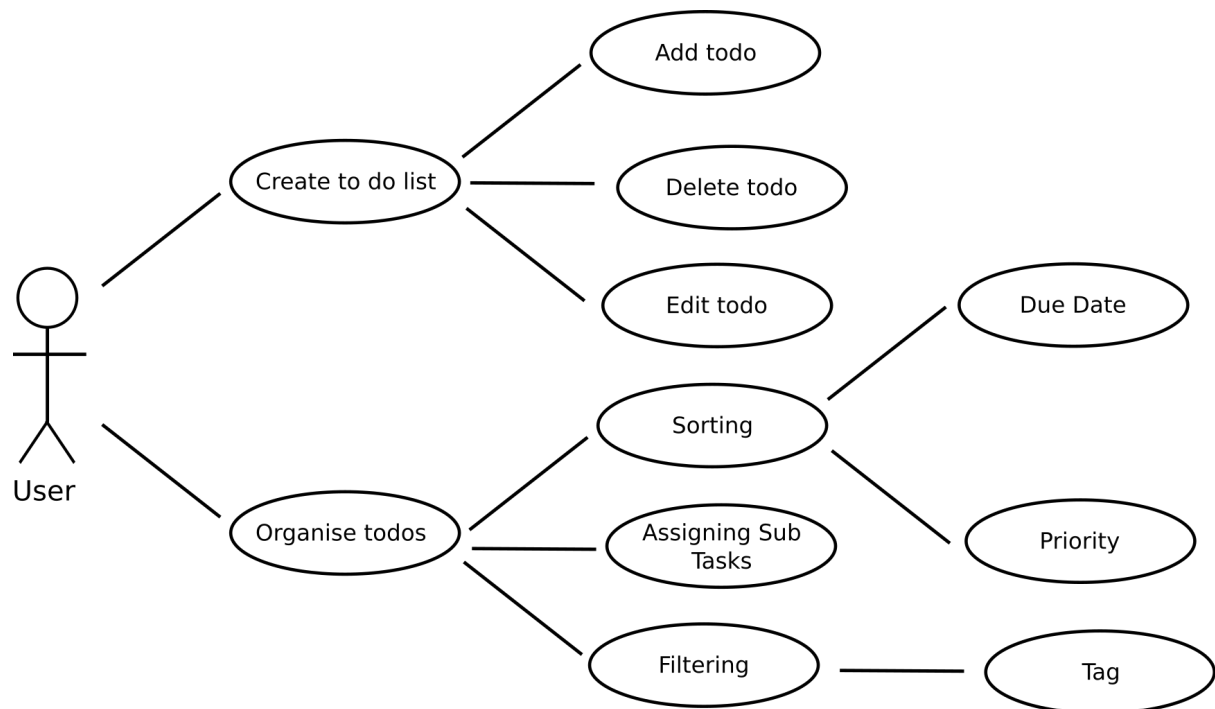


## CVWO 2020

### To Do List Webapp Mid-Assignment Writeup

#### Use Case Diagram



#### Planned Features

1. To Do List creation: Basic CRUD operations
2. Organization: Sorting and Filtering To Dos by:
  - a. Due Date
  - b. Priority (user defined)
  - c. Tags
3. To Do Hierarchy: Allow users to define tasks as sub tasks to create groupings
4. Multi-user support: Set up password protected user accounts

#### Architecture

##### Backend:

PostgreSQL: Database

Ruby on Rails: Expose an API to perform CRUD operations on the database

##### Frontend:

React: Routing and DOM management

Bootstrap: CSS stylesheets and layouts

#### Current Progress

1. Add, Edit, Delete, Show Todos
2. Sorting by dates

### **Current Issues**

- Time-zone conversion issues
  - Database stores time in UTC, so date/time data needs to be converted to local time-zones
- Task sorting/filtering
  - Should the sorting and filtering be done by the client or server?
- Code abstraction and modularization
  - There are many areas where there is unnecessary repetition, most notably when performing API calls and rendering HTML