

# To-Do Application Requirement Specification

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## 1. Introduction

Todo application is a software application that is used to manage the day-to-day tasks of its users.

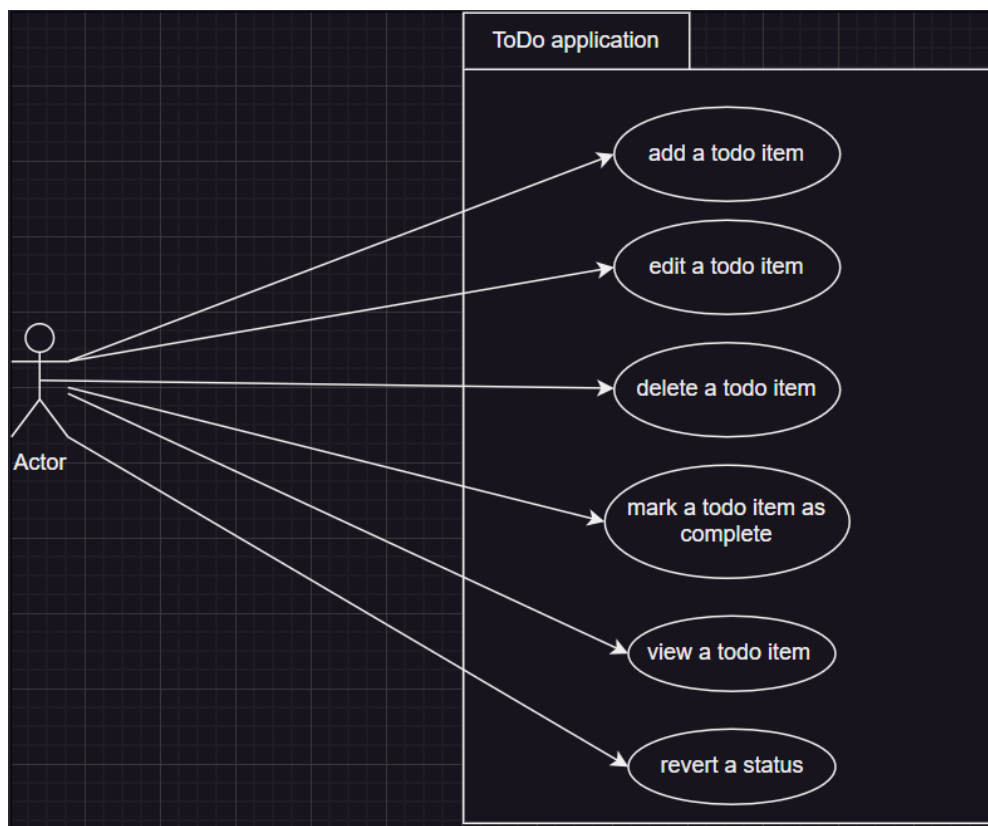
## 2. Overall Perspective

### 2.1. Application Description

This is an application which will give its users the super-power of customizing their task according to the status of each task. From creating a task and marking the task as complete to uploading images that suit the task description. Below has enlisted design and other features needed in order to build such an application.

### 2.2. Use Case Scenario

Below, with the help of statements and a use case diagram shows how this to-do application will be used.



### Description:

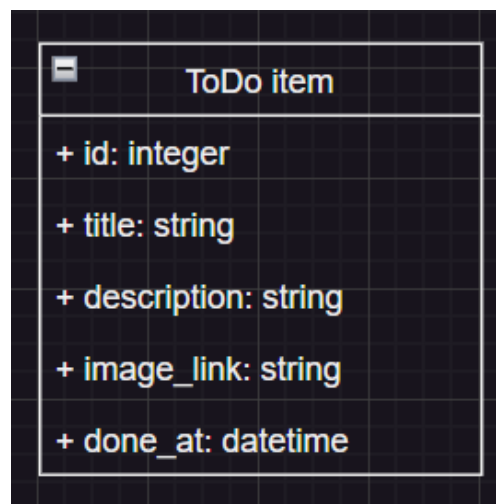
- A user should be able to **add or create** a to-do item.
- A user should be able to **edit or update** a to-do item.
- A user should be able to **delete** a to-do item.
- A user should be able to **mark a to-do item as complete**.
- A user should be able to **view** a to-do item.
- A user should be able to **revert** a status change on a to-do item. That is from **Not Done to Done** and from **Done to Not-Done**.

### 2.3. To-do item

To facilitate database design and implementation, each to-do item needs to have the following attributes:

1. **Id:** This will be used to pull from or make changes to a particular to-do item in the database.
2. **Title:** Issued by a user.
3. **Description:** Issued by a user and gives a brief description of the task
4. **Image link:** Link to the image uploaded by the user.
5. **Time completed:** Time when the to-do item was marked as done. This is not set when the to-do item is incomplete.

The diagram below shows the attributes of a to-do item.



### 3. Functional Requirements

Here are the various functionalities the to-do application is meant to incorporate.

#### A.

- **User story:** A user enters the application to the **View** page and wants to add a task to do.
- **Functional requirement:**
  - The application must allow users to add tasks alongside upload images for them with descriptions and titles for each task.
  - This is to be made possible with the help of an **Add +** button which when clicked, renders the **New** page with a form to add tasks through.

#### B.

- **User story:** A user made a mistake while creating the task and wants to edit a task. Maybe it was a spelling error.
- **Functional requirement:**
  - The application must allow users to edit tasks by altering the previous content of that task item.
  - This will be done on the **Edit** page with a submit button to confirm the update.

#### C.

- **User story:** A user finds a task unnecessary at the moment and wants to delete a task.
- **Functional requirement:**
  - The application must allow users to delete tasks in the **View** page by the click of the delete button.
  - A popup notification should be available in order to confirm the delete.

#### D.

- **User story:** A user wants to view the full content of a set task.
- **Functional requirement:**
  - The application must allow users to view the complete content and details of a task.
  - A **View button** should be made available for this to happen in the **View** page which will then render the content in the **Show** page.

#### E.

- **User story:** In order to make a task convey information about it, a user wants to add an image to the task being created.
- **Functional requirement:**
  - The application must allow users to upload an image from their local storage to visualize the set task.

#### F.

- **User story:** A user has completed the set task and wants to mark it as done.
- **Functional requirement:**
  - The application must allow users to make a to-do item as done.
  - **Done** button should be provided for this and on click, add the item to the **done section**.

#### G.

- **User story:** A user marked a task done by mistake.
- **Functional requirement:**
  - The application must allow users to revert their option to mark a task done.
  - **Revert** button should be provided on each done task below to revert change.

### 4. Pages and Routes Design

This application requires 4 pages for proper functionality. These include:

#### A. View Page

- Route to be rendered: **http://localhost/**
- Displays all the tasks created (those to be done and those which are done).
- Render all tasks in the database according to status.

#### B. Show Page:

- Route to be rendered: **http://localhost/show/<item\_id>**
- Display elements and content of a specific task.
- Makes use of the item id as parameter.

#### C. Edit page:

- Route to be rendered: **http://localhost/edit/<item\_id>**
- Update or edit the content of specific task.
- Makes use of the item id as parameter.

#### D. Create page:

- Route to be rendered: **http://localhost/create.**
- Create or add a new task and display it in the View page.

## 5. Technological Requirements

### A. Client-Side:

- HTML
- CSS
- jQuery

### B. Server-Side:

- PHP

### C. Database:

- SQL using MySQL DBMS
- XAMPP Server