

**TEAMMATES:**

Pavan Kumar Jonnadula - 16324822 - [pvjb6c@umsystem.edu](mailto:pvj6c@umsystem.edu)

Vamsi Alapaty - 18230326 - [vanny@umsystem.edu](mailto:vanny@umsystem.edu)

Priya Varsha Tarlapally – 16332852 – [ptf2x@umkc.edu](mailto:ptf2x@umkc.edu)

## ICP5 – Report

**Programming Tools:**

GitHub, VS Code

**Source Code:**

Pavan – 16234822

<https://github.com/JVSPAVAN/WebMobile-2022Spring/tree/ICP5/Web/ICP5>

Vamsi – 18230326

<https://github.com/VamsiAlapaty/Web-Mobile-Spring2022/tree/ICP5>

Priya - 16332852

**Task:**

As part of ICP5, a To-Do list and Count-down have been developed using Angular, HTML, CSS, Bootstrap, Material design and Typescript.

**Description:**

Angular is a platform and framework for building single-page client applications using HTML and TypeScript. It implements core and optional functionality as a set of TypeScript libraries that you import into your applications. The architecture of an Angular application relies on certain fundamental concepts.

A form has been used to add new To-Do list and for date we have used '*datepicker*' and for time we have used '*ngx-timepicker*'. This newly added to-do list is added into array list which displays all the tasks that are created. Using ng-for which is an angular directive in HTML iterated the array list and displayed accordingly.

As part of task 2 which is count-down timer we have appended it to all the tasks that are created in To-Do list. Using '*Math.floor()*' function major calculations under count-down timer are done.

These calculations are done for every 1 sec time interval in the predefined '*setInterval()*' function in Angular.

To display the count-down more graphically we have used material progress bar.

**Action to perform on To-do list:**

- *Add a new task:*

We have used a form module using reactive forms to enter the details of a new task to be added to the to-do list. Inside this we have used two other modules those are date picker and time picker.

- *Edit a task:*

If the user wants to edit the details of the existing task, user clicks on the edit button then form module will be displayed in the place of desired task.

Using form controls the existing data is prefilled into the form further edits. After user clicks on the update button the required changes are reflected on the to-do list.

- *Expire a task:*

The user can expire the existing task even before the count-down timer ends by clicking on the Expire button.

- *Delete a task:*

The user can delete the existing task whenever the user desires to delete it.

- *Additional features:*

Apart of these we have added other features like dynamic count calculation. This dynamic count calculation is done whenever any of the above actions are performed. This dynamic count is displayed in the navbar.


## Screenshots:

### To-do List with Countdown Timer:

The screenshot displays a web application titled "To-Do List" with a light blue header. The header includes a navigation icon, the title "To-Do List", and three status counters: "Count - 2", "In Progress - 2", and "Expired - 0". The main content area has a blue background and contains two task cards. Each card has a title, a description, a countdown timer, and action buttons. Task 1 is titled "Task - 1" with the description "First task created in To-do list." and a timer showing 0 days, 7 hours, 53 minutes, and 33 seconds. Task 2 is titled "Task - 2" with the description "This is our second task" and a timer showing 2 days, 10 hours, 33 minutes, and 33 seconds. Both tasks have "Edit", "Expire", and "Delete" buttons. A footer at the bottom of the page reads "Created by JVS PAVAN" with a logo and the year "2022".

Task Title	Description	Days	Hours	Mins	Secs	Expiry Date	Buttons
Task - 1	First task created in To-do list.	0	7	53	33	2/19/2022 6:00:00	Edit, Expire, Delete
Task - 2	This is our second task	2	10	33	33	2/21/2022 8:40:00	Edit, Expire, Delete

Form to add a new task:

To-Do List

Count - 2

In Progress - 2

Expired - 0

Add Task

Task Name

Task description

Date \*

Time \*

Create

Task - 1

First task created in To-do list.

Days

0

Hours

7

Mins

53

Secs

23

Expiry

2/19/2022 6:00:00

Edit

Expire


Delete

Task - 2

This is our second task

In Progress

If the task is expired:

To-Do List

Count - 2

In Progress - 1

Expired - 1

Add Task

Task - 1

First task created in To-do list.

Expiry

2/18/2022 10:06:41 PM

Edit

Delete

Task - 2

This is our second task

Days

2

Hours

10

Mins

33

Secs

13

Expiry


2/21/2022 8:40:00

Edit


Expire

Delete

In Progress

Created by JVS PAVAN  2022

*Dynamic form to edit the task:*



To-Do List

Count - 2

In Progress - 1

Expired - 1

Add Task

Task Name

Task - 1

Task description

First task created in To-do list.

Date - 2/24/2022

Time - 10:06 AM

Update

Task - 2

This is our second task

In Progress

Days

2

Hours

10

Mins

32

Secs

58


Expiry

2/21/2022 8:40:00

Edit

Expire

Delete

Created by IVS PAVAN  2022