

Team: T1

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Summary (OOAD vs. SASD)

Summary (09 Spring Summary)

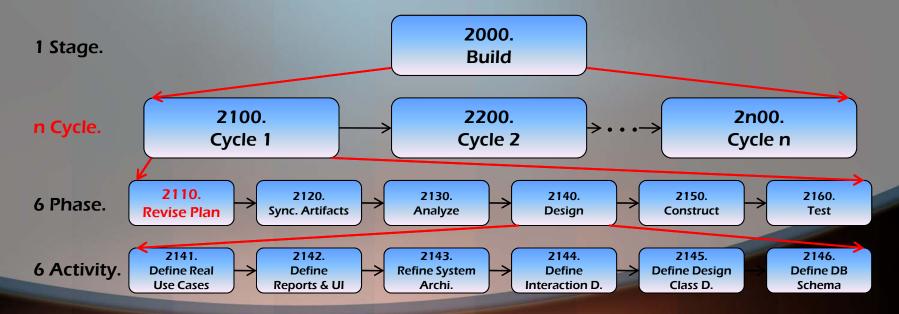
1. MODELING ORDER

Modeling Order (OOAD)

- OOAD
 - OOAD have big 3 stages. 1000, 2000, 3000

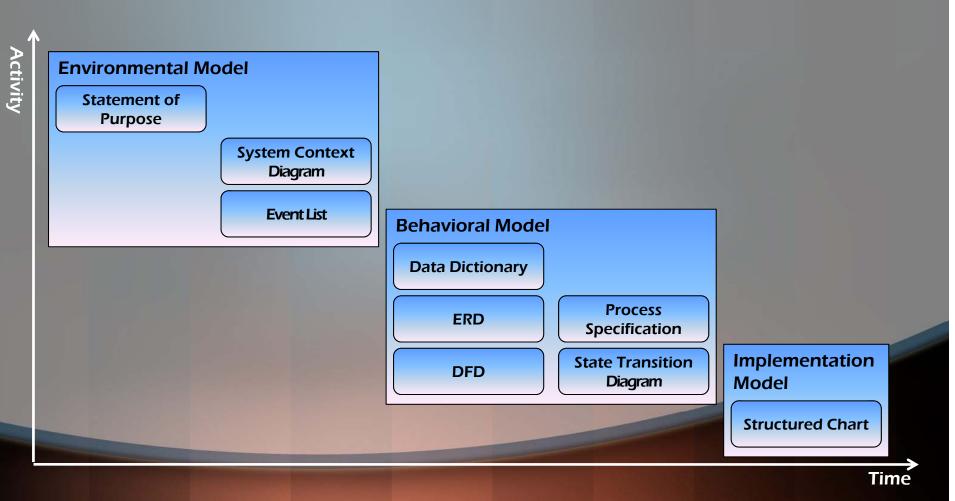


- And each big stages has smaller stages and Iteration and Revise each Level
 - Ex) 2000. Build stage have many Cycles, and Each cycle have Phases and Each Phase have Activities



Modeling Order (SASD)

- SASD
 - SASD have many Models, and Each Models have several stages.
 - It is similar with OOAD, but SASD not Iteration and Revise each Level



Modeling Order (Compare)

Similar

- OOAD and SASD have many level for Software Modeling and Analysis.
- And Modeler must be low through the steps to the next is going to s tep

Differences

- OOAD have iteration each stage, Iteration in the Modeling reduces errors and mistakes. In the worst case of OOAD to the beginning of each stage is when you get back or go next cycle and excute revise.
- In the worst case from the beginning to the SASD will be required to re-modeling.

2. FOR USERS

For Users (OOAD)

OOAD

- Use Cases of the OOAD to create the default user and should be investigated for the event. And it will start based on modeling.
- OOAD uses Use cases that obtained from the user and the event list from system
 - Ex) First Use Case in ERS OOAD

Use Case	1. Reservation
Actor	Admin, Guest
Purpose	Enter information in the system
Overview	To use the elevator, enter the information will be essential.
Туре	Primary
Cross Reference	System Functions: R1.1, R1.2, R12.1 Use Case: "Reservation", "Cancel", "Login Admin"
Pre-Requisites	None
	(A) : Actor, (S) : System
Typical Courses of Events	 (A) Actor input Guest.goal to system. (S) Compare ctrl_pannel.max_floor and Guest.goal (S) If Guest.goal is on domain of ctrl_pannel.max_floor, Guest.goall save in ctrl_pannel.goal
Alternative Courses of Events	N/A
Exceptional Courses of Events	Line 1: If Guest.goal is not on domain of ctrl_pannel.max_floor, Print out error message to LCD

For Users (SASD)

SASD

- SASD is modeling use mainly Process in systems data.
- Process input data, a series of operations to produce the output data is a process.
 - Ex) SASD Process Specification 1.9

Reference No.	1.9
Name	Admin input data calculator
Input	Admin data
Output	Setting value
Process Description	Char형의 Admin data를 관리자모드 접속과 환경 설정(초과무게, 층수 제한)을 위한 값으로 Setting value로 저장한다. L정수: 관리자모드로 로그인시 비밀번호 값 W 정수: 최대 무게 설정 값 F 정수: 층 수 제한 값 위와 같은 3가지의 데이터 형태가 저장된다.

For Users (Compare)

- Similar
 - OOAD and SASD using Systems event and process for Modeling
- Differences
 - SASD have not mainly considered for users event.
 - Our Team think, When it implemented the program in SASD, At sometimes, some users who is use that program think this program is more discomfort than developed program for OOAD.

3. FOR MODELER AND PROGRAMMER

For Modeler and Programmer 1(OOAD)

OOAD

- OOAD, for develop program use for Object Oriented Programming Language(ex. C++, JAVA, C#, ..., etc)
- Object is party of behaviors and types.

ctrl_panel

- In OOAD make Class diagram for create and use object.
- OOAD is searching objects and represents the relationship between objects for developing program.

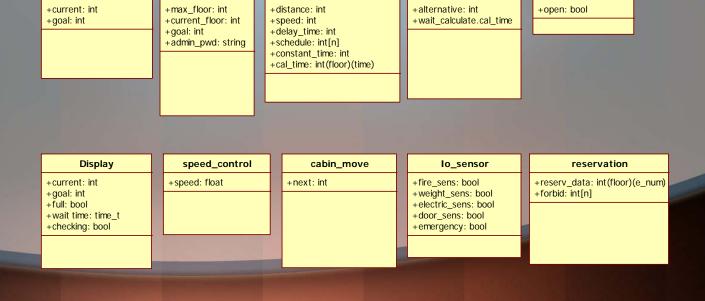
allocate

door

wait_calculate

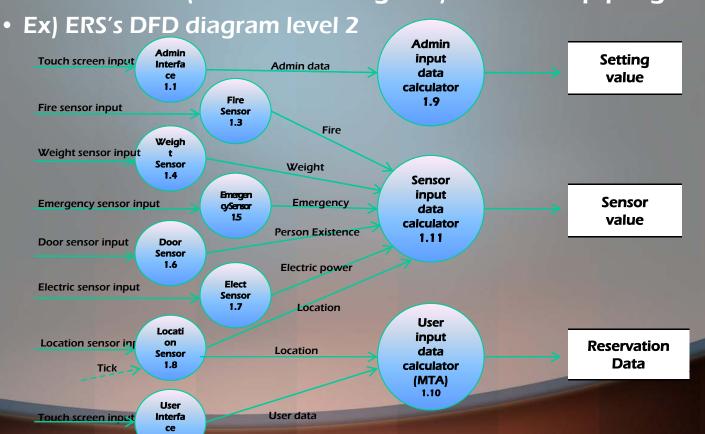
• Ex) ERS's Class's skeleton

Guest



For Modeler and Programmer 1(SASD)

- SASD
 - SASD, for develop program use for Structured Programming Language (ex. C, ..., etc)
 - Use process for make function
 - SASD make DFD(Data Flow Diagram) for develop program



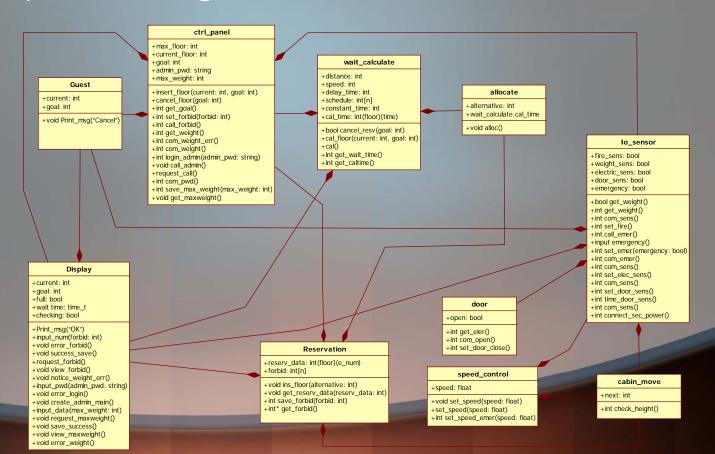
For Modeler and Programmer 1 (Comp.)

Differences

- OOAD Modeler find object and OOAD Programmer is use object for develop program.
- SASD Modeler find process and SASD Programmer is use process for develop program.
- What the difference is that during the two can not do better.
- But it is important for modeler and programmer. Because some system
 is more easily develop for SASD. Another some system is more easi
 ly develop for OOAD.
- Example, ERS is more simple and more easily understand in SASD.
- In case of embedded system(ex. ERS) have more simple structure than n PC software, because SASD is more fit. And no need to encapsulat e too.
- In case of PC software is more complex and have more data than embedded system because OOAD is more fit. And need to encapsulate for secure data from another object.
- Because, Modeler and Programmer should choose method carefully.

For Modeler and Programmer 2(OOAD)

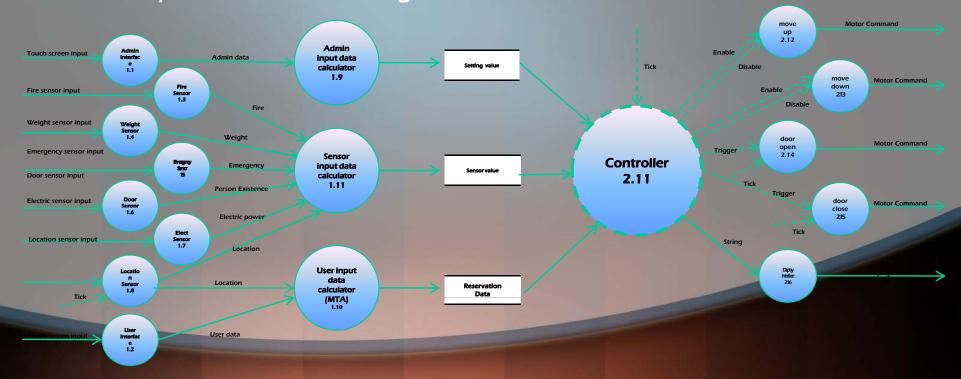
- OOAD
 - Object oriented is more difficult understand for programmer than structured.
 - And class diagram is more and more complexity in bigger software.
 - Ex) ERS's class diagram



For Modeler and Programmer 2(SASD)

SASD

- Structured programming is very simple
- And programmer is easy for understand and for develop
- SASD's DFD so simply view the data input, processing and data output.
- Shows the system to be intuitive.
 - Ex) ERS's Data Flow Diagram. Level. final



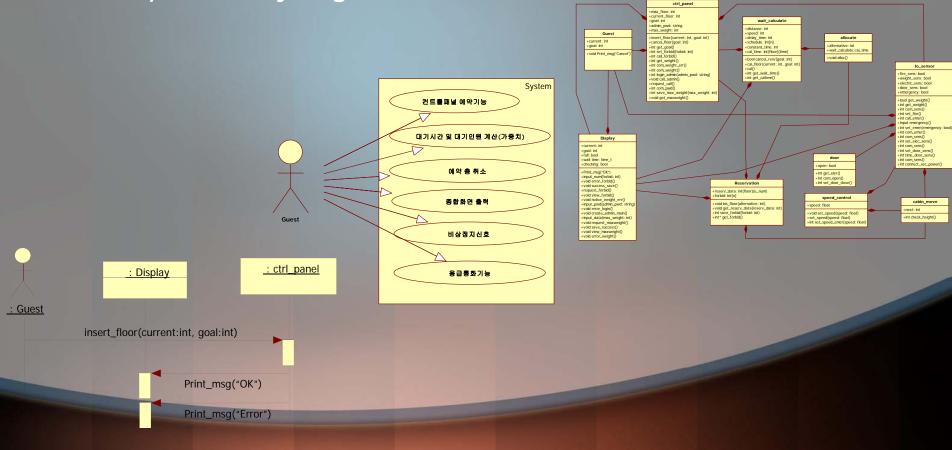
For Modeler and Programmer 2(Comp.)

Differences

- SASD is more simple and easy for understand and SASD view intuitive system
- Because programmer more quick and easy develop software.
- OOAD is more complex and hard for understand.
- And understand concept of object is hard for programmer.
- Because programmer is more feel the burden.
- But programmer exactly understand of concept of object, who can more complex software development.

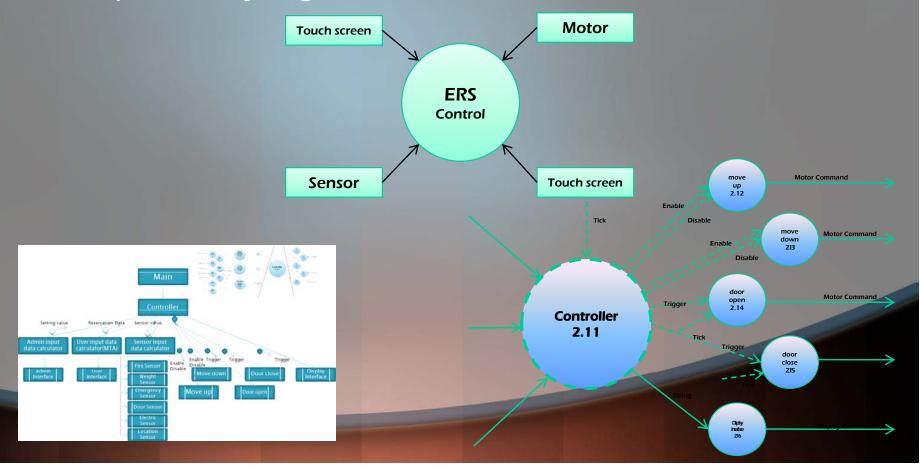
For Modeler and Programmer 3(OOAD)

- OOAD
 - OOAD have official Standard.
 - In OOAD Modeler use Modeling language for UML
 - And Modeler use tools for UML(ex. Star UML, RUP..., etc)
 - Ex) ERS's many diagrams for UML



For Modeler and Programmer 3(SASD)

- SASD
 - SASD does not have official Standard.
 - In SASD use some promised notation that is suggested someone's the esis
 - Ex) ERS's many diagram and charts



For Modeler and Programmer 3(Comp.)

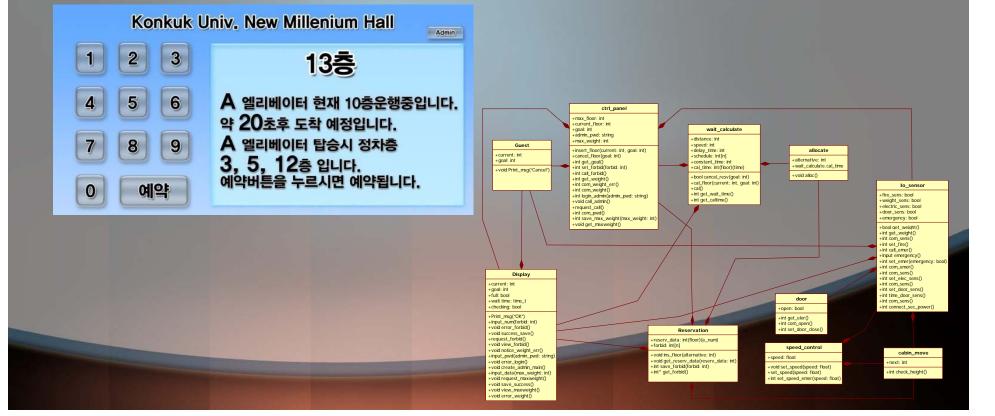
Differences

- OOAD have official Standard.
- SASD does not have official standard.
- In OOAD Modeler and programmer not should be promised in advance.
- But in SASD Modeler and programmer should be promised in advance what notation use for expression.
- If Modeler and programmer has not promised in advance that cause confusion to the modeler, and programmer.
- And that cause need more time for develop software.

For Modeler and Programmer 4(OOAD)

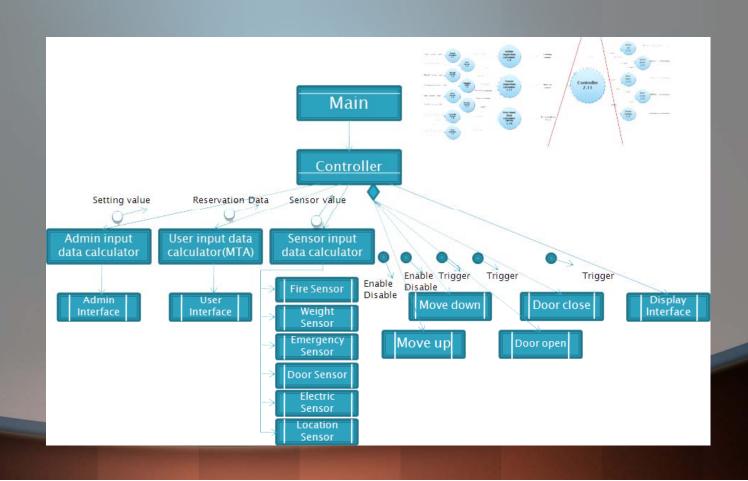
OOAD

- OOAD make the UI prototype and class skeleton(function and varia ble)
- Therefore Programmer is a little more quality detail to enable programming to attract.
 - Ex) ERS's UI prototype and Class diagram



For Modeler and Programmer 4(SASD)

- SASD
 - SASD is provides an abstract model.
 - Therefore, SASD is dependent on the programmer rather than the modeler.



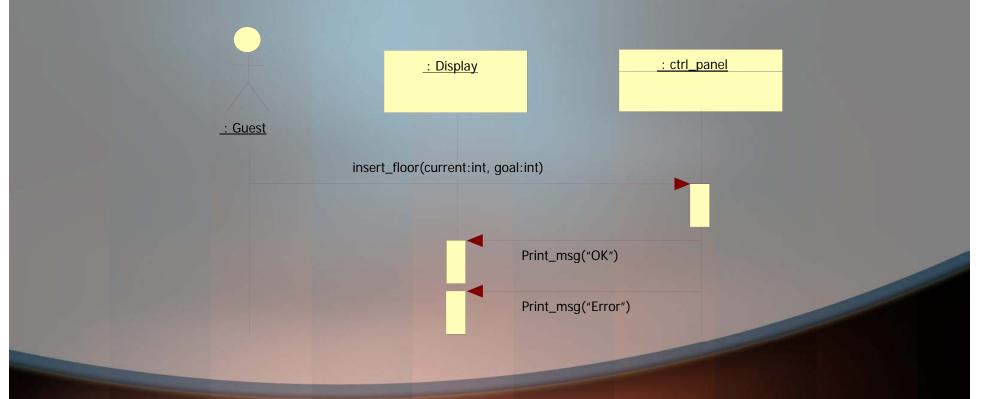
For Modeler and Programmer 4(Comp.)

Differences

- OOAD model is more quality detail model for real cording.
- SASD model is more abstract model for real cording.
- Therefore, OOAD is provides a significant convenience to the programmer.
- And SASD is dependent on the programmer rather than the modele
 r. (In the past, The role of a programmer and was responsible to the modeler.)
- because SASD is more costly for real cording step.

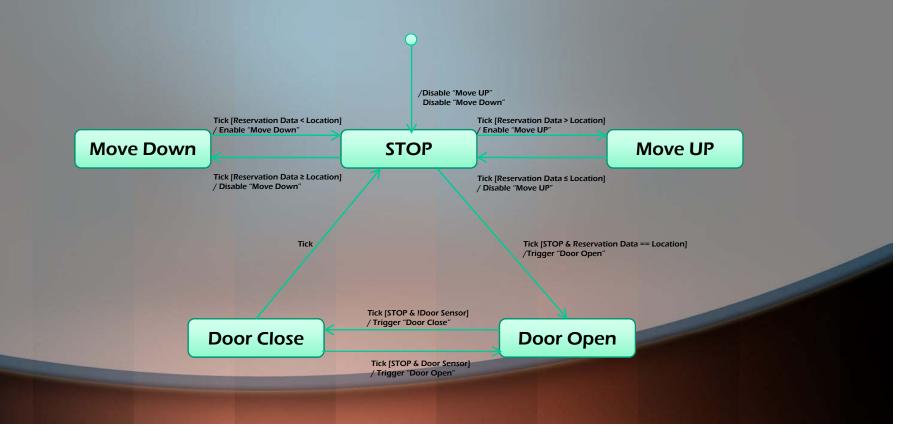
For Modeler and Programmer 5(OOAD)

- OOAD
 - OOAD is provides interaction each class
 - It is not provides system state.
 - It considered Event from user or system
 - Ex) ERS's Interaction Diagram



For Modeler and Programmer 5(SASD)

- SASD
 - SASD is provides system's state.
 - It considered system's state.
 - It is more easily understand system internal state for programmer.
 - Ex) ERS's controller state



For Modeler and Programmer 5(Comp.)

Differences

- SASD is provides System state diagram.
- OOAD is provides interaction class diagram.
- SASD is more quality situation for the system's many event.
- OOAD is more quality situation for the program in one event.
- See at a glance the System's internal situation, SASD is good.
- To see how functions works internally, OOAD is good.

4. FOR CEO

For CEO (OOAD)

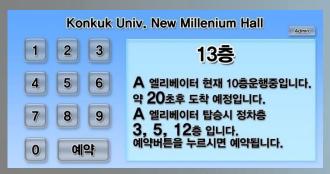
OOAD

- In OOAD presentation, CEO can see prototype for software.
- And CEO can see develop time.
- And CEO can see risk, market and environment.
 - Ex) ERS's Risk management and Scheduling

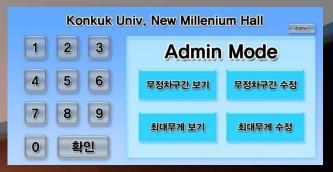
Risk	Probability	Significance	Weight									
First Adoption of OSP	4	4	16									
Lack of elevator Knowledge	4	5	20									
Lack of OO Experience	3	4	12									
Lack of Tool skill	3	3	9									
Lack of C++	2	4	8									
Lack of UML	2	4	8									
Lack of Database	2	3	6	72 0 B	기군 시작날자 원료날자	Mar 15		Mar 22 M	Mar 22 Mar 29	Mar 22 Mar 29 Apr 05	Mar 22 Mar 29 Apr 05 Apr 12	Mar 22 Mar 25 Apr 05 Apr 12 Apr 19 • Fri Mont Tito Sat Mod Sat Tot Fri Mont Fito Sut • Fri Mont Tito Sat Mod Sat Tot Fri Mont Fito Sut • Fri Mont Tito Sat Mod Sat Tot Fri Mont Fito Sut • Fri Mont Tito Sat Mod Sat Tot Fri Mont Fito Sut • Fri Mont Tito Sat Mod Sat Tot Tot
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For CEO (OOAD cont'd)

- OOAD(cont'd)
 - In OOAD CEO can see UI and Storyboard
 - Ex) ERS UI and some Storyboards

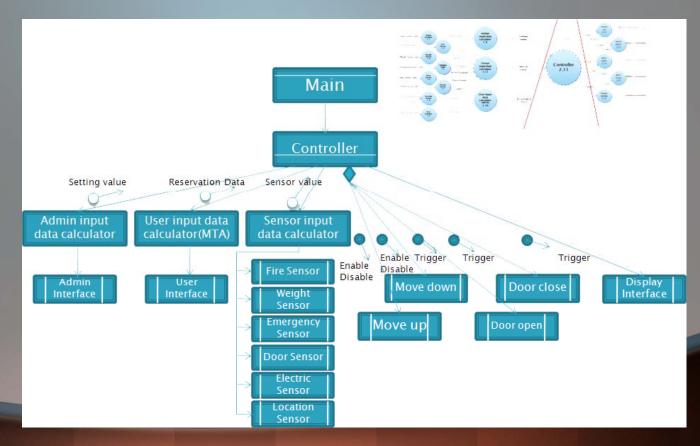






For CEO (SASD)

- SASD
 - In SASD have not any for audience(CEO)
 - And if audience(CEO) have not any knowledge of programming, audience(CEO) is not understand any contents of SASD
 - Ex) ERS's Structured Chart



For CEO (Compare)

Difference

- OOAD have course of UI, Storyboard, Risk and Environment.
- This course is more easy understand than another course for CEO
- Because CEO is The program development and investment decisions can be expected.
- But SASD is need to knowledge of programming or SASD.
- Audience(CEO) who have not any knowledge of programming and SASD, is not understand any part of SASD presentation
- That will cause difficult of investment for development.

5. SUMMARY (09 SPRING SUMMARY)

Summary (OOAD vs. SASD)

- OOAD vs. SASD Summary
 - We think OOAD have many advantages in Software Modeling and Analysis than SASD.
 - But OOAD is not good about all part than SASD.
 - OOAD is more systematic and easily for presentation another people than SASD.
 - And OOAD and SASD's different is more focus on where to focus.
 - OOAD focus to support many people(CEO, Programmer, Modeler, Presentation audience)
 - But SASD focus to support some people(Programmer, Modeler)
 - Because OOAD is developed later than SASD. Thus OOAD looks like better than SASD.

Summary (09 Spring summary)

- 09 Spring Summary
 - OOAD and SASD are method of architect of software development.
 - Each method is very different many part.
 - The difference is that the development of programming language th at is thought to be associated with.
 - And, Each method association that I think that time will be developed.
 - In 2009 spring, T1 use each method for develop ERS.
 - First we have many problem for prepare OOAD 1st presentation, ne w tools should be used and forget how to start coding to the develo pment.
 - And, at prepare of OOAD 2nd presentation, We could prepare a little more comfortable.

Summary (09 Spring summary Cont'd)

- 09 Spring Summary(Cont'd)
 - And, at prepare SASD presentation, We had other problems that is o ur head fixed to OOAD.
 - But, After a little time, We were able to adapt gradually.
 - We use modeling for each method. And we said above several think about each method.
 - We said modeling order, for user, for modeler and programmer and for CEO.
 - Sometimes it is better to SASD, but sometime it is better to OOAD.
 - Through the experience of each method can be a better computer s cience engineer for software development.
 - Thank you.

Thank you for a semester.