# Task Management Micro services API Documentation

**This document provides a comprehensive overview of the API endpoints for the Task Management Microservices system. The system includes services for user management, task management, and notifications, along with a dashboard API for consolidated task and notification data.**

## Users Service

### POST /api/users/register/

1. **Register a new regular user**

#### Sample Request

*email:* [*user@example.com*](mailto:user@example.com)

*password: password123*

*role: user*

1. **Register a new admin user** (requires admin login)

#### Sample Request

email: [admin@example.com](mailto:admin@example.com)

password: password123

role: admin

### POST /api/users/login/

**Login in as admin or regular users to obtain JWT tokens.**

#### Sample Request

email: [user@example.com](mailto:user@example.com)

password: password123

### GET /api/users/dashboard/

**Retrieve the user dashboard with tasks and notifications (requires JWT token).**

#### Sample Request

No request body required.

## Tasks Service

### POST /api/tasks/

**Create a new task (admin only).**

#### Sample Request

title: Complete Project Report

description: Complete the project report by the end of the month.

status: todo

due\_date: 2024-11-15

assigned\_to: [user@example.com](mailto:user@example.com)

### GET /api/tasks/

**List all tasks (admin) or assigned tasks** (regular users) - requires JWT token.

#### Sample Request

No request body required.

### PUT /api/tasks/{id}/

**Update a task based on task id** (including reassignment or status change) - requires JWT token.

#### Sample Request

title: Updated Task Title

status: in\_progress

assigned\_to: [new\_user@example.com](mailto:new_user@example.com)

### DELETE /api/tasks/{id}/

**Deletes a task based on task id -** requires JWT token.

#### Sample Request

No request body required.

## Notifications Service

### GET /api/notifications/

**List all unread notifications for the user** (requires JWT token).

#### Sample Request

No request body required.