

Controller Of the Remote Control Program

Computer Engineering Capstone Design

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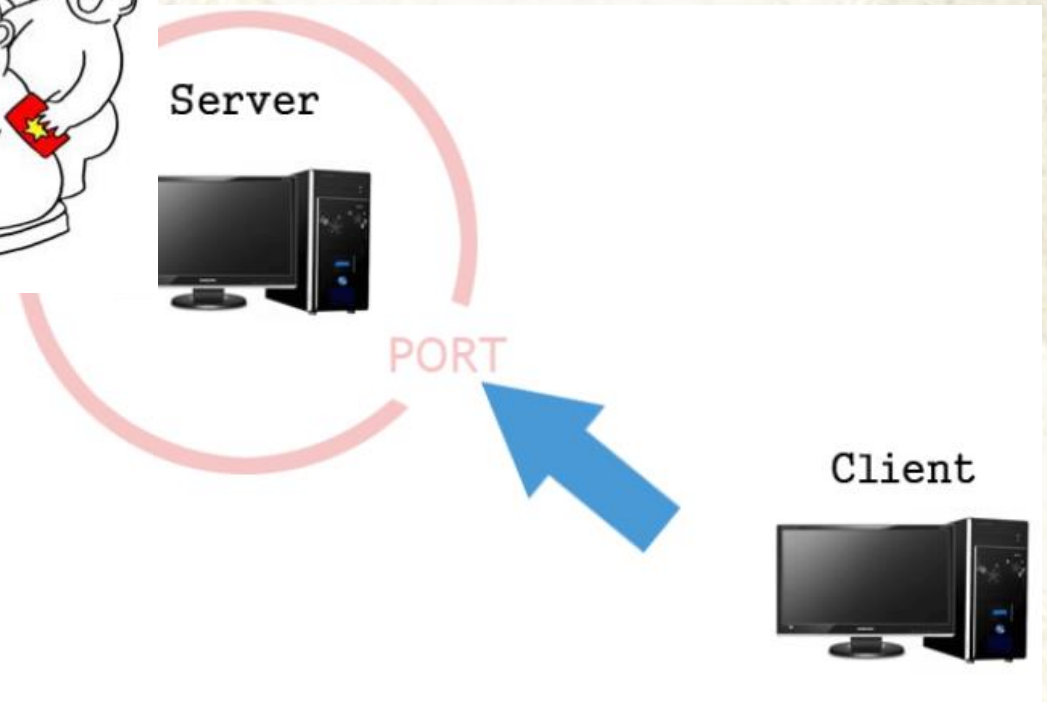
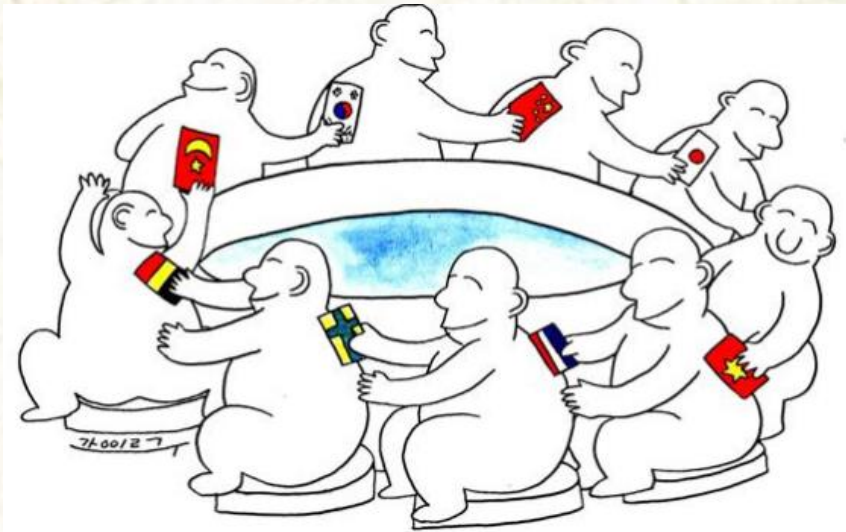
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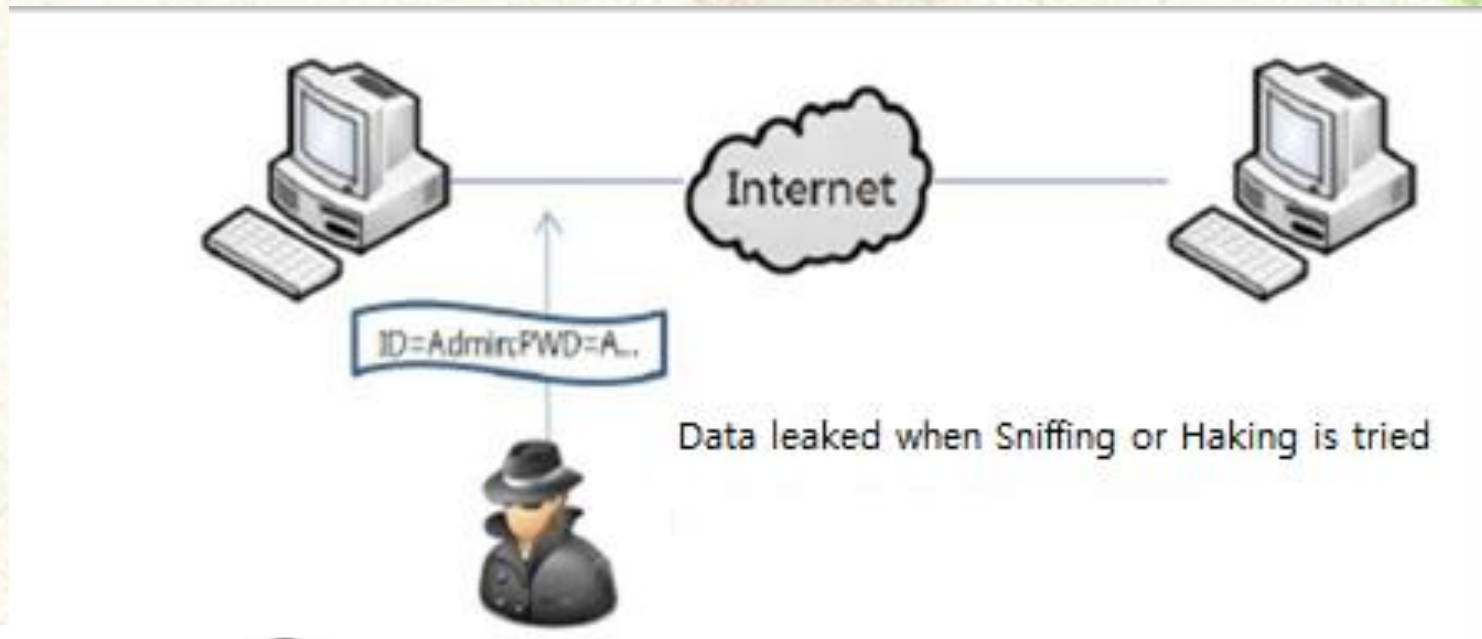
Introduction

1. Problem description
2. Design objectives
3. Technical trend
4. Team member

1. Problem description



2. Technical trend



Secure Socket Layer Encryption
AES Data Encryption
Multiple Password
Compatibility with the Secure Processes

3 .Design objectives



4. Team members

Name	Responsible for the field	Remarks
You-jung, Kim	<ul style="list-style-type: none">• Schedule management,• Project Design and Implementation,• Documentation of report	Team leader
Ji-woong, Seo	<ul style="list-style-type: none">• Project Design and Implementation,• Documentation of report• Research about Project Design	Leader of Design
Jeong-ho, Han	<ul style="list-style-type: none">• Project Design and Implementation,• Documentation of report,• Developing Tool Management	Leader of Implementation
Eun-jin, Seong	<ul style="list-style-type: none">• Report Management ,• Documentation of report and Proceedings	Leader of Report and Entertainment

Concept Design

1. Requirements analysis
2. Functional analysis
3. Concept Selection

1. Requirements analysis

- Be able to detect Viewer PC's executing program and to choose how to treat these trials

- When Viewer PC are detected, be able to send the notification to portable device which user registered before.

- Application has two functions
 - Keep a list of the protected programs
 - Be able to express the UI to choose whether the trials is Blocked or allowed

2. Functional analysis

<Running a program>

- Tray mode
- Alarm the remote control to the portable device app
- Security module

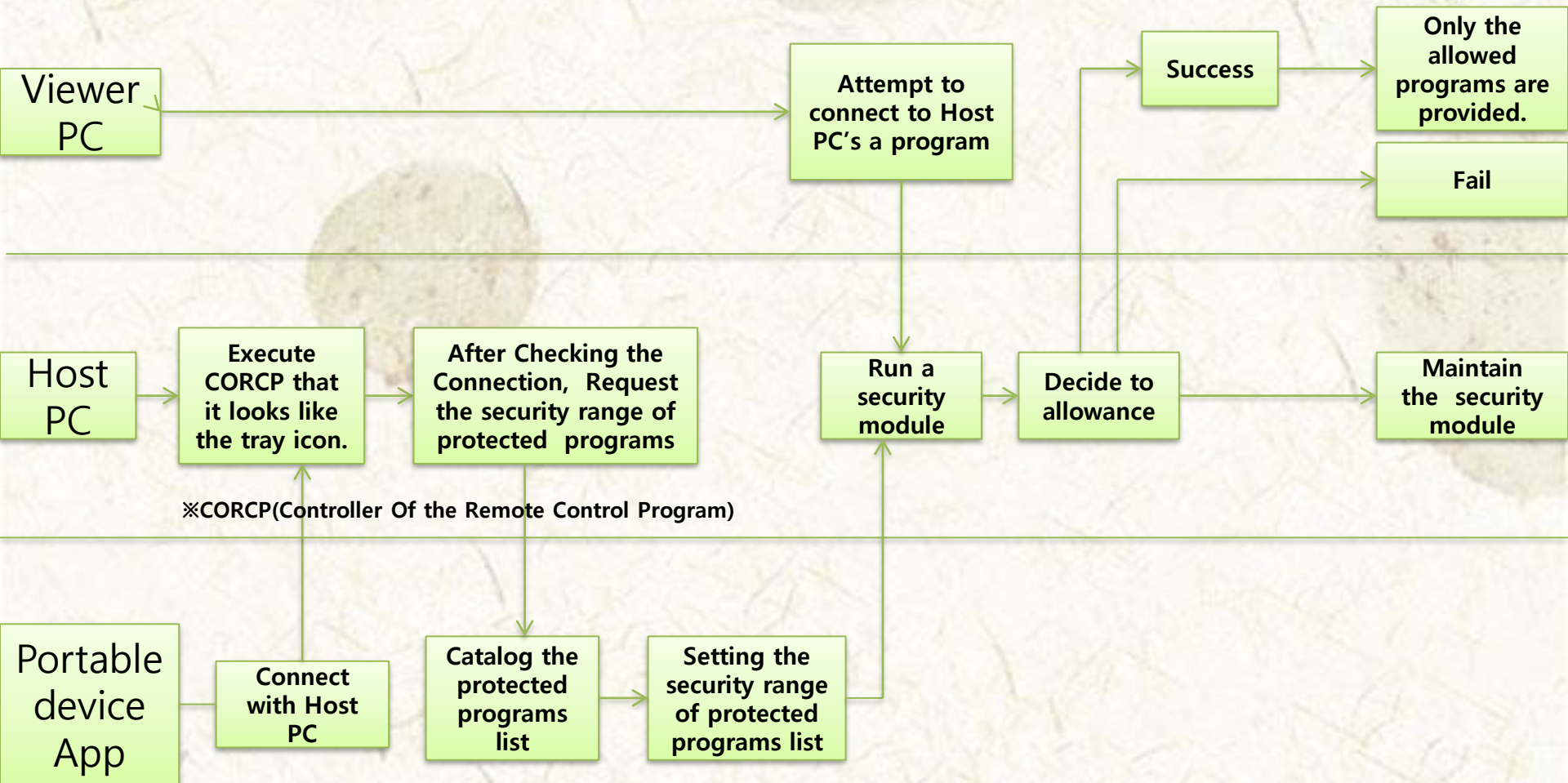
<Portable device>

- Register IP of Host PC
- Input Host PC's IP and save, maintains, the connection
- Alarm the remote control to Host PC
- Communication agent with Host PC

<Sets a program>

- At first, the default protected programs list
- Display a program list of Host PC
- Add and delete in protected programs list
- Keep programs in a protection list

3. Concept selection



Constraints

1. development environment
2. operation environment

1. Development environment

■ Development tool of Portable device App
- Android-SDK (Ver. 2.3) Eclipse

■ Host PC's control program Development tool
- Visual Studio 2010

■ Documentation
- Ms Office 2007, Hancom Office



2. Operation environment

Portable Device App

OS	The minimum memory capacity	CPU	Internet Network
Android ginger bread (Ver . 2.3)	100MB	Exynos4210 1.2GHz Dual Core CPU	HSPA+



Host PC

OS	The minimum memory capacity	CPU	Internet Network
windows 7	1GB	Intel Atom N2600	HSPA+



Implementation

1. Implementation method
2. Debugging Tool
3. Expected results

1. Implementation method



Eclipse, Android SDK ,Socket



Visual Studio 2010, MFC, Socket

2. Debugging Tool

Bounds Checker

- In code, checking errors within the Global, Static, stack and heap
- When an error occurs, provide the location where the errors occurs
- Find Memory Leak, Resource Leak

True Coverage

- Provide the execution of program analysis data
- Provide the data which classified according to whether to run
- By source code and function, provide the analysis data

True Time

- Provide the performance data of program
- By source code line, function, module provide performance analysis data
- Whether or not the system load, provides consistent performance data

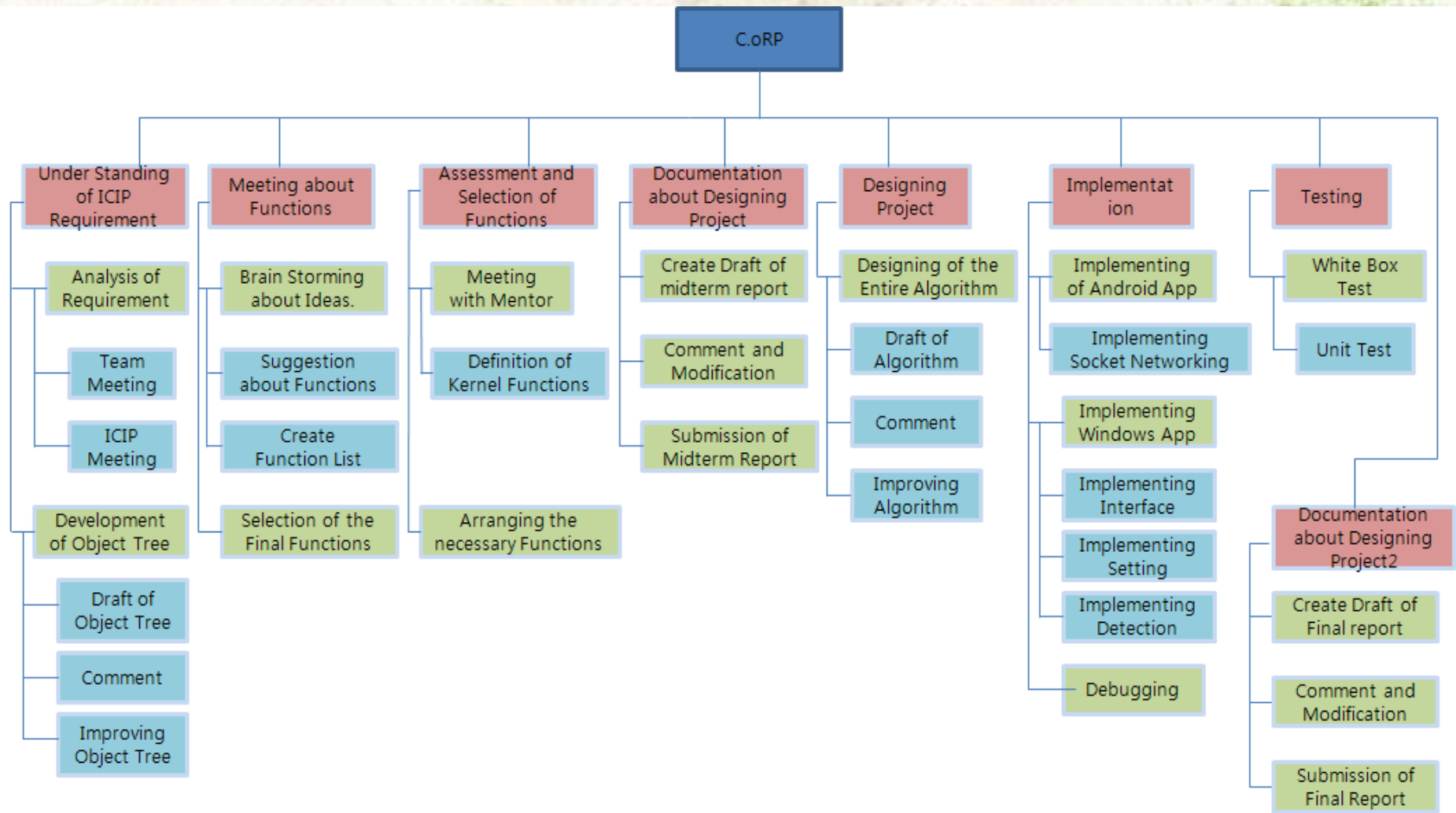
3. Expected results



Schedule

- 1. Work Breakdown Structure**
- 2. Schedule**
- 3. Future works**

1. Work Breakdown Structure



[illegible]

3. Future works

Hooking

- During Summer vacation study the basic knowledge about hooking
- From summer vacation to 2nd Semester begins hooking Implementation
- Debugging and Testing for Hooking

Intensified implementation

- Implementation the importance level of M in Technical report
- Implementation the importance level of L in Technical report
- Implementation the add technology which is derived in additional meeting

End Project

- Finish the implementation
- Create reports and PPT
- The end of the project

3. Future works





Conclusion

Conclusion

- The current remote control program has a possibility of information disclosure
- Development to prevent the expose of the other user's data

Main Target : Depending on the era of **Ubiquitous** flow, in order to overcome the physical limitations of the Web remote control program

- To **set the level of selective disclosure** and when the viewer pc try to open my important information, **blind the screen** to protect my information
- According to **Future Works**, summer vacation and Second semester will be conducted

The background is a textured, off-white surface resembling recycled paper, with numerous small, dark fibers visible. Scattered across the surface are several circular stains: a large, light brown stain in the upper center, a smaller brown stain to the left, a green stain in the upper right corner, and another brown stain in the lower right corner.

THANK YOU