Todo API Endpoints Documentation

Authentication Endpoints

Register User

• **URL**: (/api/register/)

• Method: POST

• Auth Required: No

• **Permissions**: None

• Request Body:

```
json
{
    "username": "example_user",
    "email": "user@example.com",
    "password": "securepassword123",
    "first_name": "John",
    "last_name": "Doe"
}
```

• Success Response:

• Code: 201 CREATED

• Content:

```
"user": {
    "id": 1,
    "username": "example_user",
    "email": "user@example.com",
    "first_name": "John",
    "last_name": "Doe"
    },
    "refresh": "refresh_token_here",
    "access": "access_token_here"
}
```

- URL: (/api/login/)
- Method: POST
- Auth Required: No
- **Permissions**: None
- Request Body:

```
json
{
    "username": "example_user",
    "password": "securepassword123"
}
```

• Success Response:

- Code: 200 OK
- Content:

```
"user": {
    "id": 1,
    "username": "example_user",
    "email": "user@example.com",
    "first_name": "John",
    "last_name": "Doe"
    },
    "refresh": "refresh_token_here",
    "access": "access_token_here"
}
```

Refresh Token

- **URL**: (/api/token/refresh/)
- Method: POST
- Auth Required: No
- Request Body:

```
json
{
    "refresh": "your_refresh_token"
}
```

• Success Response:

• Code: 200 OK

• Content:

```
json
{
    "access": "new_access_token_here"
}
```

Todo Endpoints

List and Create Todos

• URL: (/api/todos/)

• Methods: GET, POST

• Auth Required: Yes (JWT)

• **Permissions**: Authenticated users

GET - List all todos

• Headers:

• Authorization: Bearer {access_token}

• Success Response:

• Code: 200 OK

• Content:

POST - Create new todo

- Headers:
 - Authorization: Bearer {access_token}
- Request Body:

```
figure |
{
    "title": "Learn Django REST",
    "description": "Complete the tutorial on DRF",
    "status": "in_progress",
    "due_date": "2025-05-25"
}
```

• Success Response:

• Code: 201 CREATED

• Content:

```
{
    "id": 2,
    "title": "Learn Django REST",
    "description": "Complete the tutorial on DRF",
    "status": "in_progress",
    "owner": "example_user",
    "created_at": "2025-05-17T13:00:00Z",
    "updated_at": "2025-05-17T13:00:00Z",
    "due_date": "2025-05-25"
}
```

Retrieve, Update, Delete Todo

• URL: (/api/todos/{id}/)

• Methods: (GET), (PUT), (PATCH), (DELETE)

• Auth Required: Yes (JWT)

• **Permissions**: Owner only

GET - Retrieve a todo

• Headers:

Authorization: Bearer {access_token}

• Success Response:

• Code: 200 OK

Content:

```
json
{
    "id": 1,
    "title": "Complete project",
    "description": "Finish the Django REST API project",
    "status": "pending",
    "owner": "example_user",
    "created_at": "2025-05-17T12:00:00Z",
    "updated_at": "2025-05-17T12:00:00Z",
    "due_date": "2025-05-20"
}
```

PUT/PATCH - Update a todo

- Headers:
 - Authorization: Bearer {access_token}
- Request Body (PUT Full update):

```
{
    "title": "Complete project",
    "description": "Finish the Django REST API project with tests",
    "status": "completed",
    "due_date": "2025-05-20"
}
```

• Request Body (PATCH - Partial update):

```
json
{
    "status": "completed"
}
```

• Success Response:

• Code: 200 OK

• Content: Updated todo object

DELETE - Delete a todo

• Headers:

• Authorization: Bearer {access_token}

• Success Response:

• Code: 204 NO CONTENT