



NITTE
EDUCATION TRUST

N.M.A.M. INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi)

Nitte – 574 110, Karnataka, India

(ISO 9001:2015 Certified), Accredited with 'A' Grade by NAAC

: 08258 - 281039 - 281263, Fax: 08258 - 281265

Department of Computer Science and Engineering

B.E. CSE Program Accredited by NBA, New Delhi from 1-7-2018 to 30-6-2021

Report on Mini Project

Todotron

Course Code : 19CSE41

Course Name : Web Programming

Semester: V SEM

Section: C

Submitted To:

Mr. Shashank Shetty
Assistant Professor [GD-II]
Department of Computer Science
and Engineering

Submitted By:

SABARINATH (4NM19CS164)
S SHISHIR BHAT (4NM19CS161)

Date of submission: 21/12/2021

Signature of Course Instructor

ABSTRACT

Todotron is a web app built on a javascript ecosystem. The To-Do web app is an application specially built to keep track of errands or tasks that need to be done. This application will be like a task keeper where the user would be able to enter the tasks that they need to do. Once they are done with their tasks they can also remove them from the list. This app allows users to schedule tasks, prioritize them based on a given set of priorities and also edit these tasks later on when required. For people who work with a busy schedule, it's important to remember the things to be done and their priorities. Todotron is the place where you can rely on to make your life easier and organized in a systematic manner.

TABLE OF CONTENTS

TitlePage	1
Abstract	2
TableofContents	3
Introduction	4
ProblemStatement	5
Objectives	6
Hardware/Software Requirement	7
Methodology	8
ImplementationDetails	10
Results	11
Conclusion andFutureScope	15
References	16

INTRODUCTION

We have a lot of choices to help us keep track of daily obligations. A simple list on paper of things “To Do” is enough for some people. Others prefer to use programs. Todo app helps users track their everyday tasks and helps them achieve it on time before time runs out. It's very important that we manage our time efficiently. Sorting our tasks and scheduling becomes very hectic when it has to be done on paper. Using a web app for such an application is very helpful.

Todotron is such an app where the users can add their tasks, schedule and prioritize them and mark it important by pinning it onto the pinned todos. What differentiates ToDoList from most other task management packages is the option to create hierarchies of tasks to break complex tasks down into progressively more simple subtasks until no further simplification is required.

PROBLEM STATEMENT

Social media and other easily accessible online distractions make it hard for us to stay focused on our tasks and make it difficult for us to do our work efficiently.

Also, constantly switching between tasks may give us the false feeling that we are being productive when we are, in fact, not. It's more important for us to prioritize tasks and work on those that are most important, rather than focusing on deleting small items from our todo list just for the sake of appearances.

OBJECTIVES

- Add tasks to the todo web app.
- Schedule the tasks.
- Prioritize the tasks.
- Edit the tasks.
- Add voice tasks.
- Voice search.

HARDWARE / SOFTWARE Requirements

A web browser with internet connectivity.

Software Requirements:

- IDE: Visual Studio Code Editor
- Client Side Technologies: ReactJS Framework
- Database Server: Firebase
- Operating System: Microsoft Windows/Linux

Hardware Requirements:

- Processor: Pentium-3 or higher
- RAM: 64MB or higher
- Hard Disk: 80GB or higher

METHODOLOGY

Todotron webapp is built as a SPA(single page application) with Reactjs where all the parts of the webapp are built as components and there will be no refreshing of the web page while submitting data or displaying new data where everything is dynamic.

Features:

- Authentication: The users must authenticate themselves using Google sign-in as the very first step to use the webapp.
- Add Tasks: Then the user is redirected to home page of the webapp where users can add todo,tasks and notes with a priority level ranging from 1 - 3 and due date that can be selected from the calendar UI provided.
- Voice-Tasks: The users can add text/voice tasks depending on their need.
- Priority/Duedate: The user will be presented with the respective todos and tasks added by them with the corresponding priority and due date or deadlines.
- Search Todo: Users can filter their tasks using voice search or text search .
- Pin Todo: The user can pin todos to keep them at the top of the

list for easy access.

- Edit Tasks: The user can edit the tasks or delete them by their respective clickable icons.
- Logout: Users can logout using the logout icon .

IMPLEMENTATION

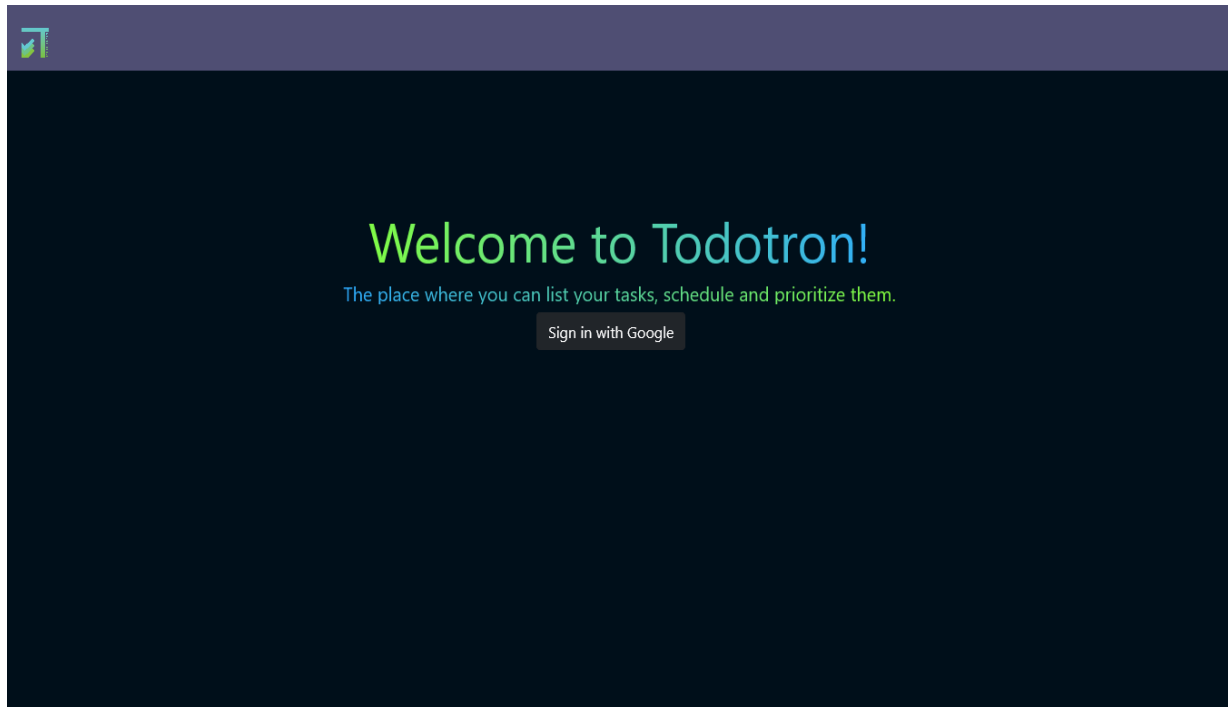
Todotron is built using Reactjs as a frontend technology and Firebase as a backend technology.

To install locally on your machine, follow the steps:

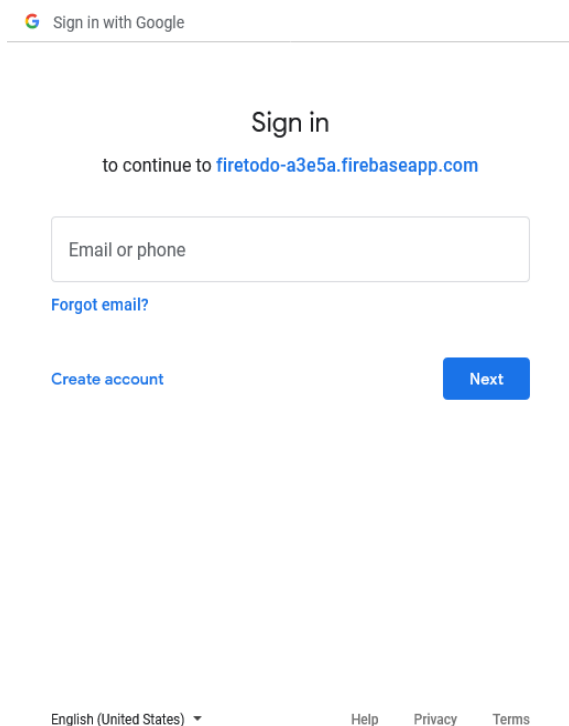
1. Download npm package manager and install it on your machine.
2. Replace the firebase.js configuration file with your own information.
3. Navigate to the project root directory and write the command 'yarn install' to install all the dependencies.
4. To run the webapp type the command 'yarn start'.
5. To stop the webapp, hit ctrl+c.

RESULTS AND DISCUSSIONS

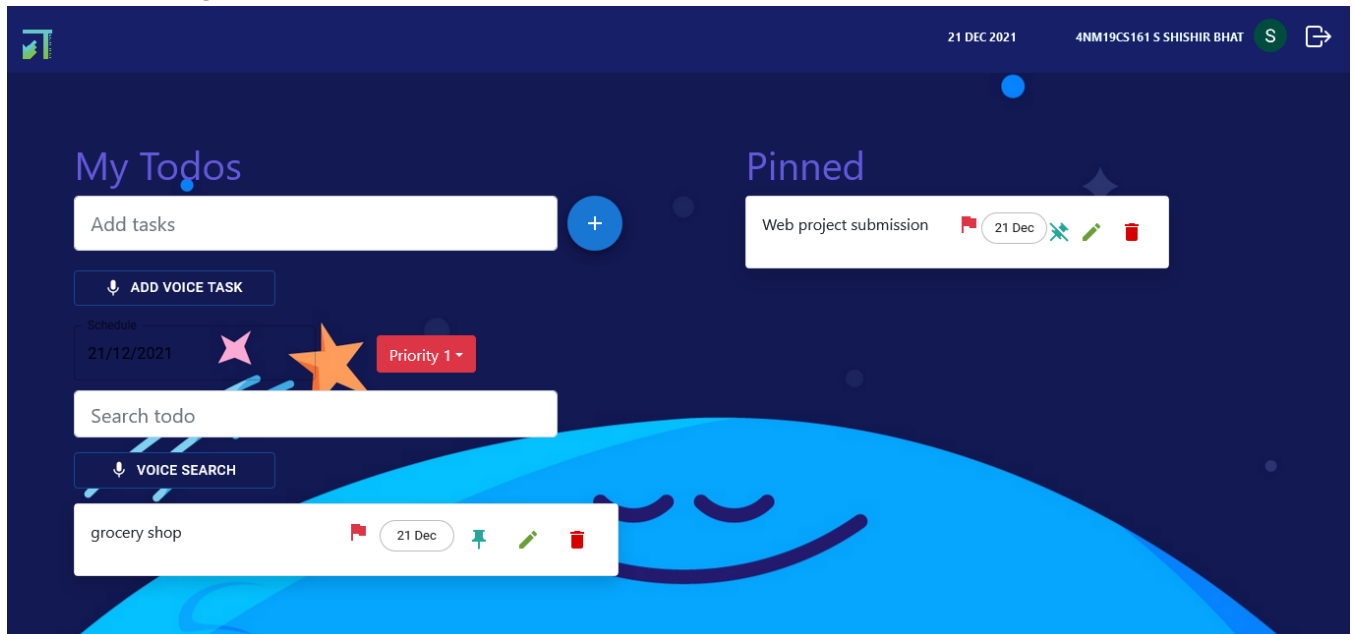
1.Landing page



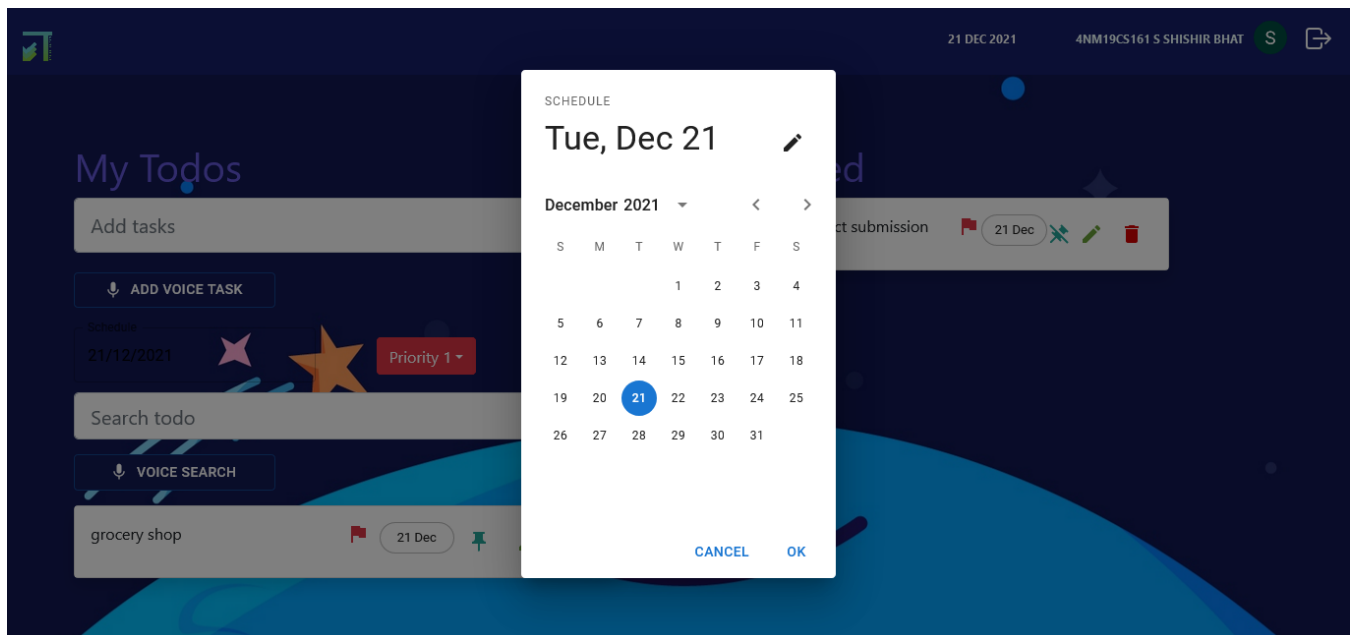
2.Sign-in page



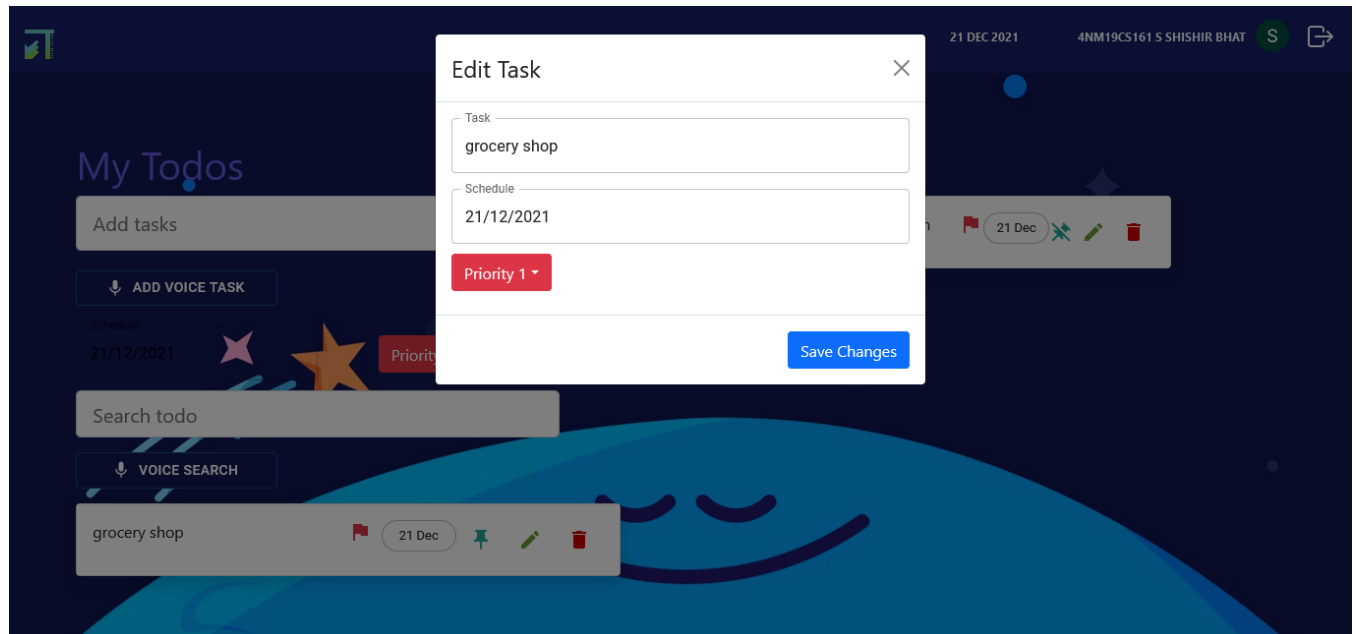
3.Main Page



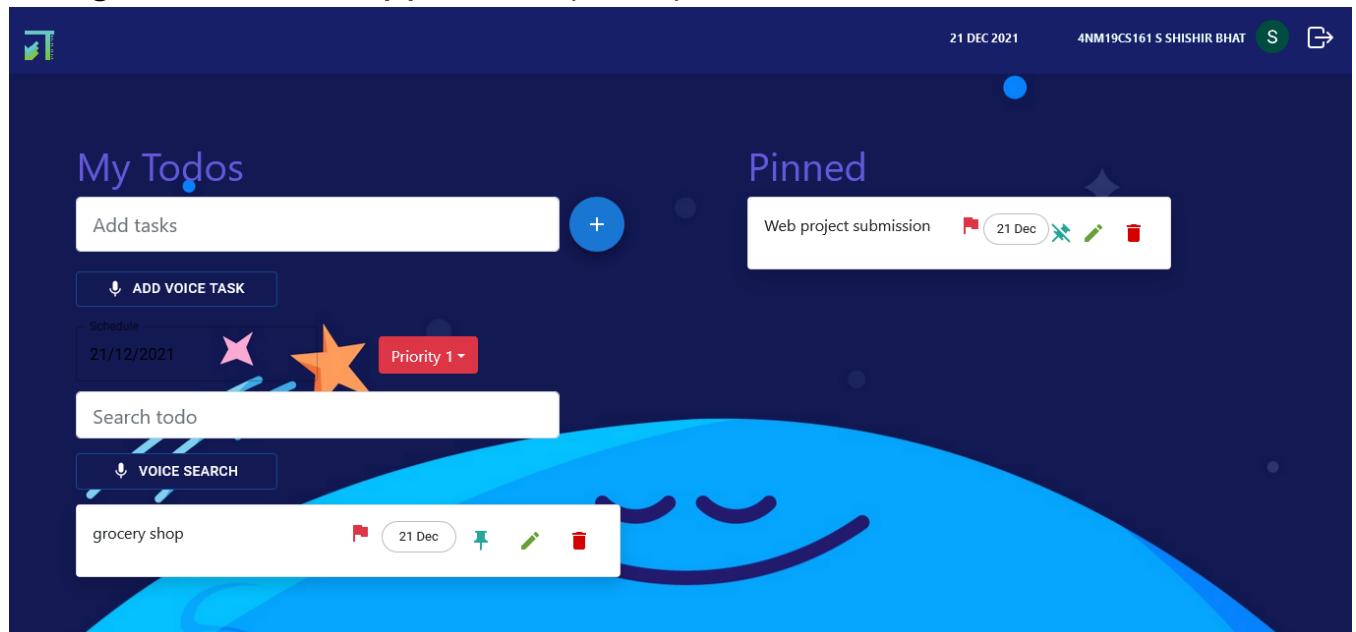
4.Schedule Task



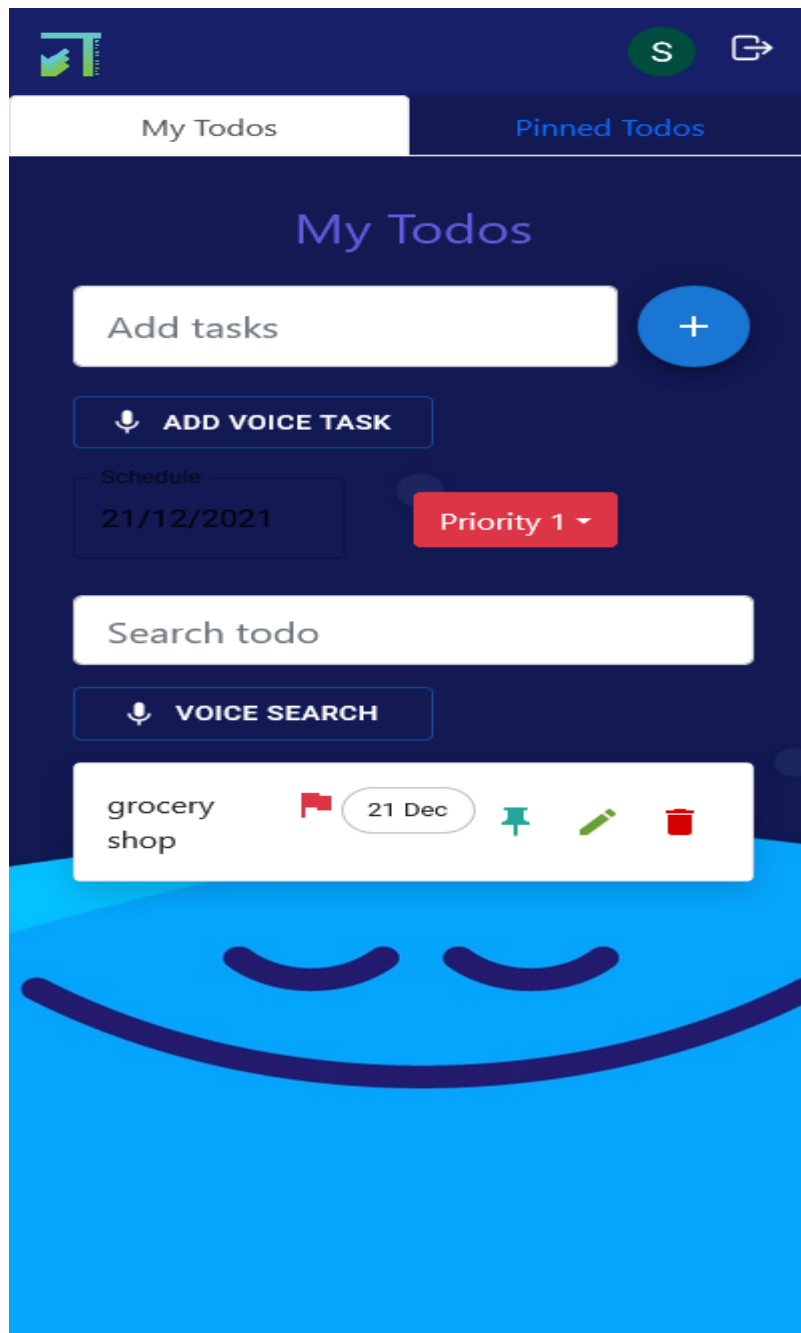
5.Edit Task



6.Progressive Web application(PWA)



7.Mobile-view



8.Logo



CONCLUSION AND FUTURE SCOPE

The goal of this app is to help us become more aware of how we spend time in the process of doing those tasks and how productive that time is. It can help set some constraints on social media to reduce distraction and track the time we spend working on the todo items.

- This webapp can be extended to show today ,tomorrow and upcoming tasks in a separate tab.
- Email notification can be sent to the users as reminder before a task approaches it's deadline.
- Linking Todotron with the Google calendar.
- Sorting of Todo's based on date and priority.
- Mobile notification from the Todotron app.

REFERENCES

- ReactJS - <https://reactjs.org/docs/getting-started.html>
- Material UI Library - <https://mui.com/getting-started/usage/>
- Speechly Library - <https://docs.speechly.com/>
- Icons - <https://icons8.com/>
- Bootstrap - <https://getbootstrap.com/docs/5.1/getting-started/>
- CSS - <https://www.w3schools.com/css/>
- React Bootstrap - <https://react-bootstrap.github.io/>
- NPM packages - <https://www.npmjs.com/>
- Yarn - <https://yarnpkg.com/>
- Firebase - <https://firebase.google.com/>