VERSION 1.0

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PROJECT INITIATION DOCUMENT
(PID)

Time Owner

By Team Wide Connection

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1.1 Introduction

1.2 GitHub Account

2.1 Problem Statement

2.2 UI Design for Gamer Alice's use case

3.1 Stakeholder Analysis

4.1Feasibility

5.1 Use case Diagram

6.1 Class Diagram

7.1 Use case Narrative

8.1 Business Analysis

Introduction

'Time Owner will ease your daily life!

The Wide Connection is a small Start-Up group dreaming to make the most useful and practical application to brighten user's daily life. It will be improving their ability to control their impulses, addiction and improve their time management skills.

Our group Wide Connection consists of 5 developers including Ashish Sheoran, Elena Sakhnovitch, Hyunseong Lee, Yunseon Lee and Zilola Matasimova. Wide Connection is looking forward to help you understand our project, so reach out to us, if you are interested in our project.

Wide connection's 'Time Owner is time-management application, that would include daily to-do list, as well as calendar view. It will allow user to plan their days, weeks, and month ahead, as well as track their current productivity. It will encourage users to create life goals and help with scheduling them out.It would present user a statistic with how productive they were, and how close they are to fulfilling their goals.Time Owner is also designed for user to assign the goal and checklist to have a constant visual reminder and to increase chance to achieve their goal. Desperate user might choose to commit to their goal financially and receive a fine if goal is not completed. We will allow user to choose maximum fine amount for not achieving goal commitment.

We plan to collaborate and integrate our app with great services that already exist, to further improve our user's experience.

-RescueTime: For users who want to use automatic time tracking, vs entering data manually.

-Various 'Impulse Control' browser extension, that shut down addictive websites.

-RSS feed apps: Allow users to read all their feed stripped-off from advertisement and addictive algorithms.

-WebPage simplifying apps, that remove infinite feed of YouTube video suggestions, that can be so destructive, when you are trying to watch a video tutorial for work.

-Focus-time apps, that suppress all notifications if user wants to focus.

GitHub Account

https://github.com/wide-connection/time-owner

Problem Statement

The problem of online gaming addiction

Affects on users who plays online game

The impact of which is losing control of their own time

And can be solved with our Solution.

User Stories

Alice, who is a Gamer wants to track her own time and not miss her daily goal or tasks that are listed on her checklist. The “Time Owner” application is a Time management app that will remind people their tasks they set on their own Also, will allow people to keep the commitment with their own set fine.

Unlike existing application Time Uler, our “Time Owner” application has simpler UI(user friendly Interface).

UI Design for Gamer Alice’s use case

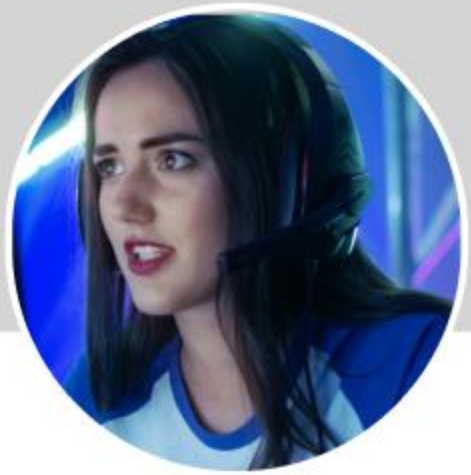
Alice's Profile

9:41

Settings

Profile

Logout



Alice

Gamer

Account

Photos

Alice's Schedule

9:41

Back

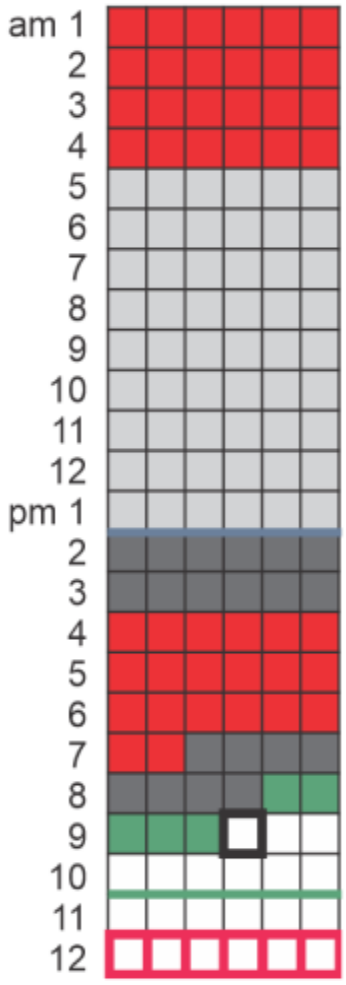
Today

Goal Commitment

- [ ] Practice painting 2hrs or $30 fine

Checklist

- [ ] Take a shower
- [ ] Order healthy takeout meal
- [ ] Go for a walk



Education

Gaming

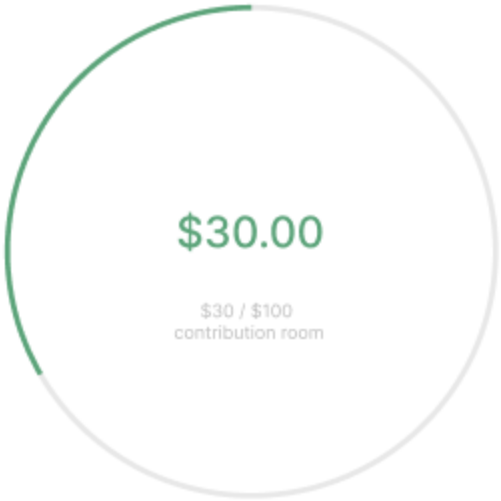
Routine

Sleep

Alice's Goal Commitment

9:41

Back **Goal Commitment**



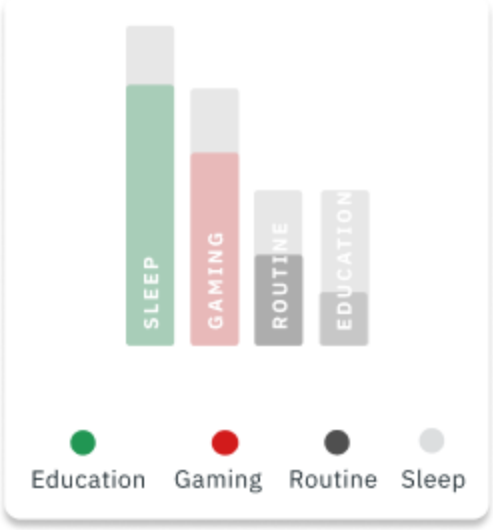
Category

Education	Statistic
Practice painting 2 hours	$30

Alice's Statistics

9:41

Back **Weekly Statistics**



Category

Education	2 hours 30 min / Day
Gaming	8 hours/ Day
Routine	4 hours 30 min/ Day
Sleep	9 hours/ Day

Stakeholder Analysis

Stakeholder	Stakeholder Role	Influence	Power	Requirements
Wide Connection group	Owner	High- Have the most impact about activities. Influence the objective of the business	High- Voting power	Provide frequent update on information and engage in the important decision Sign off on major project decisions
Mark Buchner Professor, Systems Analyst, Project Manager, Researcher	Mentor	High	High	Engage in the important decision, guidance and advise on project planning and implementation
Addiction Rehab center	Customers	High- Give feedback to business on how to improve them. Influence others by recommending the business	Low- Economic Power	Utilize the application by setting goals and checklist with due date and meet the deadline
Game addiction Community	Customers	High- Support by purchasing subscription to reduce the addiction and gives feedback on product	Low- Economic Power	Utilize the application by setting goals and checklist with due date and meet the deadline
Mental health research	Consultant	High- Influence the business's activity or could provide powerful support	High- Informational Power	Guide user to get the most out of the application and recommend user to get further help from mental health research and provide support with accumulate data
CamH	Mentor	Medium	High	Guidance and advise on project planning

Wide connection Developer	Front-end Engineers	Low	Medium	Responsible for developing front-end of the application in accordance with the requirements in terms of quality and functionality.
Wide connection Developer	Back-end Engineers	Low	Medium	Responsible for developing the database and back end of the application in accordance with the front-end design.
Customer representative	Customer support	High	Low	Gather customer's opinion and review to improve the application
Application Users	Users	High	high	Request requirements after released in public and also, participate in all activities and give feedback to improve system
Artificial Intelligent program	System	medium	medium	The system creates schedule automatically when user request according to the previous history and gives suggestion to the user
Wide connection Software Tester	Test Engineer	medium	medium	Responsible for testing the different parts of the application to ensure both front-end and back-end part of the application works well
Google	Google AdSense	medium	medium	Used to advertise application to new users and generate income by putting advertisement on application
Opensource Community	Developers and testers	medium	medium	If opensource community is interested in the project they may help fixing bugs
Application Subscribers	Subscribed Users	High	high	Main income sources and who are able to provide practical and honest feedback for the application improvement

Feasibility Study

Schedule Feasibility

Can we do in in time?

We cannot manipulate time or resources, but we could adjust the scope. That is why we will plan our work in a way, that we will make the most basic and important functionality first, and then add any additional tools on top. For example, we should do time-tracking functionality first, then add to-do lists, then add planning-ahead with calendar integration. That is the main core of our web-application. Later we can add Pomodoro timer, productivity graphs, account synchronization, and more. I think we should use Agile planning, as this would help us to progress by adding more features and fix bugs with each iteration.

Operational Feasibility

Will it be easy to learn and use?

The end-user will get an instruction demo that will navigate through our application. Our addiction time management application works just like a paper scheduler. Besides, our scheduler also includes the benefits of digital implementation: the ability to do analysis and graphs, tracks the amount of fine they have paid, automatically generated average time contributed in each category. Putting tasks into square tiles of time intervals should be as fast and easy as writing a checkmark in a journal.

Technical Feasibility

Do we have tech resources?

We believe that there are many instruments available for developers nowadays that can allow to create this project. We will have 5 programmers who are committed, and we will be storing data in MongoDB since csv data will not require much space. Also, we have chosen the application that is compatible in both web and mobile. As most of user prefer to use in both mobile and their own computer. After web application is fully designed and functioning, the creation of a mobile app will be a lot easier and fast, However, in the meantime, application could also be accessible from a mobile browser.

Subscription analysis of the Competitive companies

Are there other companies out there who uses same technique?

Technique itself is not the newest. Even the one of the most common tools such as zoom is not the only company who offers video call services. In the other words, those apps are not innovative but works. Our innovative skill is to convert the idea that exist and use the idea that it works and familiar to people and improve it to fit into user's taste.

Beeminder	Free trial	N/A
	Subscription	$8/Month
		$16/Month
		$40/Month
Resque time	Free trial	N/A
	Subscription	$9 /Month
Time Uler	Subscription	$89/One-time fee

Financial Feasibility

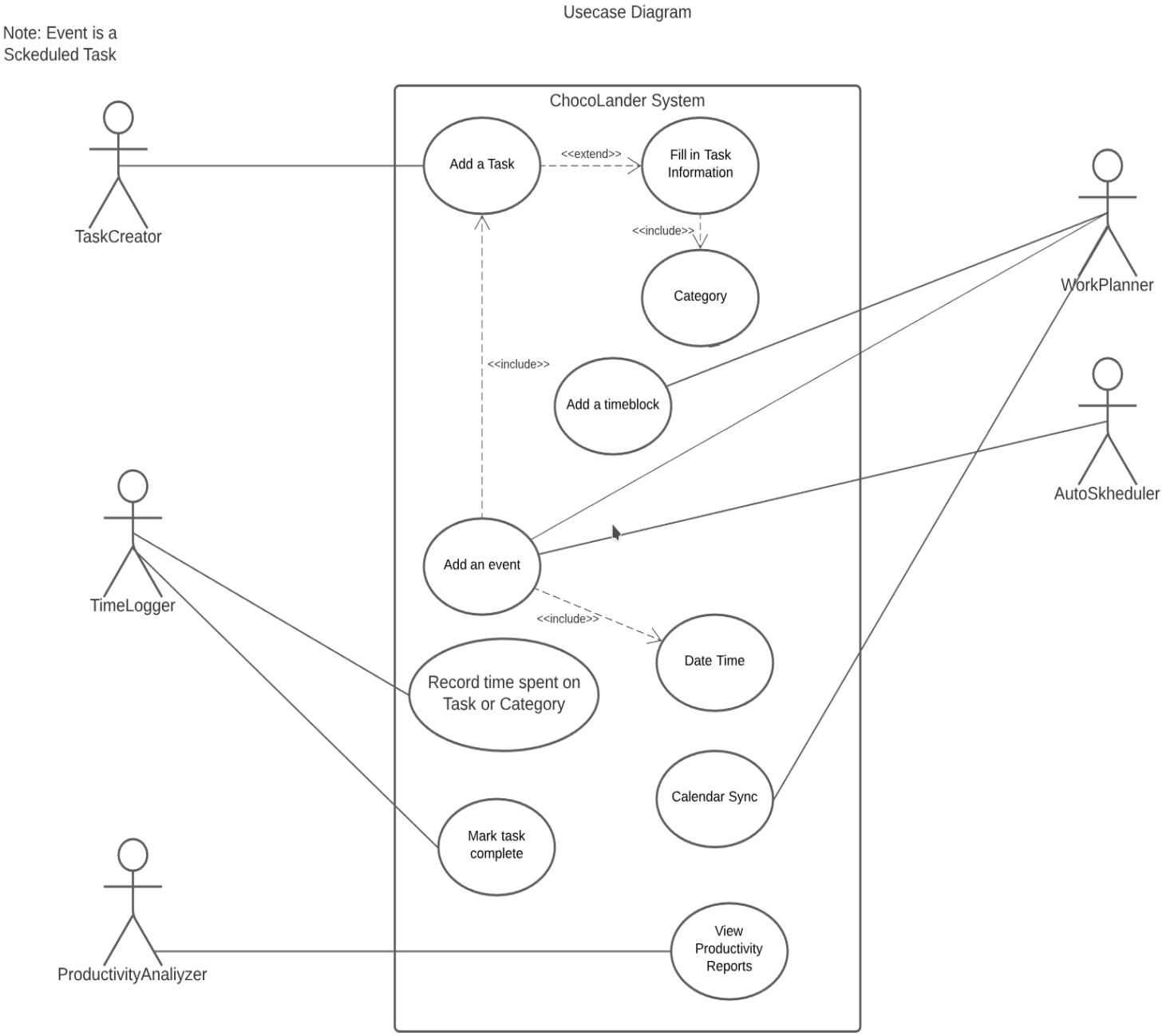
Will it affect users?

We think that this project has the potential to become a great tool that is going to help people with time-management to beat their various addictions I.e) Gaming, Gambling, and Social Media. It is designed to give users a better understanding of their time and allow people to make more productive choices on how they should spend their time.

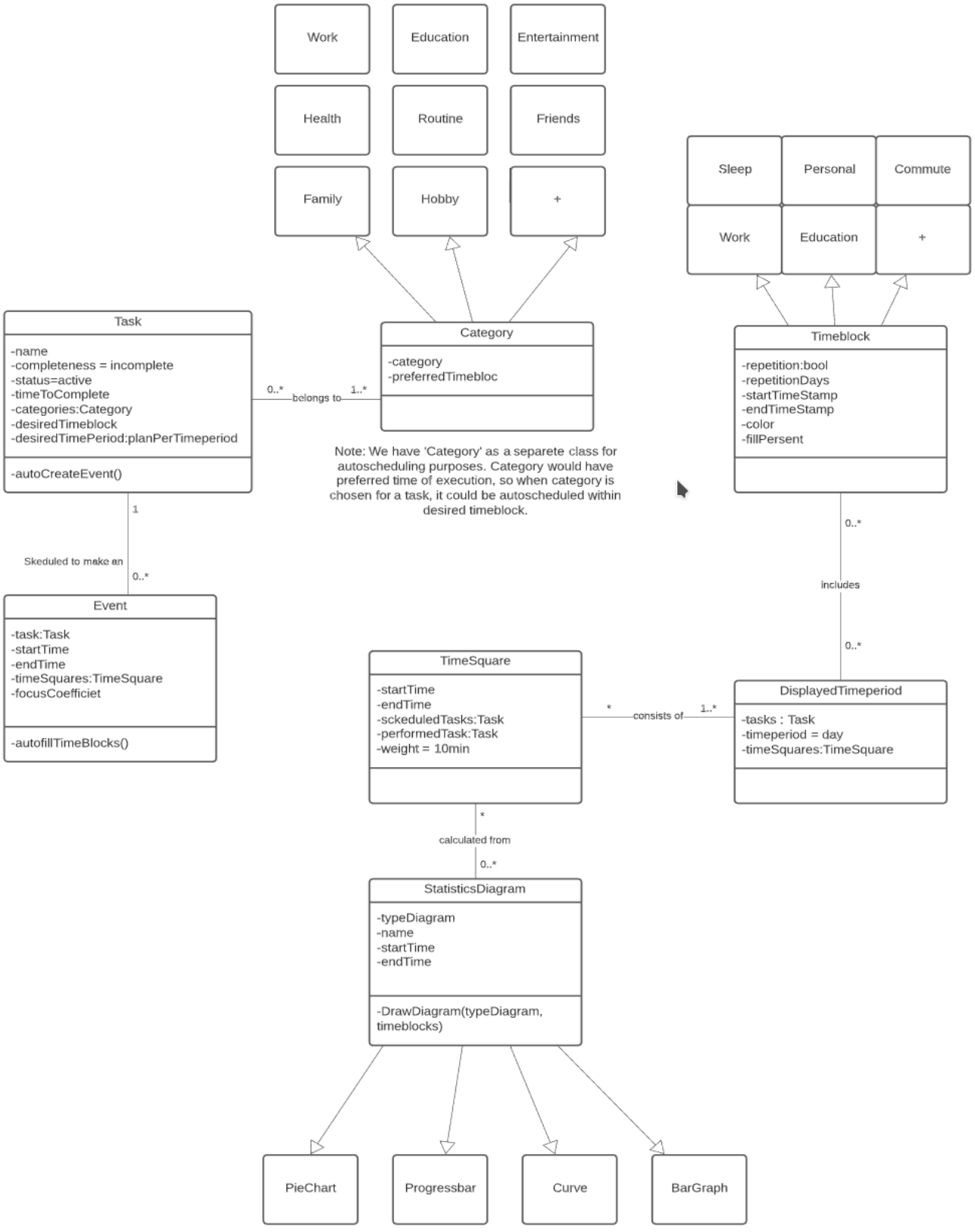
Money Spent	
Technical Resources	$0
Heroku	$25 /Month
MongoDB	$57/Month
Marketing(SEO optimization)	$150/Month
	Total:$232

Income (100 Subscribers/Month)		
Subscription	$800	$8/Month
Advertisement	$75	75 clicks / 5000 banner displays = $7.5 (75 x $0.10)
	$10	Average Interstitial ad $1-3
	$10	Average Video ad $5-10
In App Purchase(fine)	$100	100 people paid fine=$100($1x100)
Crowdfunding (Hello Earth)	$824	
Community Grant	N/A	
Sponsorship	N/A	
	Total: $1,819	

Use Case Diagram



Class Diagram



Use case Narratives/Specifications

Field Name	**Field Description**
Use case Name	Add a task on Checklist (Applies CRUD)
Assumptions	Task creator has added a task to the Checklist
Pre-conditions	A task is not overlapped with another task at the same time
Initiation (Triggering event)	This use case starts when the task creator selects add new task option
Main flow of events	1. User selects to add a task option located on the right side of the application 2. User selects the specific category of a task 3. User clicks save button after finish writing a task
Post-conditions	A new task has been added to checklist

Field Name	**Field Description**
Use case Name	Add a goal to the event (Applies CRUD)
Assumptions	The user has added a new goal available on the calendar
Pre-conditions	The date and time of the goal must be specified
Initiation (Triggering event)	This use case starts when the work planner selects to add an event option under the goal commitment box
Main flow of events	1. User selects to add an event option located under the goal commitment box 2. User sets a specific date and time of expiration period 3. User clicks save button after sets a goal
Post-conditions	A new goal has been added into the calendar

Field Name	**Field Description**
Use case Name	Record time spent on task or category
Assumptions	Time logger has calculated time which has been spent by the calendar
Pre-conditions	Time logger decision that tasks are complete, whether the allocated time has passed or not

Initiation (Triggering event)	This use case starts when the time logger selects the recording time button
Main flow of events	1. Time logger clicks “start recording time” button when start working on a task 2. Repeat the above until all tasks will be completed 3. The system will automatically calculate all time spent on either task or category and it into the database 4. Time logger can check time spent in the time management section in the application
Post-conditions	Time spent on task or category has been recorded and saved into the database

Field Name	**Field Description**
Use case Name	Mark task complete
Assumptions	Time logger has marked a task that has been completed in the past
Pre-conditions	Task has to be incomplete prior to update the task as complete
Initiation (Triggering event)	This use case starts when the time logger tries to update the task status
Main flow of events	1. User opens the task management section in the application 2. User try to mark the task which has been finished 3. The system will validate if the task is still open 4. Task will update the task status as complete. If not, update the task status as unsatisfied
Post-conditions	A task status has been updated as a complete

Field Name	**Field Description**
Use case Name	Log in to the system
Assumptions	The user has logged in to the calendar application
Pre-conditions	User entered id and password has to be matched with the database information
Initiation (Triggering event)	This use case starts when the user opens the calendar application and chooses log in option
Main flow of events	1. User searches our application on the website and opens it 2. User chooses to log in option which locates in the upper right side of the application 3. User enters id and password

	4. If the user entered id and the password are matched with the information in the database, the user logs in to the application. If it is not, it will automatically prompt the error message which is “one of id or password is not matched!”
Post-conditions	The user has been logged into the application

Field Name	**Field Description**
Use case Name	User checkmarks the task
Assumptions	User has saved task previously
Pre-conditions	User clicks save button after has been modified all items in the application
Initiation (Triggering event)	This use case occurs when the user clicks the save button option
Main flow of events	1. User clicks the save button on the website 2. The message which is “Do you want to save the current information” prompts the user 3. If the user chooses the “yes” option, it will automatically save all information that has been updated in the past. If it is not, it will go back to the application and the information has not been updated
Post-conditions	The updated calendar information successfully saved into the database

Field Name	**Field Description**
Use case Name	View Weekly statistics report
Assumptions	User previously has saved progressive of the category of goal
Pre-conditions	A productivity report requires a marked goal complete and time spent information
Initiation (Triggering event)	This use case occurs when the user clicks the statistic buttons
Main flow of events	1. User clicks the statistic button on the menu 2. System generates average time the user spent on each category past 7 days 3. User see the displayed data in graphs
Post-conditions	A productivity analyzer has been successfully checked the productivity report

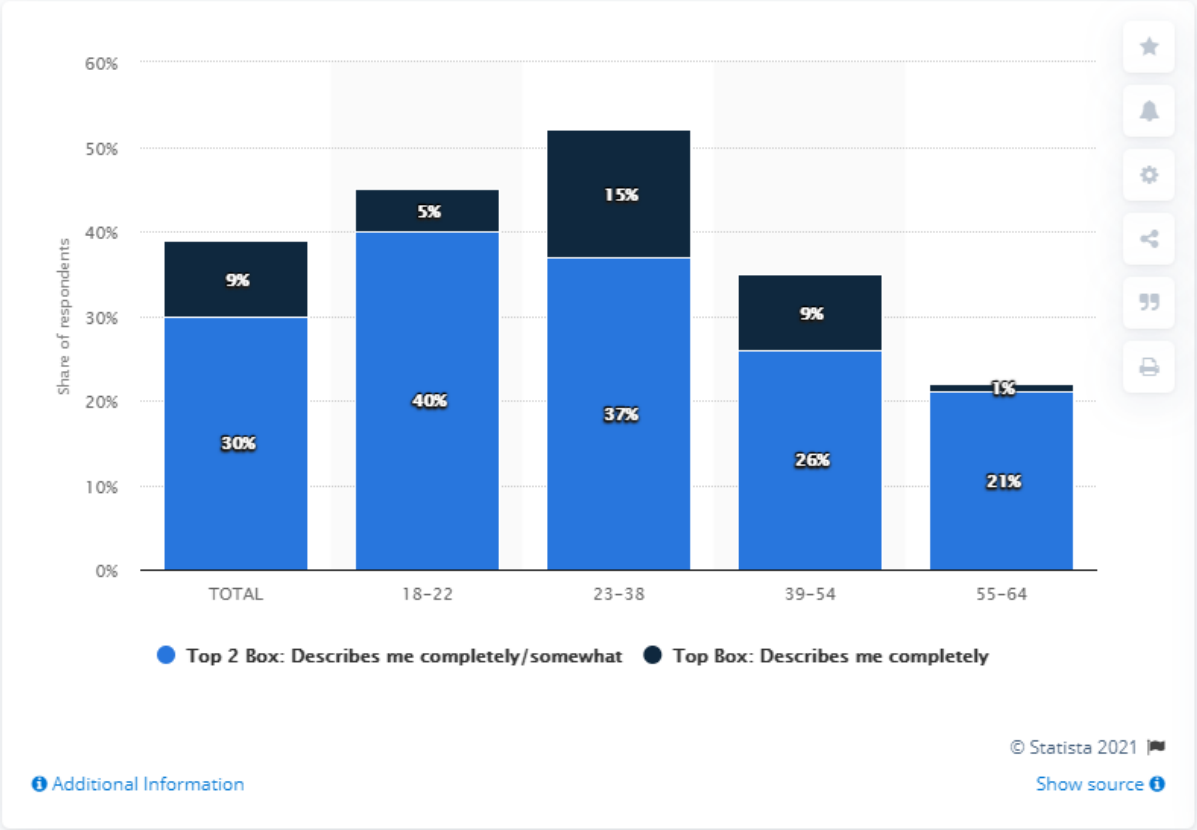
Field Name	**Field Description**
Use case Name	View Goal Commitment fine

Assumptions	The user has achieved the task
Pre-conditions	The user previously paid a fine for underachievement
Initiation (Triggering event)	User clicks Goal commitment tab
Main flow of events	1. User clicks the Goal Commitment tab on the menu 2. It generates all fines from the period of the first fine user paid
Post-conditions	The updated goal commitment successfully saved into the database

Business Case

Who will use it?

According to the statista.com, about 40% people of age group in 18-22 say that they are being addicted to the social media. Also, other age groups also have a high rate of social media addiction. Our group's project, "Time Owner" made with the purpose of solving social media addiction. Our application will help to record people's works in calendar, provide timer to check the progress, and will provide great productivity analysis to change their life.



Who will buy?

Our application will basically provide most of services for free with high quality. If people buy our monthly professional option, we will provide elaborate productivity analysis from different perspectives. Even though

our free website option is completely useable, a professional version will definitely change people's life cycle positively.

What is your ROI?

Team "Wide Connection" believes that every people want to be an owner of time. Therefore, our application will be used by many people who want to efficiently manage time. Our application is adaptable for multi-different functionalities such as productivity analysis, pomodoro timer management, and calendar operation. Therefore, our team believes that it has a huge growth potential. It will stimulate users' curiosity and we would definitely say that it worth for investment.

What is your next step?

Our next step after publishing the application, we will focus on update, maintenance, and user interaction. We believe that communication between developers and users are very important. We should know what user needs are and keep updating it.

What did you learn from this?

Social media become essential platforms for people. It makes us easy to communicate with other people as well as we can check whole world's information by social media. On the other hand, it ruins productivity of people and makes people keep comparing with other people. Our team handles this social media problem seriously and "Time Owner" has been developed with a purpose of solving social media addiction problem.