Project Management API Documentation

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Contents

1   Introduction

This document provides a brief overview of the Project Management API endpoints. All endpoints are prefixed with `/api/projects`.

2   POST Methods

These methods are used for creating or adding resources.

2.1   Create Project

Creates a new project.
- **Endpoint:** `POST /api/projects/`
- **Request Body (JSON):**
    - `title` (string, required): Title of the project.
    - `id` (string, optional): Custom UUID. Auto-generated if not provided.
    - `motivations` (list of strings, optional): Motivations for the project.
    - `overall_performance` (number, optional): Overall performance rating.
    - `difficulty` (number, optional): Difficulty rating.
    - `interest` (number, optional): Interest rating.
- **Example Request Body:**

```
{
    "title": "My Awesome Project",
    "motivations": ["Learn new tech", "Build portfolio"],
    "difficulty": 4,
    "isActive": true
}
```
Listing 1: Create Project Body

- **Success Response (201 Created):** Returns the created project object as JSON.
- **Error Responses:** 400 (missing title, invalid data), 500 (server error).

2.2   Add Document to Project

Uploads a document file and associates it with a project.
- **Endpoint:** `POST /api/projects/{project_id}/documents`
- **Path Parameters:**
    - `project_id` (string): The ID of the project.
- **Request Type:** `multipart/form-data`
    - `file` (file, required): The document file to upload.
    - `category` (string, optional): Category (e.g., 'RESOURCE', 'TEST'). Defaults to 'RESOURCE'.
- **Example `curl` Call:**

```
curl -X POST -F "file=@/path/to/your/document.pdf" \
    -F "category=RESOURCE" \
    http://localhost:5000/api/projects/{project_id}/documents
```
Listing 2: Add Document

- **Success Response (201 Created):** Returns the created document object as JSON.
- **Error Responses:** 400 (no file), 404 (project not found), 500 (server error).

2.3   Add Milestone to Project

Adds a new milestone to a specific project. If `isDeadline` is true, any existing deadline for the project is unset.
- **Endpoint:** `POST /api/projects/{project_id}/milestones`
- **Path Parameters:**
    - `project_id` (string): The ID of the project.
- **Request Body (JSON):**

- title (string, required): Title of the milestone.
- date (string, required)
- isDeadline (boolean, optional): Whether this milestone is the project deadline. Defaults to false.
- **Success Response (201 Created):** Returns the created milestone object as JSON.
- **Error Responses:** 400 (missing title/date, invalid date format), 404 (project not found), 500 (server error).

2.4 Create Learning Session

Creates a new learning session for a project.
- **Endpoint:** POST /api/projects/{project_id}/sessions
- **Path Parameters:**
  - project_id (string): The ID of the project.
- **Request Body (JSON):**
  - id (string, optional): Custom UUID. Auto-generated if not provided.
  - durationMinutes (integer, required): Duration of the session in minutes.
  - motivation (string, optional): Motivation for the session.
  - learningObjective (string, optional): Learning objective.
  - metrics (object, optional): Contains optional metric levels:
    * awarenessLevel, confidenceLevel, energyLevel, performanceLevel, satisfactionLevel (all numbers, optional).
- **Success Response (201 Created):** Returns the created learning session object as JSON.
- **Error Responses:** 400 (missing duration), 404 (project not found), 500 (server error).

2.5 Link Documents to Learning Session

Links existing documents (resources or tests) to a learning session.
- **Endpoint:** POST /api/projects/{project_id}/sessions/{session_id}/documents
- **Path Parameters:**
  - project_id (string): The ID of the project.
  - session_id (string): The ID of the learning session.
- **Request Body (JSON):**
  - resourceDocumentIds (list of strings, optional): List of document IDs (category: RESOURCE) to link.
  - testDocumentIds (list of strings, optional): List of document IDs (category: TEST) to link.
- **Success Response (200 OK):** Returns the updated learning session object as JSON.
- **Error Responses:** 404 (project/session/document not found, session not in project), 500 (server error).

3 GET Methods

These methods are used for retrieving resources.

3.1 Get All Projects

Retrieves a list of all projects.
- **Endpoint:** GET /api/projects/
- **Success Response (200 OK):** Returns a JSON array of project objects.
- **Error Responses:** 500 (server error).

3.2 Get Project by ID

Retrieves a specific project by its ID.
- **Endpoint:** GET /api/projects/{project_id}
- **Path Parameters:**
  - project_id (string): The ID of the project.
- **Success Response (200 OK):** Returns the project object as JSON.
- **Error Responses:** 404 (project not found), 500 (server error).

3.3 Get Project Documents

Retrieves all documents associated with a specific project.
- **Endpoint:** GET /api/projects/{project_id}/documents
- **Path Parameters:**
  - project_id (string): The ID of the project.
- **Success Response (200 OK):** Returns a JSON array of document objects.
- **Error Responses:** 404 (project not found), 500 (server error).

3.4 Get Document by ID

Retrieves a specific document by its ID, ensuring it belongs to the specified project.
- **Endpoint:** GET /api/projects/{project_id}/documents/{document_id}
- **Path Parameters:**
  - project_id (string): The ID of the project.
  - document_id (string): The ID of the document.
- **Success Response (200 OK):** Returns the document object as JSON.
- **Error Responses:** 404 (document not found or does not belong to project), 500 (server error).

3.5 Download Document

Downloads the actual file of a specific document.
- **Endpoint:** GET /api/projects/{project_id}/documents/{document_id}/download
- **Path Parameters:**
  - project_id (string): The ID of the project.
  - document_id (string): The ID of the document.
- **Example curl Call:**

```
1  curl -X GET
       "http://localhost:5000/api/projects/{project_id}/documents/{document_id}/download" -J
       -O
```

Listing 3: Download Document

- **Success Response (200 OK):** Returns the file for download.
- **Error Responses:** 404 (document not found, file not found on server, or document does not belong to project), 500 (server error).

3.6 Get Project Milestones

Retrieves all milestones for a specific project.
- **Endpoint:** GET /api/projects/{project_id}/milestones
- **Path Parameters:**
  - project_id (string): The ID of the project.
- **Success Response (200 OK):** Returns a JSON array of milestone objects.
- **Error Responses:** 404 (project not found), 500 (server error).

3.7 Get Milestone by ID

Retrieves a specific milestone by its ID, ensuring it belongs to the specified project.
- **Endpoint:** GET /api/projects/{project_id}/milestones/{milestone_id}
- **Path Parameters:**
  - project_id (string): The ID of the project.
  - milestone_id (string): The ID of the milestone.
- **Success Response (200 OK):** Returns the milestone object as JSON.
- **Error Responses:** 404 (milestone not found or does not belong to project), 500 (server error).

3.8 Get Project Learning Sessions

Retrieves all learning sessions for a specific project.
- **Endpoint:** GET /api/projects/{project_id}/sessions
- **Path Parameters:**
  - project_id (string): The ID of the project.
- **Success Response (200 OK):** Returns a JSON array of learning session objects.
- **Error Responses:** 404 (project not found), 500 (server error).

3.9 Get Learning Session by ID

Retrieves a specific learning session by its ID, ensuring it belongs to the specified project.
- **Endpoint:** GET /api/projects/{project_id}/sessions/{session_id}
- **Path Parameters:**
  - project_id (string): The ID of the project.
  - session_id (string): The ID of the learning session.
- **Success Response (200 OK):** Returns the learning session object as JSON.
- **Error Responses:** 404 (session not found or does not belong to project), 500 (server error).

4 TODO Endpoints

The following functionalities are planned but not yet implemented:
- Endpoint for triggering question creation by an LLM.
- Endpoint for getting generated questions.
- Management of document references (specific details TBD).