

1. Introduction

Our project is a Personal Management App, a mobile app designed to help kids and their families manage time and tasks in a fun and engaging way. The app combines a to-do list with a pet simulator, making it easier for kids to stay organized while having fun. Parents can assign tasks, and kids earn rewards like pet customization and themes by completing them. The app includes features like a calendar, task reminders, and parental controls to ensure it's safe and easy to use. We aim to teach kids responsibility and time management through a game-like experience, helping them build good habits early on.

2. Team Formation

Our team, Full Stack Force, include six driven individuals, each bringing in their expertise to the development of the To-Do list app. Members in the team include Calvin Chau, Christ Nguyen, Khanh Hoang, Nalysee Nakazato, Natali Soto Ferreira, and Tasos Lilis. Tasos Lilis, our team leader and project manager, specializes in C++, Python, C#, SQL, and MongoDB. He will see that all milestones are met by overseeing the project's development and coordinating our team. Nalysee Nakazato's position is full stack developer with focus on backend. Her experience includes Python, Information systems, HTML, and Java. Her role entails designing and implementing the server-side logic and app interface as well as handling security aspects to guarantee a smooth and efficient user experience. Next, Calvin Chau's role as a UI/UX developer, has experience with C++ and Python primarily, which should help him to work on learning React Native to work on the design of the UI. Christ Nguyen is our Frontend developer with background experience of Python, C#, SQL, and MongoDB. His role includes designing and implementing intuitive user interfaces, and integrating the frontend with the backend. Our next Frontend developer is Natali Soto Ferreira, with experience in python, c++, CSS, and

HTML. She will ensure that the application's visual components are both user-oriented and functional. Finally Khanh Hoang is our backend developer with experience in C++ and Python. Her role in this team includes helping write the code for the application.

Our team was formed at random without any prior collaborations. Our vision statement is to develop an app that can convenience users' lives by keeping track of their tasks, obligations, and goals while keeping them accountable. Some challenges we expect to face are learning new programming languages like React Native and Node.js. As well as working with a system that works over the internet. We plan to combat these issues by actively learning new skills and working together.

3. Software Theme

This product will be a cross platform mobile app with the frontend being written in react native, while the backend will be written in node.js. This app will serve as a time management app with a built in pet simulator to facilitate continued use. This app will be free with in game advertisements, with a subscription service to make the app become ad free. There will be a calendar and notes portion of the app to facilitate easier time management with a tab for the pet simulator portion of the app. The pet's health and status will rely on the user using the app, completing tasks and goals set, with app themes and pet looks being unlocked over time. Parents will have the ability to also create a profile with the ability to send their child's account special tasks that will give the child's pet a special title or cosmetic. The app should also have built in notifications to remind of when a task is coming up, with options to set the reminders based on the preference of the user. There will also be a parental control portion of the app to ensure that parents are comfortable with what kind of content will be accessible to their child through the app.

The primary users of this app will be children of middle school age along with their parents. Since the primary user of the app will be children and potentially tech illiterate parents, the app should be simple to use with a focus on easy to understand layouts. The pet simulator portion of the app should be short to ensure that the focus of the app will be helping children learn time management in an engaging way without being a large time commitment to help encourage frequent use. The UI and overall look of the app should have the option of being more stylized or a more simple design to accommodate how different users wish to personalize the app. The app should also give multiple forms of feedback to users to help users get into the app easier, with interesting visuals, animation and sound to help keep kids motivated.

4. Entrepreneurial Context

The To-Do list apps market size has been valued at approximately 1.31 billion dollars in the United States, according to Business Research Insights. It has been projected to grow to 3.06 billion dollars by 2033, with an annual growth rate of 9.5% from 2025 to 2033. The reason for the projected, tremendous growth has to do with people relying on specific tools to aid with productivity and overall lifestyle. The marketplace for To-Do lists is fueled by factors such as remote work, mobile accessibility, and AI- driven enhancements. Some key competitors include Notion, Todoist, and Microsoft To Do, just to name a few. The To-List app market offers unique strengths and limitations. Microsoft To-Do provides a basic but structured task management platform. It allows users to plan their day, sort and prioritize their tasks by importance, due date, and creation time, and offers a smooth integration of other Microsoft apps including Outlook and Teams. Microsoft To-Do's weaknesses include a lack of AI-driven features, little to no customization options, and no calendar view for more advanced productivity needs. Next, Todoist has great strengths in allowing for collaboration, dedicated sections for personal and

professional tasks, pre-made templates, and a reward system named Karma. Despite these strengths, its free-tier capabilities are limited including no AI assistance, location and time-based reminders, and a subscription for the team collaboration feature. Lastly, Notion offers AI tools, free templates, and an extension of customization options. However, its complex interface can be overwhelming for new users and requires time and effort to learn how to utilize these tools to effectively build and manage one's workspace. The variation of strengths and weaknesses clearly reveal the need for diversity in the to-do list market. The opportunity calls for the need for an innovative solution that seamlessly combines AI- driven features, offers extensive free customization, and most importantly, a simple yet highly effective workplace for users.

Our Personal Management App is an educational solution designed to teach children time management while keeping them motivated through an integrated pet simulator. Unlike other scheduling and productivity apps that rely solely on reminders and checklists, our app integrates a pet simulator for habit building. By making task completion rewarding, the users would be likely to consistently engage with their schedules. This app provides a solution to parents' difficulty in teaching responsibility. Many parents spend time on trying to motivate their children to stay organized and complete tasks independently. With our app, parents can assign special tasks with incentives from a pet simulator, creating an intuitive digital environment. Our motivation is to make time management accessible and engaging to help children cultivate responsibility and stay organized from an early age, and therefore wouldn't struggle with independence when transitioning into adulthood. This idea not only benefits children but helps parents focus on their own responsibilities.

We plan to monetize our app by advertising to the parents app. The parent can then have the option to pay for a monthly subscription to not have any advertisements. Or the parent can

pay for the entire year. For each month it would cost the user two dollars or 15 dollars for the entire year. Doing this will allow users to have a low cost option to utilize our app for the best experience for both the parents and children.

5. Conclusion

Our personal management app is a mobile app that will help manage your time with calendar and note features as well as a pet simulator that will help keep users motivated. It is primarily aimed at middle school students and their parents as a fun and engaging way to teach them time management. The market for To-Do List apps like ours is rather large and it will have competitors such as Microsoft To Do, Todoist, and Notion but it has value as an educational tool that can help teach children about responsibility and organization. Our app can be monetized with advertisements that users can pay to remove.

References

To-do list apps market size, share, growth, and industry analysis, by type (cloud based and on Premises), by application (individual and enterprise), and regional insights and forecast to 2033. To-Do List Apps Market Size and Trends Research [2033]. (n.d.).
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