✓ Authentication API – /api/auth/

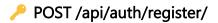
This section handles user authentication including registration, login, and password management.

Note: The endpoints here are included from users.urls, so the exact implementation depends on your project.

Common headers:

Content-Type: application/json

Accept: application/json



Description: Register a new user account.

```
Request body example:
```

```
{
  "username": "johndoe",
  "email": "john@example.com",
  "password": "strongpassword123"
}
Response example:
{
  "id": 1,
  "username": "johndoe",
  "email": "john@example.com"
}
```

## POST /api/auth/login/

Description: Authenticate a user and retrieve access token/session.

Request body example:

```
{
 "username": "johndoe",
 "password": "strongpassword123"
}
Response example:
{
 "token": "your_auth_token_here",
 "user": {
  "id": 1,
  "username": "johndoe"
 }
}
POST /api/auth/logout/
Description: Log out the current user and invalidate the session/token.
Request: No body needed.
Response example:
{
 "message": "Logged out successfully."
}
POST /api/auth/password_reset/
Description: Request a password reset email.
Request body example:
{
 "email": "john@example.com"
```

```
Response example:
{
    "message": "Password reset link sent to email."
}
```

Flashcards API (Level 1) – /api/level1/flashcards/

This API is responsible for managing flashcards that help students in learning.

✓ GET /api/level1/flashcards/

Description: Retrieve a list of flashcards.

Response example:

```
[
    "id": 1,
    "question": "What is a variable?",
    "answer": "A variable stores data values.",
    "tags": ["programming", "basics"],
    "difficulty": "easy"
},
{
    "id": 2,
    "question": "Explain recursion.",
    "answer": "A function calling itself...",
    "tags": ["advanced"],
    "difficulty": "medium"
```

```
}
]
✓ POST /api/level1/flashcards/
Description: Create a new flashcard.
Request body example:
{
 "question": "What is inheritance?",
 "answer": "A feature that allows one class to derive from another.",
 "tags": ["OOP"],
 "difficulty": "medium"
}
Response example:
{
 "id": 3,
 "question": "What is inheritance?",
 "answer": "A feature that allows one class to derive from another.",
 "tags": ["OOP"],
 "difficulty": "medium"
}

✓ GET /api/level1/flashcards/{id}/

Description: Retrieve details of a specific flashcard.
Response example:
{
```

"id": 3,

```
"question": "What is inheritance?",
 "answer": "A feature that allows one class to derive from another.",
 "tags": ["OOP"],
 "difficulty": "medium"
}
✓ PUT /api/level1/flashcards/{id}/
Description: Update an existing flashcard.
Request body example:
{
 "question": "What is inheritance in OOP?",
 "answer": "A mechanism where one class inherits from another.",
 "tags": ["OOP", "concept"],
 "difficulty": "medium"
}
Response example:
{
 "id": 3,
 "question": "What is inheritance in OOP?",
 "answer": "A mechanism where one class inherits from another.",
 "tags": ["OOP", "concept"],
 "difficulty": "medium"
}
```

✓ DELETE /api/level1/flashcards/{id}/

Description: Delete a flashcard.

```
Response example:

{
    "message": "Flashcard deleted successfully."
}
```

Documents API (Level 1) – /api/level1/documents/

This API manages documents that are resources for generating flashcards and notes.

✓ GET /api/level1/documents/

Description: Retrieve all uploaded documents.

Response example:

```
[
    "id": 1,
    "title": "Math Notes",
    "file_url": "http://<domain>/media/documents/math_notes.pdf"
}
```

✓ POST /api/level1/documents/

Description: Upload a new document.

Request (multipart/form-data):

title: "Physics Notes"
file: <file upload>
Response example:

{

```
"id": 2,
 "title": "Physics Notes",
 "file_url": "http://<domain>/media/documents/physics_notes.pdf"
}
✓ GET /api/level1/documents/{id}/
Description: Retrieve details of a specific document.
Response example:
{
 "id": 2,
 "title": "Physics Notes",
 "file_url": "http://<domain>/media/documents/physics_notes.pdf"
}
PUT /api/level1/documents/{id}/
Description: Update document details.
Request body example:
{
 "title": "Updated Physics Notes"
}
Response example:
{
 "id": 2,
 "title": "Updated Physics Notes",
 "file_url": "http://<domain>/media/documents/physics_notes.pdf"
}
```

```
✓ DELETE /api/level1/documents/{id}/
```

Description: Delete a document.

Response example:

{

"message": "Document deleted successfully."

}

Quizzes API (Level 2) – /api/level2/quizzes/

This API manages quizzes designed for student assessment.

✓ GET /api/level2/quizzes/

Description: Retrieve a list of quizzes.

Response example:

```
[
    "id": 1,
    "title": "Math Quiz 1",
    "questions_count": 10,
    "duration_minutes": 30
}
```

✓ POST /api/level2/quizzes/

Description: Create a new quiz.

Request body example:

```
{
 "title": "Science Quiz 2",
 "questions_count": 15,
 "duration_minutes": 45
}
Response example:
{
 "id": 2,
 "title": "Science Quiz 2",
 "questions_count": 15,
 "duration_minutes": 45
}

✓ GET /api/level2/quizzes/{id}/
Description: Retrieve details of a specific quiz.
Response example:
{
 "id": 2,
 "title": "Science Quiz 2",
 "questions_count": 15,
 "duration_minutes": 45
}
```

✓ PUT /api/level2/quizzes/{id}/

Description: Update a quiz.

Request body example:

```
{
 "title": "Updated Science Quiz 2",
 "questions_count": 20,
 "duration_minutes": 50
}
Response example:
{
 "id": 2,
 "title": "Updated Science Quiz 2",
 "questions_count": 20,
 "duration_minutes": 50
}
✓ DELETE /api/level2/quizzes/{id}/
Description: Delete a quiz.
Response example:
{
 "message": "Quiz deleted successfully."
}
Dashboard API – /api/dashboard/stats/

✓ GET /api/dashboard/stats/

Description: Retrieve statistics such as the total number of documents, quizzes,
flashcards, and user activity.
Response example:
{
 "total_documents": 12,
```

```
"total_flashcards": 48,

"total_quizzes": 8,

"user_activity": {

"today": 4,

"this_week": 20

}
```

■ Notes Generator API (Level 3) – /api/level3/

This API allows users to upload documents and generate notes from them.

✓ POST /api/level3/upload/

Description: Upload a document for note generation.

Request (multipart/form-data):

file: <file upload>

Response example:

```
{
  "file_id": 5,
  "file_url": "http://<domain>/media/uploads/notes.pdf",
  "message": "File uploaded successfully."
}
```

✓ GET /api/level3/generate-notes/

Description: Generate notes based on the uploaded file.

Query parameters:

• file\_id: The ID of the uploaded file (optional if handled differently).

```
Response example:
```

## Media Files in Development

If DEBUG = True in your settings, files uploaded through the APIs will be accessible at:

http://<domain>/media/<file\_path>

For example:

http://127.0.0.1:8000/media/uploads/notes.pdf

## Summary Table

Endpoint	Method	Description
/api/auth/register/	POST	Register a new user
/api/auth/login/	POST	Login and get authentication
/api/auth/logout/	POST	Logout
/api/auth/password_reset/	POST	Reset password request
/api/level1/documents/	GET	List documents
/api/level1/documents/	POST	Upload a document
/api/level1/documents/{id}/	GET	Get document details
/api/level1/documents/{id}/	PUT	Update document
/api/level1/documents/{id}/	DELETE	Delete document
/api/level1/flashcards/	GET	List flashcards
/api/level1/flashcards/	POST	Create flashcard
/api/level1/flashcards/{id}/	GET	Get flashcard details
/api/level1/flashcards/{id}/	PUT	Update flashcard
/api/level1/flashcards/{id}/	DELETE	Delete flashcard
/api/level2/quizzes/	GET	List quizzes
/api/level2/quizzes/	POST	Create quiz
/api/level2/quizzes/{id}/	GET	Get quiz details
/api/level2/quizzes/{id}/	PUT	Update quiz
/api/level2/quizzes/{id}/	DELETE	Delete quiz
/api/dashboard/stats/	GET	Get dashboard statistics
/api/level3/upload/	POST	Upload file for notes generation
/api/level3/generate-notes/	GET	Generate notes from uploaded file