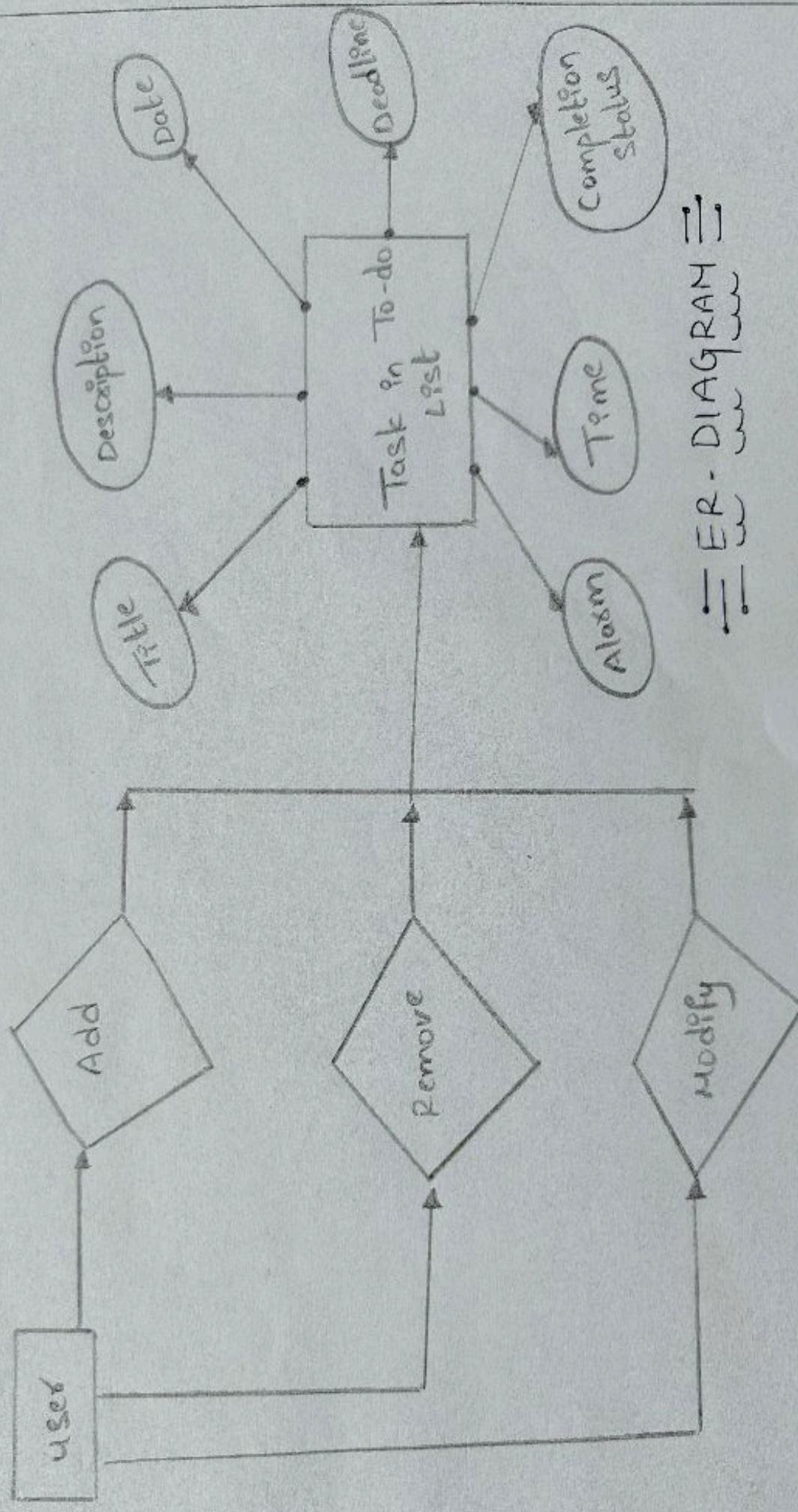


DESIGN flow

Final Design

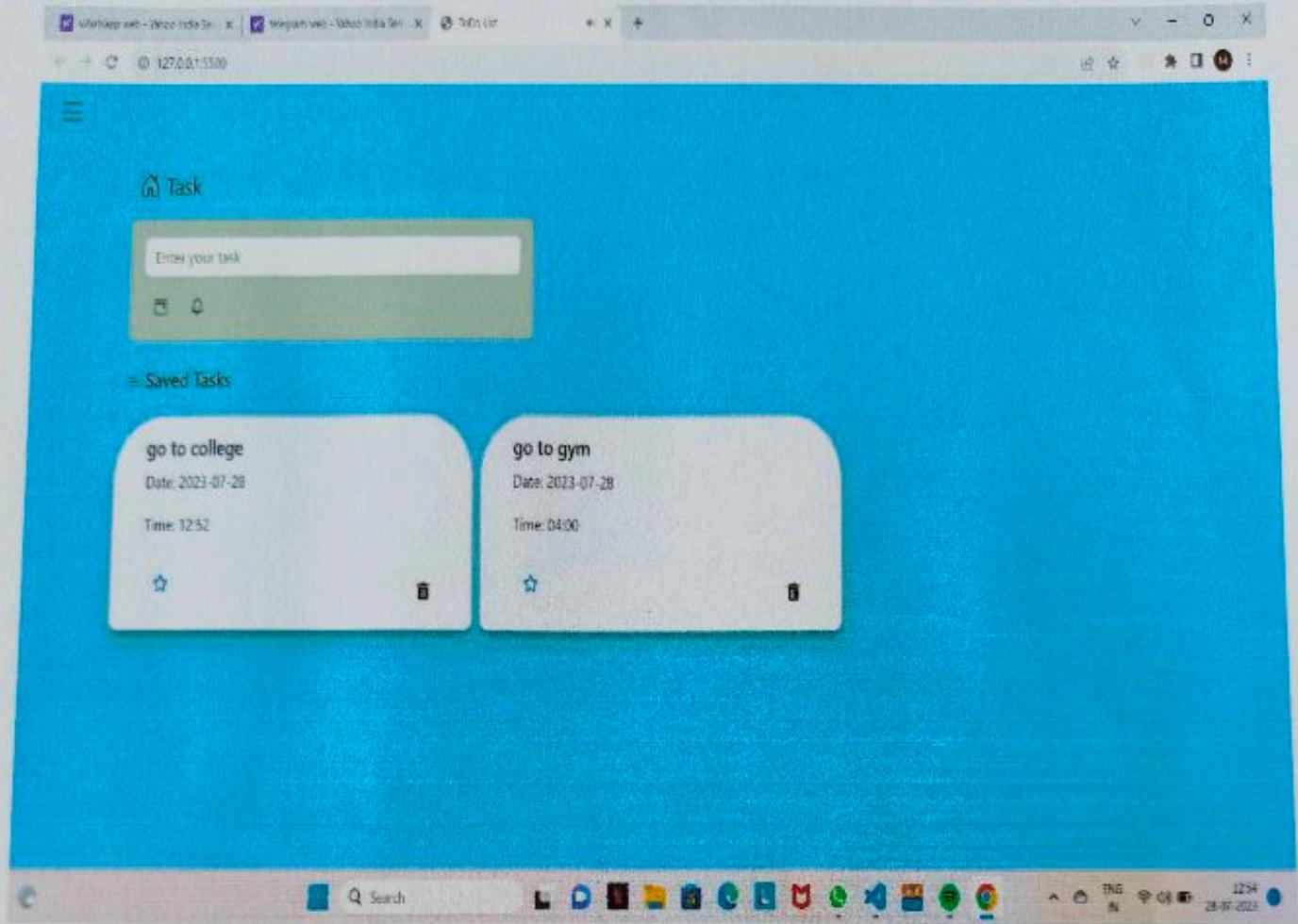
Entity-Relationship Diagram



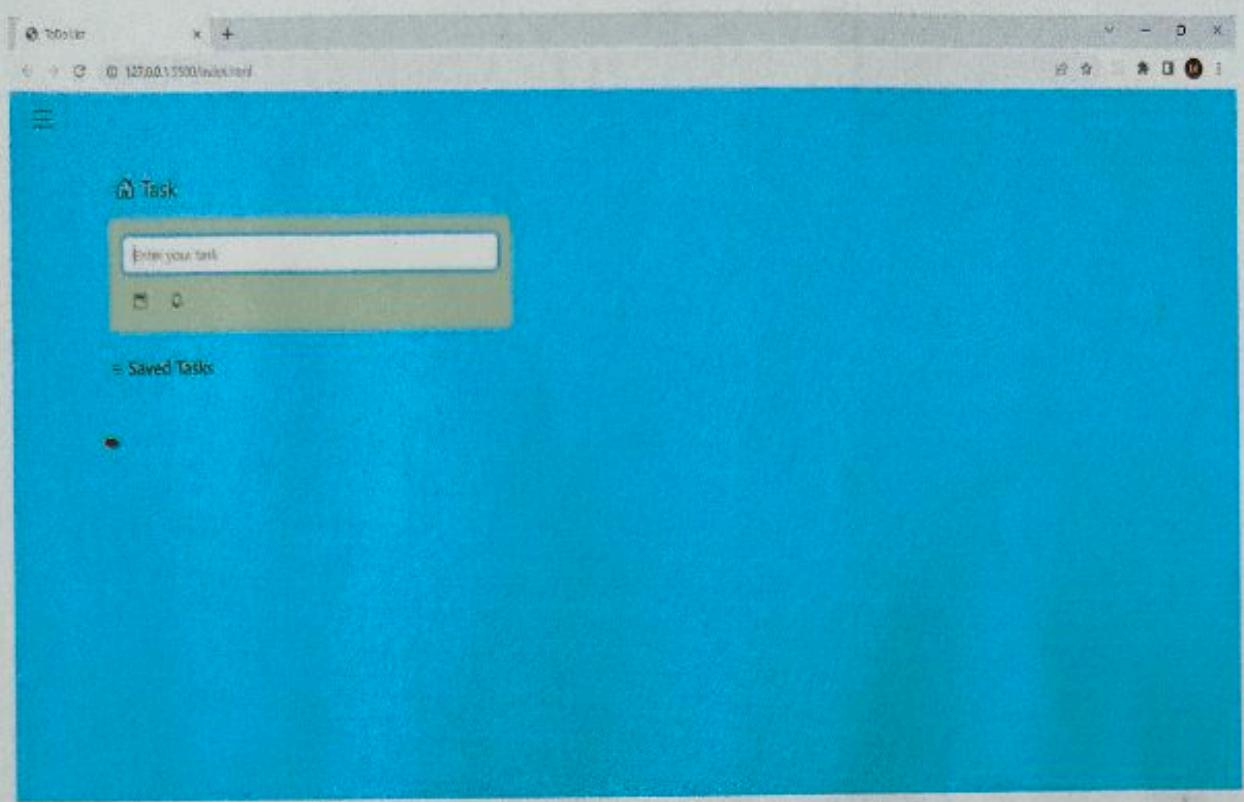
Focus of this project is simplicity:

The main functionalities that were added to this project are:-

1. Viewing all the tasks in a user's to-do list
2. Marking a task as completed changing its priority to '0'
3. Tasks are ordered by priority of importance
4. Deletion of tasks
5. Attributing due dates to tasks
6. Tasks are highlighted when they are close to due or overdue
7. Adding tasks to a user's to-do list.



output with Examples.



final output ↴

## Hardware & Software requirements of the project

### Software requirements:

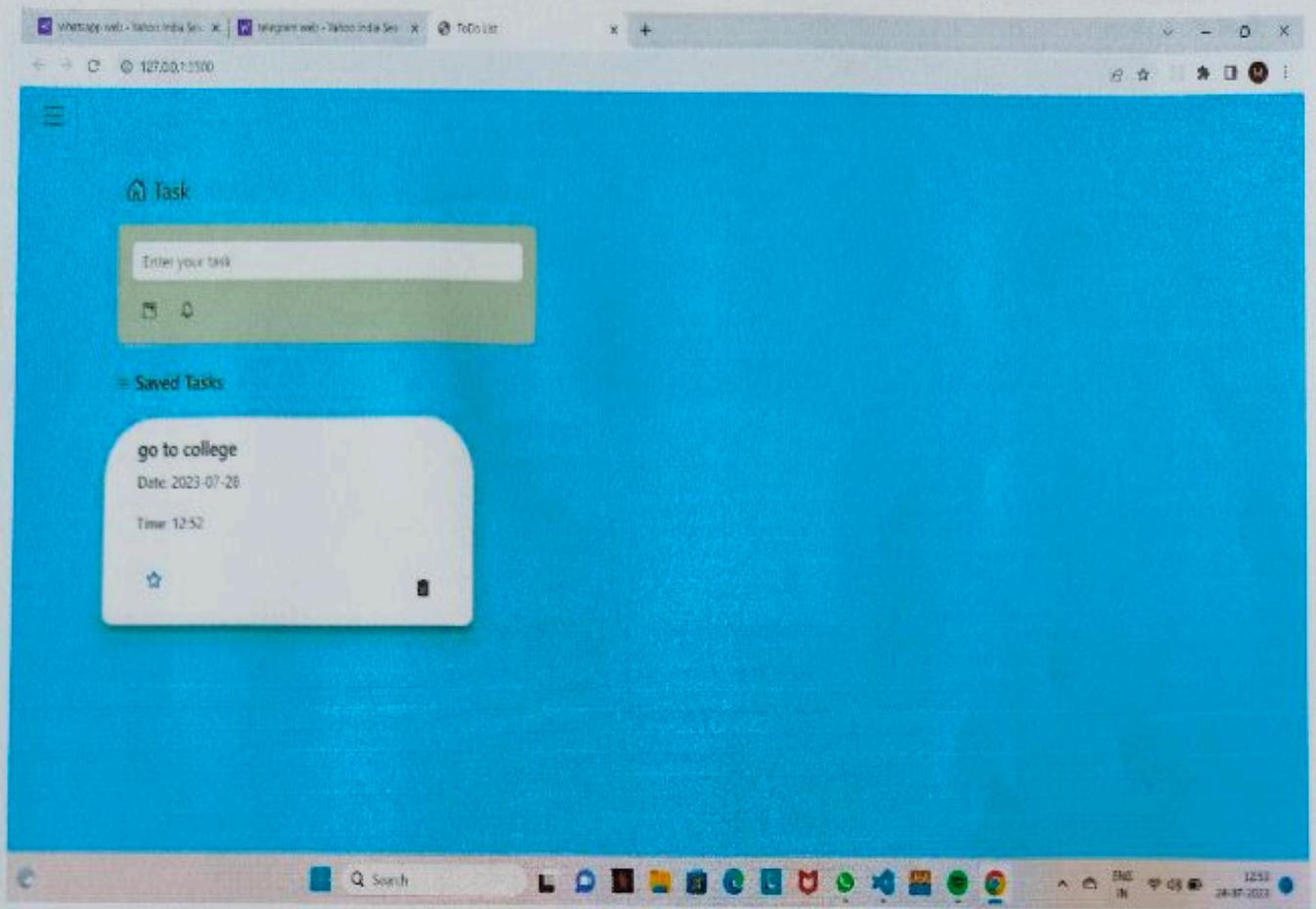
- HTML
- CSS
- JS
- VS studio code
- MS word
- Web browser:  
MICRO soft Internet  
Explorer
- operating system  
windows xp/windows7  
windows vista

### Hardware requirements:

- Server
- Internet facility
- computers
- 256 MB RAM
- 1Gb hard free  
drive space

### Software Quality Attributes:

- Availability :- Since we are hosting our project on the server it will be available all the time.
- Corrections :- The system should generate an appropriate report about different activities of the lab and should keep track of all records



output with Example.

## ADVANTAGES & DISADVANTAGES :-

### ADVANTAGES :-

1. Organization : To-do apps provide a structured way to organize tasks, projects, and deadlines, making it easier to prioritize and stay on top of important activities.
2. Accessibility : Many to-do apps offer synchronization across multiple devices, allowing users to access their tasks and lists from smart phones, tablets, computers, and web browsers. This ensures you have your task list with you wherever you go.
3. Time management : with features like due dates, reminders and notifications a, to-do app can help users manage their time more effectively and reduce the chances for forgetting important tasks.
4. Collaboration : some to-do apps allow users to share tasks and collaborate with others, making them ideal for

- Maintainability :- The system should maintain correct schedules of labs and the documentation of all the lab equipment.
- USABILITY :- The system should satisfy the maximum number of user's needs.

TEAM ID: LTVIP 2023 TM ID 03769

## TO - DO LIST

## A PROJECT REPORT

SUBMITTED BY

M. V. Durgaprasad [ Team leader ]

L. Manikanta [ Team member ]

L. Lova Raju [ Team member ]

M. Parasuram Reddy [ Team member ]

M. Vasu Deva Reddy [ Team member ]

## Best Design Selection :-

The final design chosen for the implementation of this project was to divide it into three main components

- The frontend
- The backend
- Database

The frontend is the medium through which the users can interact with the applications and utilize the necessary functionalities of the application.

The Backend is a two-way bridge between the database and the frontend. It ensures security, transfer and integrity of data that flows from the database to the frontend of the application.

The database is basically a store of all the information a user wishes to persistently store. It is responsible for storage, persistence, integrity and retrieval of data. The technologies used for the implementation of this project are: React JS for frontend, Node.js for backend and Mongo DB for database as the primary

Database

Backend Application

Frontend Application

USER

Log in / Sign up

Add / modify task  
From the list

Update the database  
as per request from user

Send updated data  
to backend

Push updated list to  
Posteo

Abstract List

the user's mind as their pending tasks are recorded safely and they won't be forgotten.

→ The To-do-list project is a user-friendly website which helps them to keep a track of their tasks. It is a simple site which requires no sign-in/log-in or any personal details but still records your task, marks the completed tasks, and stores them even if you visit the site after a few days.

→ Traditionally, they're written on a piece of paper or post-it notes and acts as a summary or memory aid. As technology has evolved, we have been able to create a to-do lists with excel spreadsheets, word documents, to-do list apps, MICRO soft to do and google to do list to name a few, you can use to do list in your home and personal life or in the work place.

→ A to-do list is a list of tasks that need to be completed, typically organized in order of priority, it is one of the simplest solutions for task management and provides a minimal &

- \* In addition, a task list will help you manage your workload better and learn to say "no". at any given time you know how much you needed to do so you can plan accordingly. it's easier to manage what you have on your plate when you have an overview of all tasks and projects. when you control your workload this way, people will respect you more for it and they will value your time.
- \* All in all, human brains are great at making complex associations but not so good at remembering, writing a to-do list makes your memory's job much easier, This leaves more time for creative work and allows you to keep track of your activities. This is valuable for any organization and will help you make a bigger impact.
- \* it will let you save time  
Another benefit of having a to-do list is the amount of time you save. often planning for 15 minutes

Elegant way for managing tasks a person wishes to accomplish.

- \* Definition :- it is a Simple one.  
It's a list of tasks you need to complete or things that you want to do
- \* Tasks should be fast to add and organise
- \* There should be a variety of ways to organise the tasks
- \* Ability to plan your work flow
- \* Setting properties
- \* Reminders for any self-imposed deadlines
- \* Allocation of tasks if using it for task management with a team.
- \* Team to-do list allows you to assign to the best person for the job.
- \* Able to sync between different platforms

## 6. APPLICATIONS :-

- \* To Do List app is a kind of app that generally used to maintain our day-to-day tasks or list everything that we have to do, with the most important tasks at the top of the list, and the least important tasks at the bottom. It is helpful in planning our daily schedules.
- \* It lets you make large and overwhelming projects manageable. Also, you get more done by focusing on high-value activities once you have a list of things you need to do, it's much easier to prioritize the tasks on it. This will ensure you're always working on the right things.
- \* One of the preeminent uses of a to-do list is remembering things and sticking to your deadlines. While a small part of the benefits, it's still very important. Staying on top of your projects makes you a reliable team.

## 1.2 Purpose

The use of this project is completely free to use to any and every one. The only requirement of this application is to have a device capable of running a web browser.

- \* The To Do List app is a kind of app that generally used to maintain our day-to-day tasks or list every thing that we have to do, with the most important tasks at the top of the list, and the least important tasks at the bottom. It is helpful in planning our daily schedules.
- \* At work and at home, having a to-do list may help you prioritize your work and personal tasks. This allows you to organize and complete the most crucial tasks first. To-do-lists can be used to improve time management because all of your tasks are laid out clearly in advance.

# CONCLUSION

The to-do list developed for this project is meant to be a minimal, free and open source application that can help improve the productivity of a user without taking anything. It aims to solve at least some of the problems discussed earlier in this report.

Succeeding in today's work environment is tough. There are too many projects and tasks to manage. With new things popping up and your personal commitments, things can get overwhelming. Add the huge amount of distractions and you're in for a difficult climb up the ladder of success.

- \* Having a to-do list can make things much easier. Whether you're looking to achieve more of your goals or controlling your time better, a to-do list will help you. You can get a positive boost to your career by becoming the person who is always on top of things and feel good every day.

## LITERATURE SURVEY

As discussed earlier, productivity and task management entails more than just organizing virtual and physical collections and scheduling activities.

Recent research has begun to address the problem of generic task management in the context of mail. This development is hardly surprising, given that many digital device users are overloaded by the number of chores done through email. According to this research, any successful productivity tool must be tightly connected with email functionalities.

Task Management :—

Recently researches looked at task management strategies more generally because email and related technologies are unlikely to be the whole picture.

Can save you on hours or more of execution. It's like building a house, you start with a blue print, or you could make a mistake and start over again. A task list makes it easy to see the foundations of your projects and work to a predefined blue print.

- \* Once you have a list of things you need to do, it's much easier to prioritize the tasks on it. This will ensure you're always working on the right things.
- \* Another great way to use your to-do list is for analyzing your behaviour later. You can see which activities produced the best results and double down on them. This makes it easy to identify opportunities to focus on and things to drop off your schedule.

To-do list as a solution to task management

The concept of To-do list has existed for a very long time and it is one of the primary methods for management of tasks, use of a To-do as a reminder system, To-do as a system for note management, etc. In the simplest and most primitive form, a To-do list can be implemented on a pen and paper as a checklist of items which can be crossed off or locked against completion.

⇒ This can be further extended to calendars by adding tasks against due dates. can also act as dead lines for past due tasks, other dead lines for To-do lists - can possible extensions of To-do lists can be while books, journals, text editor etc.

⇒ The functions of To-do lists naturally evolve to perfectly fit web applications on modern tools and techniques. Equipped with modern tools and techniques can build an application to minimize and power full to create a minimal and power full

## FUTURE SCOPE :-

- The initial plan was to use an SQL database instead of MongoDB but the object Relational Mapping (ORM) library we planned to use with - js
- The feature to track and list tasks by their priority was implemented towards the end of the project as we had initially planned to classify tasks into two lists only based on whether the tasks were completed or pending.
- Several implementation problems did not have any solutions that could be solved by directly using third-party libraries so they had to be solved by manually implementing the functionalities
- Improvement in security and integrity.
- Integration with other applications such as calendar, mail, etc.
- Implementation of authentication
- Hosting the web application online to make it accessible to more users.

- \* one of the most important reasons you should use a to do list is that it will help you stay organised. When you write all your tasks in a list, they seem more manageable. When you've got to do and those you have completed it helps you stay focused while leaving up space in your mind for other more creative tasks.
- \* when you complete a task, you can cross it off your list. This gives you a sense of progress and achievement. Something you'll lack if you're always rushing from one task to the next. It feels a sense of achievement, if spurs you on and motivates you to keep moving forward. But that's not the only benefit of a to-do-list. Here are a few more;
- \* Improves your memory
- \* Increases productivity
- \* Help with motivation

\* App todo-list-app performs very efficient comparing to competitors. There is a space for further developments with regards of keeping app small and quick. It would be optimal to use dedicated CSS and continuing using vanilla JavaScript.

\* To-do-app can be developed as a sole application as well as a very efficient module to be combined in a larger project. One of the key challenges is to chose appropriate storage solution, that will allow to maintain it's biggest advantages

- Simplicity
- Speed
- low resources demand.

- → Immediately turn on, allowing for quick input and clear view.
- Conventional to-do-lists are commonly abandoned due to slow, time-consuming input and weak output.
- → No formal job description, classification or decomposition is required from users, and any degree of abstraction is required for atomic task entries must be permitted
- A mechanism for dealing with stale, lower-priority to-dos that are becoming less likely to be performed but have not been explicitly deleted.

application that can help boost productivity without loss of focus and attention. With the computing power and persistence of modern devices and databases, losing track of tasks will not be a problem. People will have to face any more and they can rest assured, only focussed on the tasks that they will have to accomplish as a result of modern technology and the power of digital devices, integration will be seamless and tasks can be synced across multiple devices all at once, without any hassle.

Essential functionalities:-

- → A variety of methods for examining and managing to-do lists that go beyond lists and mirror the advantages of current resources
- → The inconvenient property such as when it becomes the default spot for every day tasks where reminders can be satisfied.

team projects and group assignments.

5. Notes & Attachments : Many to-do apps allow users to attach files links, or additional notes to tasks providing a convenient way to keep all relevant information in one place.

6. Progress Tracking :— Some apps offer progress tracking features, enabling users to monitor their productivity accomplished

7. Goal Setting :— To-do apps often support goal - setting features, helping users set specific objectives and work towards achieving them.

8. Increase productivity :— A to do list allows you to prioritize the tasks that are more important. This means you don't waste time on tasks that don't require your immediate attention. Your list will help you stay focused on the tasks that are the most important.

## Introduction

A to-do list is a simple prioritized list of the tasks a person must complete. People make a list of everything they need to do, ranked according to priority from the most critical task at the top to the least critical task at the bottom.

A few of the features of a good to-do list application include:

- \* plan and execute simple actions
- \* prioritize, manage and reason about tasks
- \* Record notes, action items and ideas
- ⇒ It is only useful for a short period of time while the task is remembered
- ⇒ A simple item like a Stack is enough to recall the job without the need for a note
- These are clear immediate implications a to-do list to a person's productivity system.
- The functionalities provided by a good to-do list application / system help declutter

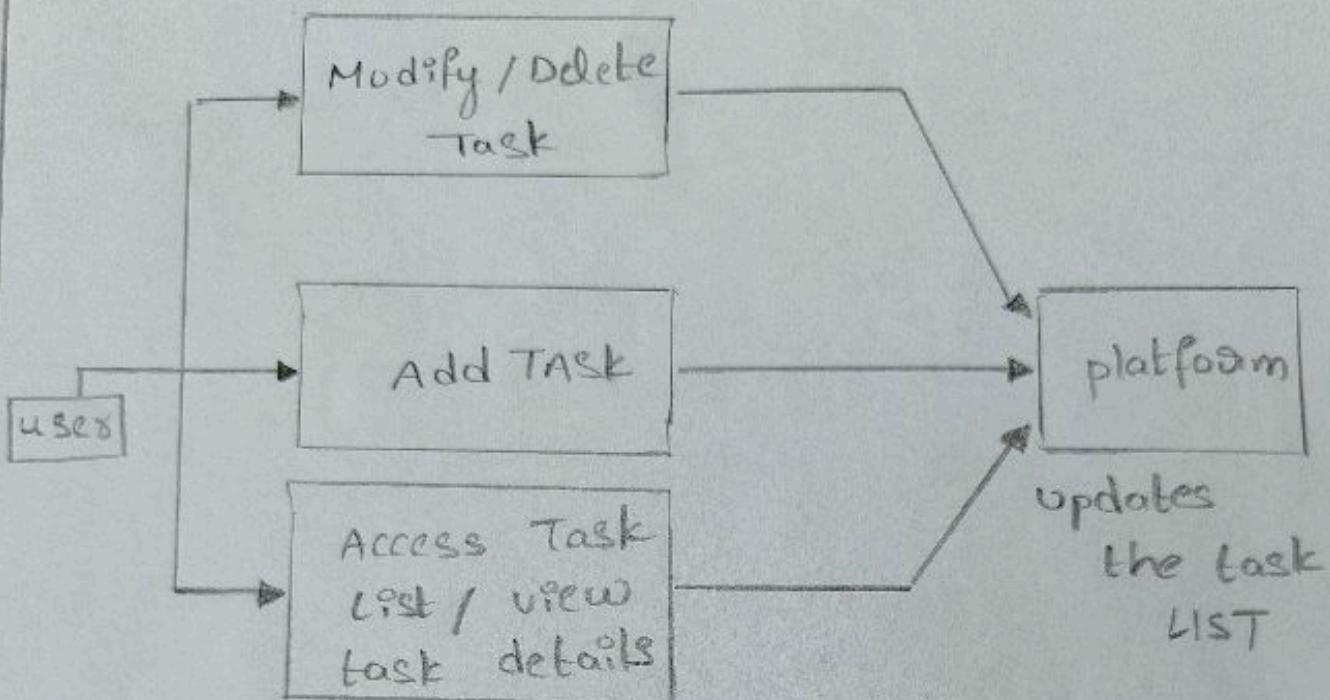
5. Dependency on Technology :- Relying heavily on a to-do app might make you dependent on technology. And if the app is unavailable or crashes, it could disrupt your task management.
6. Privacy and Security :- Storing personal or sensitive information in a to-do app could pose a security risk, especially if the app's security measures are not robust.
7. Lack of flexibility :- Some to-do apps might not cater to everyone's workflow or specific needs, making it challenging for certain users to adapt to the app's structure.
8. It creates unnecessary mental pressure that triggers stress and anxiety. It doesn't allow you to adapt to each day's unique challenges or demands, it ignores the prioritization of tasks based on their actual importance. It's easy to overload the list - which leads to more stress and overwhelm.

## DISADVANTAGES :-

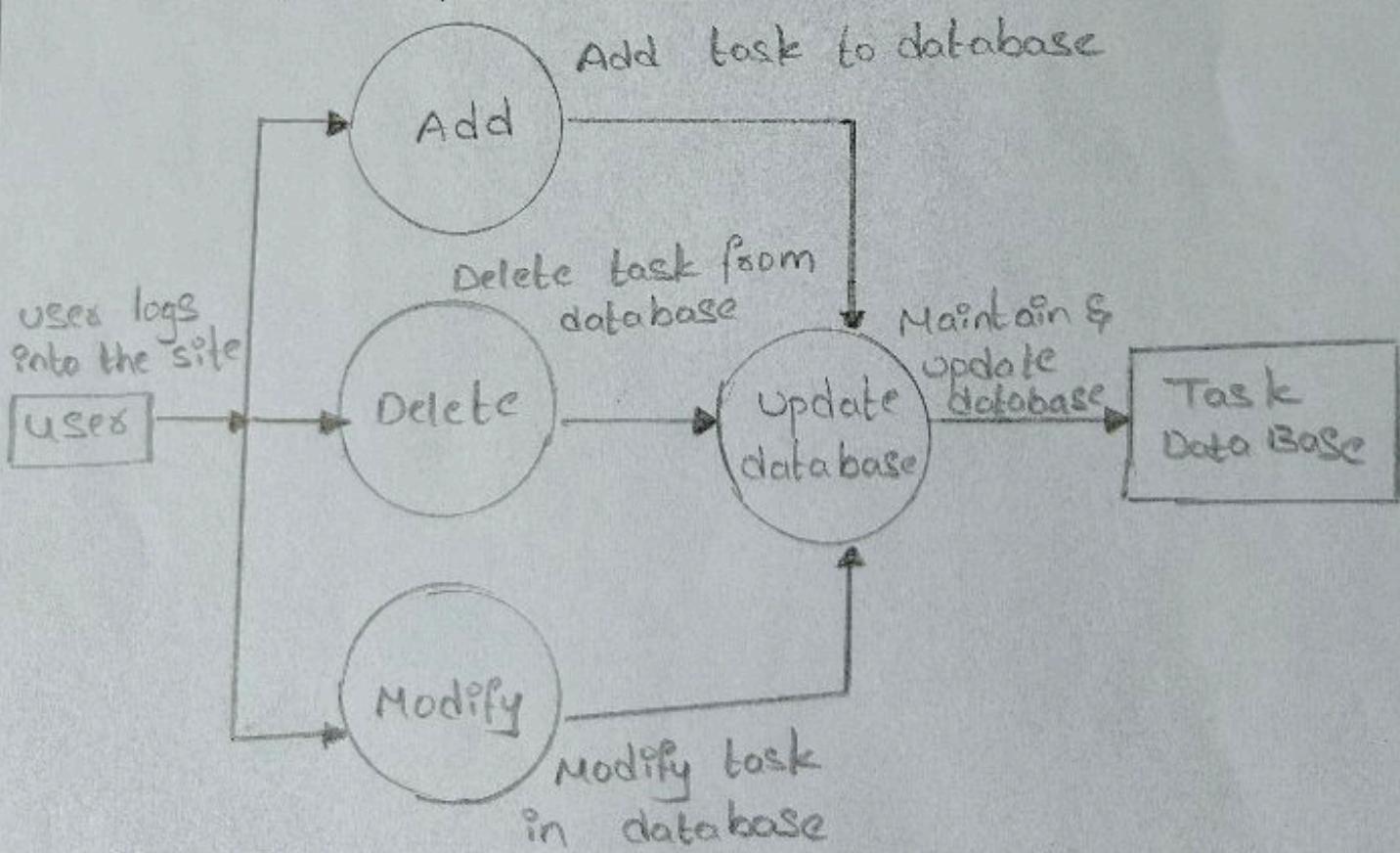
1. Learning curve :— Depending on the complexity of the app and its features there might be a learning curve for new users to understand how to use the app effectively.
2. Distractions :— While a to-do app can help you stay organized it, can also become a distraction if you spend too much time tweaking settings or organizing tasks rather than actually completing them.
3. Overwhelming :— If not managed properly a long list of tasks can be overwhelming and cause anxiety, especially if you struggle to prioritize effectively.
4. Technical issues :— Like any software, to-do apps can experience technical glitches, downtime or compatibility issues, which might disrupt your productivity.

Theoretical analysis :-

Block diagrams



==== Graphical Abstract ===



==== DATA FLOW DIAGRAM ===