The Task Titans

TaskBuddy

Christina Casey
Computer Science
Virginia Tech
Blacksburg VA UAS
christinacasey@vt.edu

Katelyn Crumpacker Computer Science Virginia Tech Blacksburg VA UAS katelync22@vt.edu

Emily Knoll Computer Science Virginia Tech Blacksburg VA UAS emilyk77@vt.edu

Matt Lorenzo Computer Science Virginia Tech Blacksburg VA UAS mlorenzo7@vt.edu Brooke Ritter Computer Science Virginia Tech Blacksburg VA UAS britter2@vt.edu

ABSTRACT

In today's world, many individuals struggle with efficiently managing their tasks and responsibilities. With so many tasks to be completed, people can easily become overwhelmed and forget about certain tasks, leading to missed deadlines, decreased productivity, and increased stress levels. Traditionally, individuals will write their tasks on a "To-Do List" that they follow and check off as they complete tasks. However, there is an increased risk of losing a paper list, losing track of deadlines, and forgetting to work on a task. Thus, there is an increased need for a user-friendly task management application that assists users in increasing their productivity. TaskBuddy is an application that can provide users an organized platform to input tasks and stay organized, as well as receive reminders for deadlines and easily "check off" completed tasks. **finish**

INTRODUCTION

In the fast-paced landscape of modern life, the art of task management has become a critical skill for personal and professional success. However, amidst the endless responsibilities, deadlines, and commitments, individuals often find themselves overwhelmed, struggling to prioritize tasks effectively and maintain productivity, especially students. Recognizing this everyday challenge, the need for a comprehensive solution arises, the TaskBuddy app.

TaskBuddy is not just another productivity tool. It is a personalized, intuitive companion designed to streamline the management of your to-do list and increase your efficiency. The motivation for creating Task Buddy stems from several key factors including increasing complexity to daily tasks, increasing importance of time management, and decreasing accountability

and motivation. The demands placed upon individuals today make it difficult to juggle what needs to be done. It is crucial to have a centralized place to monitor tasks for school, work, sports, extra curriculars, and life's daily tasks. Time management is a very important part of staying on top of your tasks. It becomes hard to manage your time when many of your tasks can be completed at your desk or in the comfort of your own home. TaskBuddy will help organize and manage your tasks, so you don't fall behind. Finally, it has become harder than ever to hold yourself accountable and feel motivated to check off items on your to-do list. With the TaskBuddy app, you will be able to hold yourself accountable for the items you need to complete on time and without stress.

RELATED WORK

Todoist

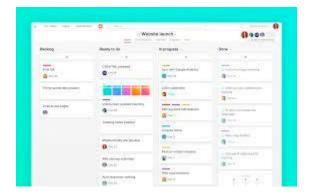
Todoist is a competitor task completion app. It has offline availability, functionality for collaboration between different users, and syncing across devices and platforms. Some basic features are creating tasks, setting priority levels, organizing tasks into different groups, and assigning due dates. Todoist offers multiple different tiers which are Free, Pro, and Business. The free tier allows the creation, organization, and prioritization of tasks. It allows the user to share projects with up to 5 people. It, however, hinders the number of projects available to the user, and has less flexibility. It also does not allow much integration with other services. The Pro tier adds functionality for filtering and labeling tasks, adding reminders, allows more projects to be shared, allows integration with other services, and allows for more templates and themes to allow the users to be able to customize

their tasks further. Most importantly, the user can have more active tasks and projects. The Business tier allows unlimited sharing, centralized billing, role assignment with specific permissions, progress tracking, and even higher availability for many tasks. The free tier is free, the pro tier is 5 dollars a month or 48 dollars per year, and the business tier is 8 dollars a month or 96 dollars per year.



Asana

Asana is another competitor task completion app. Asana is designed with teams in mind to help track the progression of their work. A main feature of the tool is that they allow users to customize workflows for their projects and tasks. The tool allows teams to create tasks, set deadlines, assign tasks to different team members. Another great feature that Asana offers is their visualization feature which allows users to visualize the progress of their projects. Teams can view this in calendars, boards, timelines, and lists. Asana also has different tiers that they offer. Their lowest tier is called basic which is their free tier. Basic is targeted at individuals and small teams that have smaller projects and are just starting out. The limitations for the free tier are that the team can only have 15 members and has very limited integration with other services. The next highest tier is premium. Premium allows the team to visualize the tasks and projects. It also allows for more details and custom reports when adding tasks. The team can create unlimited custom dashboards. This plan is around \$10.99 monthly. The next highest tier is Business. Business allows for the team to monitor multiple projects at a time in one view. It also allows the team to automate tasks and integrate with outside services such as Salesforce and Adobe Creative Cloud. This price starts around \$24.99. The next highest tier is Enterprise. This allows the use of SSO. It also allows for personalization of the tool, and much higher security. At this tier, the team gets the highest level of support with a dedicated support manager for the team from the service. The pricing for this requires a quote and is custom.



ADAPTIVE SOFTWARE DEVELOPMENT

Adaptive Software Development (ASD) is an agile software engineering process that focuses on collaboration and team organization. This agile method emphasizes speculation, collaboration, and learning within the team. The team will begin with an adaptive cycle planning including their mission statement, project constraints, and basic requirements. Next, the requirements will be gathered in depth. Then, the team will implement and test various components of the project while focusing on group feedback. Lastly, with each software increment there will be a soft release of the program.

This method will enable the team to focus on group feedback and continuous learning. In addition, it enables all the constraints and requirements to be discussed in the beginning, as well as change as iterations of the project occur. Lastly, for the course, it may be required for versions of the project to be released prior to completion. Thus, the Adaptive Software Development Process will enable the release of iterations of the project prior to full completion. Therefore, we believe that the Adaptive Software Development process is the most beneficial software engineering process for our team to implement.

REFERENCES

- [1] Asana, "ASANA project management software. teams don't lose track of work with asana. asana," Asana, https://asana.com/campaign/fac/do?&utm_campaign=Bra nd--NAMER--US--EN-
 Core&utm_source=google&utm_medium=pd_cpc_br&ga
 d_source=1&gclid=CjwKCAiA8sauBhB3EiwAruTRJg6v
 2ETqqoN4ZNPx6BczO_ak8NwioYpQkxQnLQiEjP2hgeFe71t-BoCc30QAvD_BwE&gclsrc=aw.ds
 (accessed Feb. 18, 2024).
- [2] "A to-do list to organize your work & life," Todoist, https://todoist.com/ (accessed Feb. 18, 2024).