

# Let's Get Started

## Team 2

### + Team Leader

\*Muhammad Risma - 001202100048

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### + Team Members & Roles

\*Alda Aulia - 001202100054

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\*Dave Dwi Ananda - 001202100152

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\*Jessie Angelica - 001202100035

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\*Yozabel Hamuda - 001202100053

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# Create a **Project Plan**

## **+ Establish Your Goals**

- Making things useful for society
- Improve our skills
- To generate our idea and make a real prototype.
- Applying problem solving in real life

## **+ Define Indicator of Success**

- Create a website that can help manage user expense
- User friendly
- Provide user financial reports
- Help users know the details of income and expenses
- Quality of Product/ Service

# Define the user you are designing for



Name	Putri Ramadhania
Age	18 years old
Occupation	Student
Location	Palembang
Relationship	Single
Education	Undergraduate/Bachelor
Others	Female/Watching Movies

## Pains

- What causes a bad feeling in the customer with the current products?  
**Incomplate features for screen time alarm.**
- What are the worries of the user?  
**I feel like I can't manage the time when I'm watching movies.**

## Gains

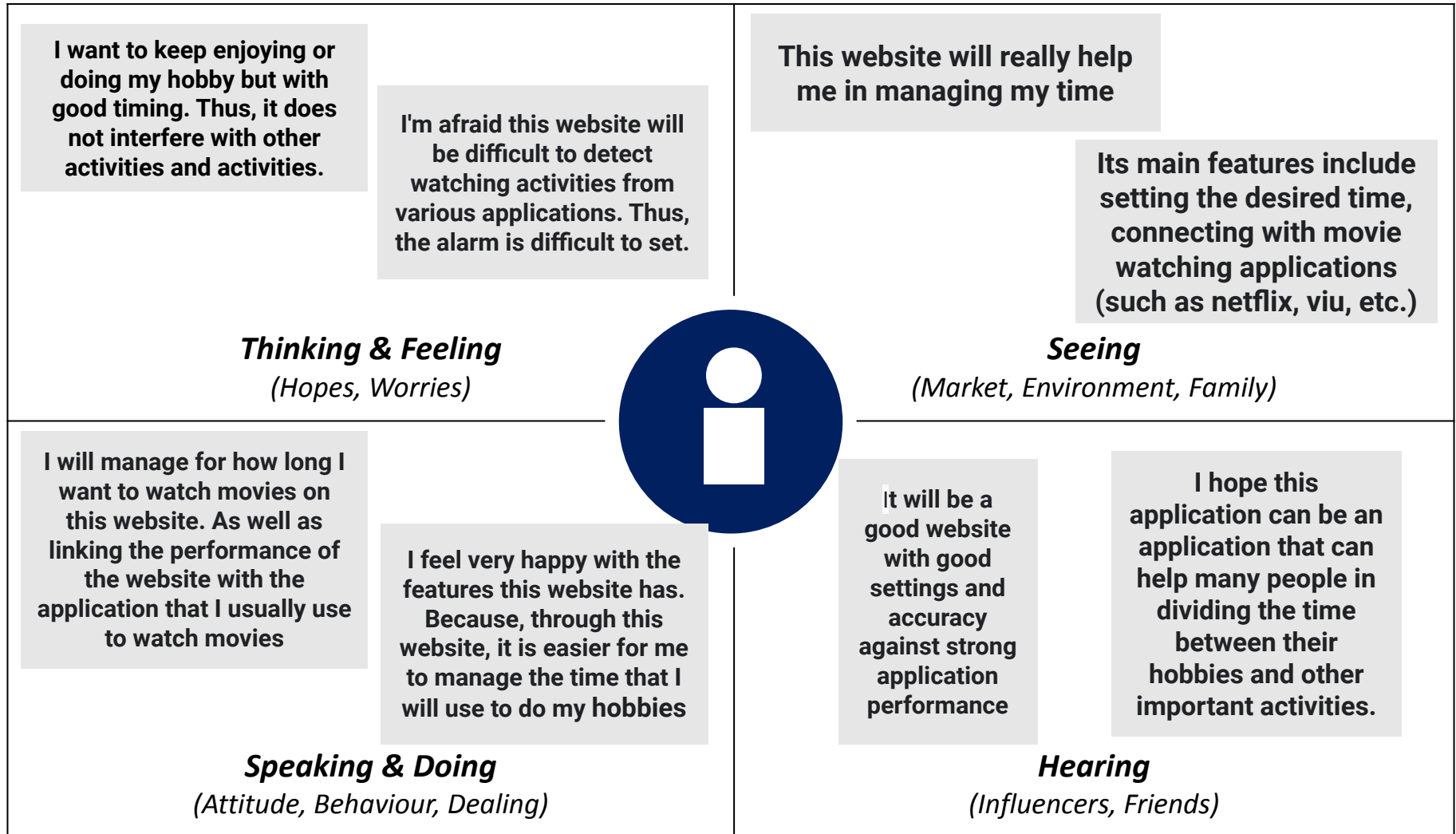
- To what extent do the current products make the customer happy?  
**I feel like I need some features in the website/application for movies to make the screen time alarm.**

## Jobs-to-be-done

- What task performance is supported by the product?
- What are the goals?  
**This website has complete features. Starting from how long we want to watch movies, how often the screen time alarm is set and starts automatically when we watch movies on the same device.**
- Why does it make sense?  
**This website will help me to keep doing my hobby but still with a more regular time.**

# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.



# Define the user you are designing for



Name	Zahwa Khairunissa
Age	17 years old
Occupation	Student
Location	Cikarang
Relationship	Taken
Education	Undergraduate/Bachelor
Others	Female/Listening music and Watching Movies

## Pains

She likes the WeTV application to watch movie series but on WeTV some subtitles don't appear when downloading, Free account dramas are limited and There are ads on free accounts. That's makes she has a bad feeling

The worries of the user is when creating an account on We TV, she must use her data and she is afraid that the data will be misused

## Gains

The current products make the customer happy is this application includes many international or domestic series and provides many resolution options for watching.

## Jobs-to-be-done

The WeTV performance is very good because VIP registration is easy and cheap and dramas can be downloaded. So that we TV can correct features that are still not good. So that viewers who watch through our TV application are comfortable and happy.

# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.

We pay more attention to all the features of we tv. And add new features to We tv to make it look better.

As mentioned earlier, when registering for a premium account using personal data, she is afraid that the data will be misused.

***Thinking & Feeling***  
(Hopes, Worries)

When she use we tv, she can use it in two devices. Then when she use we tv, she has a premium account, it's more convenient to subscribe with this application.

She really like this application when she want to watch exciting and latest series. But sometimes the subtitles are still random.

***Speaking & Doing***  
(Attitude, Behaviour, Dealing)

She saw family and friends when using this application are very happy because there are many genre series from within the country and abroad.

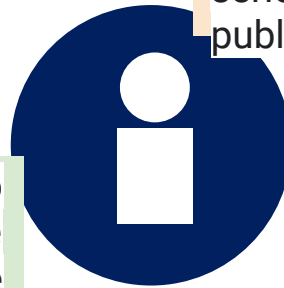
In this application, what really stands out is that there are lots of series genres and if she doesn't want to be a premium account we can wait for series per episode for several weeks after publishing per episode per episode.

***'Market, Environment, Family***

To correct all the features that are lacking. And multiply the series abroad.

We tv is quite good for the series, but hopefully we will check the features in the application more so that the audience is comfortable.

***Hearing***  
(Influencers, Friends)



## Define the user you are designing for

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.



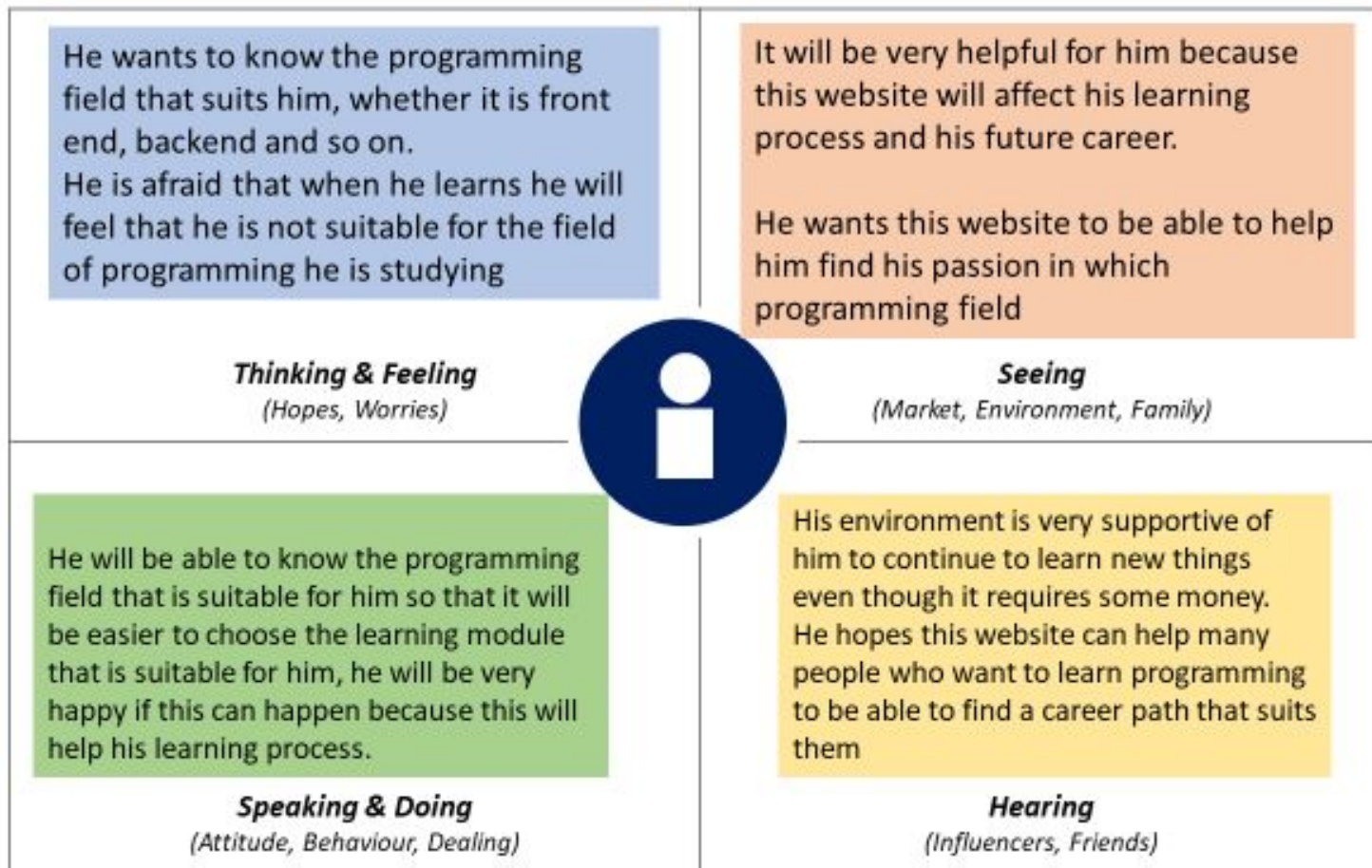
<b>Name</b>	Bima Fairul Rifqi
<b>Age</b>	19
<b>Occupation</b>	Student
<b>Location</b>	Pontianak
<b>Relationship</b>	Single
<b>Education</b>	Undergraduate/Bachelor
<b>Others</b>	Reading/Learn Coding

Pains	Gains	Jobs-to-be-done
When he learns programming, the website he uses is often confused because he feels confused about which programming field is suitable for him. He's worried that the learning module won't suit him	The current product that makes customers happy is an application / website where he can learn while directly practicing it, because the material has been provided in the module. In addition, if users have problems with learning materials, they can directly ask the website mentor via a private telegram group and the mentor will answer quickly.	<ul style="list-style-type: none"><li>• Task performance supported by this product has complete features such as: Complete learning modules, low prices, easy-to-understand materials. This is very helpful for him as a beginner who wants to learn about programming</li></ul>



# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.





# Define the user you are designing for



Name	Belisti Heta Yadi
Age	19 years old
Occupation	Student
Location	Cikarang
Relationship	Single
Education	Undergraduate/Bachelor
Others	Female/Playing music and sport

## Pains

incomplete features and confusing design of the current product makes she has a bad feeling

The worries of the user is she can not manage her money well and has a bad money management during pandemic for example she order food too much and buy things that she don't need

## Gains

The current products make the customer happy is application / website where has a fast app response, Completeness of features, ease of use, efficient, and has a design that is easy to understand. It must be have a good performance both function, execution, and design

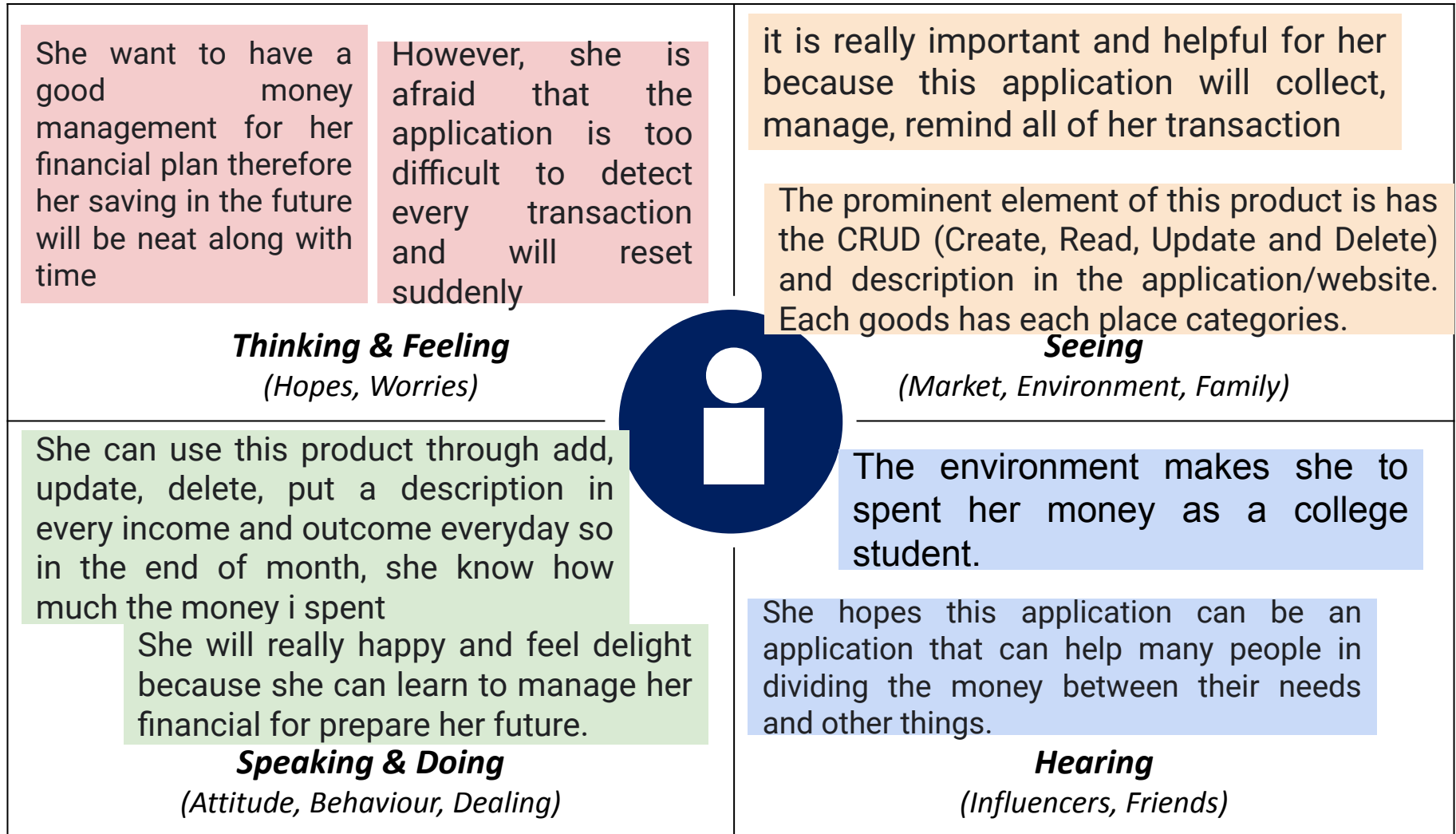
## Jobs-to-be-done

The task performance that supported by the product is has a complete features such as income, outcome, categories based on daily needs, and limit alerts.

Because she thinks that this product will really help her to manage her money, so she can have a good money management.

# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.



## Define the user you are designing for

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.

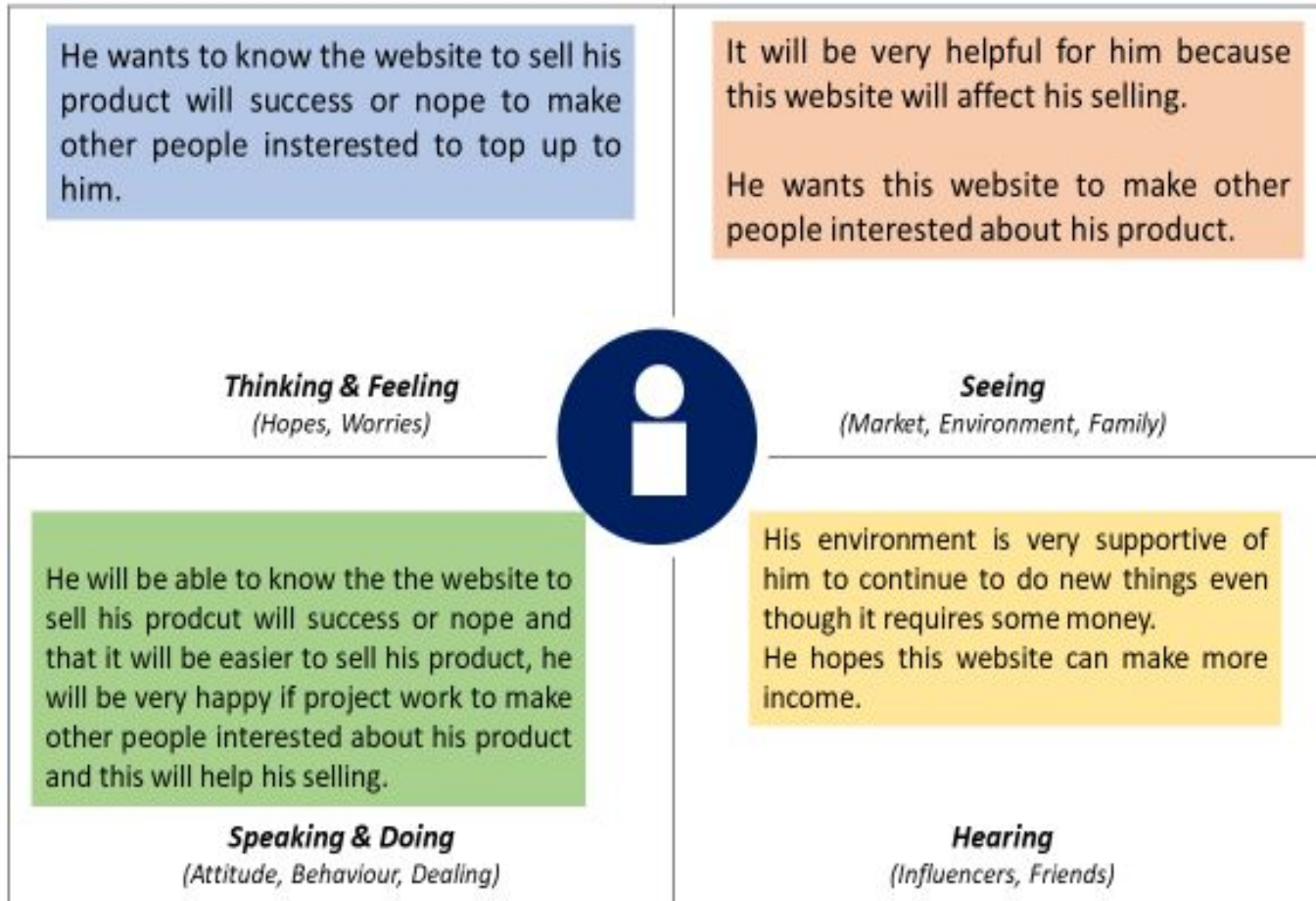


<b>Name</b>	Regi Rivera Riyadi
<b>Age</b>	19
<b>Occupation</b>	Student
<b>Location</b>	Cikarang
<b>Relationship</b>	Taken
<b>Education</b>	Undergraduate/Bachelor
<b>Others</b>	Playing Game

Pains	Gains	Jobs-to-be-done
he sells top up in games such as mobile legend but he want to make a website to his top up game	The current product he sell in Instagram so he would be happy because he want to make a website to sell his product and to make other customer intrested	<ul style="list-style-type: none"><li>• Task performance supported by this product has complete : make a website to top up some game</li></ul>

# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.



# Define the user you are designing for



Name	M.Tsiqoh Penakluk Budi Luhur
Age	18 years old
Occupation	Student
Location	Cikarang
Relationship	Single
Education	Undergraduate/Bachelor
Others	Male/Thrifting

## Pains

it becomes a challenge for him who is just starting a business, confused about how to attract people's attention to his products and how to get people to find his products, he wants people to easily find his products through online platforms

## Gains

The current products make the customer happy is application / website where can promote his products widely through online platforms, such as media social or websites

## Jobs-to-be-done

The task performance that supported by the product is an website where the website can promote its product so that it can be widely spread, and easy to find and also the website is easy to anyone to access

# Empathy map

The purpose of this profile is to frame all of your ideas and solutions around the individual that is most likely to use it.

he hopes that in the future he can be successful with the business he has built, can make people happy with his product and can be useful for others by selling the product

***Thinking & Feeling***  
(Hopes, Worries)

the user feels very helpful with the services provided to him, and he also always get support from his environment for his business that makes him always excited to run his business

***Seeing***  
(Market, Environment, Family)

he found it very helpful to use the websites or online platform as an access to expand the reach of his products, by using it it became easier for anyone to find their products

***Speaking & Doing***  
(Attitude, Behaviour, Dealing)



feedback and opinions for users, always consistent with what is being done, focus and be wise in making decisions, and hopefully with this service you can advance your business

***Hearing***  
(Influencers, Friends)

# Prepare for **Collecting Data**

## **List of Questions**

- What are the advantages of current products
- What are the disadvantages of current products
- To what extent do the current products make the customer happy?
- What do you think can be used to improve the current product
- What's your expectation to the result?
- What's your feedback / advice to the result of this product / service?
- What are the unique idea that other app doesn't have?
- Does the app useful for you?

Interviewee  
Name List:

Putri Ramadhania

\*\*\*\*\*

Belisti Heta Yadi

Zahwa Khairunissa



# Prepare for **Collecting Data**

## Things to Do

- Tools Preparation: User, Gform, html, javascript, and css

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- Questionnaire about problem that user have Related tech and their problems

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- Time & Schedule Arrangement is January 28th, 2022 at 20.00 p.m

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- Follow up the respondents through Whatsapp

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- Plan A : Questionnaire for more efficient

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- Plan B : Interview for more detail

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And we choose the plan A because it is more efficient

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Stage 02

# Define

*The big, meaty problem you want to solve for the society/your business, customer and/or end-user*

## Good design solves problems. What will you solve for your user?

Using what you learned in the last stage, it's time to discover a pain point to form a clear challenge that you can tackle.

- **It's all about the end-user:** Remember this is more about the people you're trying to help than technology
- **Keep it focused:** Make sure the problem you are trying to tackle isn't too broad or vague
- **Check it against the Empathise stage:** Refer back to the user profile to make sure you're on the right track.

Once you've established a meaningful problem, you'll be able to brainstorm better solutions around it. Onwards!

# Problem Statement

Define the problem you are trying to solve for the end-user and why it's going to be important to them. Keep referring back to this as you go.

## *Example:*

### **+ What problem are you trying to solve for your end user?**

Find Freelance teaching jobs on the phone

### **+ Why is this important to them?**

As a freelance teacher, he often working in classroom away from laptop. That means she needs to quickly find and apply for new teaching slots on her phone before they get filled

### **+ What problem are you trying to solve for your end user?**

To create an expense tracker app with complete features such as income, outcome, categories based on daily needs, and limit alerts, and a minimalist design

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### **+ Why is this important to them?**

In managing expenses, he needs an application that can help him to record every expense he spends so he can have good money management.

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# Define Insights

Insights are a concise expression of what you have learned from your research and inspiration. They are the “*aha!*” moments and unexpected learnings.

Sometimes, it can be helpful to write an insight in the form of a Point-of-View (POV) statement which makes an insight specific to a user or user group. A simpler way to create a POV is through the POV equation.

***user + need +  
interesting  
learning***      **= *POV***

## Insight / PoV

Belisti want to have a good money management

for her financial plan therefore her saving in

the future will be neat along with time

She tend to like ease of use, efficiency, and has an easy to

has an easy-to-understand design so she can manage

her finances well

## Make Insights Actionable

Remember, each “how might we” (HMW) question will only address a portion of your challenge so you can create multiple HMWs and prioritize them for ideation.

## How Might we accommodate user needs regarding expense tracker applications that have complete features?

we trying to make a good website with a design

that easy to understand and able to have a

description in every expenses

we will add a features for manage every income and outcome

[illegible]

# List the user needs and features

This forces you to apply the ideas you created to real user needs. How many solve the problem your user is facing?

## Our target user needs to be able to...

Example: Get to know jobs before anyone else lands them

- Showing income
- Display the expense of each transaction, can see past expenses
- Date every transaction
- Note every transaction
- Displaying expense reports every week
- Create Select Categories i.e F&B, transportation
- Balance per month,
- Diagram chart,
- Show details of each transaction

## Therefore our design needs these features...

Example: Real time notification when jobs available and match with the expertise

- Make money income feature
- Make money expense feature
- Add date at every transaction
- Note feature at transaction
- Expense report Feature
- Add View button at each Categories, to make CRUD (Create, Read, Update, Delete)

## Brainstorming

1. Displays the details of each transaction history and through the weekly view menu
2. Minimize the appearance of ads on the application to make users feel comfortable using this application
3. Creating a responsive and user-friendly website display so that it can attract many new users
4. Displays the Add Transaction menu with the total revenue/result inputted by the user will be reduced by the amount of expense which will then generate a report with additional records that can be used



# SCAMPER

## questions to guide your brainstorm

### Substitute

- What can be substituted?
- What can be used in its place?
- Who can be involved instead?
- Which process could be used instead?
- What other material could be used instead?

### Combine

- What can be combined?
- What can be mixed?
- How might certain parts be connected?
- Which purposes could be combined?

### Adapt

- What other ideas are suggested by it?
- Is there anything that is similar and can be applied to the existing problem?
- Have there been similar situations in the past?

### Modify

- What modification could be introduced?
- Can the meaning be changed?
- How might the color or shape be changed?
- What can be increased?
- What can be reduced?
- What could be modernized?
- Can it be enlarged?
- Can it be downsized?
- Put to other uses
- For what other purposes could it be used in its present state?
- For what purpose could it be used if it were modified?

### Eliminate

- What could be eliminated?
- What are the things it would still work without?

### Rearrange

- What other patterns would also work?
- What modifications could be introduced?
- What could be replaced?
- What could be rearranged?

## ***Substitute***

What other material could be used instead?

- For some parts of the code, we can use several frameworks such as Bootstrap for CSS, Vue js for javascript to make it easier and display maximum results than making code from scratch.

## ***Combine***

What can be combined?

- Make income/outcome + add date + add note/description

What can be mixed?

- of the total income/outcome that is input by the user will be mixed and calculated then will produce a report

## **Modify**

What can be increased?

- The effectiveness and accuracy of calculations should be improved. It is also equipped with improved features.

What can be reduced?

- What must be reduced is the constant presence of advertisements during the use of the expansion tracker, which may disturb the convenience of application users.

## **Eliminate**

What could be eliminated?

- Things we'll be omitting from other expense trackers like too many ads.

# Describe Your Idea

## + Concept Name

Expense Tracker. The application can help people to track and manage their money for better finances in the future.

## + How Does it Work

People can create the transaction by filling in the price, note, date, and selecting the category, it aims to know how much they spend. The app will record every income and outcome, and use the report through a diagram.

Create a concept description for the idea that you would like to prototype and repeat for each idea

## + Sketch

**Expense Tracker**

**YOUR BALANCE**  
**Rp0.00**

INCOME	EXPENSE
Rp0.00	Rp0.00

**History**

**Add new transaction**

Text

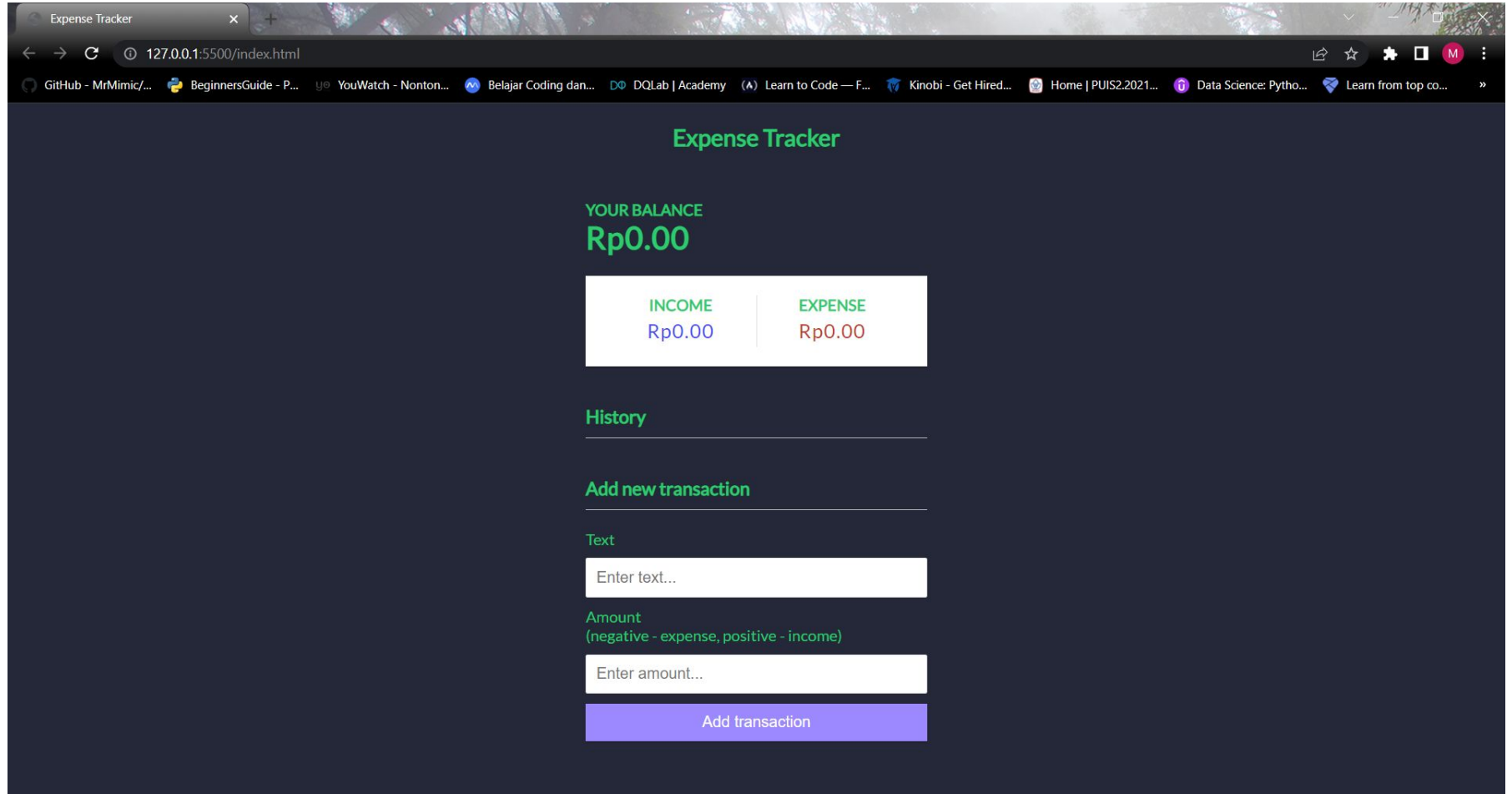
Enter text...

Amount  
(negative - expense, positive - income)

Enter amount...

Add transaction

+ Sketch



+ Sketch

## Expense

Expense Tracker

127.0.0.1:5500/index.html

GitHub - MrMimic/...BeginnersGuide - P...YouWatch - Nonton...Belajar Coding dan...DQLab | AcademyLearn to Code — F...Kinobi - Get Hired...Home | PUIS2.2021...Data Science: Pytho...Learn from top co...

YOUR BALANCE

Rp-20000.00

INCOME

Rp0.00

EXPENSE

Rp20000.00

History

Makan

-20000

Add new transaction

Text

Enter text...

Amount

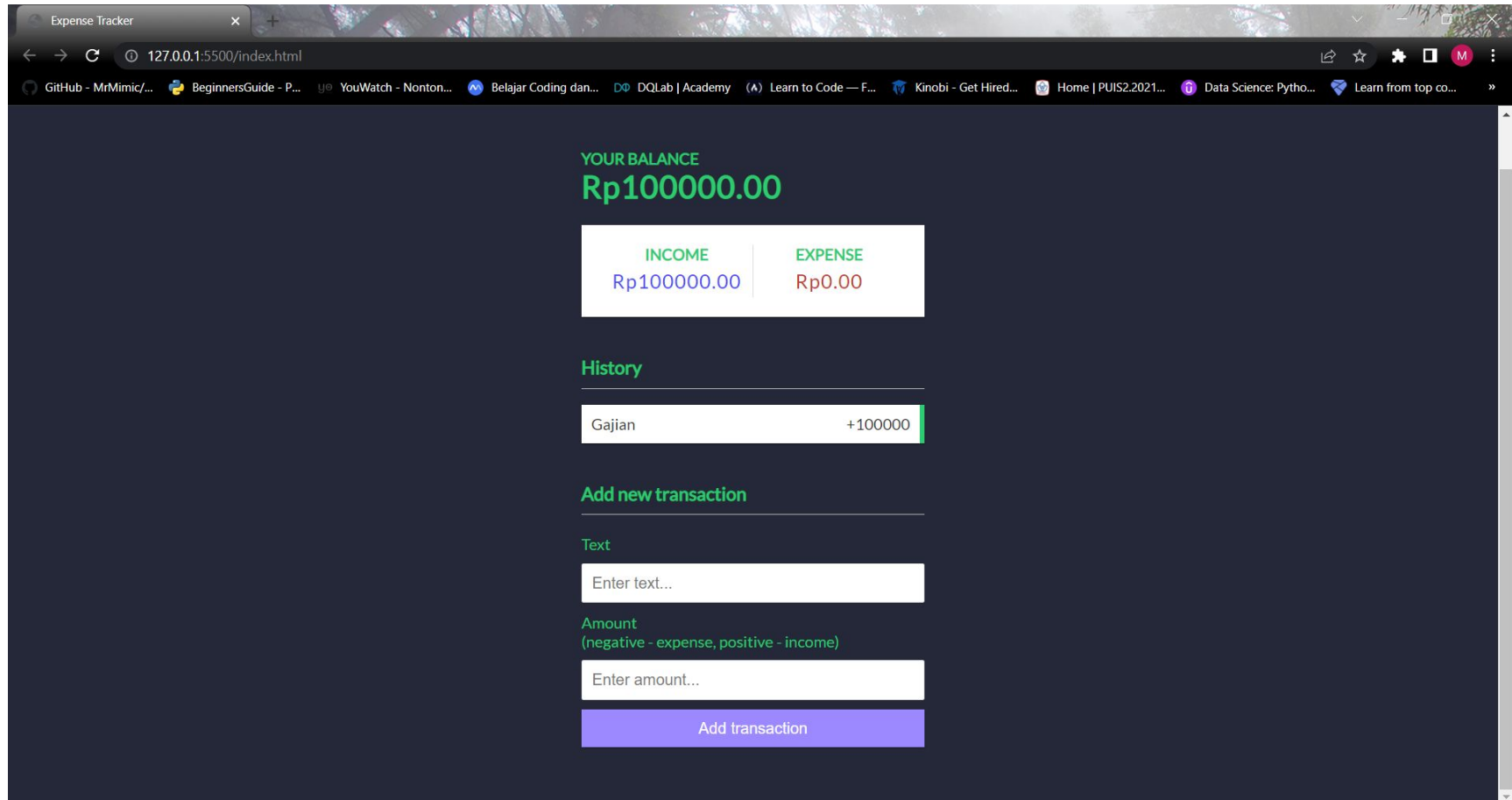
(negative - expense, positive - income)

Enter amount...

Add transaction

## + Sketch

### Income



The image shows a web browser window displaying an "Expense Tracker" application. The browser's address bar shows the URL "127.0.0.1:5500/index.html". The application has a dark blue background. At the top, it displays "YOUR BALANCE" in green, followed by "Rp100000.00" in a large green font. Below this, there are two white boxes: "INCOME Rp100000.00" and "EXPENSE Rp0.00". Underneath, a "History" section shows a single transaction: "Gajian" with a value of "+100000". Below the history, there is a section titled "Add new transaction". It contains two input fields: "Text" (with placeholder "Enter text...") and "Amount" (with placeholder "Enter amount..."). The "Amount" field has a small note below it: "(negative - expense, positive - income)". At the bottom of this section is a blue button labeled "Add transaction".

Expense Tracker

127.0.0.1:5500/index.html

YOUR BALANCE  
Rp100000.00

INCOME Rp100000.00	EXPENSE Rp0.00
-----------------------	-------------------

#### History

Gajian	+100000
--------	---------

#### Add new transaction

Text

Enter text...

Amount  
(negative - expense, positive - income)

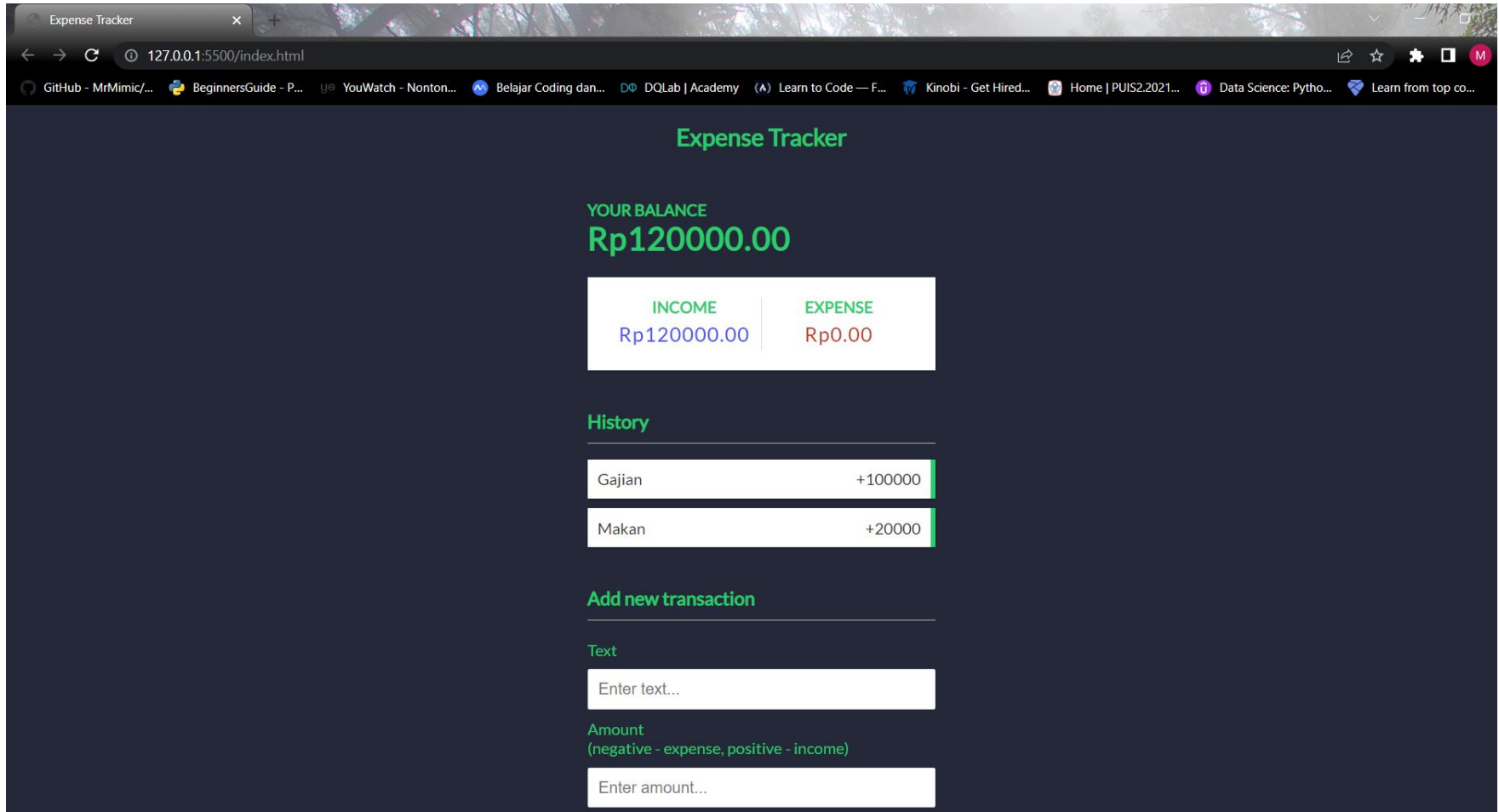
Enter amount...

Add transaction



## + Sketch

### Total Balance



The image shows a web browser window displaying an "Expense Tracker" application. The browser's address bar shows the URL "127.0.0.1:5500/index.html". The application has a dark blue background with green text for headings and balances. The main heading is "Expense Tracker". Below it, the "YOUR BALANCE" is displayed as "Rp120000.00". A summary box shows "INCOME Rp120000.00" and "EXPENSE Rp0.00". The "History" section lists two transactions: "Gajian" with a value of "+100000" and "Makan" with a value of "+20000". The "Add new transaction" section has two input fields: "Text" (with placeholder "Enter text...") and "Amount" (with placeholder "Enter amount..." and a note "(negative - expense, positive - income)").

Expense Tracker

YOUR BALANCE  
Rp120000.00

INCOME	EXPENSE
Rp120000.00	Rp0.00

History

Gajian	+100000
Makan	+20000

Add new transaction

Text

Enter text...

Amount  
(negative - expense, positive - income)

Enter amount...

# Describe Your Idea

## + Concept Name

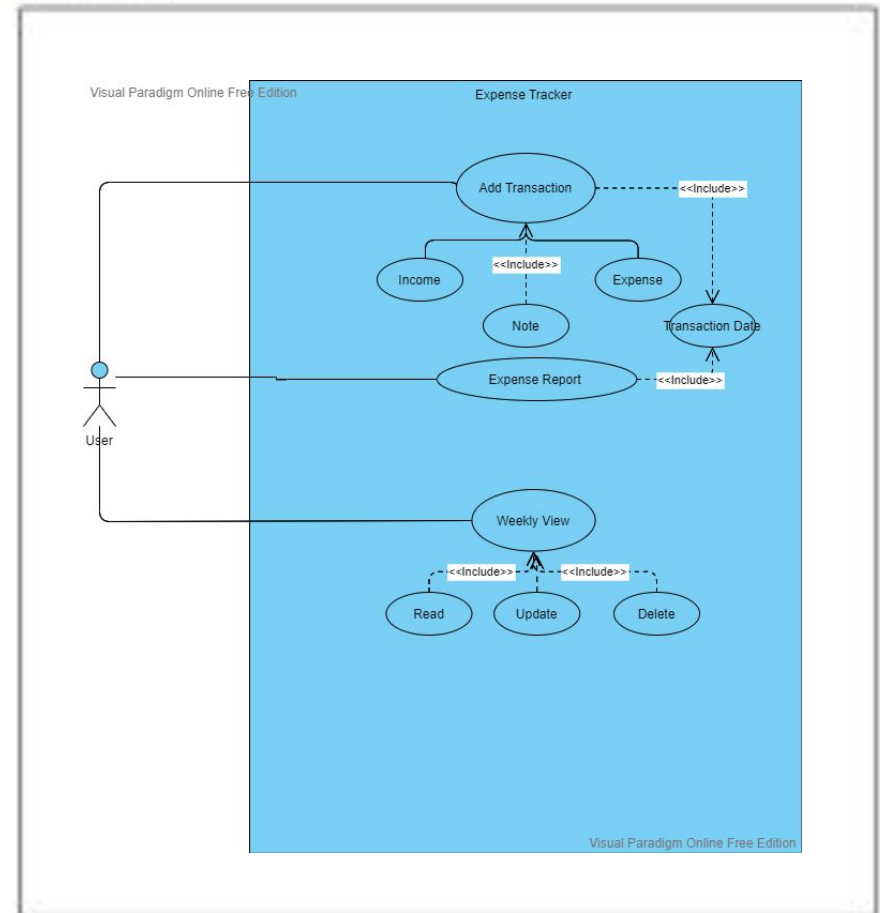
Expense Tracker. The application can help people to track and manage their money for better finances in the future.

## + How Does it Work

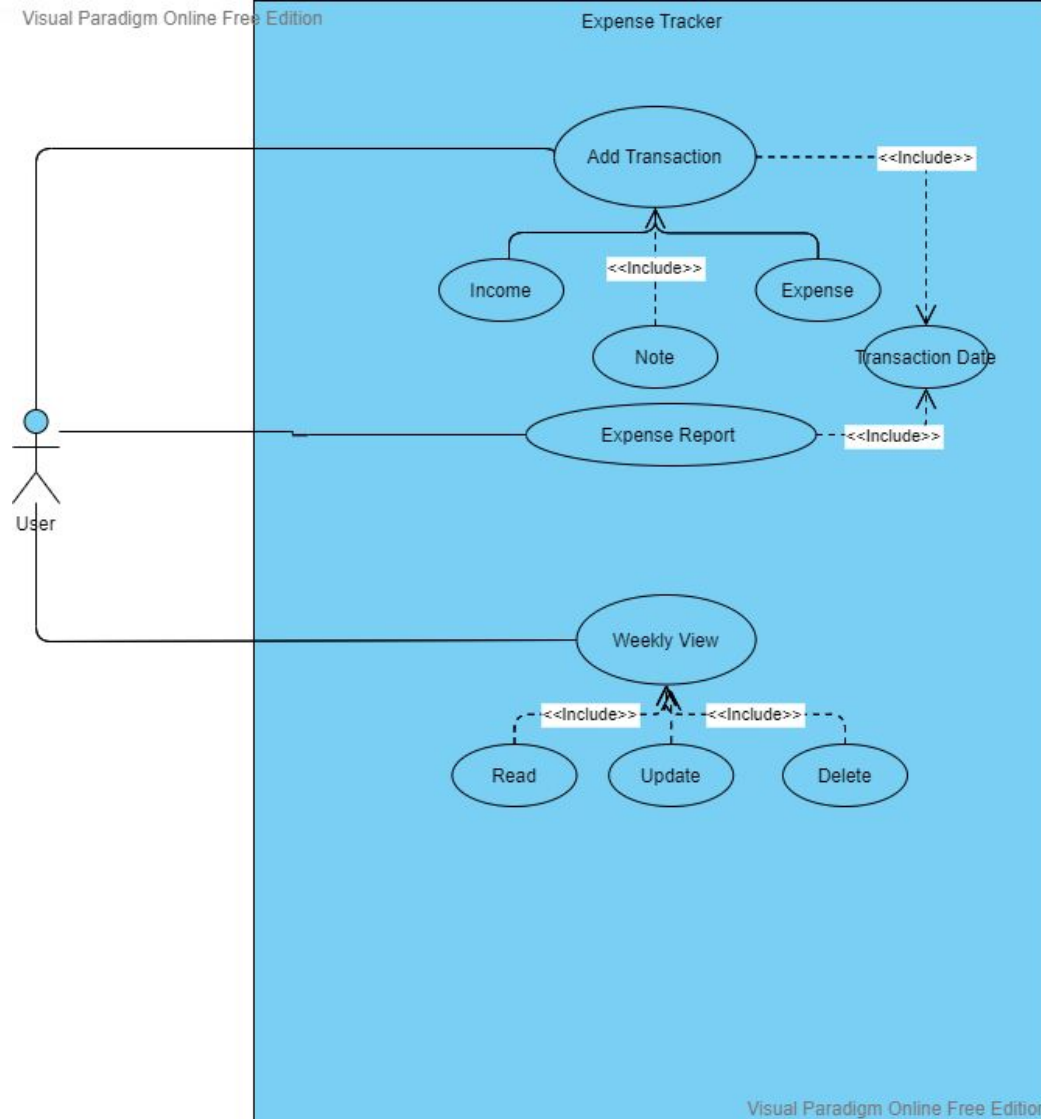
People can log in to the webstore and start to create the transaction by filling in the price, note, date, and selecting the category, it aims to know how much they spend. and The app will record every income and outcome, and use the report through a diagram.

Create a concept description for the idea that you would like to prototype and repeat for each idea

## + Sketch



## + Sketch



# Test Result

## Expense Tracker

### List of Questions

1. What part did you like about this prototype?
2. What part did you dislike about this prototype?
3. Do you have any suggestions for new features for this prototype?
4. How does this prototype look?
5. Is the use of this prototype easy or difficult?
6. Do you think this prototype can help you?

Interviewer Name: Muhammad Risma

Benediktus Pius K.

### User Feedback

- I like the history view which has green for income and red for expenses.
- Part of the numbers is quite difficult to read if there are no dots that help.
- In the Quantity section, separate inputs and outputs are created. Also, add the time and date in the history when creating a new transaction. The most recent transaction appears at the top of each added transaction. Revenues and expenses are created because revenues are above expenses.
- Quite interesting
- Easy to use
- This prototype helps in the latest financial information section.

# Test Result

## Expense Tracker

Interviewer Name: Dave Dwi Ananda

Regi Rivera R.

### List of Questions

1. What part did you like about this prototype?
2. What part did you dislike about this prototype?
3. Do you have any suggestions for new features for this prototype?
4. How does this prototype look?
5. Is the use of this prototype easy or difficult?
6. Do you think this prototype can help you?

### User Feedback

- I like it because the web background is very impressive like technology theme and when I see the expense tracker the color changes its interesting
- If you want to write income, you must use (+) first and if you write expenses, you must also use (-) at the beginning
  - its possible to add it in category section like drop down and for text section it might be better to turn it into description section
  - Quite interesting for the beginning
  - Easy to use
  - This prototype might be able to help in the latest outcome I'm using

# Test Result

## Expense Tracker

### List of Questions

1. What part did you like about this prototype?
2. What part did you dislike about this prototype?
3. Do you have any suggestions for new features for this prototype?
4. How does this prototype look?
5. Is the use of this prototype easy or difficult?
6. Do you think this prototype can help you?

Interviewer Name: Yozabel Hamuda

Muhammad Akbar

### User Feedback

In terms of design, it is very attractive and provides good expansion information
The color selection is not right by combining black and green
Does this application use a log in/log out system?, because in my opinion it is very important in maintaining personal (financial) data so it is better to add security features so that every data that enters the application is maintained. and it would be even better if this application could be connected to the digital bank application, so that every incoming financial report could be connected directly to the expansion tracker application.
See some of the features provided and the appearance of this application is very interesting
Easy to use in my opinion
Very helpful in my opinion, especially among young people who usually like to be unorganized in financial statement matters

# Test Result

## Expense Tracker

### List of Questions

1. What part did you like about this prototype?
2. What part did you dislike about this prototype?
3. Do you have any suggestions for new features for this prototype?
4. How does this prototype look?
5. Is the use of this prototype easy or difficult?
6. Do you think this prototype can help you?

Interviewer Name: Jessie Angelica

Berlian Patricia

### User Feedback

I like this prototype because this web is very good and really easy to understand start from the background, the font colour, font size.
It does not have feature e-money. And I think it is too hard if we must add + and -.
Yes, I hope it can connect to ovo, bca, etc. So we can input manually for cash and automatically for e-money. And you can add the category like food and beverage, fun money etc with the notes
I think it is already very good and interesting
For me this prototype is easy to use
Yes for me this prototype is really useful for tracking my money management



# Test Result

## Expense Tracker

### List of Questions

1. What part did you like about this prototype?
2. What part did you dislike about this prototype?
3. Do you have any suggestions for new features for this prototype?
4. How does this prototype look?
5. Is the use of this prototype easy or difficult?
6. Do you think this prototype can help you?

Interviewer Name: Alda Aulia

Ratu Aprilia Laras

### User Feedback

I like it because the design is attractive with different colors for
- income and expense.
- The part that I dislike about this prototype is having to input the (+) or (-) sign.
- Maybe for the next, this prototype should be connected to mBanking, or the other e-mpney applications. Thus, the tracker is carried out more accurately and easily.
- Quite interesting and easy for beginners.
- Easy to use in my opinion
- This prototype helps me to be more careful and pay attention to the money management that I have

Test Result

**Prototype Name**

### Keep

Existing features

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### Increase

Changed the display of numbers on the balance to make it easier to read, and added a button feature to determine whether you want to enter expense or income

### Decrease

How to collect expenses and income which is quite complicated

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Interviewee Name:

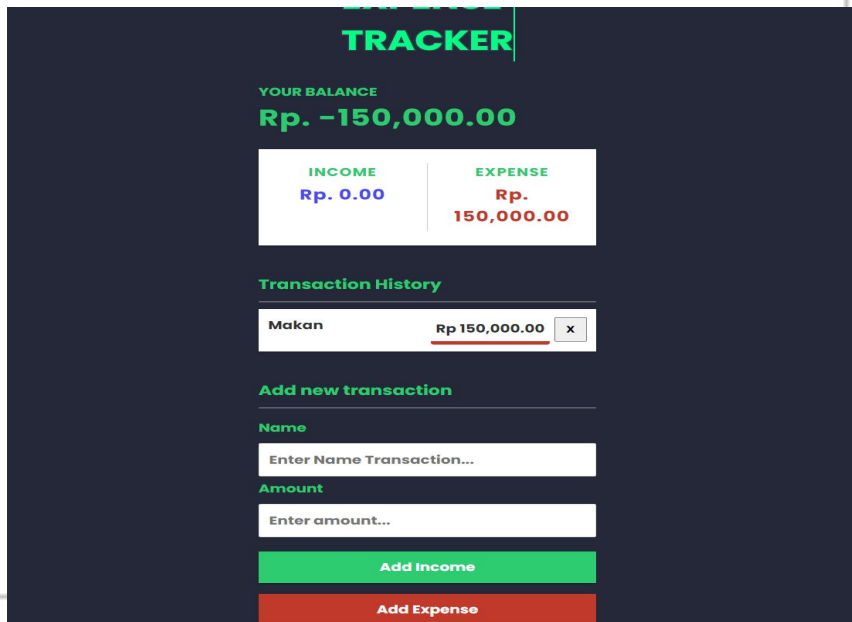
All of member group

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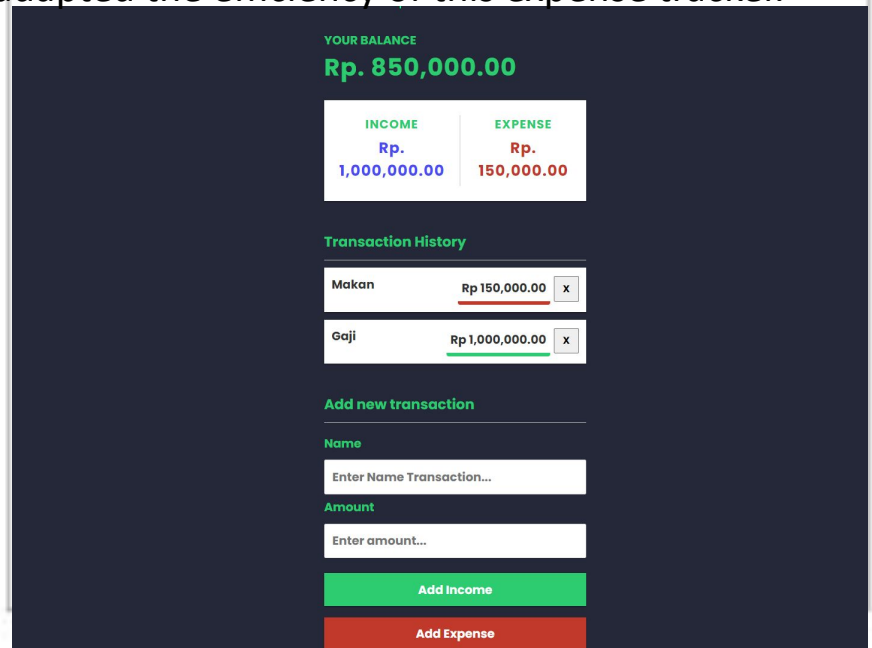
# Final Outcome

## Describe it!

By testing it with our users, we revised our total expenses Changed the display of numbers on the balance to make it easier to read, especially for people who have numeric problems and we added 2 buttons namely expense and income to make it easier for our users. So this is the final outcome of expense tracker. We make this program using javascript, html, and css. And it is already successful for tracker our money. We decided to keep using our original design, because we have thought about, considered, and adapted the efficiency of this expense tracker.



Expense Tracker Screenshot 1: The interface shows a dark blue background. At the top, the title "EXPENSE TRACKER" is displayed in green. Below it, the "YOUR BALANCE" is shown as "Rp. -150,000.00" in green. A summary box contains "INCOME Rp. 0.00" in blue and "EXPENSE Rp. 150,000.00" in red. The "Transaction History" section lists a transaction "Makan" for "Rp 150,000.00" with a delete button. At the bottom, there are input fields for "Name" and "Amount", and two buttons: "Add Income" (green) and "Add Expense" (red).



Expense Tracker Screenshot 2: The interface shows a dark blue background. At the top, the title "EXPENSE TRACKER" is displayed in green. Below it, the "YOUR BALANCE" is shown as "Rp. 850,000.00" in green. A summary box contains "INCOME Rp. 1,000,000.00" in blue and "EXPENSE Rp. 150,000.00" in red. The "Transaction History" section lists two transactions: "Makan" for "Rp 150,000.00" and "Goji" for "Rp 1,000,000.00", both with delete buttons. At the bottom, there are input fields for "Name" and "Amount", and two buttons: "Add Income" (green) and "Add Expense" (red).

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