April 2023

TO-DO LIST

A Project Report

Submitted by

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in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

Computer Science and Application

GLA University, Mathura

April 2023

BONAFIDE CERTIFICATE

Certified that this project report “To-Do List” is the bonafide of

“Shashank Chaudhary and Khushi Sharma” who carried out the project

work under Dr.Sumit Nagar Technical Trainer.

Signature of HOD

Name of HOD: Mr.Rohit Agrawal

Signature of Supervisor

Name of Supervisor: Dr.Sumit Nagar

Training Certificates

udemy

Certificate no: UC-34f81bb7-8914-4180-80c1-53d0d39884c1
Certificate url: ude.my/UC-34f81bb7-8914-4180-80c1-53d0d39884c1
Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete Web Developer in 2022: Zero to Mastery

Instructors **Andrei Neagoie, Zero To Mastery**

Shashank Chaudhary

Date **24 Jul 2022**
Length **38 total hours**

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Acknowledgement

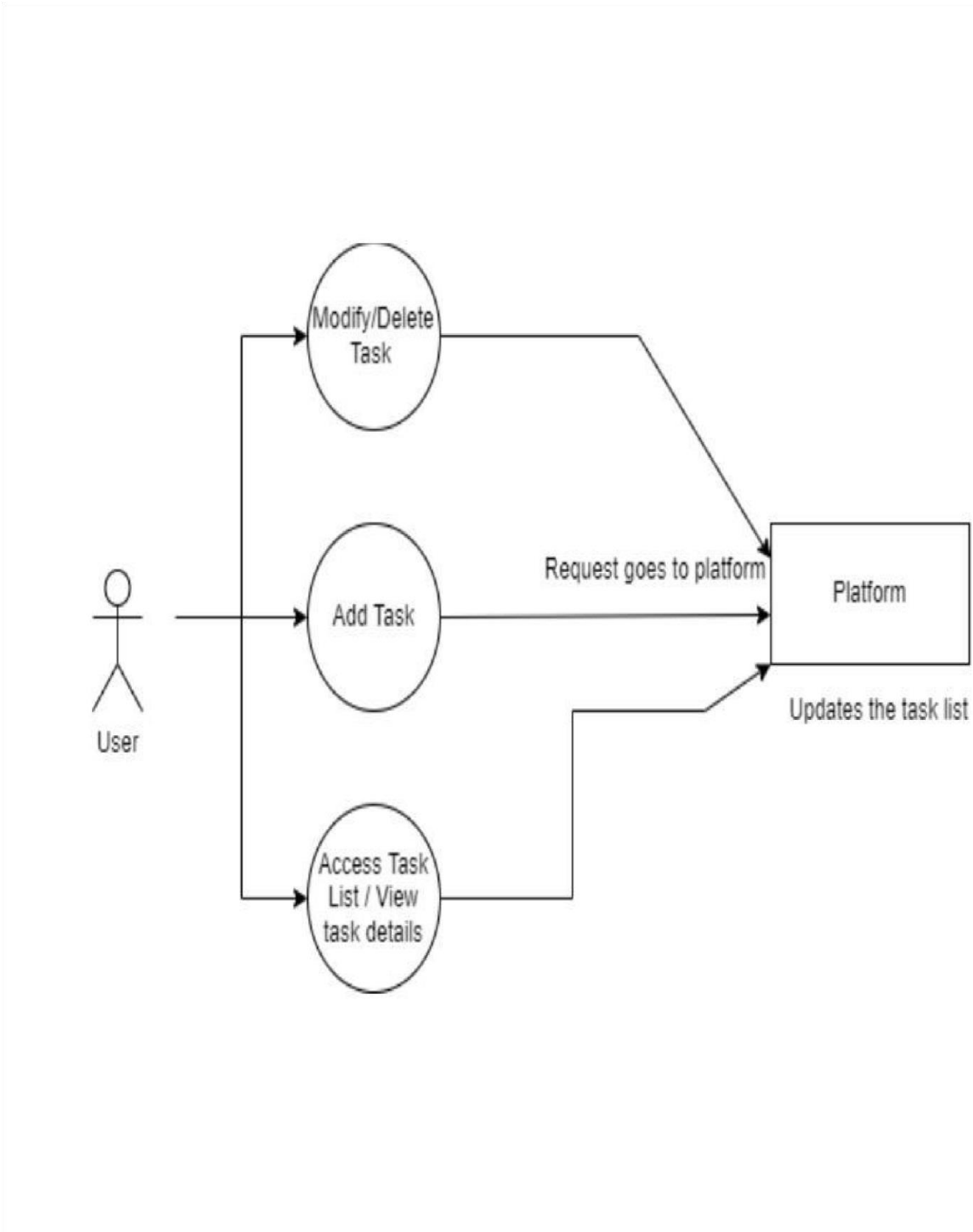
It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Dr.Sumit Nagar, Technical Trainer , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

His sincerity, thoroughness and perseverance has been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

Abstract

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 and elegant way for managing tasks a person wishes to accomplish. Our aim is to design a simple and elegant website for people to keep a track of the status of their tasks. Making a to-do list is an easy and important task that everyone should do. The immense satisfaction that one gets when completing the task and marking it on the list are incomparable. Moreover, creating a list of tasks ensure you don’t miss out on anything. It’s a scientific fact that when you write the tasks that you need to complete, you are even more motivated to complete it. With this in mind, we come to build a platform which will help people create their own task list. With the help of modern tools and technologies, we strive to build a minimal and efficient to-do list which minimizes distractions and helps people achieve task management with ease and without hassle.

Graphical Abstract



CHAPTER-1

INTRODUCTION

1.1 CONTEXT

This Web Application “To-Do List” has been submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering at GLA University, Mathura supervised by Dr.Sumit Nagar. This project has been completed approximately one months and has been executed in modules, meetings have been organised to check the progress of the work and for instructions and guidelines.

1.2 MOTIVATION

A to-do list acts as an external memory aid. It’s only possible to hold a few pieces of information at one time. Keep a to do list and you’ll be able to keep track of everything, rather than just a few of the tasks you need to do. Your to do list will also reinforce the information, which makes it less likely you’re going to forget something. To do lists are a great motivational tool because you can use them to clarify your goals. You can divide your long-term goal into smaller, more achievable short-term goals and as you tick each one off your list, your confidence will increase. 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.

1.3 OBJECTIVE

To-do lists offer a way to increase productivity, stopping you from forgetting things, helps prioritize tasks, manage tasks effectively, use time wisely and improve time management as well as workflow.Making a to-do list is an easy and important task that everyone should do. The immense satisfaction that one gets when completing the task and marking it on the list is incomparable. Moreover, creating a list of tasks ensures you don’t miss out on anything. It’s a scientific fact that when you write the tasks that you need to complete, you are even more motivated to complete it. The functionalities of to-do lists naturally evolve to perfectly fit web applications and applications on digital devices. Equipped with modern tools and technologies, engineers can build an application to create a minimal and powerful application that can help boost productivity without loss of focus and attention.

1.3 SOURCES

The source of our project (including all the project work, documentations and presentations) will be available at the following link .
https://github.com/Shashankch14/todo-List

CHAPTER-2

SOFTWARE REQUIREMENT AND ANALYSIS

2.1 PROBLEM STATEMENT

The idea of plan for the day has existed for quite a while and it is one of the essential techniques for the board of assignments, utilization of a tasks as an update framework, tasks as a framework for note the executives, and so on. In the least difficult and most crude structure, a plan for the day can be executed on a pen and paper as an agenda of things which can be crossed of or ticked against when finished.This can be additionally reached out to schedules, by composing undertakings against dates where the dates can likewise go about as cut off times for specific assignments. Other potential augmentations of plans for the day can be on whiteboards, diaries, text editors, etc. With the processing power and steadiness of current gadgets and data sets, forgetting about assignments won't be an issue individuals should confront any longer and they can have confidence, just centered around the errands they should achieve similarly as with present day innovation and the force of advanced gadgets, combination will be consistent and undertakings can be adjusted across different gadgets at the same time, with next to no problem.

2.2 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirements

- Processor: Ryzen 3
- RAM: 8 GB
- Operating System: Windows

- SSD: 512 GB

Software Requirements

- Visual Studio Code
- Atom
- Google Chrome Browser

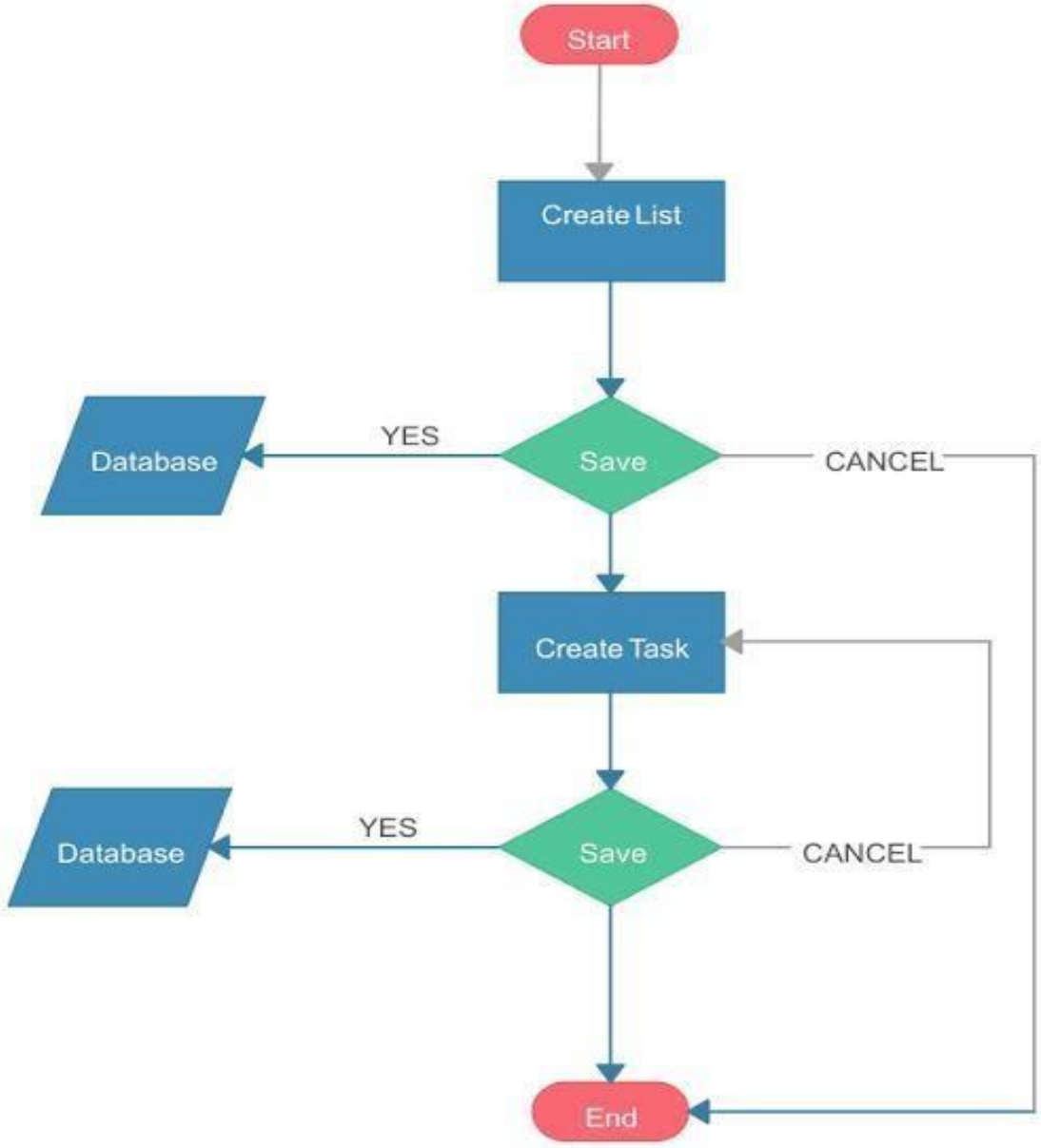
2.3 FUNCTIONALITIES

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. To-dos are the tasks or the atomic entities that make up a to-do list. There are clear immediate implications to adding a to-do list to a person's productivity system. The functionalities provided by a good to-do list application/system help declutter 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, mark the completed tasks, and stores them even if you visit the site after a few days.

CHAPTER-3

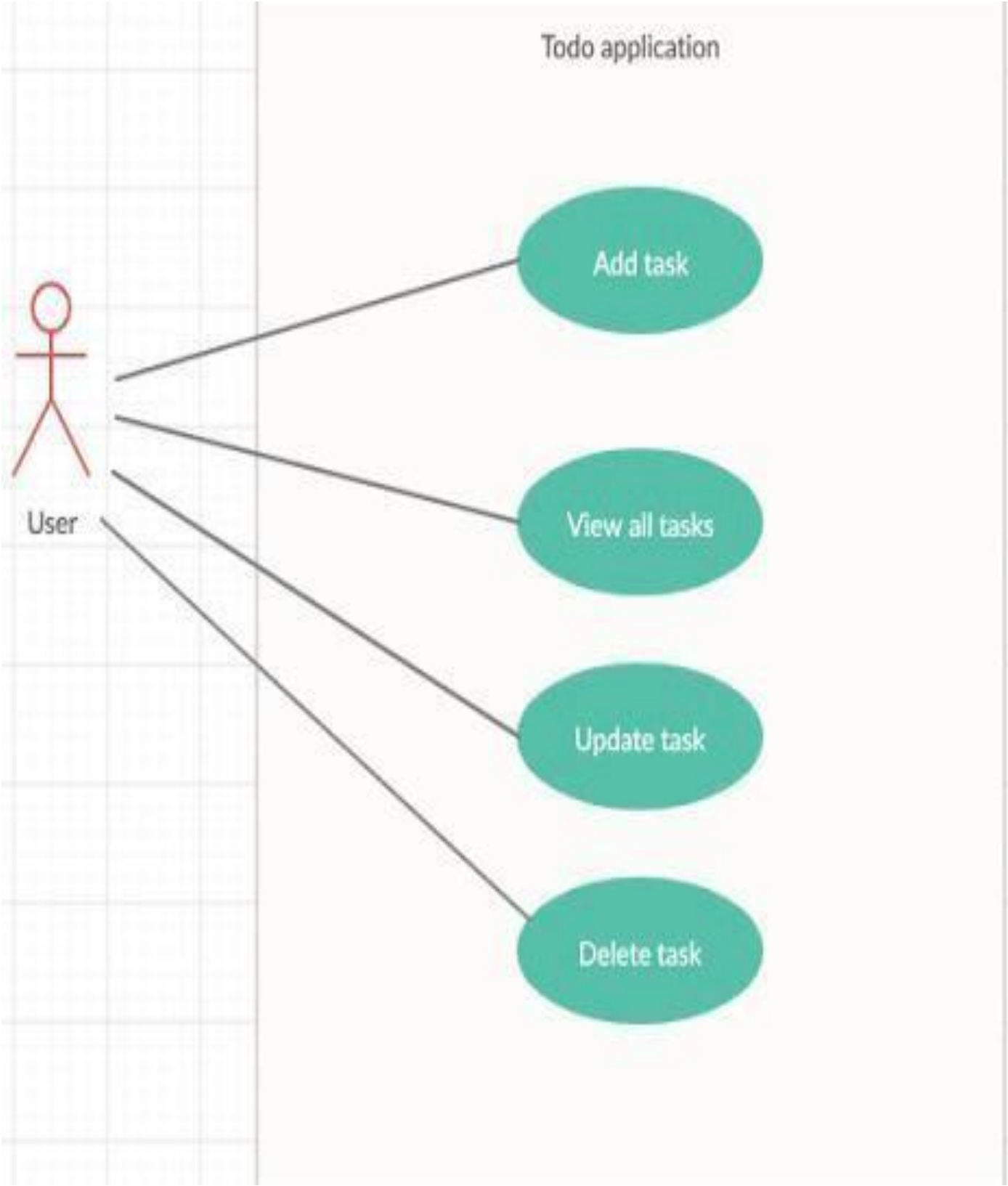
SOFTWARE DESIGN

3.1 DATA FLOW DIAGRAM

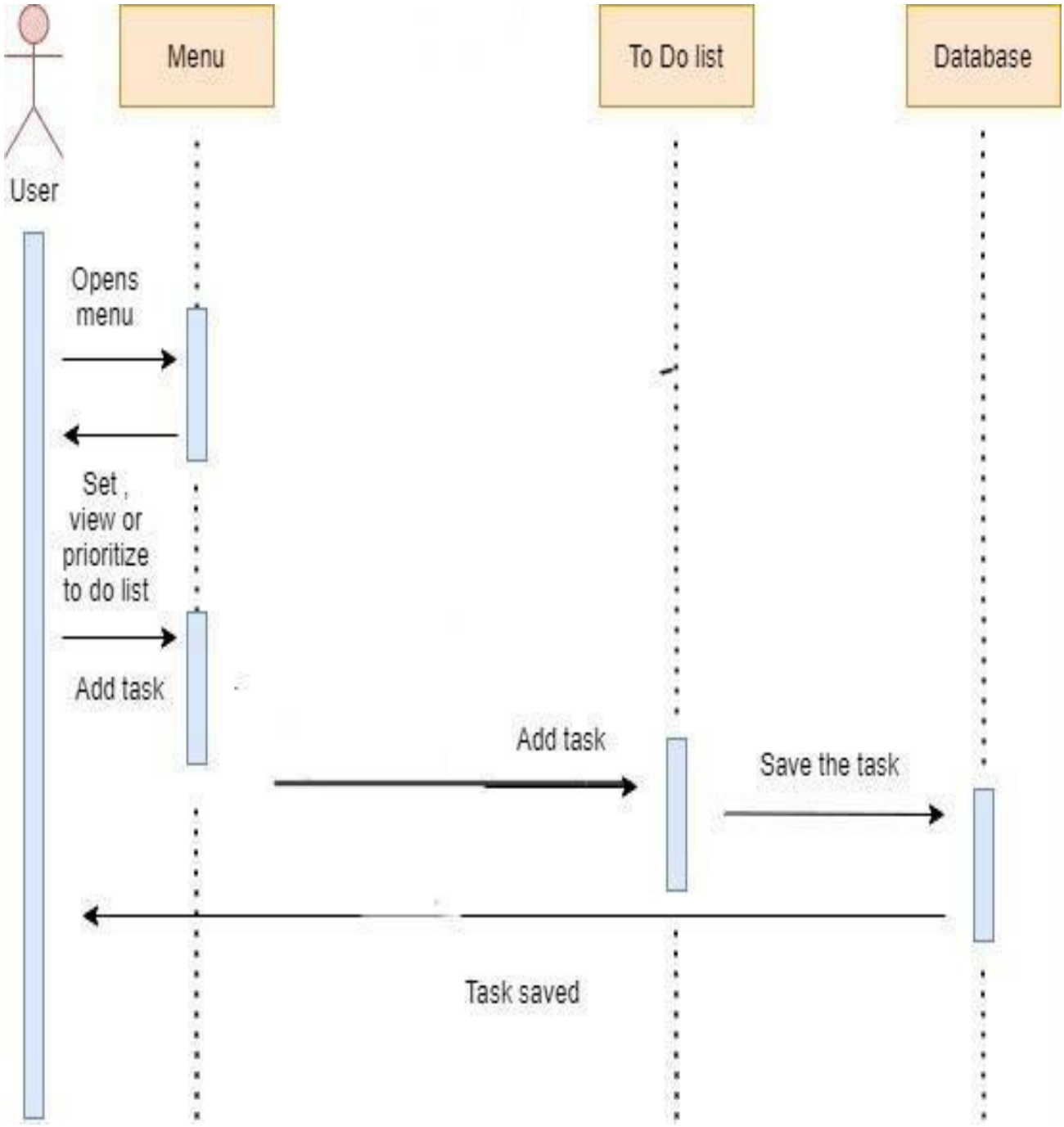


The above diagram represent that first the user enter the task and then save the tast and if the user wants to delete the task they can delete it by clicking on the delete button.The user can edit the task and all the task list created by user is save in database so that user can see the list whenever they want.

3.2 USER CASE DIAGRAM



3.3 SEQUENCE DIAGRAM



CHAPTER-4

TECHNOLOGY USED

4.1 TOOLS AND LANGUAGE

Tools used to built quiz website are:-

- **Visual Studio Code:** It is, also commonly referred to as **VS Code**, is a source-code editor made by Microsoft with the Electron Framework Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.
- **Hyper Terminal:** HyperTerminal can also allow IT to take serial-port control of external devices or systems such as scientific instruments, robots or radio communications stations. IT professionals can also use HyperTerminal to troubleshoot any issues when setting up and using a modem. IT can send commands through HyperTerminal to make sure the modem is properly connected.
- **Atom: Atom** is a free and open-source text and source code editor for macOS, Linux, and Microsoft Windows with support for plug-ins written in JavaScript, and embedded Git Control. Developed by GitHub, Atom is a desktop application built using web technologies. Most of the extending packages have free software licenses and are

community-built and maintained. It is based on the Electron framework, which was developed for that purpose, and hence was formerly called Atom Shell.[11] Electron is a framework that enables crossplatform desktop applications using Chromium and Node.js. Atom was initially written in CoffeeScript and Less, but much of it has been converted to JavaScript**.**

Languages used in building an Quiz web application are:-

- **HTML:** The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

  Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages.HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

- **CSS:** Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML).[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

- **Javascript:** JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based

objectorientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

- **MongoDB:** MongoDB a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL).MongoDB has great compatibility with Node.js and the Mongoose library provides great integration between the server and database in Node.js which makes it very convenient to access and modify the database, which is a great advantage especially for small scale projects.

CHAPTER-5

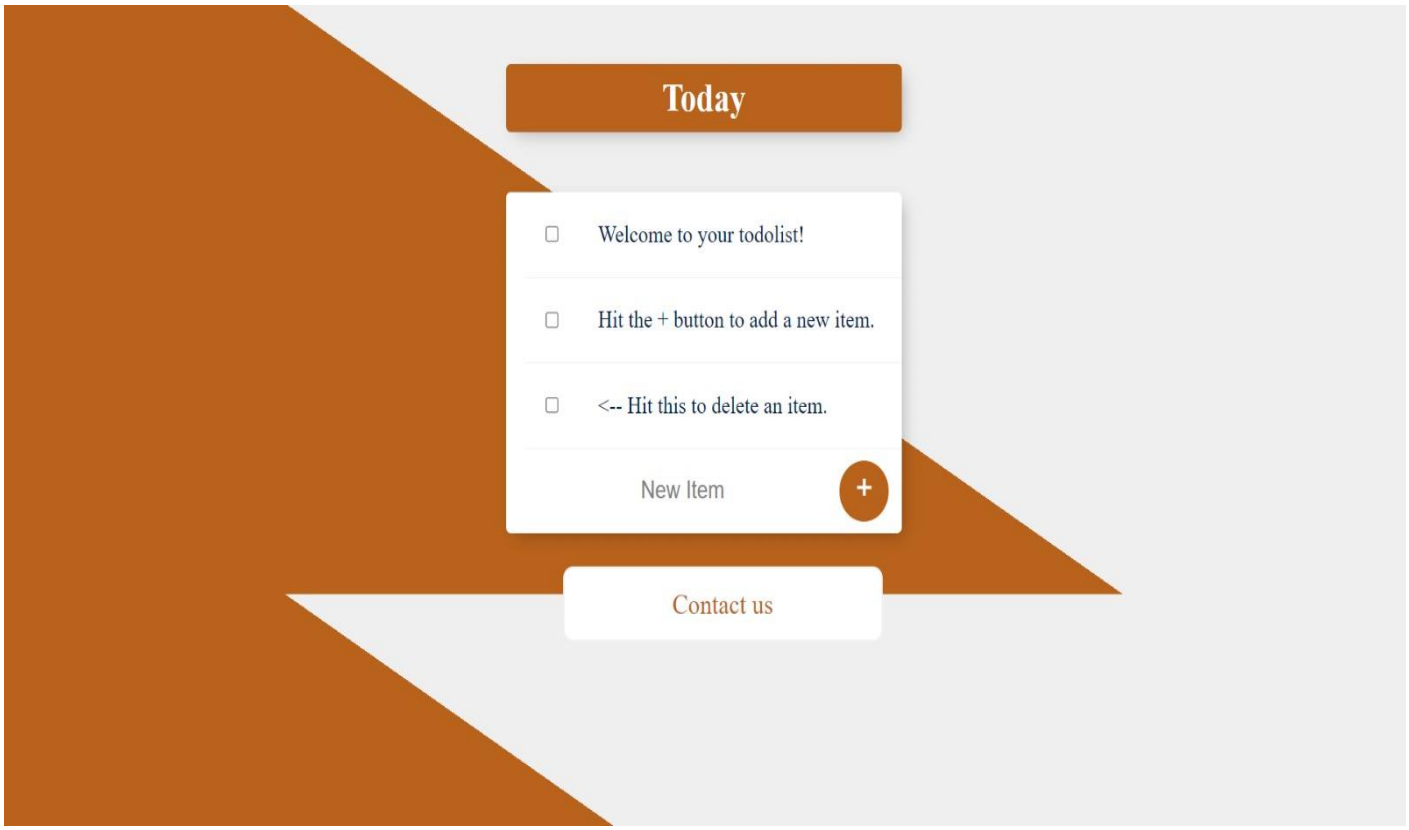
IMPLEMENTATION AND USER INTERFACE

5.1 IMPLEMENTATION OF QUIZ WEB APPLICATION

Implementation of To-Do List is taken place in various phase.Firstly we build the home page from where user can add the item to their list after clicking on checkbox hit the button to add item the item will be added to their list. And if the user want to delete the item they can delete it by clicking on checkbox hit this to delete an item. The data of the list is saved in database for database we use MongoDB. MongoDB is a source-available cross-platform document-oriented database program.

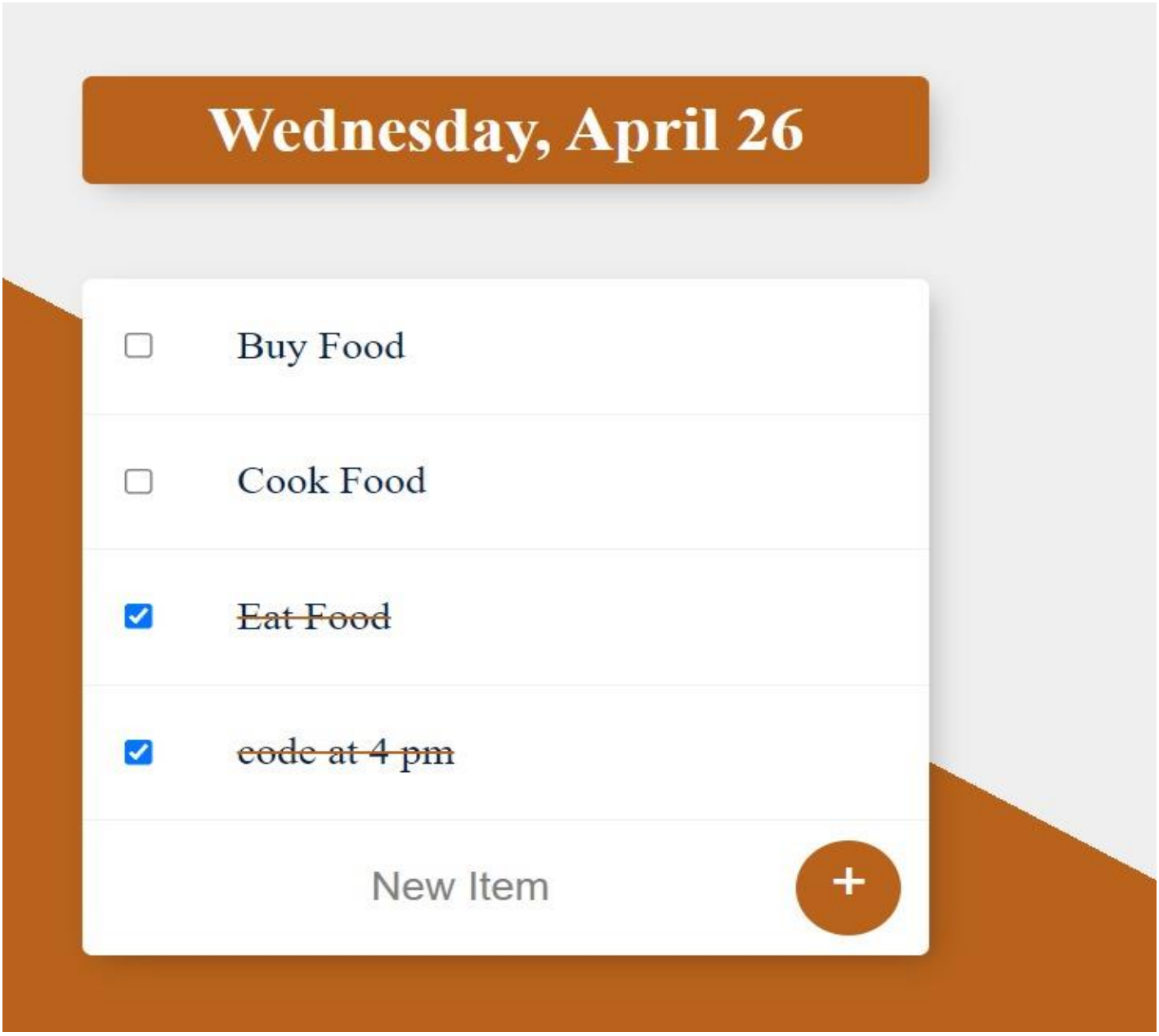
5.2 USER INTERFACE

- Home Page

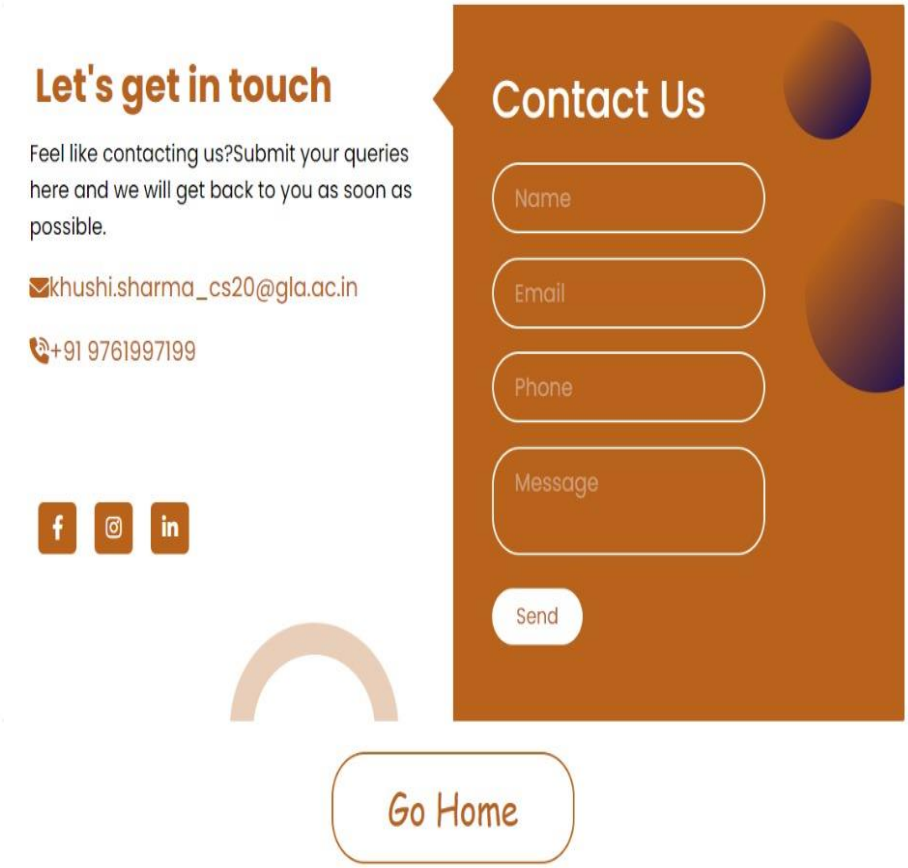


- Item added in To-Do List

- Item Deleted from the list



- Contact Us Page



CHAPTER-6

TESTING

6.1 UNIT TESTING

The term unit testing comprises the sets of tests performed by an individual programmer prior to integration of the unit into a larger system. A program unit is usually small enough that the programmer who developed it can test it in great detail, and certainly in greater detail than will be possible when the unit is integrated into an evolving software product. In the unit testing the programs are tested separately, independent of each other. Since the check is done at the program level, it is also called program teasing.

6.2 MODULE TESTING

A module and encapsulates related component. So can be tested without other system module.

6.3 SUBSYSTEM TESTING

Subsystem testing may be independently design and implemented common problems are sub-system interface mistake in this checking we concenton it. There are four categories of tests that a programmer will typically perform on a program unit.

6.4 FUNCTIONAL TEST

Functional test cases involve exercising the code with Nominal input values for which expected results are known; as well as boundary values (minimum values, maximum values and values on and just outside the functional boundaries) and special values.

6.5 PERFORMANCE TEST

Performance testing determines the amount of execution time spent in various parts of the unit, program throughput, response time, and device utilization by the program unit. A certain amount of avoid expending too much effort on fine-tuning of a program unit that contributes little to the overall performance of the entire system. Performance testing is most productive at the subsystem and system levels.

CHAPTER-7

CONCLUSION

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. To-dos are the tasks or the atomic entities that make up a to-do list. There are clear immediate implications to adding a to-do list to a person's productivity system.

REFRENCES

Books:

- Web Design With HTML,CSS,Javascript,and jQuery Set
- Learn to Code HTML & CSS by Shay Howe
- Eloquent Javascript by Marijn Haverbeke

Websites:

- www.geeksforgeeks.com
- www.google.com
- www.w3schools.com