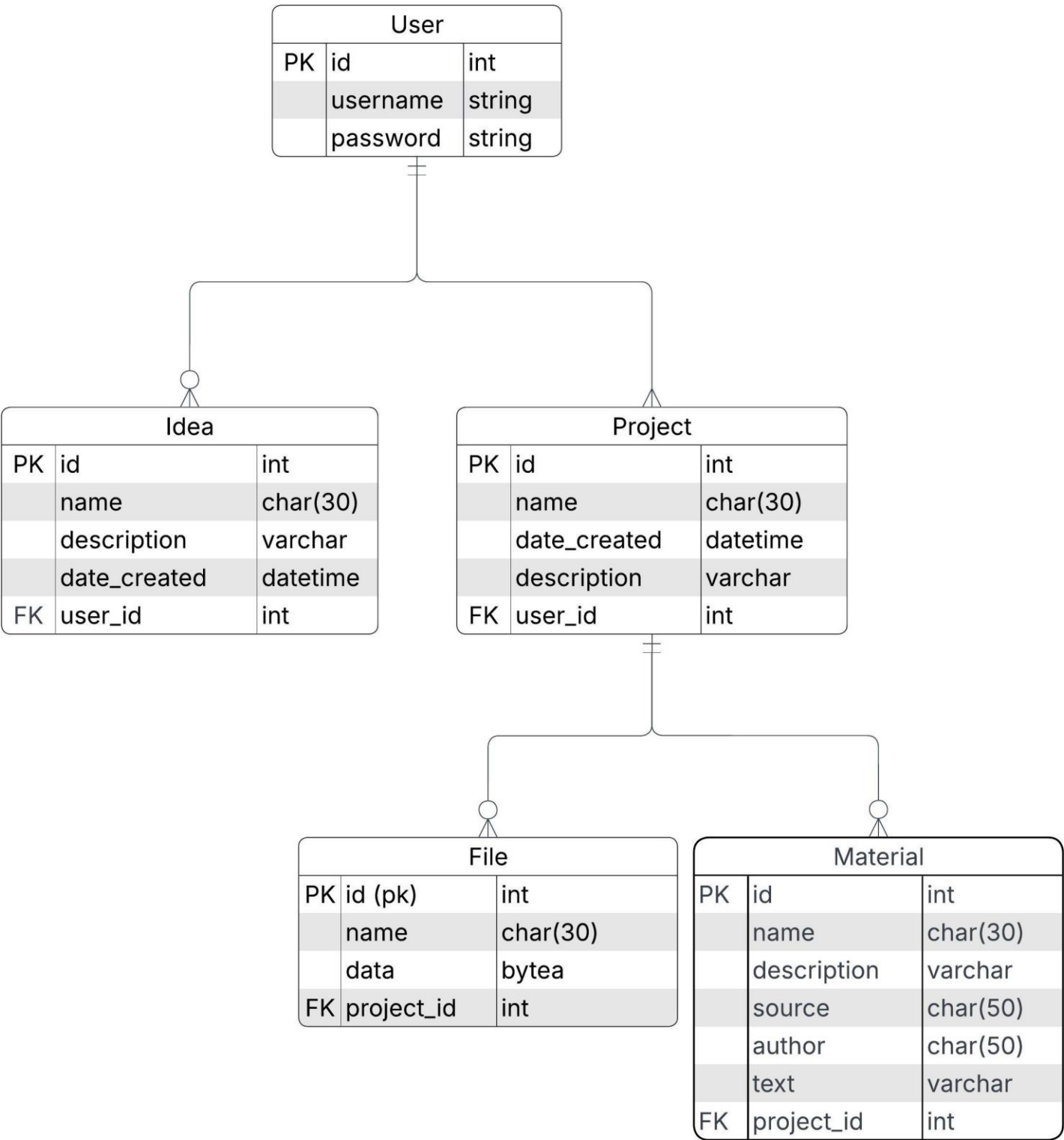


Overview

This API will serve project ideas, projects, and project materials for a user. They will be able to add new project ideas and create projects where they can then add materials (ie. Articles, references, etc) and the actual project files.

Entity Relationship Diagram



Endpoints

Authentication

Create new user: POST /api/auth/signup

Description: Create a new user account

Login: POST /api/auth/login

Description: Log in and receive a JWT

Ideas

Get all ideas: GET /api/ideas

Description: Get all ideas for the signed in user.

Access: Owner

Success Response:

```
200 OK
{
  {
    "id": 1,
    "name": "Idea 1",
    "description": "Idea 1 description."
  },
  {
    "id": 2,
    "name": "Idea 2",
    "description": "Idea 2 description."
  }
}
```

Error Cases:

- 401 Unauthorized: User hasn't logged in.
- 404 Not Found: User has no ideas in the database.

Create: POST /api/ideas

Description: Add a new idea to the database

Access: User

Success Response:

```
201 CREATED
{
  "id": 3,
  "name": "Idea 3",
  "description": "Idea 3 description."
}
```

Error Cases:

- 400 Bad Request: Invalid JSON format.
- 401 Unauthorized: User hasn't logged in.
- 409 Bad Request: Idea with that name already exists.

Change: PUT /api/ideas/:id

Description: Change an idea

Access: Owner

JSON Request:

```
{
  "name": "Updated idea 1",
  "description": "Updated idea 1 description."
}
```

Success Response:

```
201 Updated
{
  "id": 1,
  "name": "Updated idea 1",
  "description": "Updated idea 1 description."
}
```

Error Cases:

- 400 Bad Request: Id is not formatted properly.
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access to this idea.
- 404 Not Found: No idea exists with that id
- 409 Conflict: Idea with that name already exists

Delete: DELETE /api/ideas/:id

Description: Delete an idea

Access: Owner

Success Response:

```
200 OK
```

Error Cases:

- 400 Bad Request: Id is not formatted properly.
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access to this idea.
- 404 Not Found: No idea exists with that id

Projects

Get all: GET /api/projects/

Description: Get all projects for a user

Access: Owner

Success Response:

```
200 OK
{
  {
    "id": 1,
    "name": "Project 1",
    "description": "Project 1 description.",
    "files": [ file1, file2, file3, file4 ]
  },
  {
    "id": 2,
    "name": "Project 2",
    "description": "Project 2 description.",
    "files": [ file1, file2, file3, file4 ]
  }
}
```

Error Cases:

- 401 Unauthorized: User hasn't logged in.
- 404 Not Found: User has no projects in the database.

Get by id: GET /api/projects/:id

Description: Get a project by Id

Access: Owner

Success Response:

```
200 OK
{
  "id": 1,
  "name": "Project 1",
  "description": "Project 1 description.",
  "files": [ file1, file2, file3, file4 ]
}
```

Error Cases:

- 400 Bad Request: Id not formatted properly (<0, String, etc).
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access

Create new: POST /api/projects/

Description: Add a new project to the database

Access: User

JSON Request:

```
{
  "name": "Project 3",
  "description": "Project 3 description."
}
```

Success Response:

```
201 Created
{
  "id": 3,
  "name": "Project 3",
  "description": "Project 3 description.",
}
```

Error Cases:

- 400 Bad Request: Invalid information.

- 401 Unauthorized: User hasn't logged in.
- 409 Bad Request: Project with that name already exists under this user.

Update: PUT /api/projects/add/:id

Description: Change an idea

Access: Owner

JSON Request:

```
{
  "name": "Updated Project 3",
  "description": "Updated Project 3 description."
}
```

Binary Request:

C:/some/url/to/a/binary/file1.docx

Success Response:

```
201 Updated
{
  "id": 1,
  "name": "Updated Project 3",
  "description": "Updated Project 3 description.",
  "files": [ file1.docx ]
}
```

Error Cases:

- 400 Bad Request: Id is not formatted properly.
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access to this project.
- 404 Not Found: No project exists with that id
- 409 Conflict: Project with that name already exists

Delete: DELETE /api/projects/:id

Description: Delete a project by id

Access: User

Success Response:

200 OK

Error Cases:

- 400 Bad Request: Id is not formatted properly.
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access to this project.
- 404 Not Found: No project exists with that id.

Materials

Get all: GET /api/materials

Description: Get all materials for the signed in user.

Access: Owner

Success Response:

```
200 OK
{
  {
    "id": 1,
    "projectId": 1,
    "name": "Resource 1",
    "description": "Resource 1 description.",
    "source": "Source 1",
    "author": "Author 1",
    "text": "Resource 1 text."
  },
  {
    "id": 2,
    "projectId": 1,
    "name": "Resource 2",
    "description": "Resource 2 description",
    "source": "Source 1",
    "author": "Author 1",
    "text": "Resource 1 text."
  }
}
```

Error Cases:

- 401 Unauthorized: User hasn't logged in.
- 404 Not Found: User has no materials in the database.

Get all related to a project: GET /api/materials/:projectId

Description: Get all materials related to a project.

Access: Owner

Success Response:

```
200 OK
{
  {
    "id": 1,
    "projectId": 1,
    "name": "Resource 1",
    "description": "Resource 1 description.",
    "source": "Source 1",
    "author": "Author 1",
    "text": "Resource 1 text."
  },
  {
    "id": 2,
    "projectId": 1,
    "name": "Resource 2",
    "description": "Resource 2 description",
    "source": "Source 1",
    "author": "Author 1",
    "text": "Resource 1 text."
  }
}
```

Error Cases:

- 401 Unauthorized: User hasn't logged in.
- 404 Not Found: User has no materials in the database.

- 404 Not Found: No materials found relating to this project
- 404 Not Found: No materials under this id found

Create Material: POST /api/materials

Description: Add a new material to the database

Access: User

JSON Request:

```
{
  "projectId": 1,
  "name": "Resource 3",
  "description": "Resource 3 description.",
  "source": "Source 3",
  "author": "Author 2",
  "text": "Resource 3 text."
}
```

Success Response:

201 Created

```
{
  "id": 3,
  "projectId": 1,
  "name": "Resource 3",
  "description": "Resource 3 description.",
  "source": "Source 3",
  "author": "Author 2",
  "text": "Resource 3 text."
}
```

Error Cases:

- 400 Bad Request: Invalid information.
- 401 Unauthorized: User hasn't logged in.
- 409 Bad Request: Material with that name already exists under this user.

Delete: DELETE /api/materials/:id

Description: Delete a material by id

Access: User

Success Response:

200 OK

Error Cases:

- 400 Bad Request: Id is not formatted properly.
- 401 Unauthorized: User hasn't logged in.
- 403 Forbidden: User does not have access to this material.
- 404 Not Found: No material exists with that id.