PromLi-Time Managment(web)

Submitted in partial fulfilment of the requirements of

Bachelor of Computer Applications

By

Abhishek kumar Sharma 210742106001

Guide(s):
Name of the Faculty Project Guide
Dharmandra Sir

Radha Govind College of Education
affiliated by CCSU
Greater Noida
February 2024

CERTIFICATE

This is to certify that the project entitled "**PromLi-Time Managment(web)**" is a bonafide work of Abhishek Kumar Sharma (210742106001) submitted to **Radha Govind Collage of Education** Greater Noida in partial fulfilment of the requirement for the award of the Bachelor of Computer Applications.

Faculty Guide:

Dharmandra Sir

<u>DECLARATION</u>

I declare that this written submission represents our ideas in our 0'.vn words and where others' ideas or words have been included, we have adequately cited and referenced the original sources- We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/dataifact/source in my submission_ We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Abhsihek kumar Sharma(210742106001)

Date:

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1. INTRODUCTION

1.1 Description
PromLi - Time Management is a web-based project aimed at helping users manage their time effectively using the Pomodoro Technique. This technique involves breaking work into intervals, traditionally 25 minutes in length, separated by short breaks. The project provides a user-friendly interface for setting timers, managing tasks, and tracking progress.

1.2 Problem Formulation
In today's fast-paced world, individuals often struggle to maintain focus and productivity amidst numerous distractions. The lack of effective time management tools can lead to procrastination and decreased productivity. PromLi addresses this issue by offering a structured approach to time management through the Pomodoro Technique.

1.3 Motivation
The motivation behind the PromLi project stems from the desire to improve productivity and time management skills among users. By implementing a user-friendly web application based on the proven Pomodoro Technique, the project aims to empower individuals to enhance their focus and productivity levels.

1.4 Scope of the project
The scope of the PromLi project encompasses the development of a web-based platform that allows users to:
- Set customizable timers based on the Pomodoro Technique
- Add and manage tasks with associated Pomodoro counts
- Track progress and completion of tasks
- Access the application from various devices with internet connectivity

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2 REQUIREMENT ANALYSIS

2.1 Functional Requirements
The functional requirements of PromLi include:
- User registration and login system
- Timer functionality with customizable intervals
- Task management features, including adding, editing, and deleting tasks

- Progress tracking and reporting capabilities

2.2 Software Requirement Specification (SRS)

PromLi requires the following hardware and software components:
- Hardware: Personal computer, laptop, or mobile device with internet connectivity
- Software: Web browser (Chrome, Firefox, Safari, etc.), Server-side scripting language (such as PHP), Database management system (MySQL, PostgreSQL, etc.)
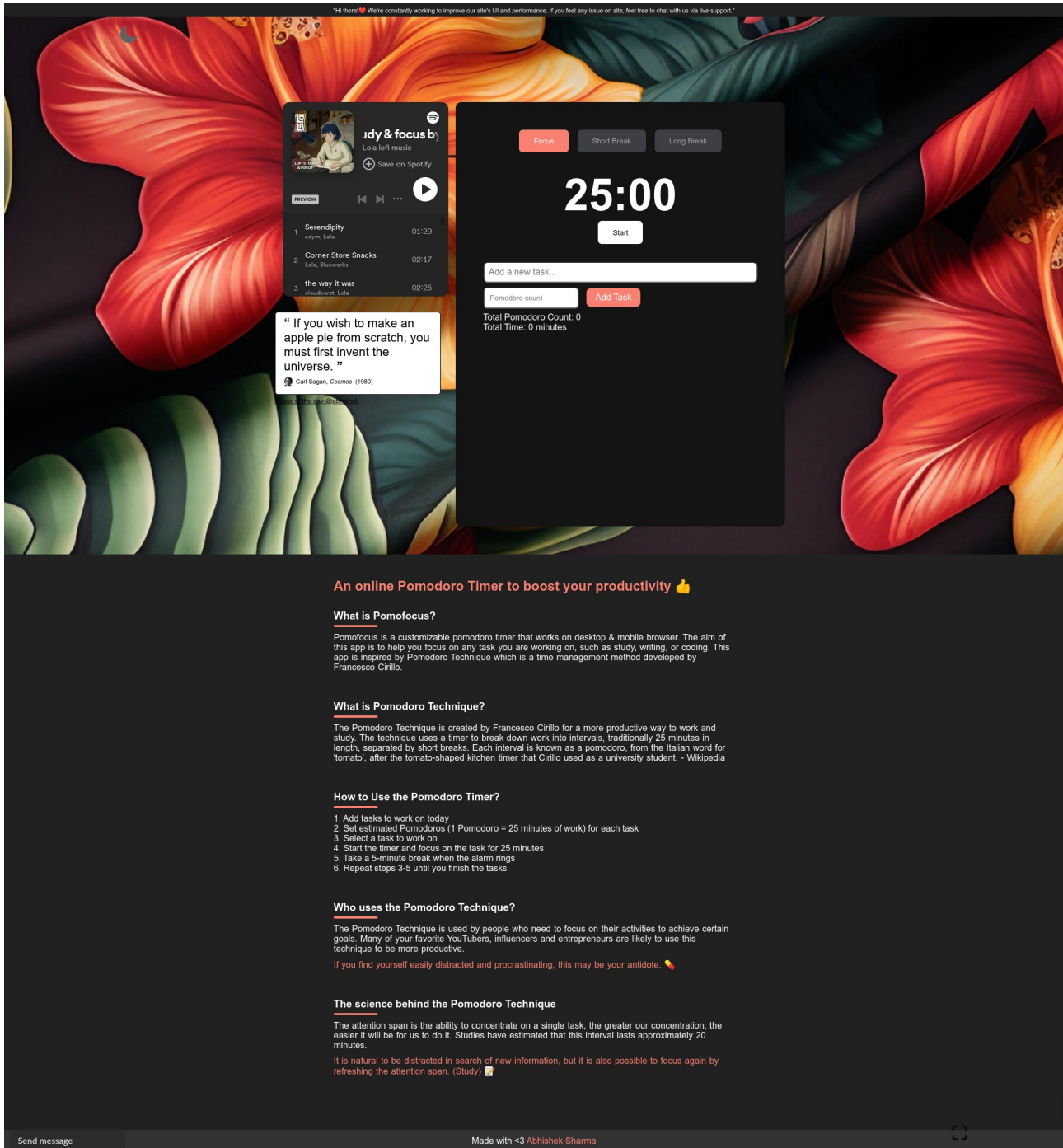
---
3. DESIGN

3.1 Architectural Design

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The architectural design of PromLi follows a client-server model. The client-side interface is developed using HTML, CSS, and JavaScript, while the server-side logic is implemented using a server-side scripting language like PHP. The application interacts with a database management system (DBMS) to store user data and task information.

3.2 User Interface Design

The user interface of PromLi is designed to be intuitive and easy to navigate. It features a clean layout with separate sections for setting timers, managing tasks, and viewing progress. The interface incorporates responsive design principles to ensure compatibility across various devices and screen sizes.

-**Full Screen**

idy & focus by

Lola lofi music

⊕ Save on Spotify

PREVIEW

	Serendipity	01:29
1	adym, Lola	
	Corner Store Snacks	02:17
2	Lola, Bluewerks	
	the way it was	02:25
3	cloudburst, Lola	

" If you wish to make an apple pie from scratch, you must first invent the universe. "

Carl Sagan, *Cosmos* (1980)

Focus   Short Break   Long Break

25:00

Start

Add a new task...

Pomodoro count   Add Task

Total Pomodoro Count: 0
Total Time: 0 minutes

An online Pomodoro Timer to boost your productivity 👍

What is Pomofocus?

Pomofocus is a customizable pomodoro timer that works on desktop & mobile browser. The aim of this app is to help you focus on any task you are working on, such as study, writing, or coding. This app is inspired by Pomodoro Technique which is a time management method developed by Francesco Cirillo.

What is Pomodoro Technique?

The Pomodoro Technique is created by Francesco Cirillo for a more productive way to work and study. The technique uses a timer to break down work into intervals, traditionally 25 minutes in length, separated by short breaks. Each interval is known as a pomodoro, from the Italian word for 'tomato', after the tomato-shaped kitchen timer that Cirillo used as a university student. - Wikipedia

How to Use the Pomodoro Timer?

1. Add tasks to work on today
2. Set estimated Pomodoros (1 Pomodoro = 25 minutes of work) for each task
3. Select a task to work on
4. Start the timer and focus on the task for 25 minutes
5. Take a 5-minute break when the alarm rings
6. Repeat steps 3-5 until you finish the tasks

Who uses the Pomodoro Technique?

The Pomodoro Technique is used by people who need to focus on their activities to achieve certain goals. Many of your favorite YouTubers, influencers and entrepreneurs are likely to use this technique to be more productive.

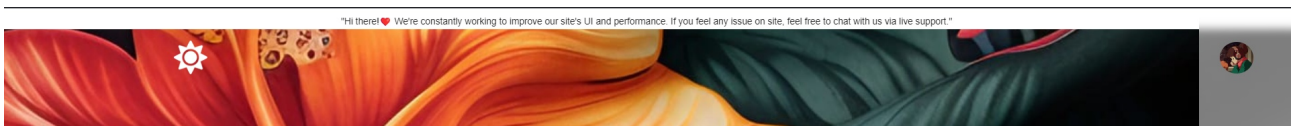If you find yourself easily distracted and procrastinating, this may be your antidote. 🍅

The science behind the Pomodoro Technique

The attention span is the ability to concentrate on a single task, the greater our concentration, the easier it will be for us to do it. Studies have estimated that this interval lasts approximately 20 minutes.

It is natural to be distracted in search of new information, but it is also possible to focus again by refreshing the attention span. (Study) 📝

Send message   Made with <3 Abhishek Sharma

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-Light/Dark Mode Toggle

⚙️

An online Pomodoro Timer to boost your productivity 👍

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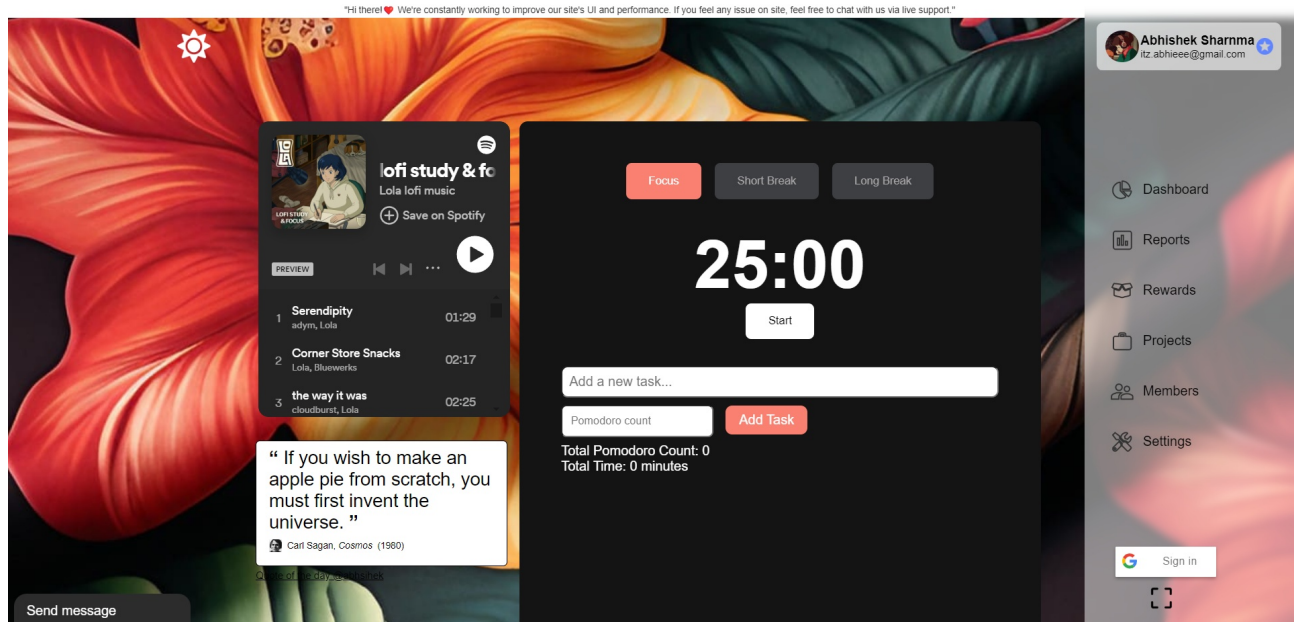
Send message

-Navbar

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4.

IMPLEMENTATION

4.1 Implementation Details

The implementation of PromLi involves coding the frontend and backend components of the web application. Frontend development includes creating HTML templates, styling with CSS, and adding interactivity with JavaScript. Backend development involves setting up a server, implementing server-side logic for user authentication, task management, and integrating with a database for data storage.

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5. TESTING

5.1 Test cases
Test cases for PromLi cover various scenarios, including:
- User registration and login
- Timer functionality testing (start, pause, reset)
- Task management operations (add, edit, delete)
- Data validation and error handling

5.2 Type of Testing used
PromLi undergoes both manual and automated testing. Manual testing involves testing the application's functionality and usability manually by human testers. Automated testing involves using tools and scripts to automate the testing process, including unit tests for backend logic and UI tests for frontend components.

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6. CONCLUSIONS & FUTURE SCOPE
In conclusion, PromLi - Time Management is a comprehensive web-based solution for effective time management using the Pomodoro Technique. By providing users with tools to manage their time efficiently, the project aims to improve productivity and reduce procrastination.

Future Scope
- Integration with third-party calendar applications for task synchronization
- Implementation of user feedback mechanisms for continuous improvement
- Enhancements to the user interface for a more intuitive experience
- Mobile application development for on-the-go time management

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7. USER MANUAL

7.1 Getting Started
To begin using PromLi - Time Management, follow these simple steps:

1. Registration/Login: If you're a new user, click on the "Sign Up" button to create an account. Existing users can directly log in using their credentials.

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2. Dashboard Overview: Once logged in, you'll be directed to the dashboard. Here, you can see the timer interface, task list, and progress tracker.

3. Setting Timers: Use the timer section to set customizable intervals based on the Pomodoro Technique. Click on the "Start" button to begin a timer.

4. Managing Tasks: Navigate to the task management section to add, edit, or delete tasks. Each task can be associated with a specific number of Pomodoro sessions.

5. Tracking Progress: Monitor your progress by checking off completed tasks and observing the overall Pomodoro count.

7.2 Troubleshooting
If you encounter any issues while using PromLi, refer to the following troubleshooting tips:

- **Login Problems:** Double-check your username and password for typos. If you've forgotten your password, use the "Forgot Password" option to reset it.

- **Timer Malfunction:** If the timer is not functioning correctly, ensure that your internet connection is stable and try refreshing the page. If the issue persists, contact support for assistance.

- **Task Management Errors:** If you're experiencing errors while managing tasks, ensure that you're following the correct steps and that all required fields are filled out properly.

7.3 Frequently Asked Questions (FAQs)
Here are answers to some common questions about PromLi:

- **Q: Can I use PromLi on my mobile device?**
  A: Yes, PromLi is designed to be responsive and compatible with various devices, including smartphones and tablets.

- **Q: Is my data secure on PromLi?**
  A: Yes, we take data security seriously. PromLi employs encryption and other security measures to protect user information.

- **Q: Can I customize the Pomodoro intervals?**
  A: Absolutely! PromLi allows users to set custom timer intervals based on their preferences and needs.

7.4 Contact Information
If you need further assistance or have any questions, feel free to reach out to our support team:

- Email: support@promli.com
- Phone: 1-800-PROMLI (1-800-776-654)

8. MAINTENANCE AND UPDATES

8.1 Regular Maintenance
To ensure optimal performance and user satisfaction, it's essential to conduct regular maintenance tasks on PromLi - Time Management. Here are some recommended maintenance activities:
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- **Database Maintenance:** Regularly clean up and optimize the database to improve efficiency and reduce the risk of data corruption.

- **Bug Fixes:** Address any reported bugs or issues promptly to maintain a smooth user experience.

- **Security Updates:** Stay vigilant against potential security threats by implementing regular updates and patches to address vulnerabilities.

- **Performance Optimization:** Continuously monitor and optimize system performance to enhance responsiveness and speed.

8.2 Version Updates
As part of our commitment to delivering the best user experience, we periodically release updates for PromLi - Time Management. These updates may include:

- **Feature Enhancements:** Introduce new features and functionalities based on user feedback and industry trends.

- **Bug Fixes:** Address any identified bugs or issues to improve overall stability and reliability.

- **Security Patches:** Implement security patches to safeguard user data and protect against emerging threats.

- **Performance Improvements:** Optimize system performance to deliver a smoother and more efficient user experience.

8.3 Update Process
When a new version of PromLi becomes available, users will be notified within the application or via email. To update the application:

1. Notification: Keep an eye out for notifications indicating an available update.

2. Update Prompt: Click on the update prompt or follow the provided instructions to initiate the update process.

3. Installation: Follow the on-screen prompts to download and install the latest version of PromLi.

4. Restart (if necessary): In some cases, you may need to restart the application or your device to complete the update process.

8.4 Feedback and Suggestions
We value feedback from our users and encourage you to share your thoughts, suggestions, and feature requests with us. Your input helps us improve PromLi and tailor it to better meet your needs.

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9. REFERENCES

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Throughout the development of PromLi - Time Management, various resources, tools, and frameworks have been utilized. The following references acknowledge the contributions of these sources to the project:

1. W3Schools: Valuable resource for learning web development technologies such as HTML, CSS, JavaScript, and more. [Link](https://www.w3schools.com/)

2. MDN Web Docs: Comprehensive documentation on web standards and technologies, including HTML, CSS, and JavaScript. [Link](https://developer.mozilla.org/)

3. Bootstrap Documentation: Official documentation for the Bootstrap framework, which was used for creating responsive and mobile-first web pages.
[Link](https://getbootstrap.com/docs/5.1/getting-started/introduction/)

4. Google Fonts: A vast collection of free and open-source fonts used to enhance the typography of the web application. [Link](https://fonts.google.com/)

5. Unsplash: Source of high-quality, royalty-free images used for enhancing the visual appeal of the website. [Link](https://unsplash.com/)

6. jQuery: JavaScript library utilized for simplifying DOM manipulation and event handling. [Link](https://jquery.com/)

7. GitHub: Version control platform used for managing the project's source code, tracking changes, and collaboration. [Link](https://github.com/)

8. OpenAI GPT-3.5: Language model used for generating content, providing assistance, and enhancing project documentation. [Link](https://openai.com/gpt-3/)

9. Google Sign-In API: Integration used to enable seamless authentication and user management within the web application. [Link](https://developers.google.com/identity/sign-in/web/sign-in)

10. Google Cloud Platform: Hosting platform used for deploying and running the web application in a scalable and reliable manner. [Link](https://cloud.google.com/)

11. YouTube API: Integration enabling the embedding of YouTube videos for motivational purposes within the application. [Link](https://developers.google.com/youtube)

12. FontAwesome: Icon toolkit providing a wide range of scalable vector icons used for enhancing the user interface. [Link](https://fontawesome.com/)

These references have been instrumental in the development and enhancement of PromLi - Time Management, contributing to its functionality, aesthetics, and overall user experience.

This section acknowledges the various resources, tools, and frameworks utilized during the development of PromLi - Time Management. It provides links to these resources for further exploration and reference.

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10. ACKNOWLEDGMENTS

The successful completion of PromLi - Time Management would not have been possible without the support, guidance, and contributions of several individuals and organizations. We express our sincere gratitude to all those who have been instrumental in making this project a reality.

Academic Institution: We extend our appreciation to our academic institution for providing us with the necessary resources, infrastructure, and encouragement to undertake this project. Their support has been invaluable throughout the journey.

Faculty Advisor: We would like to thank our faculty advisor for their guidance, mentorship, and valuable insights throughout the development process. Their expertise and feedback have been instrumental in shaping the direction of the project.

Peers and Collaborators: We are grateful to our peers and collaborators who have provided assistance, feedback, and encouragement at various stages of the project. Their collaboration has enriched the project and contributed to its success.

Open Source Community: We acknowledge the contributions of the open-source community, whose libraries, frameworks, and tools have been instrumental in the development of PromLi - Time Management. Their collective efforts have enabled us to leverage existing solutions and accelerate the development process.

Family and Friends: Finally, we express our heartfelt gratitude to our family and friends for their unwavering support, understanding, and encouragement throughout the project. Their patience, encouragement, and belief in our abilities have been a constant source of motivation.

This section acknowledges the support, guidance, and contributions of various individuals and organizations who have played a significant role in the development and completion of PromLi - Time Management.

Certainly! Here are some key features of the PromLi - Time Management website along with their corresponding code snippets:

1. **Focus Timer**
   - **Description:** This feature allows users to set a timer for focused work sessions.
   - **Code Snippet:**
   ```javascript
   let focusButton = document.getElementById("focus");
   let startBtn = document.getElementById("btn-start");
   let pause = document.getElementById("btn-pause");
   let reset = document.getElementById("btn-reset");
   let time = document.getElementById("time");
   let set;
   let count = 59;
   let paused = true;
   let minCount = 24;
   ```

```javascript
   startBtn.addEventListener("click", () => {
     reset.classList.add("show");
     pause.classList.add("show");
     startBtn.classList.add("hide");
     startBtn.classList.remove("show");
     if (paused) {
       paused = false;
       time.textContent = `${appendZero(minCount)}:${appendZero(count)}`;
```

```javascript
  set = setInterval(() => {
    count--;
    time.textContent = `${appendZero(minCount)}:${appendZero(count)}`;
    if (count == 0) {
      if (minCount != 0) {
        minCount--;
        count = 60;
      } else {
        clearInterval(set);
      }
    }
  }, 1000);
 }
});
```

2. **Task Management**
   - **Description:** Users can add tasks and track their Pomodoro counts.
   - **Code Snippet:**
   ```javascript
   let taskInput = document.getElementById("taskInput");
   let pomodoroInput = document.getElementById("pomodoroInput");
   let addTaskBtn = document.getElementById("addTaskBtn");
   let taskList = document.getElementById("taskList");

   // Function to add a new task to the list
   const addTask = () => {
     let taskText = taskInput.value.trim();
     let pomodoroCount = parseInt(pomodoroInput.value) || 1; // Default to 1 if not provided

     if (taskText !== "" && pomodoroCount > 0) {
       let li = document.createElement("li");
       // Create checkbox and span elements for task
       // Append them to the list item
       taskList.appendChild(li);
       taskInput.value = "";
       pomodoroInput.value = ""; // Clear input after adding task
     } else {
       alert("Please enter a valid task and Pomodoro count!");
     }
   };
```

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```javascript
   // Event listener for the "Add Task" button
   addTaskBtn.addEventListener("click", addTask);
```

3. **Dark Theme Toggle**
   - **Description:** Users can toggle between light and dark themes.
   - **Code Snippet:**
   ```javascript
```

```
let icon = document.getElementById("icon");

icon.onclick = function () {
  document.body.classList.toggle("dark-theme");
  if (document.body.classList.contains("dark-theme")) {
    icon.src = "images/sun.png";
  } else {
    icon.src = "images/moon.png"
  }
};
```

These are just a few examples of features and their corresponding code snippets in the PromLi - Time Management website. There are additional features and functionalities implemented throughout the website to enhance the user experience and productivity.

Sure, here are more features along with their code snippets:

4. **Google Sign-In Integration**
   - **Description:** Allows users to sign in using their Google accounts.
   - **Code Snippet:**
   ```javascript
   function onSignIn(googleUser) {
     // get user profile information
     console.log(googleUser.getBasicProfile().getName());
   }

   function signOut() {
     gapi.auth2.getAuthInstance().signOut().then(function() {
       console.log('user signed out')
     })
   }
   ```

5. **Fullscreen Mode**
   - **Description:** Enables users to toggle fullscreen mode for better focus.
   - **Code Snippet:**
   ```javascript
   const fullscreenImg = document.getElementById("fullscreen-img");
```

```
   // Function to toggle fullscreen mode
   const toggleFullScreen = () => {
     if (!document.fullscreenElement) {
       document.documentElement.requestFullscreen();
     } else {
       if (document.exitFullscreen) {
         document.exitFullscreen();
       }
     }
```

```
  };

  fullscreenImg.addEventListener("click", toggleFullScreen);
```

6. **Sound Notifications**
   - **Description:** Plays a sound notification for important events.
   - **Code Snippet:**
   ```javascript
   // Function to play sound
   function playSound(soundFile) {
     let audio = new Audio(soundFile);
     audio.play();
   }

   // Bind functions to button clicks
   document.getElementById("focus").onclick = function() {
     playSound('Sound/sound-11.mp3');
   };

   document.getElementById("shortbreak").onclick = function() {
     playSound('Sound/sound-11.mp3');
   };

   document.getElementById("longbreak").onclick = function() {
     playSound('Sound/sound-11.mp3');
   };
   ```

These are additional features of the PromLi - Time Management website along with their corresponding code snippets. Each feature enhances the functionality and user experience of the website, contributing to its effectiveness as a time management tool.

Sure, here are more features along with their code snippets:

7. **Loader Animation**
   - **Description:** Displays a loader animation while the website is loading.
   - **Code Snippet:**
   ```html
   <div class="loader-wrapper">
     <div class="loader">
```

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```html
       <div class="loader-inner"></div>
     </div>
   </div>
   ```

8. **Dynamic Theme Switching**
   - **Description:** Allows users to switch between light and dark themes.
   - **Code Snippet:**
   ```javascript
```

```javascript
    let icon = document.getElementById("icon");

  icon.onclick = function () {
    document.body.classList.toggle("dark-theme");
    if (document.body.classList.contains("dark-theme")) {
     icon.src = "images/sun.png";
    } else {
     icon.src = "images/moon.png"
    }
  }
```

9. **Smooth Scrolling**
   - **Description:** Enables smooth scrolling behavior within the website.
   - **Code Snippet:**
   ```css
   html {
     scroll-behavior: smooth;
   }
   ```

10. **Sidebar Visibility Control**
    - **Description:** Automatically hides the sidebar on scroll for better visibility of content.
    - **Code Snippet:**
    ```javascript
    window.addEventListener("scroll", () => {
     const currentScroll = window.pageYOffset || document.documentElement.scrollTop;
     const scrollDirection = currentScroll > lastScrollTop ? "down" : "up";

     // Hide/show fullscreen icon based on scroll direction
     if (scrollDirection === "down") {
       fullscreenImg.classList.add("hidden");
     } else {
       fullscreenImg.classList.remove("hidden");
     }

     // Hide/show sidebar based on scroll position relative to the details section
     const detailsSectionRect = detailsSection.getBoundingClientRect();
     if (detailsSectionRect.top <= window.innerHeight && detailsSectionRect.bottom >= 0) {
       sideNav.classList.add("hidden");
     } else {
```

```javascript
       sideNav.classList.remove("hidden");
     }

     lastScrollTop = currentScroll;
    });
    ```

These features enhance the functionality, aesthetics, and user experience of the PromLi - Time Management website, making it more interactive and user-friendly.

Conclusion

The "PromLi - Time Management" web project aims to provide users with a comprehensive tool for managing their time effectively. Through the development process, several key insights were gained, and future possibilities for enhancement were identified.

Throughout the project development, it became clear that time management is a crucial aspect of productivity and personal development. By providing users with a digital platform to organize their tasks and allocate time efficiently, PromLi strives to empower individuals to achieve their goals more effectively.

One of the key takeaways from this project is the importance of user feedback and iterative development. By gathering feedback from users and stakeholders during various stages of development, we were able to refine features, improve usability, and address issues effectively. This iterative approach ensures that the final product meets the needs and expectations of its users.

Looking ahead, there are several opportunities for further enhancement and expansion of the PromLi platform. Some potential areas for future development include:

1. **Integration with External Tools:** Explore integration with popular productivity tools such as calendars, to-do lists, and project management platforms to provide users with a seamless experience across different platforms.

2. **Advanced Analytics**: Implement advanced analytics features to provide users with insights into their time management habits, productivity trends, and areas for improvement.

3. **Collaboration Features**: Introduce collaboration features that allow users to work together on tasks and projects, enabling teams to coordinate more effectively and achieve shared goals.
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4. **Mobile Application**: Develop a mobile application version of PromLi to provide users with access to time management tools on the go, ensuring productivity even when away from their desktop or laptop.

5. **Accessibility Enhancements**: Continuously improve accessibility features to ensure that PromLi is inclusive and accessible to users with disabilities, providing a seamless experience for all users.

In summary, the PromLi - Time Management web project has been a valuable learning experience, demonstrating the importance of effective time management and iterative development. By continuing to listen to user feedback, innovate, and explore new possibilities, PromLi has the potential to become a valuable tool for individuals and teams seeking to optimize their productivity and achieve their goals.