SECTION 1 — LOGIN API TEST CASES

1.1 Successful Login

Request body required

Edit Value | Schema

```
{
  "username": "rahul",
  "password": "password123"
}
```

Server response

Code	Details
200	Response body

```
{
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJyYWh1bCIsImV4cCI6MTc2NDA0OTcwOH0.Z65PGd19WNq1A4xzkHmA_Oefp9R_grYU0YERaTBG9P
Q",
  "token_type": "bearer"
}
```

Response headers

1.2 Login –Wrong Password

Request body required

Edit Value | Schema

```
{
  "username": "rahul",
  "password": "wrongpass"
}
```

Server response

Code   Details

401   Error: Unauthorized
Undocumented
         Response body

```
{
  "detail": "Incorrect username or password"
}
```

         Response headers

```
content-length: 43
content-type: application/json
date: Tue,25 Nov 2025 05:20:08 GMT
server: uvicorn
```

1.3 Login –Wrong Username

Request body required

Edit Value | Schema

```
{
  "username": "suresh",
  "password": "password123"
}
```

Request URL

```
http://127.0.0.1:8000/login
```

Server response

Code	Details
401 *Undocumented*	Error: Unauthorized

Response body

```
{
  "detail": "Incorrect username or password"
}
```

Response headers

```
content-length: 43
content-type: application/json
date: Tue,25 Nov 2025 05:21:27 GMT
server: uvicorn
```

1.4 Login – Missing Username

Request body required

Edit Value | Schema

```
{
  "password": "password123"
}
```

```
422        Error: Unprocessable Content

           Response body

           {
             "detail": [
               {
                 "type": "missing",
                 "loc": [
                   "body",
                   "username"
                 ],
                 "msg": "Field required",
                 "input": {
                   "password": "password123"
                 }
               }
             ]
           }
```

SECTION 2 — CREATE TASK TEST CASES (POST/tasks)

2.1 Create Task – Valid

```
Edit Value | Schema

{
 "title": "Buy Milk",
 "description": "Buy Nandini milk from nearby shop"
}
```

```
200
           Response body

           {
             "id": 1,
             "title": "Buy Milk",
             "description": "Buy Nandini milk from nearby shop",
             "completed": false
           }
```

2.2 Create Task –With Long Description

Edit Value | Schema

```
{
 "title": "Apply PAN Card",
 "description": "Visit NSDL center in Bangalore and submit documents"
}
```

Response body

```
{
  "id": 2,
  "title": "Apply PAN Card",
  "description": "Visit NSDL center in Bangalore and submit documents",
  "completed": false
}
```

2.3 Create Task – Missing Title

Edit Value | Schema

```
{
 "description": "Pay LIC premium"
}
```

Error: Unprocessable Content

Response body

```
{
  "detail": [
    {
      "type": "missing",
      "loc": [
        "body",
        "title"
      ],
      "msg": "Field required",
      "input": {
        "description": "Pay LIC premium"
      }
    }
  ]
}
```

2.4 Create Task – Missing Description

```
{
  "title": "Pay Broadband Bill"
}
```

Response body

```json
{
  "detail": [
    {
      "type": "missing",
      "loc": [
        "body",
        "description"
      ],
      "msg": "Field required",
      "input": {
        "title": "Pay Broadband Bill"
      }
    }
  ]
}
```

2.5 Create Task – Empty Fields

```json
{
 "title": "",
 "description": ""
}
```

Response body

```json
{
  "id": 3,
  "title": "",
  "description": "",
  "completed": false
}
```

SECTION 3 — GET ALL TASKS (GET /tasks)

Response body

```
[
  {
    "id": 1,
    "title": "Buy Milk",
    "description": "Buy Nandini milk from nearby shop",
    "completed": false
  },
  {
    "id": 2,
    "title": "Apply PAN Card",
    "description": "Visit NSDL center in Bangalore and submit documents",
    "completed": false
  },
  {
    "id": 3,
    "title": "",
    "description": "",
    "completed": false
  }
]
```

SECTION 4 — GET SINGLE TASK (GET/tasks/{task_id})

4.1 Valid — Get Task 1

Response body

```
{
  "id": 1,
  "title": "Buy Milk",
  "description": "Buy Nandini milk from nearby shop",
  "completed": false
}
```

Response headers

4.2 Valid — Get Task 2

Response body

```
{
  "id": 2,
  "title": "Apply PAN Card",
  "description": "Visit NSDL center in Bangalore and submit documents",
  "completed": false
}
```

4.3 Non-Existing Task

```
404          Error: Not Found
Undocumented
             Response body

             {
                "detail": "Task Not Found"
             }
```

SECTION 5 — UPDATE TASK (PUT /tasks/{task_id})

5.1 Update Existing Task (Valid)

```
Edit Value | Schema

{
 "title": "Buy Vegetables",
 "description": "Buy tomatoes and onions from Big Bazaar",
 "completed": true
}
```

```
{
   "id": 1,
   "title": "Buy Vegetables",
   "description": "Buy tomatoes and onions from Big Bazaar",
   "completed": true
}
```

5.2 Update Task — Toggle Completion Only

```
{
 "title": "Apply PAN Card",
 "description": "Visit NSDL center in Bangalore and submit documents",
 "completed": true
}
```

Response body

```json
{
  "id": 2,
  "title": "Apply PAN Card",
  "description": "Visit NSDL center in Bangalore and submit documents",
  "completed": true
}
```

5.3 Update Task — Empty Title Allowed

```json
{
  "title": "",
  "description": "This was an empty task earlier",
  "completed": false
}
```

Response body

```json
{
  "id": 3,
  "title": "",
  "description": "This was an empty task earlier",
  "completed": false
}
```

5.4 Update Non-Existing Task

```json
{
  "title": "Ghost",
  "description": "This task does not exist",
  "completed": false
}
```

Response body

```
{
    "detail": "Task Not Found"
}
```

SECTION 6 — DELETE TASK (DELETE/tasks/{task_id})

6.1 Delete Valid Task

Response body

```
{
    "message": "Task Deleted Successfully"
}
```

6.2 Try Getting Deleted Task

Response body

```
{
    "detail": "Task Not Found"
}
```

6.3 Delete Non-Existing Task

Response body

```
{
    "detail": "Task Not Found"
}
```

SECTION 7 — AUTHENTICATION FAILURE CASES

7.1 Missing Authorization Header

Error: Forbidden
ed
Response body

```
{
   "detail": "Not authenticated"
}
```

7.2 Invalid Token

Response body

```
{
   "detail": "Invalid or expired token"
}
```

7.3 Expired Token

Response body

```
{
   "detail": "Invalid or expired token"
}
```