

API Documentation

Base URL

...

http://localhost:3001/api

...

Authentication

All protected endpoints require a JWT token in the Authorization header:

...

Authorization: Bearer <jwt_token>

...

Response Format

All API responses follow this format:

```json

{

"message": "Success message",

"data": { ... },

"error": "Error message (if applicable)"

}

```

Authentication Endpoints

Register User

****POST**** `/auth/register`

Register a new user account.

****Request Body:****

```
```json
```

```
{
 "name": "John Doe",
 "email": "john@example.com",
 "password": "password123"
}
```
```

****Response:****

```
```json  
{
 "message": "User registered successfully",
 "user": {
 "id": "uuid",
 "name": "John Doe",
 "email": "john@example.com",
 "role": "USER",
 "status": "ACTIVE"
 },
 "token": "jwt_token"
}
```
```

Login User

****POST**** `/auth/login`

Authenticate user and receive JWT token.

****Request Body:****

```
```json  
{
```

```
"email": "john@example.com",
"password": "password123"
}
...
```

**\*\*Response:\*\***

```
```json  
{  
  "message": "Login successful",  
  "user": {  
    "id": "uuid",  
    "name": "John Doe",  
    "email": "john@example.com",  
    "role": "USER",  
    "status": "ACTIVE"  
  },  
  "token": "jwt_token"  
}  
...
```

Get Current User

****GET**** `/auth/me`

Get current authenticated user information.

****Headers:****

```
...  
  
Authorization: Bearer <jwt_token>  
...
```

****Response:****

```
```json
{
 "user": {
 "id": "uuid",
 "name": "John Doe",
 "email": "john@example.com",
 "role": "USER",
 "status": "ACTIVE",
 "profilePicture": "path/to/image.jpg"
 }
}
```
```

Refresh Token

****POST**** `/auth/refresh`

Refresh JWT token.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Response:****

```
```json
{
 "token": "new_jwt_token"
}
```
```

User Management Endpoints

Get All Users

****GET**** `/users`

Get list of all users (Admin only).

****Headers:****

...

Authorization: Bearer <admin_jwt_token>

...

****Query Parameters:****

- `page` (optional): Page number for pagination

- `limit` (optional): Number of users per page

****Response:****

``json

{

"users": [

{

"id": "uuid",

"name": "John Doe",

"email": "john@example.com",

"role": "USER",

"status": "ACTIVE",

"createdAt": "2023-01-01T00:00:00Z"

}

],

"total": 10,

"page": 1,

"totalPages": 2

```
}  
...
```

Get User by ID

****GET**** `/users/:id`

Get specific user information.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Response:****

``json

```
{
```

```
  "user": {
```

```
    "id": "uuid",
```

```
    "name": "John Doe",
```

```
    "email": "john@example.com",
```

```
    "role": "USER",
```

```
    "status": "ACTIVE",
```

```
    "profilePicture": "path/to/image.jpg",
```

```
    "createdAt": "2023-01-01T00:00:00Z"
```

```
  }
```

```
}
```

...

Update User

****PUT**** `/users/:id`

Update user information.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Request Body:****

```json

{

"name": "Updated Name",

"email": "updated@example.com"

}

...

**\*\*Response:\*\***

```json

{

"message": "User updated successfully",

"user": {

"id": "uuid",

"name": "Updated Name",

"email": "updated@example.com",

"role": "USER",

"status": "ACTIVE"

}

}

...

Update User Status

****PATCH**** `/users/:id/status`

Update user status (Admin only).

****Headers:****

...

Authorization: Bearer <admin_jwt_token>

...

****Request Body:****

```json

{

"status": "DISABLED"

}

```

****Response:****

```json

{

"message": "User status updated successfully",

"user": {

"id": "uuid",

"name": "John Doe",

"email": "john@example.com",

"status": "DISABLED"

}

}

```

Upload Profile Picture

****POST**** `/users/:id/profile-picture`

Upload user profile picture.

****Headers:****

...

Authorization: Bearer <jwt_token>

Content-Type: multipart/form-data

...

****Request Body:****

...

profilePicture: <file>

...

****Response:****

``json

{

"message": "Profile picture uploaded successfully",

"user": {

"id": "uuid",

"name": "John Doe",

"profilePicture": "path/to/new-image.jpg"

}

}

...

Todo Management Endpoints

Get Todos

****GET**** `/todos`

Get todos with optional filters.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Query Parameters:****

- `type` (optional): "assigned" | "created" | "all"
- `status` (optional): "PENDING" | "IN_PROGRESS" | "COMPLETED"
- `search` (optional): Search term for title/description

****Response:****

```json

```
{
 "todos": [
 {
 "id": "uuid",
 "title": "Complete project",
 "description": "Finish the todo management system",
 "status": "IN_PROGRESS",
 "dueDate": "2023-12-31T23:59:59Z",
 "order": 1,
 "createdAt": "2023-01-01T00:00:00Z",
 "createdBy": {
 "id": "uuid",
 "name": "Admin User",
 "email": "admin@example.com"
 },
 "assignedTo": {
 "id": "uuid",
 "name": "John Doe",
```

```
 "email": "john@example.com"
 },
 "files": [],
 "_count": {
 "files": 0
 }
}
]
}
```

### Get Todo by ID

**\*\*GET\*\*** `/todos/:id`

Get specific todo information.

**\*\*Headers:\*\***

...

Authorization: Bearer <jwt\_token>

...

**\*\*Response:\*\***

```json

```
{
  "todo": {
    "id": "uuid",
    "title": "Complete project",
    "description": "Finish the todo management system",
    "status": "IN_PROGRESS",
    "dueDate": "2023-12-31T23:59:59Z",
    "order": 1,
```

```
"createdBy": {
  "id": "uuid",
  "name": "Admin User"
},
"assignedTo": {
  "id": "uuid",
  "name": "John Doe"
},
"files": [
  {
    "id": "uuid",
    "filename": "document.pdf",
    "originalName": "Project Document.pdf",
    "size": 1024000,
    "mimeType": "application/pdf"
  }
]
}
}
```

Create Todo

****POST**** `/todos`

Create a new todo.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Request Body:****

```
```json
{
 "title": "New Todo",
 "description": "Todo description",
 "assignedTo": "user_uuid",
 "dueDate": "2023-12-31T23:59:59Z"
}
```
```

****Response:****

```
```json
{
 "message": "Todo created successfully",
 "todo": {
 "id": "uuid",
 "title": "New Todo",
 "description": "Todo description",
 "status": "PENDING",
 "dueDate": "2023-12-31T23:59:59Z",
 "order": 1,
 "createdBy": {
 "id": "uuid",
 "name": "Current User"
 },
 "assignedTo": {
 "id": "uuid",
 "name": "Assigned User"
 }
 }
}
```
```

...

Update Todo

****PUT**** `/todos/:id`

Update existing todo.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Request Body:****

```json

{

"title": "Updated Todo",

"description": "Updated description",

"status": "COMPLETED",

"dueDate": "2023-12-31T23:59:59Z"

}

...

**\*\*Response:\*\***

```json

{

"message": "Todo updated successfully",

"todo": {

"id": "uuid",

"title": "Updated Todo",

"description": "Updated description",

"status": "COMPLETED"

```
}  
}  
...
```

Delete Todo

****DELETE**** `/todos/:id`

Delete a todo.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Response:****

```json

```
{
 "message": "Todo deleted successfully"
}
```

...

### ### Reorder Todos

**\*\*PATCH\*\*** `/todos/reorder`

Update the order of multiple todos.

**\*\*Headers:\*\***

...

Authorization: Bearer <jwt\_token>

...

**\*\*Request Body:\*\***

```
```json
{
  "todoUpdates": [
    {
      "id": "uuid1",
      "order": 1
    },
    {
      "id": "uuid2",
      "order": 2
    }
  ]
}
```
```

**\*\*Response:\*\***

```
```json
{
  "message": "Todos reordered successfully"
}
```
```

**### Get Assignable Users**

**\*\*GET\*\*** `/todos/users/assignable`

Get list of users that can be assigned todos.

**\*\*Headers:\*\***

...

Authorization: Bearer <jwt\_token>



...

**\*\*Response:\*\***

```json

{

"users": [

{

"id": "uuid",

"name": "John Doe",

"email": "john@example.com",

"status": "ACTIVE"

}

]

}

...

File Management Endpoints

Upload Files

****POST**** `/files/upload/:todoId`

Upload files to a specific todo.

****Headers:****

...

Authorization: Bearer <jwt_token>

Content-Type: multipart/form-data

...

****Request Body:****

...

files: <file1>, <file2>, ...

...

****Response:****

```json

```
{
 "message": "Files uploaded successfully",
 "files": [
 {
 "id": "uuid",
 "filename": "document_123456.pdf",
 "originalName": "Project Document.pdf",
 "path": "uploads/todos/document_123456.pdf",
 "size": 1024000,
 "mimeType": "application/pdf",
 "todoId": "todo_uuid"
 }
]
}
```

...

**### Get All Files**

**\*\*GET\*\*** `/files`

Get all files accessible to the current user.

**\*\*Headers:\*\***

...

Authorization: Bearer <jwt\_token>

...

**\*\*Response:\*\***

```json

```
{
  "files": [
    {
      "id": "uuid",
      "filename": "document_123456.pdf",
      "originalName": "Project Document.pdf",
      "size": 1024000,
      "mimeType": "application/pdf",
      "createdAt": "2023-01-01T00:00:00Z",
      "todo": {
        "id": "uuid",
        "title": "Complete project",
        "status": "IN_PROGRESS",
        "createdBy": {
          "id": "uuid",
          "name": "Admin User"
        },
        "assignedTo": {
          "id": "uuid",
          "name": "John Doe"
        }
      }
    }
  ]
}
```

```

**### Get Todo Files**

**\*\*GET\*\*** `/files/todo/:todoId`

Get all files for a specific todo.

**\*\*Headers:\*\***

...

Authorization: Bearer <jwt\_token>

...

**\*\*Response:\*\***

```json

{

"files": [

{

"id": "uuid",

"filename": "document_123456.pdf",

"originalName": "Project Document.pdf",

"size": 1024000,

"mimeType": "application/pdf",

"createdAt": "2023-01-01T00:00:00Z"

}

]

}

...

Download File

****GET**** `/files/download/:id`

Download a specific file.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Response:****

File download with appropriate headers.

Delete File

****DELETE**** `/files/:id`

Delete a file.

****Headers:****

...

Authorization: Bearer <jwt_token>

...

****Response:****

```json

{

"message": "File deleted successfully"

}

```

Error Responses

400 Bad Request

```json

{

"error": "Validation error message",

"details": [

{

```
 "field": "email",
 "message": "Invalid email format"
 }
]
}
...

```

### 401 Unauthorized

```
```json
{
  "error": "Authentication required"
}
...

```

403 Forbidden

```
```json
{
 "error": "Insufficient permissions"
}
...

```

### 404 Not Found

```
```json
{
  "error": "Resource not found"
}
...

```

500 Internal Server Error

```
```json
{

```

```
"error": "Internal server error"
}
...
```

## ## Rate Limiting

API endpoints are rate-limited to prevent abuse:

- Authentication endpoints: 5 requests per minute per IP
- General endpoints: 100 requests per minute per user
- File upload endpoints: 10 requests per minute per user

## ## Pagination

Endpoints that return lists support pagination:

- `page`: Page number (default: 1)
- `limit`: Items per page (default: 10, max: 100)

Response includes pagination metadata:

```
```json
{
  "data": [...],
  "pagination": {
    "page": 1,
    "limit": 10,
    "total": 50,
    "totalPages": 5,
    "hasNext": true,
    "hasPrev": false
  }
}
...
```