# Backend Integration tests (API)

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| Test case ID | API endpoint | Description | Test steps | Expected result | Actual result | status |
| IT01 | POST  /api/tasks | Create a new task | 1. Send POST request with JSON body: task\_title, task\_description, deadline | HTTP 201, Response contains task details | HTTP 201, Response contains the created task | Pass |
| IT02 | GET /api/tasks/:page | Fetch unfinished tasks by page | 1. Send GET request to /api/tasks/0 | HTTP 200, max 5 tasks returned, tasks finished=false | HTTP 200,  5 unfinished tasks returned, | pass |
| IT03 | PUT /api/tasks/:id | Update a task | 1. Create a task in DB 2. Send PUT request to update description | HTTP 200, task description updated | task description updated | pass |
| IT04 | PUT /api/tasks/:id | Finish a task | 1. Create a task in DB 2. Send PUT request to update finished Boolean as true | HTTP 200, task finished=true in DB | HTTP 200, task finished=true in DB | pass |
| IT05 | DELETE /api/tasks/:id | Delete a task | 1. Create a task in DB 2. Send DELETE request | HTTP 200, task deleted | HTTP 200, task deleted | pass |

# Backend unit tests (Controller layer)

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| Task ID | Function | Description | Test steps | Expected result | Actual result | status |
| UT01 | createTask | Create task using mocked Prisma | 1. Mock Prisma tasks.create 2. Call createTask(mockPrisma, taskData) | Returns mocked task object, Prisma create called with correct data | Returned mocked task object, Prisma create called with correct data | pass |
| UT02 | updateTask | |  | | --- | |  |  |  | | --- | | Update task using mocked Prisma | | 1. Mock Prisma tasks.update 2. Call updateTask(mockPrisma, task\_id, updateData) | Returns updated task object, Prisma update called correctly | Returned updated task object, Prisma update called correctly | Pass |
| UT03 | deleteTask | Delete task using mocked Prisma | 1. Mock Prisma tasks.delete 2. Call deleteTask(mockPrisma, task\_id) | Returns deleted task object, Prisma delete called correctly | Returned deleted task object, Prisma delete called correctly | pass |

# Playwright end to end test cases (UI)

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| Test case ID | Feature | Description | Test steps | Expected result | Actual result | Status |
| E2E01 | Add task | Add a new task via UI | 1. Click Add Task button 2. Fill Title, Description, Deadline 3. Click Add Task | Task added successfully, task visible in list | Task added successfully toast was displayed, task visible in list | Pass |
| E2E02 | Mark Task Finished | Mark a task as finished | 1. Click task action button (Finish) 2. Confirm action | Task marked as finished, UI updated | The finished task is no longer visible in the UI | Pass |
| E2E03 | Finished Tasks section | View finished tasks | 1. Click Finished Tasks button 2. Close modal | Finished task list visible, modal closed | Finished task list visible, modal closed | Pass |