

# task-lifecycle

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## Task Lifecycle Diagram

This diagram illustrates the lifecycle of a Task in the Task Manager application, from creation to completion, following Clean Architecture and DDD principles.

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stateDiagram-v2

```
[*] --> Created: CreateTaskCommand
Created --> Pending: Task validated
Pending --> Completed: MarkTaskCompletedCommand
Pending --> Cancelled: CancelTaskCommand
Completed --> [*]
Cancelled --> [*]
```

### States

- **Created:** Task is created and validated.
- **Pending:** Task is active and awaiting completion or cancellation.
- **Completed:** Task has been finished.
- **Cancelled:** Task has been cancelled and will not be completed.

### Transitions

- **CreateTaskCommand:** Initiates task creation.
  - **MarkTaskCompletedCommand:** Marks a pending task as completed.
  - **CancelTaskCommand:** Cancels a pending task.
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See also: [Sample Solution Architecture](#), [Feature Walkthrough](#)