

# **WORKS APPLICATIONS**

## **Summer Internship**

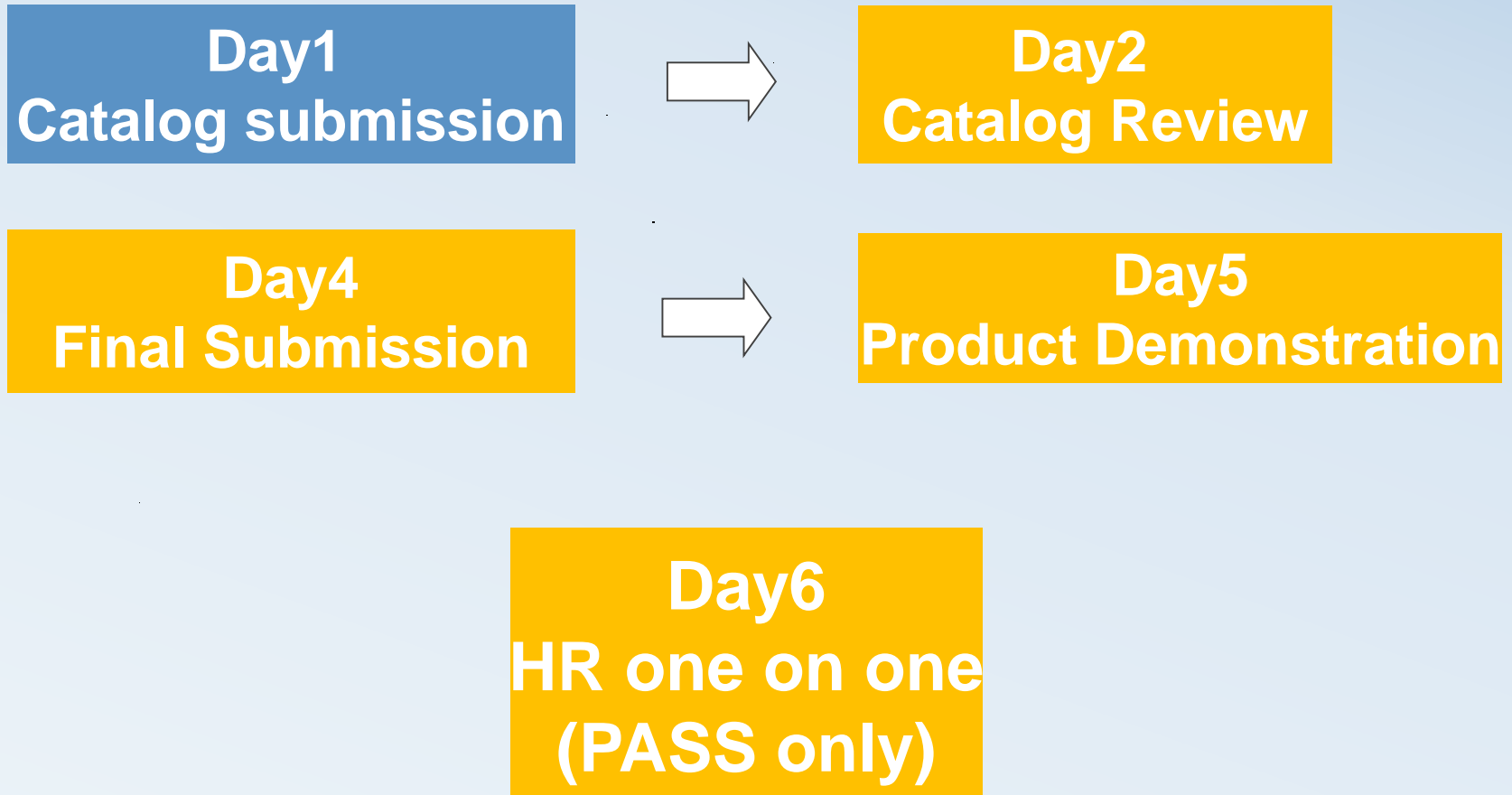
### **2017**



**WORKS**  
APPLICATIONS

# Curriculum

## ● Internship Schedule

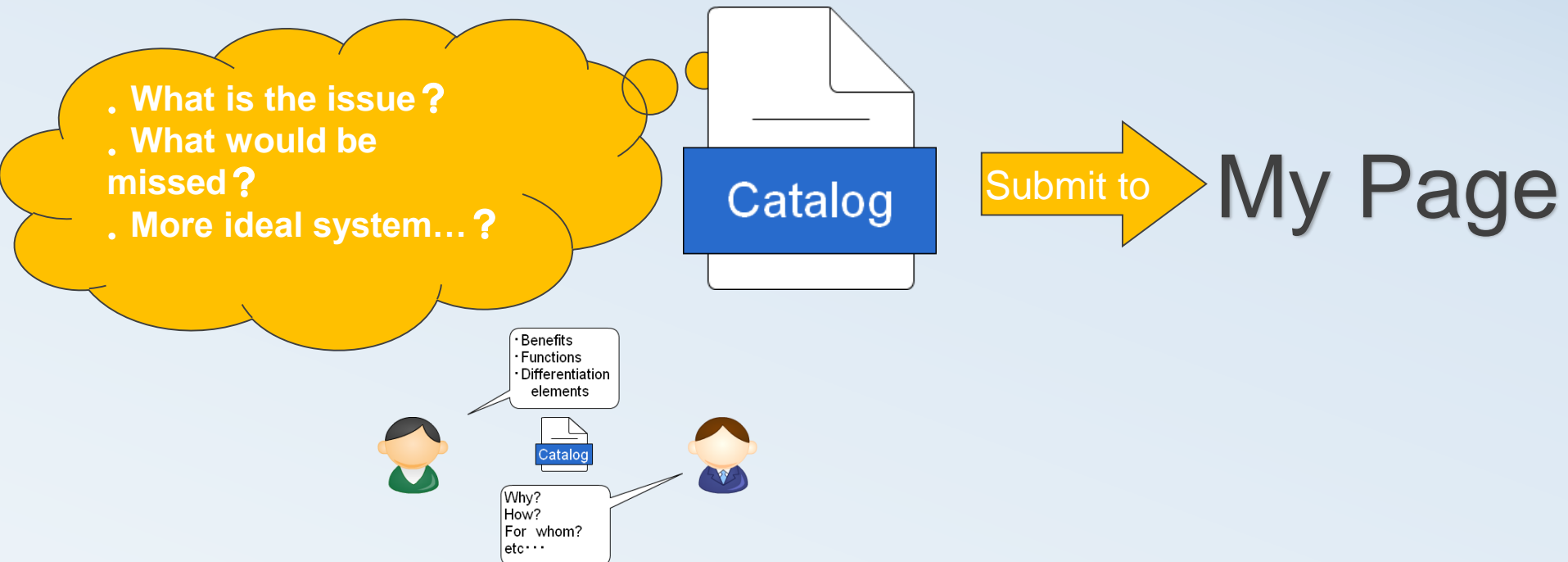


# Curriculum

## ● Day 1 Catalog Submission

Submit: Catalog+Improvement Record

Deadline: 4:30pm today



# Curriculum

- Day 1 Catalog Review Reservation

- Confirm your ID & mentor
- Follow the HR's instruction

# Curriculum

## ● Day 2 Catalog Review

-What are the problems?  
-What I missed for my software?



10 mins **presentation**

• Benefits  
• Functions  
• Differentiation elements



Why?  
How?  
For whom?  
etc...

**No concrete advice**



15 mins **Q & A**

# Curriculum

## ● Day 3 Implementation & Free Talk

- Make reservation for Free Talk
- Other than free talk focus on implementation

# Curriculum

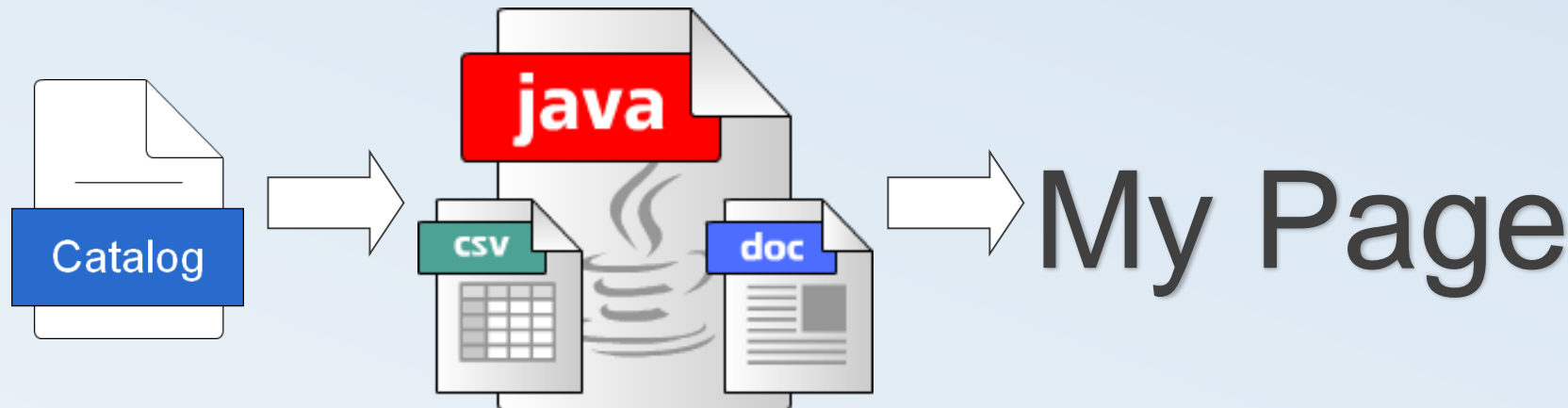
- Day 3 Standing Dinner Party

Talk and eat with other students  
Engineers in a relaxing environment.

# Curriculum

- Day 4 Final Submission & Demo Reservation

**Submit:** Source code, Data Files, Documents  
**Deadline:** **4:30pm**

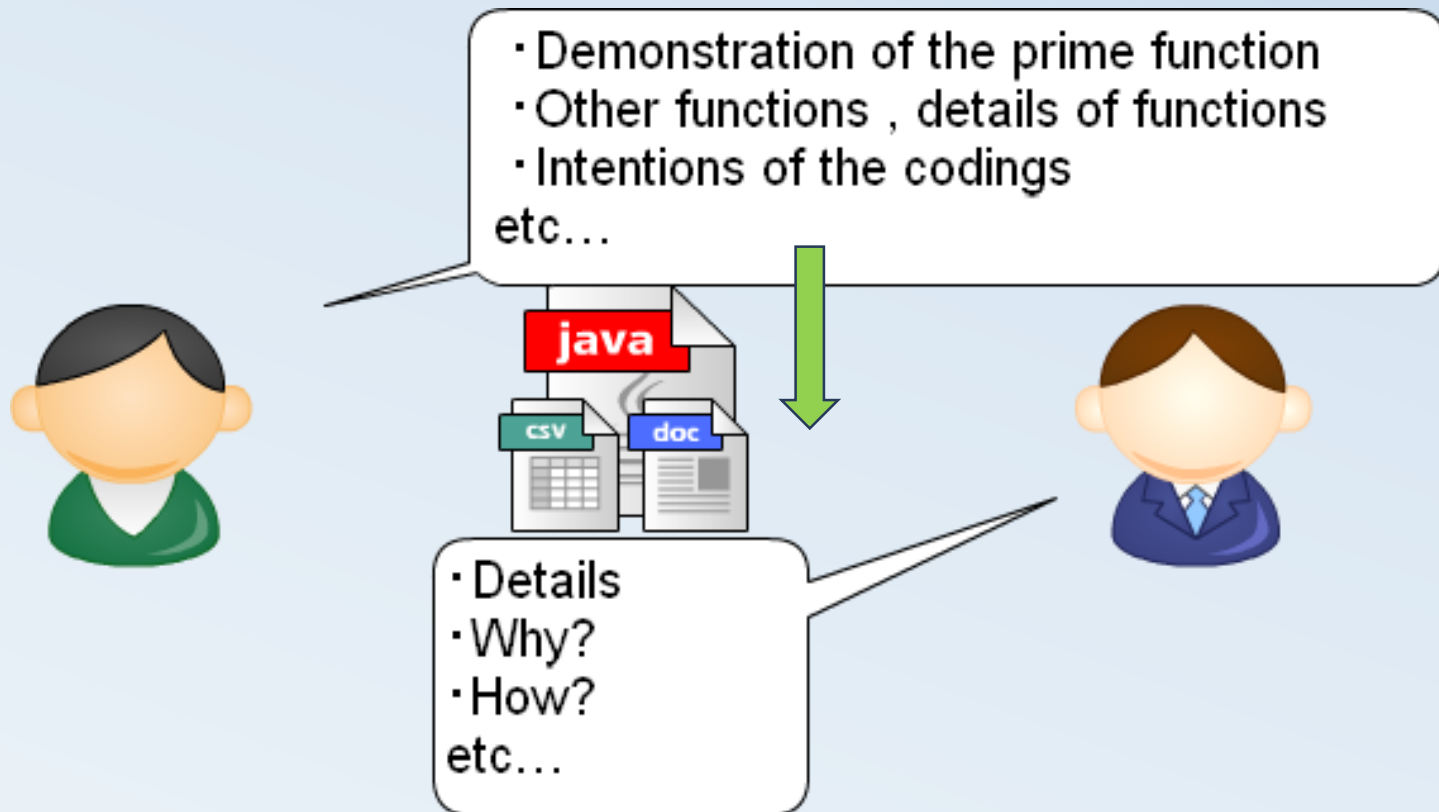




# Curriculum

## ● Day 5 Product Demonstration

(Twice/student)



# Curriculum

## ● Day 6 Hotel check-out & HR one on one

- Please check out the hotel before 12am
- Only for high evaluated candidates,  
There is one on one with HR

# **6. Mission**

**By 韩廷明**

# Make a fast food chain's management system

Individual project to show your **“Originality” & “Skill”**.

BOTH **“Product designing Skill”** & **“Programming Skill”** will be evaluated

# Evaluation during Internship

## ✂Product Designing Skill

⇒ Evaluated based on **Catalog, review** and **outputs** of your software

## Programming Skill

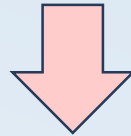
⇒ Evaluated based on your **source codes** and implemented **application software**

⇒ You have to **implement at least one** killer function.

# Mission of Internship

## Mission

Build an application software  
for “Fast food chain’s management”



Come up with a system that will realize the **ideal**  
work style of a fast food chain’s employee!

# Mission of Internship

## ① **Visualize the ideal (Business/Work process hypothesis)**↵

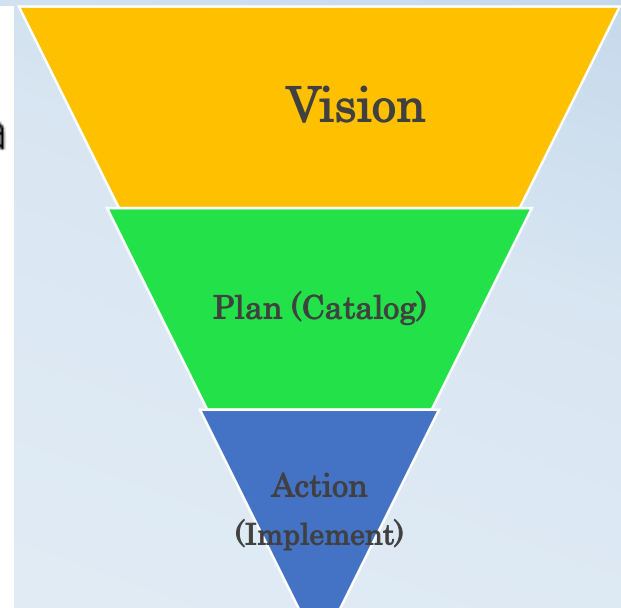
Picture a vision that can produce unreplaceable merits, and set a state/criteria (GOAL) to consider the achievement of the vision.↵

## ② **Plan for the goal (Catalog design)**↵

Create a plan to realize the goal, moving from vision to reality.↵

## ③ **Act on the plan (Implement)**↵

With your own strength as the core, act to realize the goal.↵



# Picture the ideal vision

How would you paint an “ideal,” in order to create a system that could produce overwhelming merits?

**Based on a thorough work process hypothesis, picture “how things should be.”**



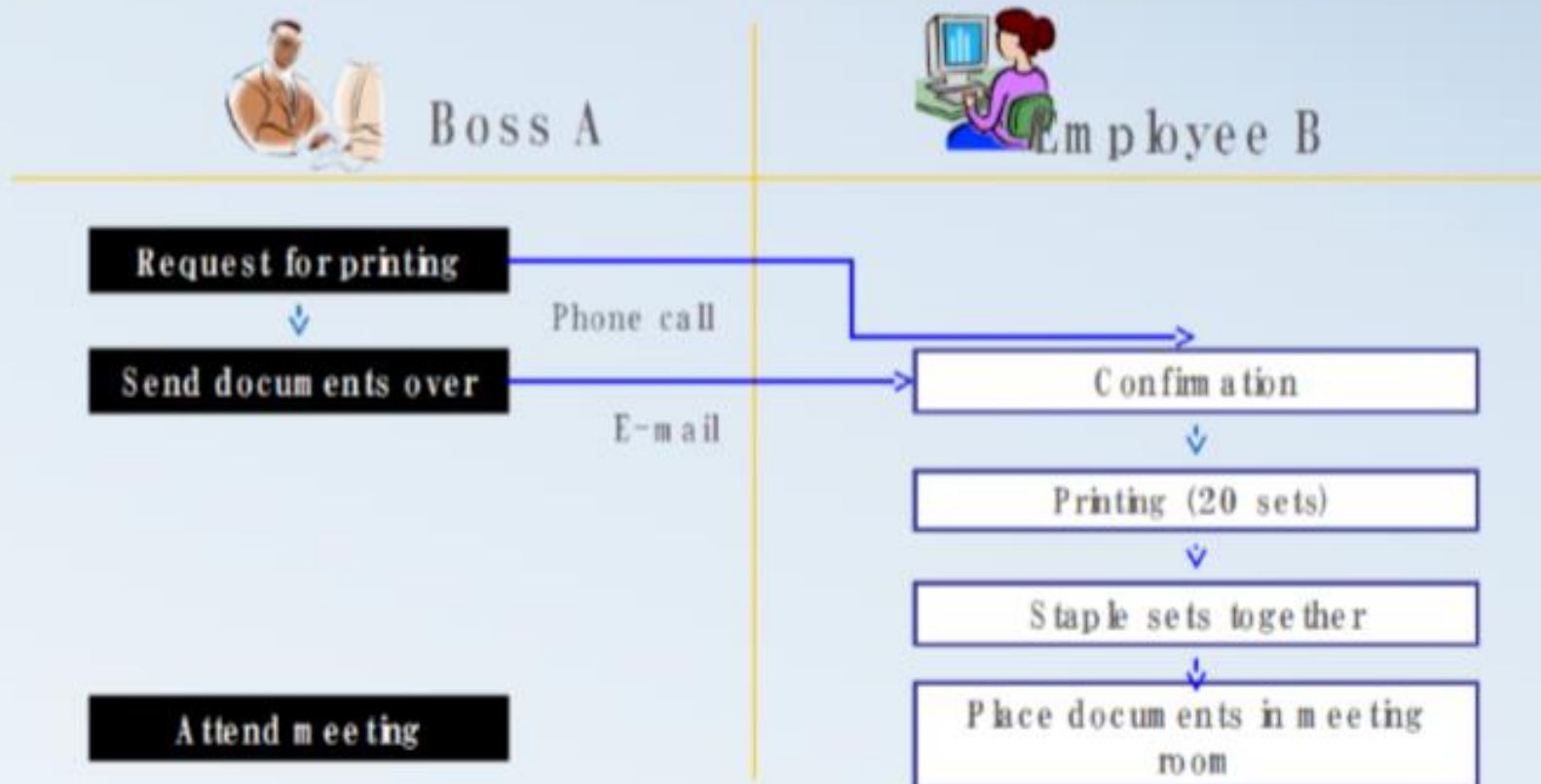
# What is work process hypothesis ?

What is a work process hypothesis?

- ① Investigate into the work process  
(Who/When/Where/What/How)
- ② Express what you have investigated into a “flow”  
(Instead of a “point,” the work process should be seen as a “line”)

# Work Flow Sample

E.g: B was asked by Boss A to make copies of a document.



# Think about the ideal

After forming your hypothesis about the work process, consider the “ideal” work process.

## 【Checkpoints】

- For who would this situation be ideal?
- What merits would this have, and for who?
- Would this have merits for everyone involved?
- Is this not an ideal that only satisfies one person?
- Is this not an illusion or daydream?

# Consider the gap between reality and the ideal

If you can visualize the ideal, you will begin to see the gap between that ideal and the current reality.

What is obstructing the ideal state from becoming reality?

What is the cause of the gap between the two?

What can we do to remove the gap?

**In order to realize the ideal, what can the system solve?**

# Conclusion

Form a hypothesis on the work process



Consider how the work process “should be”



Consider the obstruction (gap) to the ideal state



Consider the reasons for the gap



Consider the methods to realize the ideal



**Express this as a catalog (PLAN)**

Start with “Catalog”

What is “Catalog”?

# **6. Catalog Lecture**

**By 刘 星痕**



# What is the “Catalog”?

A “**proposal**” to explain to others why this system is necessary, in order to promote it.



To make the other person think “I want it”

It is necessary to tell the reader the merits,  
instead of the functions.



# What is the “Catalog”?

## **Proposal**

Clearly lays out detailed action plan that supports the proposal and its practical implementation. Writing includes details and information required for immediate implementation



## **Suggestion**

Based on current issues and survey material  
Moving towards a solution; writing offers ideas



## **Report**

Upon carrying out an assigned task, writing to convey the results

# Why lay out a catalog?

To produce a product after studying what systems are needed in the world, based on a product-out strategy.

To do that, laying out a catalog is useful in implementing and transmitting the product that you created.



# Catalog Lecture

## What is “Catalog” for WAP?



“First step” of WAP development process.

# About the Catalog Design Sheet

## Hypothesis on the current work process

In the catalog, describe the work process that your target audience is engaged in, and who is performing this work, **in a way that your reader can appreciate.**

## Present an ideal

Regarding the work process mentioned above, define what you think is the ideal situation and your reasons, **in a way that your reader can appreciate.**

## Gap between ideal and current reality

Describe what the gap between the abovementioned ideal and the current reality is, **in a way that your reader can appreciate.**

## Present a solution

Present the solutions required to move the current reality closer to the ideal, **in a way that your reader can appreciate.**



# About the Catalog Design Sheet

## Product concept

What sort of concept is the product that you are designing based on?

**Expressed concisely**, what sort of merits can your product offer?

## Outline of merits

What sort of merits will the user gain from using that product?

Along with that, state the functions that allow for these merits to arise.

※Instead of “because there is this function, the merit is produced,” write in a way that expresses “in order to offer this merit, there is this function.” (Merit-based)

## Important things when writing the catalog

### Highlight the functions that produce the merits.

“What are the essential things that the user is looking for?”

“In order to satisfy them, what do they need to be able to do?  
What sort of merits do we need to offer?”

On top of thoroughly thinking through these questions,  
write out the functions that are necessary for this in  
your catalog.



# Why lay out a catalog?

## A catalog is a tool to express your plan

A catalog is not a tool to organize your thoughts. Instead of just writing out your thoughts as they come, upon organizing your thoughts in your own way in your head, express them as a final output, in a way that will get across to your readers.

## Not over-emphasizing the format

Try not to get too caught up with the things that included as part of the format- always focus on the essentials and the ideal.

## Write out everything you have thought through

Without faulting others, or your ability or time, hypothesize the ideal from the beginning, and write out everything that you have thought out: the hypothesized functions, the functions you want to make, functions that you should make, etc.

## Attach an order of priority/importance

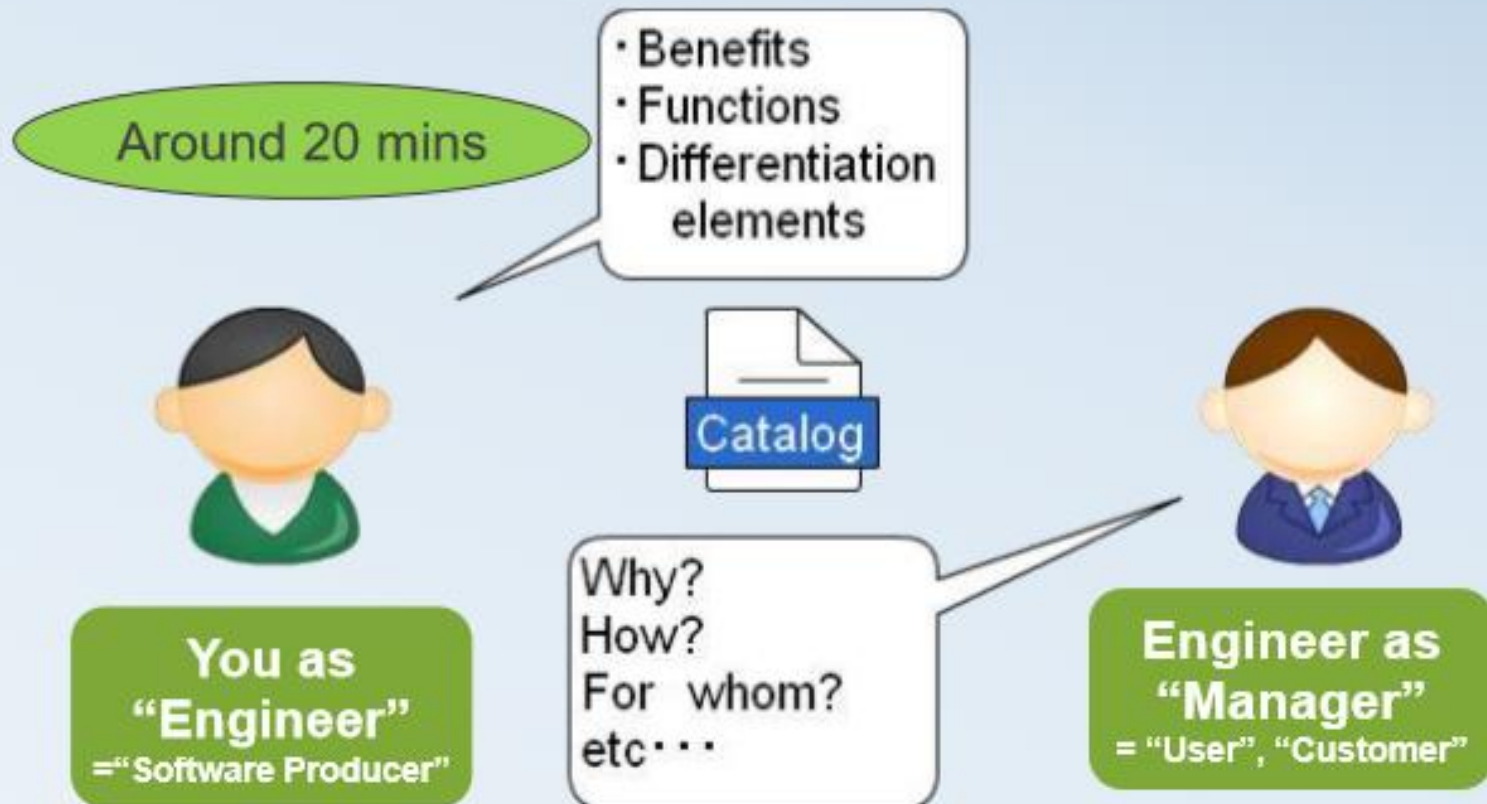
The things that you have thought of are not always in order of priority/importance. Consider what is necessary to achieve the goal, and attach to them an order of priority/importance.

# Conclusion

Innovation is not something that you just hit upon-  
It is important to constantly think with your own  
mind.



# “Catalog” Review



# “Catalog” Review



## Given

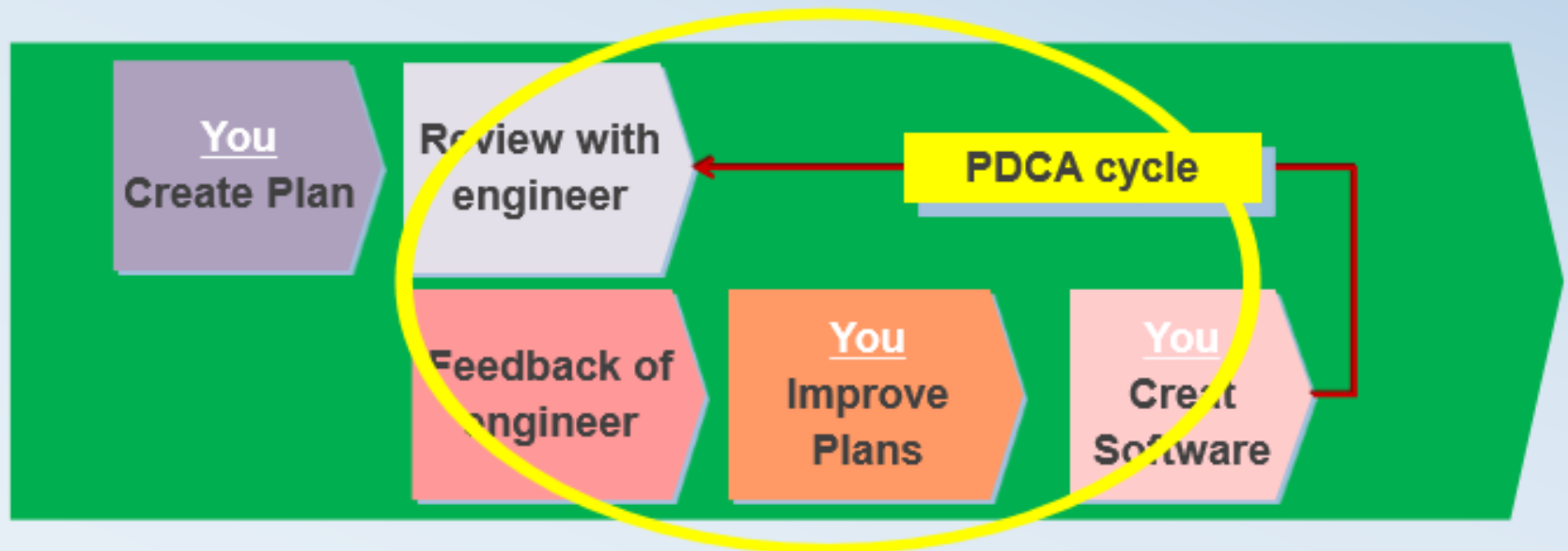
- Specific advice
  - Concrete suggestions
- by a reviewer



## Realize

- Problems
  - Missing points
- by yourself

# **“Catalog” Review**



**Improve “Catalog” based on PDCA**