# Backend Development Assignment: Building a Task Management API

**Objective:** Create a RESTful API for a task management system using Django Rest Framework. The API should support CRUD operations (Create, Read, Update, Delete) for tasks.

**Requirements:**

1. **Task Model:**
   * Create a model for tasks with the following fields:
     + Title (CharField)
     + Description (TextField)
     + Due Date (DateField)
     + Status (ChoiceField: Pending, In Progress, Completed)
2. **API Endpoints:**
   * Create API endpoints for the following CRUD operations:
     + List all tasks
     + Retrieve a single task by ID
     + Create a new task
     + Update an existing task
     + Delete a task
3. **Authentication:**
   * Implement token-based authentication for the API. Ensure that only authenticated users can perform CRUD operations.
4. **Permissions:**
   * Implement permissions to ensure that users can only update or delete tasks that they own.
5. **Unit Tests:**
   * Write unit tests for your API views and ensure that they pass.
6. **Documentation:**
   * Provide clear and concise documentation for your API, including how to authenticate, use the different endpoints, and handle errors.

**Submission Guidelines:**

* Create a public Github repository and share the link.
* Commit your code regularly with meaningful commit messages.
* Include a README.md file with instructions on how to run your project, run tests, and any additional notes.