/1771277344115-892283878.md",
      "version": 1,
      "status": "ACTIVE",
      "createdById": "c14004b6-8ddc-4b1a-9965-c46547bd1b",
      "createdAt": "2026-02-16T21:22:00.738Z",
      "updatedById": "c24004b6-8ddc-4b1a-9965-c46547bd1b",
      "updatedAt": "2026-02-16T21:22:00.738Z",
      "email": "user1@mail.com",
      "role": "USER"
    }
  ]
}
```

Download

Response headers

```
access-control-allow-credentials: true
connection: keep-alive
content-length: 3198
content-type: application/json; charset=utf-8
date: Sun, 18 Feb 2026 22:22:38 GMT
etag: W/"c7c-0b90944c-cliquXRAhXenYkq"
keep-alive: timeout=5
vary: Origin
x-powered-by: Express
```

Responses

Code Description

200

No links

Figure 5 — /documents list shows updated document (ACTIVE) with version increment and updated fileUrl.

2. Notification Verification (USER)

Scenario: after an ADMIN approves/rejects a permission request, a notification is created and can be retrieved by the corresponding USER.

The screenshot shows a REST API tool interface with the following details:

- Method:** GET /notifications
- Parameters:** No parameters
- Responses:**
 - Curl:** curl -X 'GET' '\http://localhost:3000/notifications'
 - Request URL:** http://localhost:3000/notifications
 - Server response:**
 - Code:** 200
 - Response body:**

```
[{"id": "4ca070b7-636a-4fc4-a26e-c4b25db38294", "message": "Your request REPLACE for document \\\"TIS_REPLACE_USER\\\" has been APPROVED", "isRead": false, "userId": "c30000e6-8ddc-4b1a-9506-c4054e7bd8b8", "createdAt": "2026-02-16T22:11:48.052Z"}, {"id": "c30000e6-8ddc-4b1a-9506-c4054e7bd8b8", "message": "Your request REPLACE for document \\\"TIS_REPLACE_USER-guest\\\" has been APPROVED", "isRead": false, "userId": "c30000e6-8ddc-4b1a-9506-c4054e7bd8b8", "createdAt": "2026-02-16T22:11:48.052Z"}, {"id": "c30000e6-8ddc-4b1a-9506-c4054e7bd8b8", "message": "Your request DELETE for document \\\"TestDoc1\\\" has been APPROVED", "isRead": false, "userId": "c30000e6-8ddc-4b1a-9506-c4054e7bd8b8", "createdAt": "2026-02-16T20:25:25.325Z"}, {"id": "d000007f8-f4ff-4012-a85a-f057cbffad4", "message": "Your request DELETE for document \\\"Test Doc2\\\" has been DENIED"}, {"id": "d000007f8-f4ff-4012-a85a-f057cbffad4", "message": "Your request DELETE for document \\\"Test Doc2\\\" has been DENIED"}]
```
- Response headers:**
 - access-control-allow-credentials: true
 - connection: keep-alive
 - content-length: 922
 - content-type: application/json; charset=utf-8
 - date: Wed, 14 Feb 2026 22:27:51 GMT
 - etag: W/"28e-307TxmUzTP4e2gR0G3LjQYToe"
 - keep-alive: timeout=5
 - vary: Origin
 - x-powered-by: Express
- Links:** No links

Figure 6 — USER calls /notifications and receives approval notifications (REPLACE and DELETE).

3. DELETE Workflow Evidence

Scenario: an ADMIN approves a DELETE permission request. The system deletes the document safely and notifies the user. The document should no longer be retrievable after deletion.

3.1 ADMIN approves DELETE request

The screenshot shows a REST API interface for managing approval requests. At the top, there are two tabs: 'GET /approvals/requests' (List pending approval requests (Admin only)) and 'POST /approvals/requests/{id}/approve' (Approve request (DELETE/REPLACE) (Admin only)). The 'POST' tab is active. Below it, under 'Parameters', there is a single required parameter: 'id' (string, path) with the value '954bc1b4-9fae-4c44-8807-6065d0ee8a2c'. There are 'Execute' and 'Clear' buttons below the parameters. The 'Responses' section contains a 'Curl' command and a 'Request URL' (HTTP://localhost:3000/approvals/requests/954bc1b4-9fae-4c44-8807-6065d0ee8a2c/approve). The 'Server response' section shows a successful 201 response with a JSON body containing 'ok': true and 'message': 'Delete approved & document deleted'. The response headers include standard HTTP headers like 'Content-Type: application/json; charset=utf-8' and 'ETag: W/3a-OdeS1rRt0Mu6Fyo7gZI3+dxso+'. The bottom right corner of the interface says 'No links'.

Figure 7 — ADMIN approves DELETE via /approvals/requests/{id}/approve (HTTP 201), document deleted.

3.2 Verification after deletion (document not found)

GET /documents/{id} Get document by id

Cancel

Parameters

Name	Description
id <small>required</small>	Document ID string (path)
	10f121c2-0f1a-4624-b394-2ba2ec2ca0e2

Execute **Clear**

Responses

Curl

```
curl -X 'GET' \
'http://localhost:3000/documents/10f121c2-0f1a-4624-b394-2ba2ec2ca0e2' \
-H 'Content-Type: */*' \
-H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiI2YjI2ODk1ODE3YS1NTFaRbzNaNDc3NTY1LCJlbWFnZW5kZW5jciI6MpbCI6TaFkbDUuRk8tYmJlsLmVbS1sInJvbGUlOJBRE13IiIisInhdCj6Ntc3NT13MjQuMywzZ0h' --compressed
```

Request URL

```
http://localhost:3000/documents/10f121c2-0f1a-4624-b394-2ba2ec2ca0e2
```

Server response

Code	Details
404 <small>Undocumented</small>	Error: Not Found Response body <pre>{ "message": "Document not found", "error": "Not Found", "statusCode": 404 }</pre> Response headers <pre>access-control-allow-credentials: true connection: keep-alive content-length: 69 content-type: application/json; charset=utf-8 date: Mon, 26 Dec 2022 20:31:18 GMT etag: W/"45-48QKxduD0mpgr+s4jsdjuJ16g" keep-alive: timeout=5 vary: Origin x-powered-by: Express</pre>

Responses

Code	Description	Links
200		No links

POST /documents/{id}/request-delete Request delete document (USER creates request, ADMIN approves)

Cancel

Figure 8 — Subsequent GET /documents/{id} returns 404 (Document not found), confirming deletion.

Appendix — RBAC / Security Checks (USER blocked)

To validate role-based access control, USER accounts must not be able to access ADMIN-only endpoints.

The screenshot shows a REST API tool interface with the following details:

- Method:** GET
- Endpoint:** /approvals/requests (List pending approval requests (Admin only))
- Parameters:** No parameters
- Responses:**
 - Curl:** curl -X 'GET' \ 'http://localhost:3000/approvals/requests' \ -H 'accept: */*' \ -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInRS...'
 - Request URL:** http://localhost:3000/approvals/requests
 - Server response:**
 - Code:** 403
 - Description:** Error: Forbidden
 - Response body:**

```
{  "message": "Admin only",  "error": "Forbidden",  "statusCode": 403}
```
 - Response headers:**

```
access-control-allow-credentials: true
connection: keep-alive
content-length: 61
content-type: application/json; charset=utf-8
date: Fri, 16 Feb 2024 22:35:13 GMT
etag: W/3d-qX8u4rdMDxZcDEHjLphDRllmK
keep-alive: timeout=5
vary: Origin
x-powered-by: Express
```
 - Responses:**
 - Code:** 200
 - Description:** (empty)
 - Links:** No links

Figure A1 — USER calls /approvals/requests and gets 403 Forbidden (Admin only).

POST /approvals/requests/{id}/approve Approve request (DELETE/REPLACE) (Admin only)

Parameters

Name	Description
id <small>required</small>	PermissionRequest ID string (path) fde9e54e-909d-4334-9c83-e302a64b63d2

Execute Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:3000/approvals/requests/fde9e54e-909d-4334-9c83-e302a64b63d2/approve' \
  -H 'accept: */*' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJyQWdjB1Nl04ZGRkLTRjMwetOTlkNjIjNDY1NDQ3YmRhOGIiLC1bmFpbC16InVzZXIxQ01hahMuV29tTiwic09sZST611VTRV11CjpyXQ1DjE3NzEyODEyNzAsInV4cC1-d ''
```

Request URL

http://localhost:3000/approvals/requests/fde9e54e-909d-4334-9c83-e302a64b63d2/approve

Server response

Code Details

403 Error: Forbidden

Response body

```
{
  "message": "Admin only",
  "error": "Forbidden",
  "statusCode": 403
}
```

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Response headers

```
access-control-allow-credentials: true
access-control-allow-origin: http://localhost:3000
connection: keep-alive
content-length: 63
content-type: application/json; charset=utf-8
date: Mon, 16 Feb 2020 22:36:37 GMT
etag: W/"3d-qVKSwMrdrDKWpxOBHjLphdR10k"
keep-alive: timeout=5
vary: Origin
x-powered-by: Express
```

Responses

Code Description

Links

Figure A2 — USER calls /approvals/requests/{id}/approve and gets 403 Forbidden (Admin only).