

Project Management System API Documentation

Authentication APIs

All authentication endpoints are publicly accessible. JWT token is required for accessing protected routes.

Register

Endpoint: `POST /api/register`

Description: Register a new user.

Request Body

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

Success Response

Status: `200 OK`

```
{
  "status": true,
  "message": "User registered successfully",
  "data": {
    "user": {
      "id": 1,
      "name": "John Doe",
      "email": "john@example.com"
    },
    "token": "JWT_TOKEN"
  }
}
```

Error Response

Status: 422 Unprocessable Entity (Validation Errors)

```
{
  "status": false,
  "message": "Validation error",
  "errors": {
    "email": ["The email has already been taken."]
  }
}
```

Login

Endpoint: POST /api/login

Description: Login user and get JWT token.

Request Body

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

Success Response

Status: 200 OK

```
{
  "status": true,
  "message": "Login successful",
  "data": {
    "token": "JWT_TOKEN"
  }
}
```

Error Response

Status: 401 Unauthorized

```
{
  "status": false,
```

```
  "message": "Invalid credentials"
}
```

Get Authenticated User

Endpoint: `GET /api/user`

Auth Required: Yes (JWT Token)

Headers:

`Authorization: Bearer {JWT_TOKEN}`

Success Response

Status: `200 OK`

```
{
  "status": true,
  "data": {
    "id": 1,
    "name": "John Doe",
    "email": "john@example.com"
  }
}
```

Error Response

Status:

`401 Unauthorized`

```
{
  "status": false,
  "message": "Unauthorized"
}
```

JWT Error Responses

Scenario	HTTP Status	Message
Missing Token	401	Token is missing
Invalid Token	401	Token is invalid
Expired Token	401	Token has expired
Unauthenticated User	401	Unauthorized

List Projects

Endpoint: `GET /api/projects`

Description: Returns all projects created by the authenticated user.

Success Response

```
{
  "status": true,
  "message": "Projects fetched successfully",
  "data": [
    {
      "id": 1,
      "user_id": 1,
      "name": "Project A",
      "description": "Description here",
      "created_at": "...",
      "updated_at": "..."
    },
    ...
  ]
}
```

Create Project

Endpoint: `POST /api/projects/store`

Description: Creates a new project under the authenticated user.

Request Body

```
{
  "name": "New Project",
  "description": "Optional description"
}
```

Success Response

```
{
  "status": true,
  "message": "Project created successfully",
  "data": {
    "id": 1,
    "user_id": 1,
    "name": "New Project",
    "description": "Optional description",
    "created_at": "...",
    "updated_at": "..."
  }
}
```

Validation Error

```
{
  "status": false,
  "message": "Validation failed",
  "errors": {
    "name": ["The name field is required."]
  }
}
```

Update Project

Endpoint: PUT /api/projects/update/{id}

Description: Updates a project belonging to the authenticated user.

Request Body

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

Success Response

```
{
  "status": true,
  "message": "Project updated successfully",
  "data": {
    "id": 1,
    "user_id": 1,
    "name": "Updated Project",
    "description": "Updated description",
    "created_at": "...",
    "updated_at": "..."
  }
}
```

Not Found / Unauthorized

```
{
  "status": false,
  "message": "Project not found or unauthorized"
}
```

Delete Project

Endpoint: DELETE /api/projects/delete/{id}

Description: Deletes a specific project that belongs to the authenticated user.

Success Response

```
{
  "status": true,
```

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

Not Found / Unauthorized

```
{
  "status": false,
  "message": "Project not found or unauthorized"
}
```

Project Table Schema

The `projects` table structure:

Column	Type	Description
<code>id</code>	BIGINT	Primary key (auto-increment)
<code>user_id</code>	BIGINT	Foreign key → <code>users.id</code>
<code>name</code>	STRING	Project name
<code>description</code>	TEXT	Project description (nullable)
<code>created_at</code>	TIMESTAMP	Record creation timestamp
<code>updated_at</code>	TIMESTAMP	Record update timestamp

Foreign Key Constraint:

- `user_id` references `users(id)` with `onDelete('cascade')`

Create a Task

URL: `POST /api/projects/tasks/{projectId}`

Auth: Required

Params (Path):

- `projectId` — ID of the project the task belongs to.

Body (JSON):

```
{
  "title": "Task Title",
  "description": "Optional description"
}
```

Response 201 Created

```
{
  "status": true,
  "message": "Task created successfully",
  "data": {
    "id": 1,
    "project_id": 5,
    "title": "Task Title",
    "description": "Optional description",
    "status": "Pending",
    "created_at": "...",
    "updated_at": "..."
  }
}
```

Update a Task

URL: PUT /api/tasks/update/{id}

Auth: Required

Params (Path):

- `id` — ID of the task to update.

Body (JSON):

```
{
  "title": "Updated Task Title",
  "description": "Updated description",
  "status": "In Progress" // Optional - must be "Pending", "In
Progress", or "Completed"
}
```


Response 200 OK

```
{
  "status": true,
  "message": "Task updated successfully",
  "data": {
    ...
  }
}
```

Delete a Task

URL: DELETE /api/tasks/delete/{id}

Auth: Required

Params (Path):

- `id` — ID of the task to delete.

Response 200 OK

```
{
  "status": true,
  "message": "Task deleted successfully"
}
```

Add Task Remark & Update Status

URL: POST /api/tasks/remark/{id}

Auth: Required

Params (Path):

- `id` — ID of the task to remark on.

Body (JSON):

```
{
  "status": "Completed", // Required - must be "Pending", "In
                          Progress", or "Completed"
```

```
    "remark": "This is the final update"
  }
```

Response 200 OK

```
{
  "status": true,
  "message": "Status updated with remark successfully"
}
```

Project Report

Get Project Report with Tasks & Remarks

URL: `GET /api/projects/report/{id}`

Auth: Required

Params (Path):

- `id` — ID of the project.

Response 200 OK

```
{
  "status": true,
  "message": "Project details fetched successfully",
  "data": {
    "project": {
      "id": 1,
      "name": "Project Name",
      "description": "Project Description"
    },
    "tasks": [
      {
        "task_id": 2,
        "title": "Task 1",
        "description": "Details...",
        "status": "Completed",
        "remarks": [
          {

```

```
    "status": "In Progress",
    "remark": "Started working",
    "date": "2024-04-01"
  },
  {
    "status": "Completed",
    "remark": "Finished the work",
    "date": "2024-04-02"
  }
]
}
}
```