

# TODO

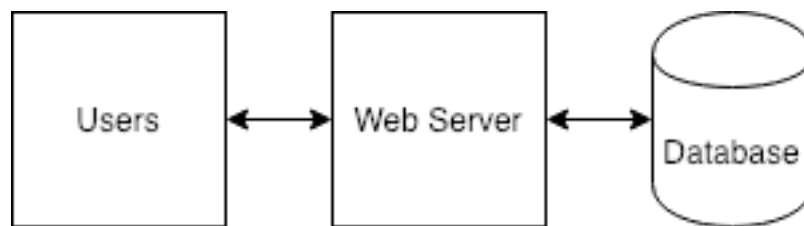
## Functional Requirements

- The system shall display the error message “Failed to connect to database” if the web application cannot reach the task database
- If the user enters an empty task name, the web app shall display an error message
- The system shall support three task statuses: Pending, Started, and Completed

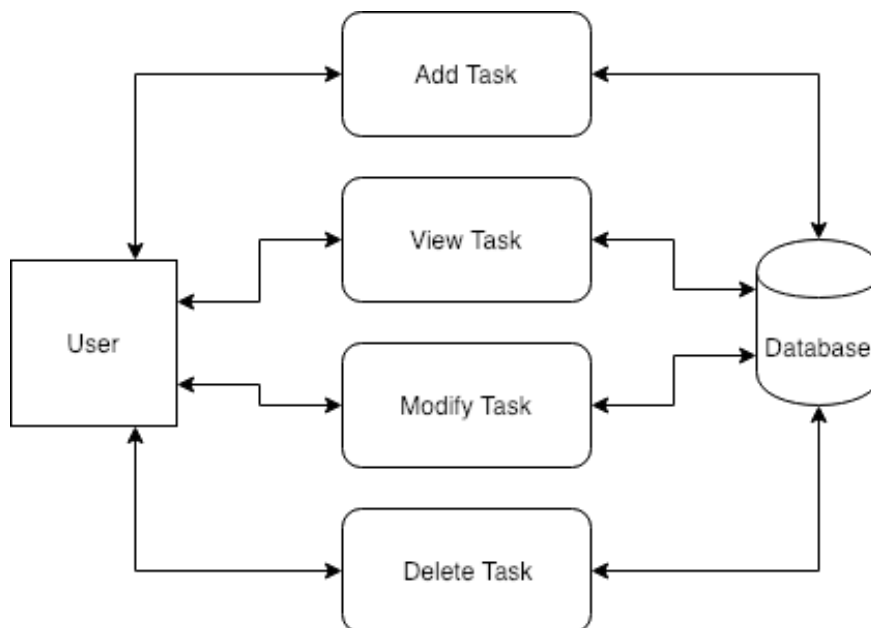
## Non-Functional Requirements

- The web application shall contain a list of the tasks centered in the web page
- The web application shall provide a floating action button in the lower right corner to add tasks
- The web application shall support both desktop and mobile browsers

## System Architecture Diagram



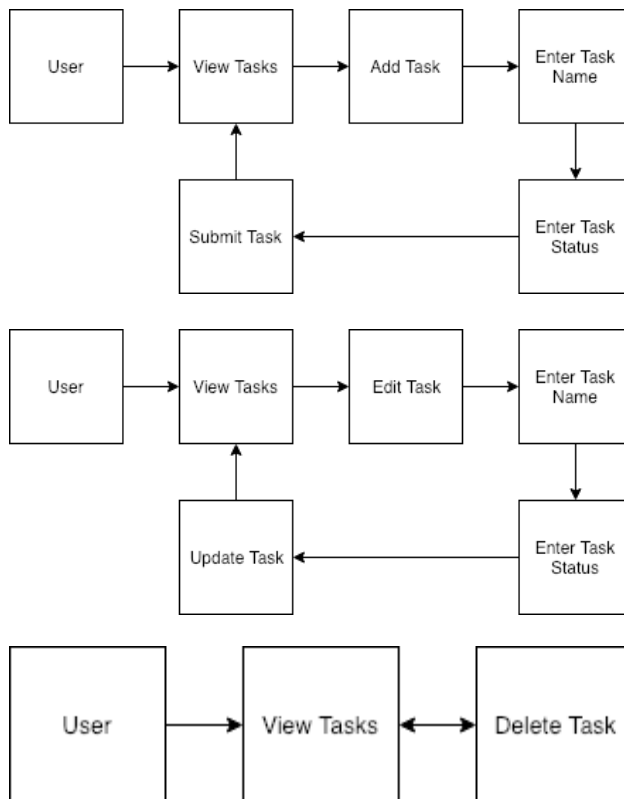
## Data Flow Diagram



## Use Case

- User needs to add a task to TODO list
- User needs to view tasks in TODO list
- User needs to modify a task in TODO list
- User needs to modify tasks in TODO list

## Sequence Diagram



## Test Cases

task_list	
PK	<u>id</u>
	name
	status

# Test Cases

Test Case Name	Add a Task
Test Case ID	TC-1
Priority	High
Preconditions	Access to TODO app
Postconditions	A new task is created
Test Steps	<ol style="list-style-type: none"><li>1. Open TODO Web application</li><li>2. Click “+” button</li><li>3. Enter “Task1” in Task Name</li><li>4. Set status to “Pending”</li><li>5. Click “Submit”</li></ol>
Expected Results	A new task “Task1” is created with “Pending” status

Test Case Name	Edit a Task
Test Case ID	TC-2
Priority	High
Preconditions	A task is created and visible in the list
Postconditions	Task is edited
Test Steps	<ol style="list-style-type: none"><li>1. Open TODO Web application</li><li>2. Locate a task</li><li>3. Click the Pencil icon</li><li>4. Set task name to “Task2”</li><li>5. Set task status to “Started”</li><li>6. Click “Submit”</li></ol>
Expected Results	A task “Task2” is modified with “Started” status

Test Case Name	Delete a Task
Test Case ID	TC-3
Priority	High
Preconditions	A task is created and visible in the list
Postconditions	A task is deleted

Test Steps	<ol style="list-style-type: none"><li>1. Open TODO Web application</li><li>2. Locate a task</li><li>3. Click the Trash icon</li></ol>
Expected Results	Task is deleted and removed from the list