

Instructions

Task 1

This task was completed using AngularJS.

The task has been hosted at <https://todo-list-89fea.firebaseio.com/>

Alternatively if the task needs to be run locally then the following installation procedure can be done.

Installation and starting:

Install NodeJS 4.8.

Link: <https://nodejs.org/download/release/v4.8.0/>

To start the ToDoList open your console in the Task 1 location.

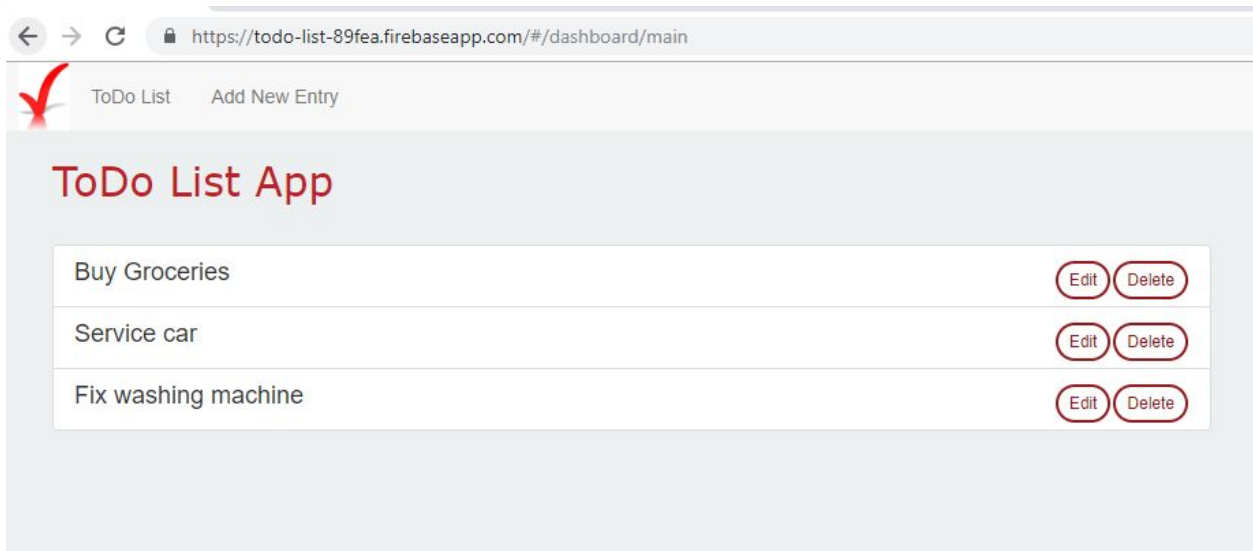
Execute the following commands:

- npm install
- bower install
- gulp serve

The server is now hosted at <http://localhost:9000>.

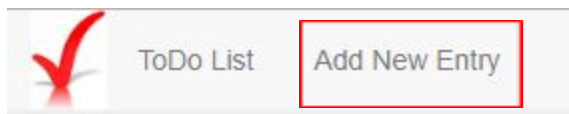
Using the application:

When navigating to the ToDoList app you will be greeted with the following screen.



The list displayed is the current items that are still in your Todo list.

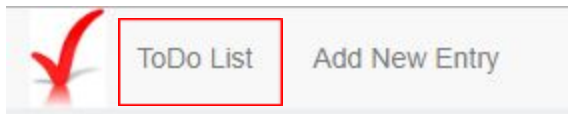
To add a new item to the list click on the “Add New Entry” button at the top.



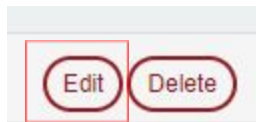
This will take you to the following screen, where you can add a new item using the form.

A screenshot of the 'Add New Entry' form in the app. The header shows a red checkmark icon, 'ToDo List', and 'Add New Entry'. The main title is 'Add New Entry'. Below it is the label 'ToDo Item Name:'. There is a large, empty text input field. At the bottom is a red button labeled 'Submit Entry'.

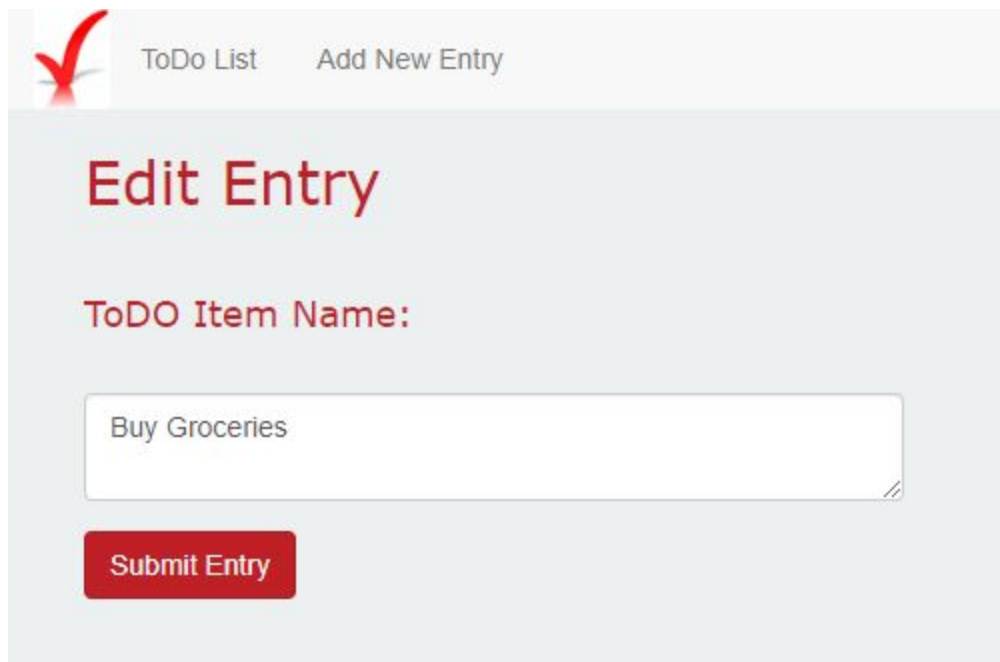
To get back to the main list page, click on the ToDo List button at the top.



To edit an existing item, click on the edit button on the associated item.



This will take you to the edit entry form, which can be filled out to make changes to an existing entry.

A screenshot of a web form titled 'Edit Entry'. At the top, there is a navigation bar with a red checkmark icon, the text 'ToDo List', and a button 'Add New Entry'. Below the navigation bar, the main heading 'Edit Entry' is displayed in a large, bold, dark red font. Underneath the heading is the label 'ToDo Item Name:' in a smaller, dark red font. Below the label is a text input field with the placeholder text 'Buy Groceries'. At the bottom of the form is a prominent red button with the text 'Submit Entry' in white.

To delete an entry, simply press the delete button for that item in the list.



Task 2

To compile this task, open your console and execute the **javac ./Sort.java** command.

To run the task, execute the **java Sort** command.

Once the application is running, follow the instructions on populating an array, after which it will perform the sorting algorithm and display the results.

Task 3

This task has two versions of a christmas tree. A symmetrical tree (width is always an odd number) and a tree where the width was taken as priority.

To run this task, simply execute the command **python ./christmasTree.py 16** or **python ./symmetricalChristmasTree.py 16**, where 16 may be changed to any number of preference.