QI Project

Team A

Document for 2018 summer IoT Project

# Table of Contents

## [1. Introduction](#_r6m4biy87xg) of Team A

1.1 Team Member List

1.2 Workspace

## [2.](#_kq52tp6crz4u) Reference Model

## 3[.](#_kq52tp6crz4u) System Architecture

## 4. ER Model

## 5[.](#_kq52tp6crz4u) Procedure

## 5[.1](#_nxpa35hf9gcx) User Management

## 5[.2](#_nxpa35hf9gcx) Sensor Management

## 5[.3](#_nxpa35hf9gcx) Data Management

## 5[.4 Data Monitoring](#_nxpa35hf9gcx)

## 6[.](#_kq52tp6crz4u) Flowchart

## 6[.1](#_nxpa35hf9gcx) User Management

## 6[.2](#_nxpa35hf9gcx) Sensor Management

## 6[.3](#_nxpa35hf9gcx) Data Management

## 6[.4 Data Monitoring](#_nxpa35hf9gcx)

## 

# 1. Introduction of Team A

## 1.1 Team Member List

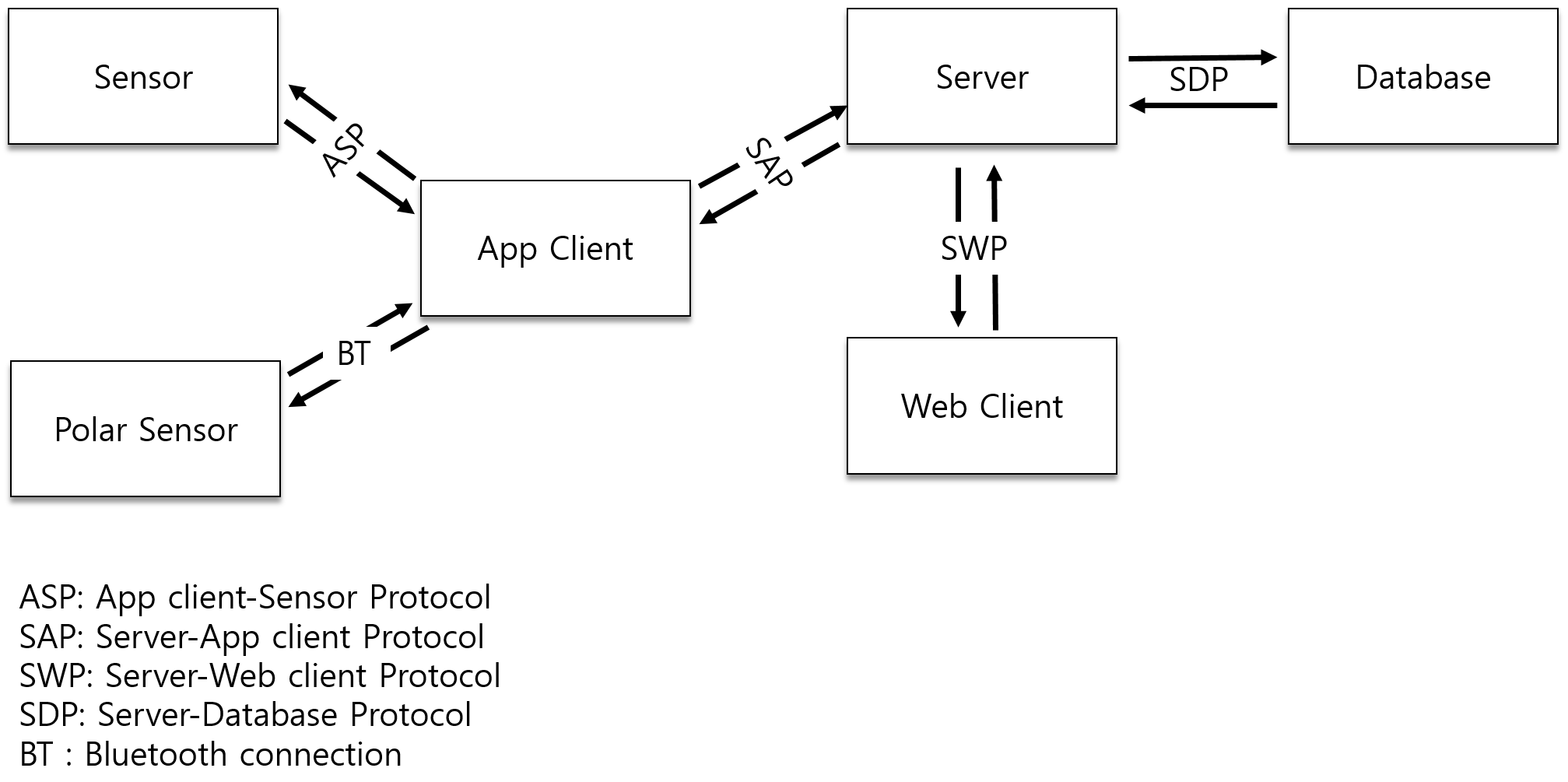
| Name | Affiliation | Part |
| --- | --- | --- |
| Joowon Byun | Pusan University | Web / Team Leader |
| Umji Choi (Wendy) | Keimyung University | Web |
| Doyoung Ha (James) | Keimyung University | App |
| Janghyeon Song (Jack) | Chosun University | App |
| Junho Suk (Juno) | Keimyung University | Sensor |

## 

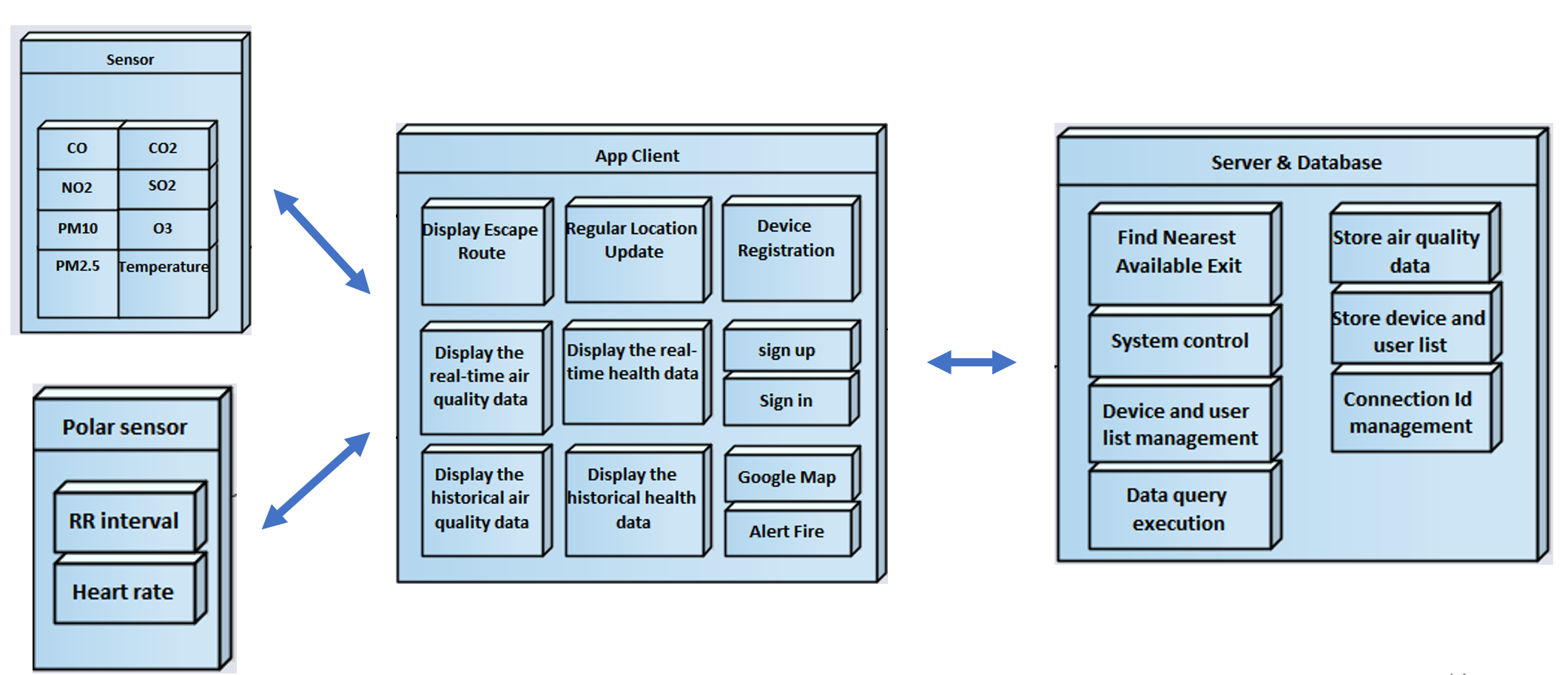
## 1.2 Workspace

* Server and Web Side : <https://github.com/Joowon0/BuildingRun_server>
* App Side : <https://github.com/Joowon0/BuildingRun>

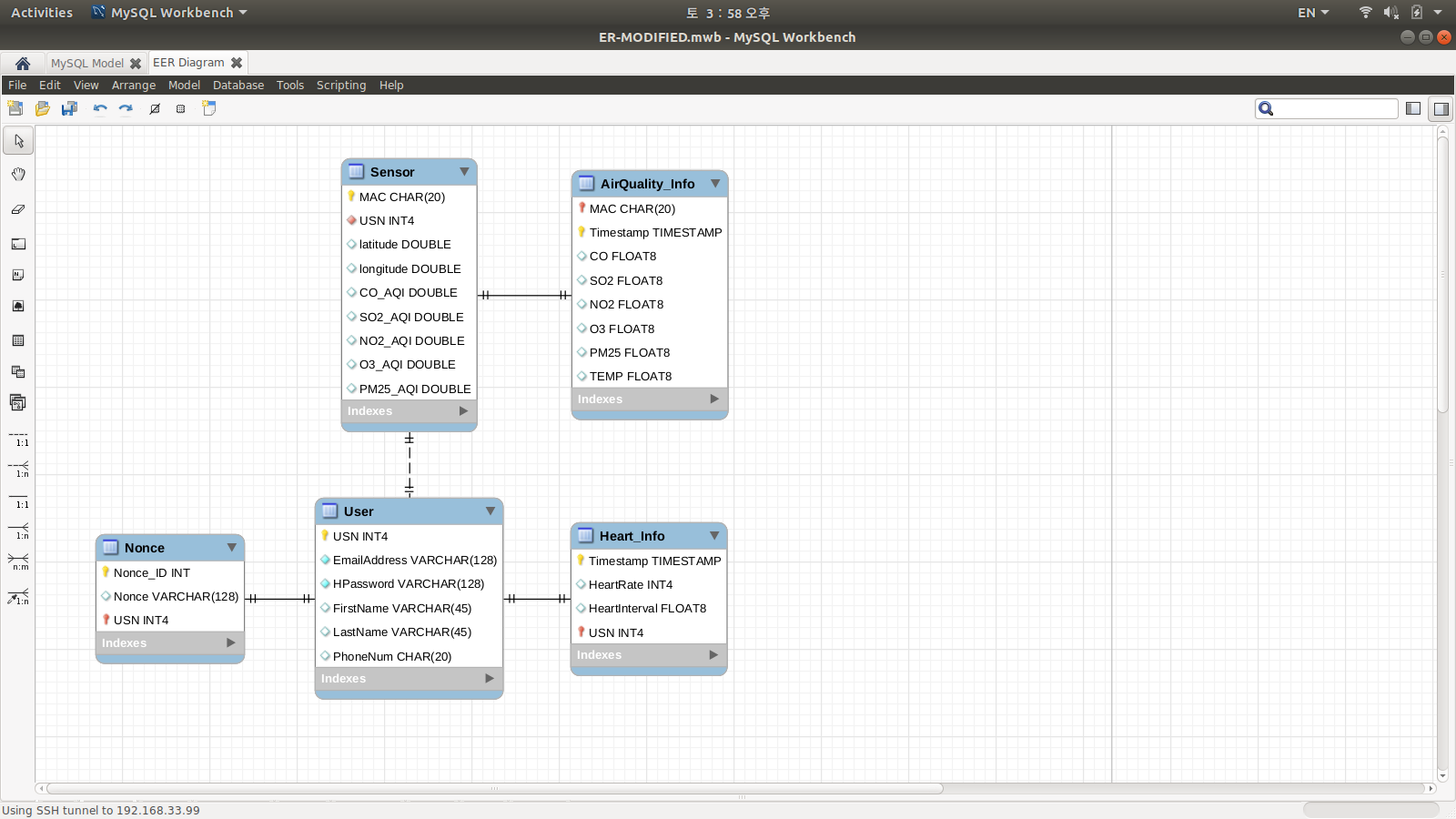
# [2.](#_kq52tp6crz4u) Reference Model



# 3[.](#_kq52tp6crz4u) System Architecture



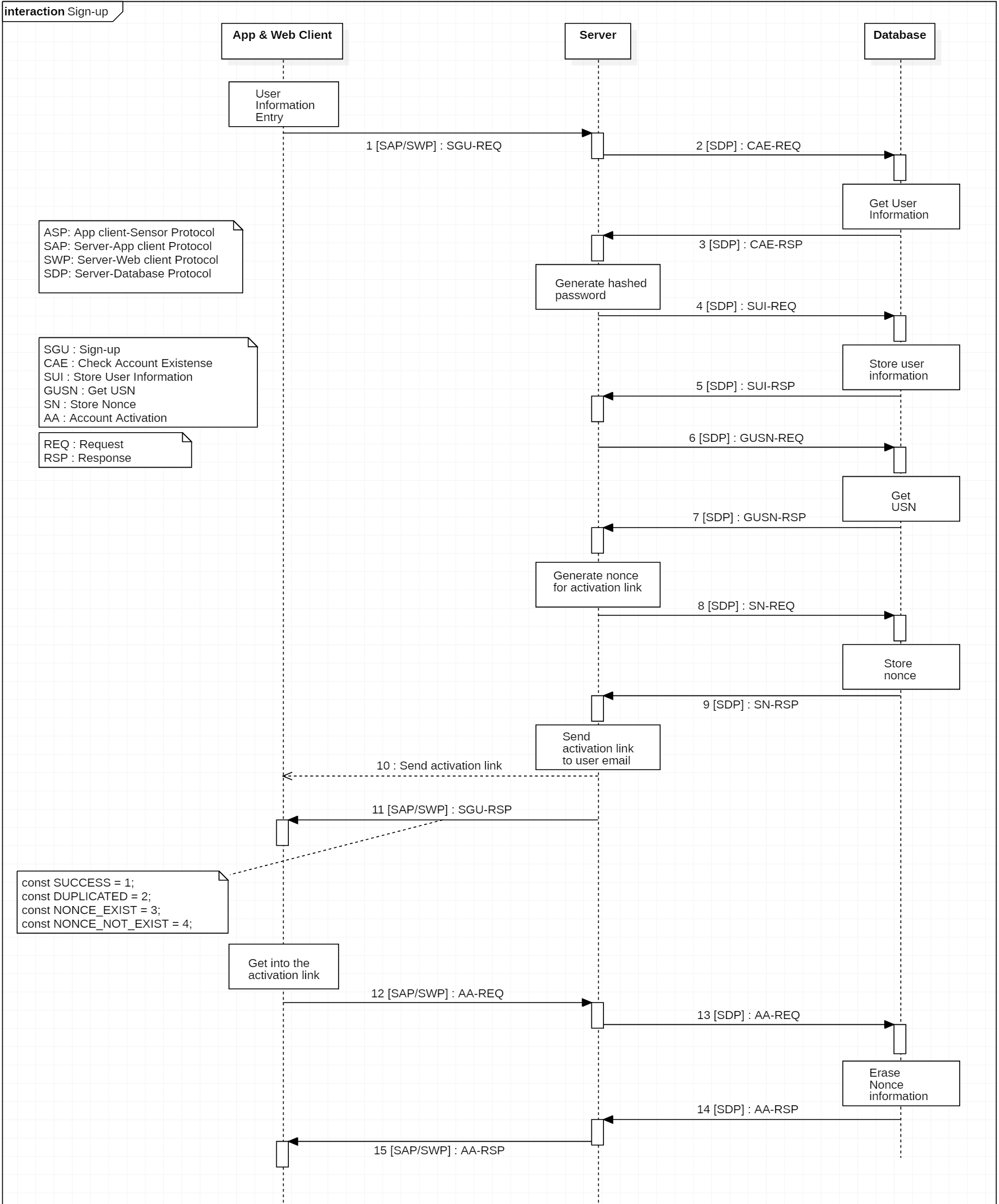
# 4. ER Model



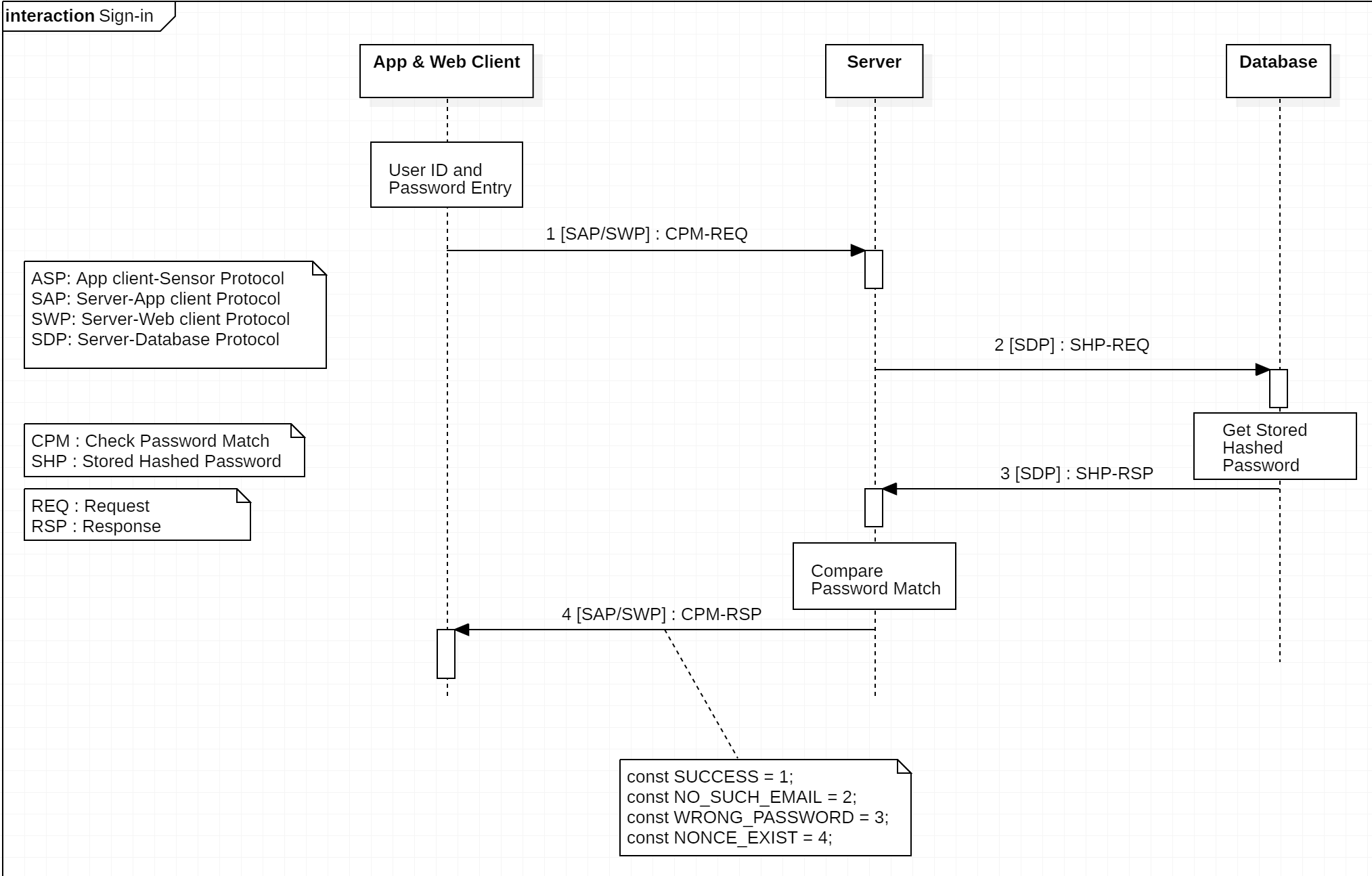
5[.](#_kq52tp6crz4u) Procedure

5[.1](#_nxpa35hf9gcx) User Management

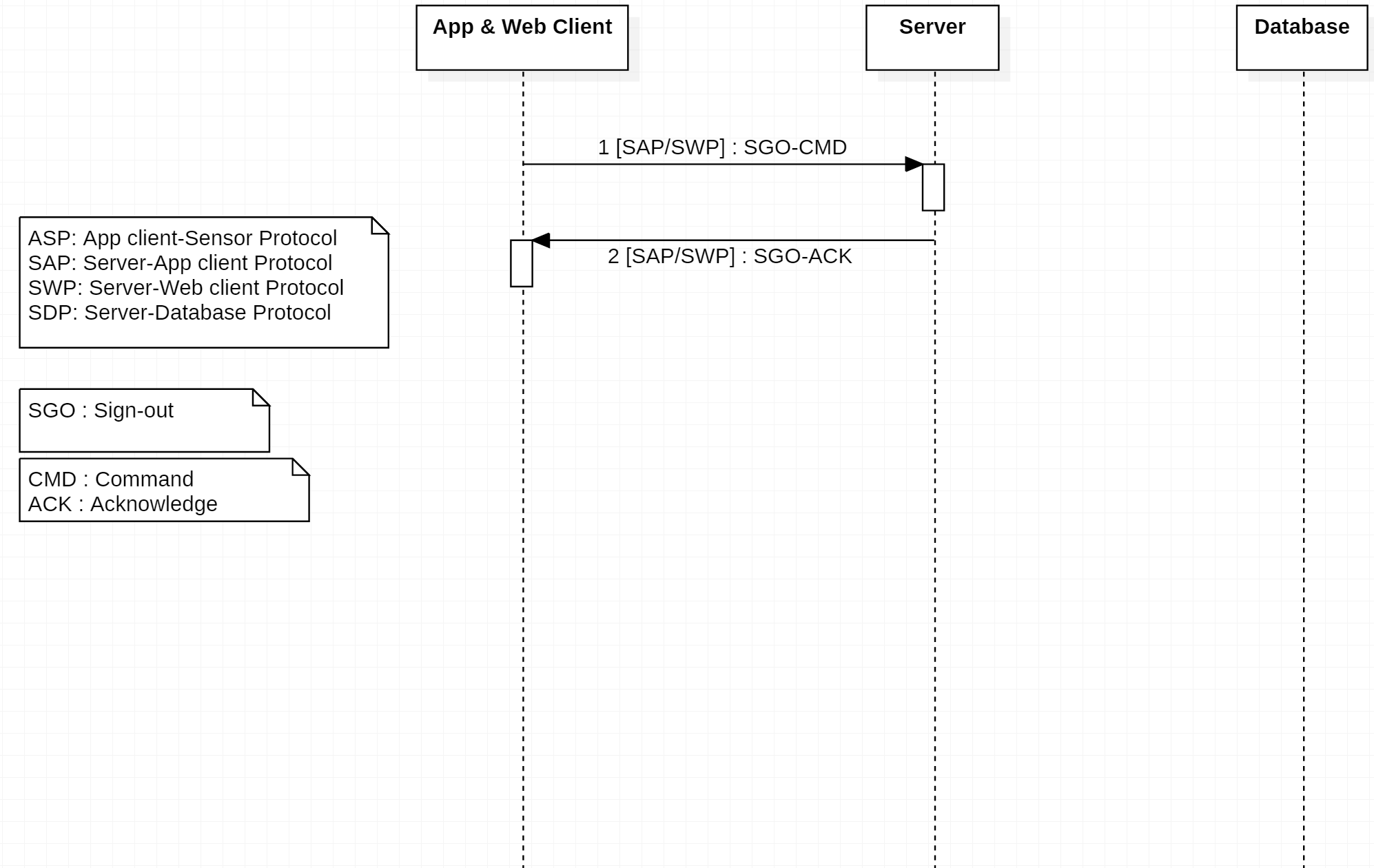
[1)](#_f0qhtupspwpb) Sign-up



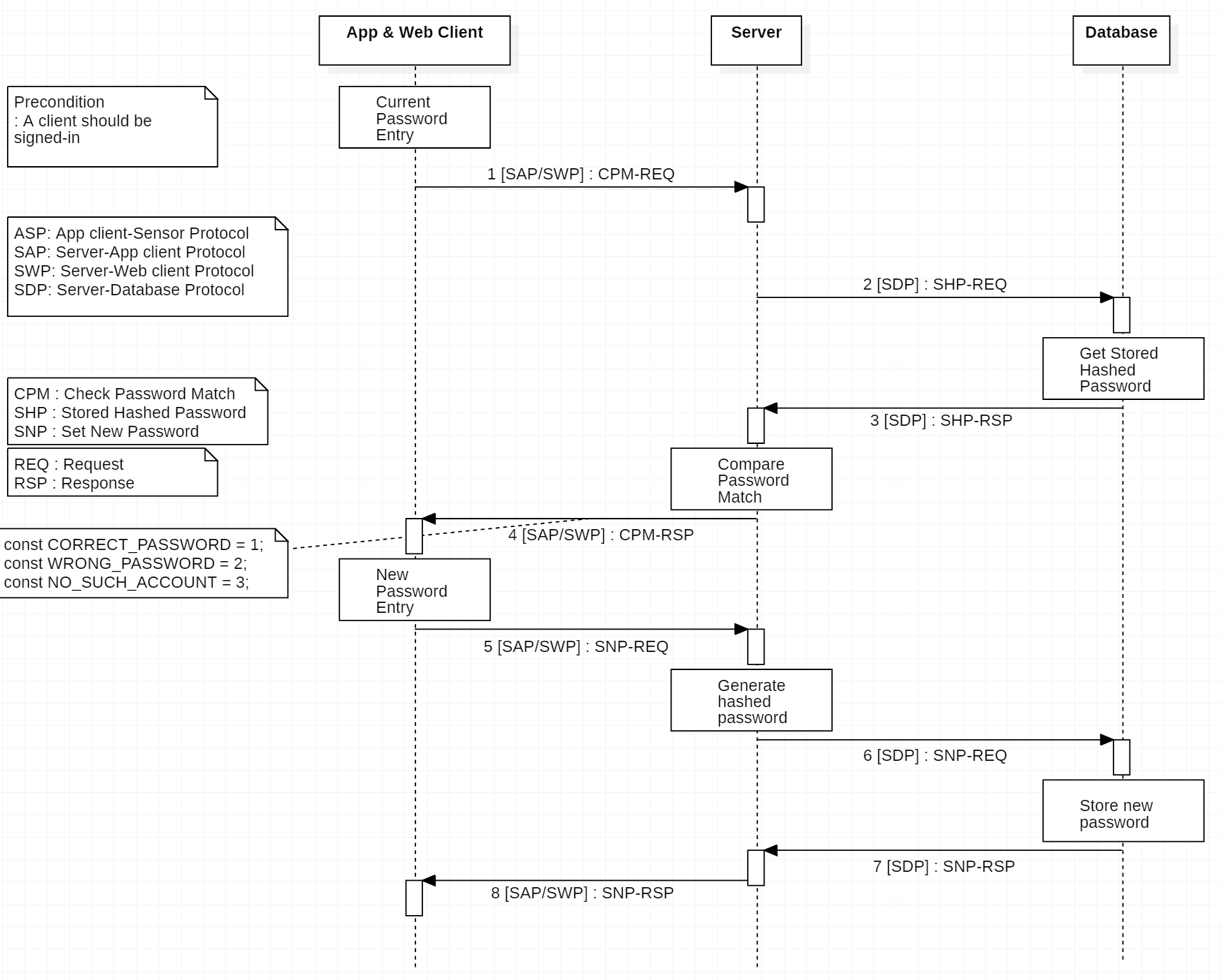
[2)](#_iok1rhsu7695) Sign-in



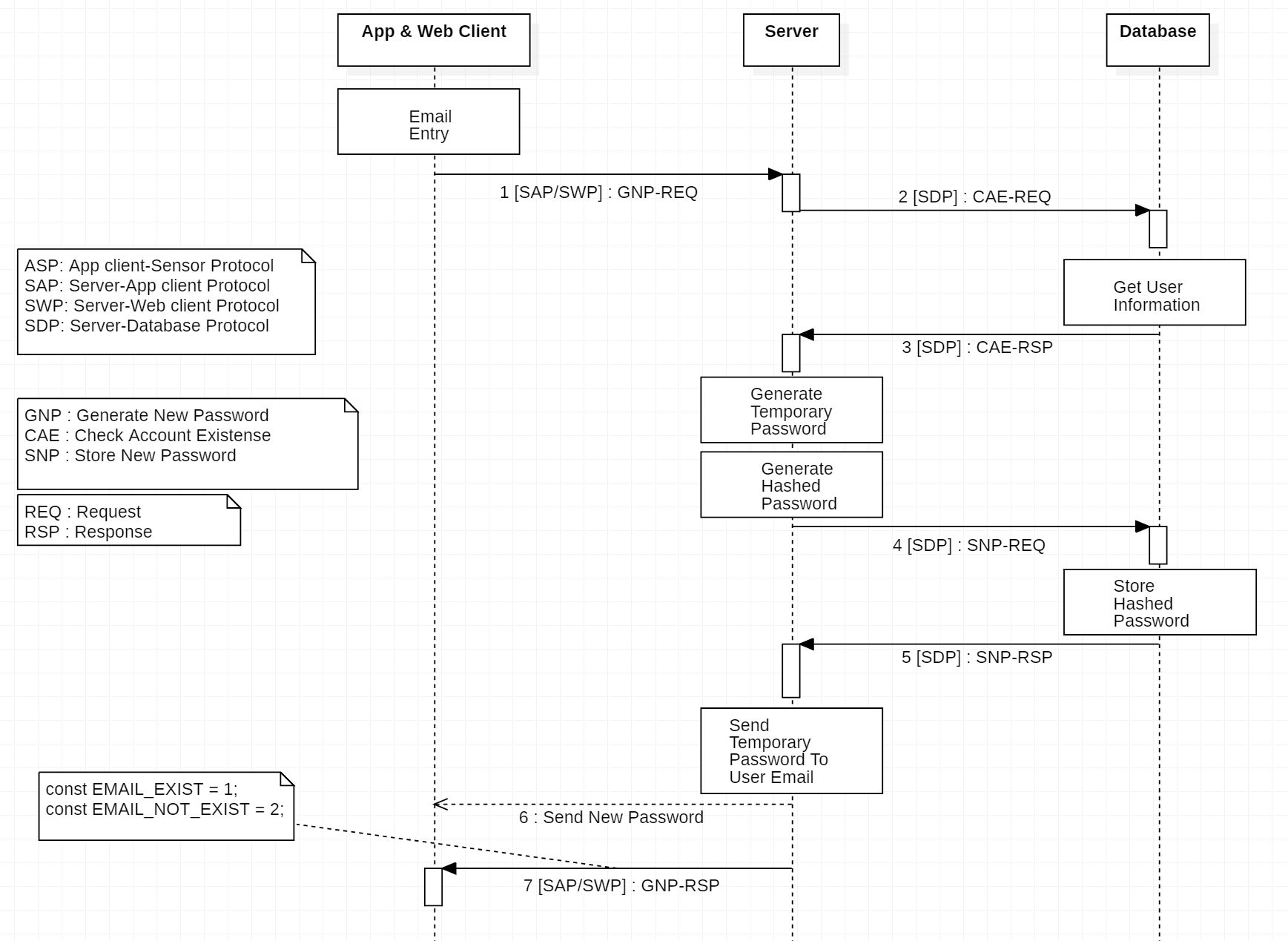
[3)](#_3yiqpxb2dqpq) Sign-out



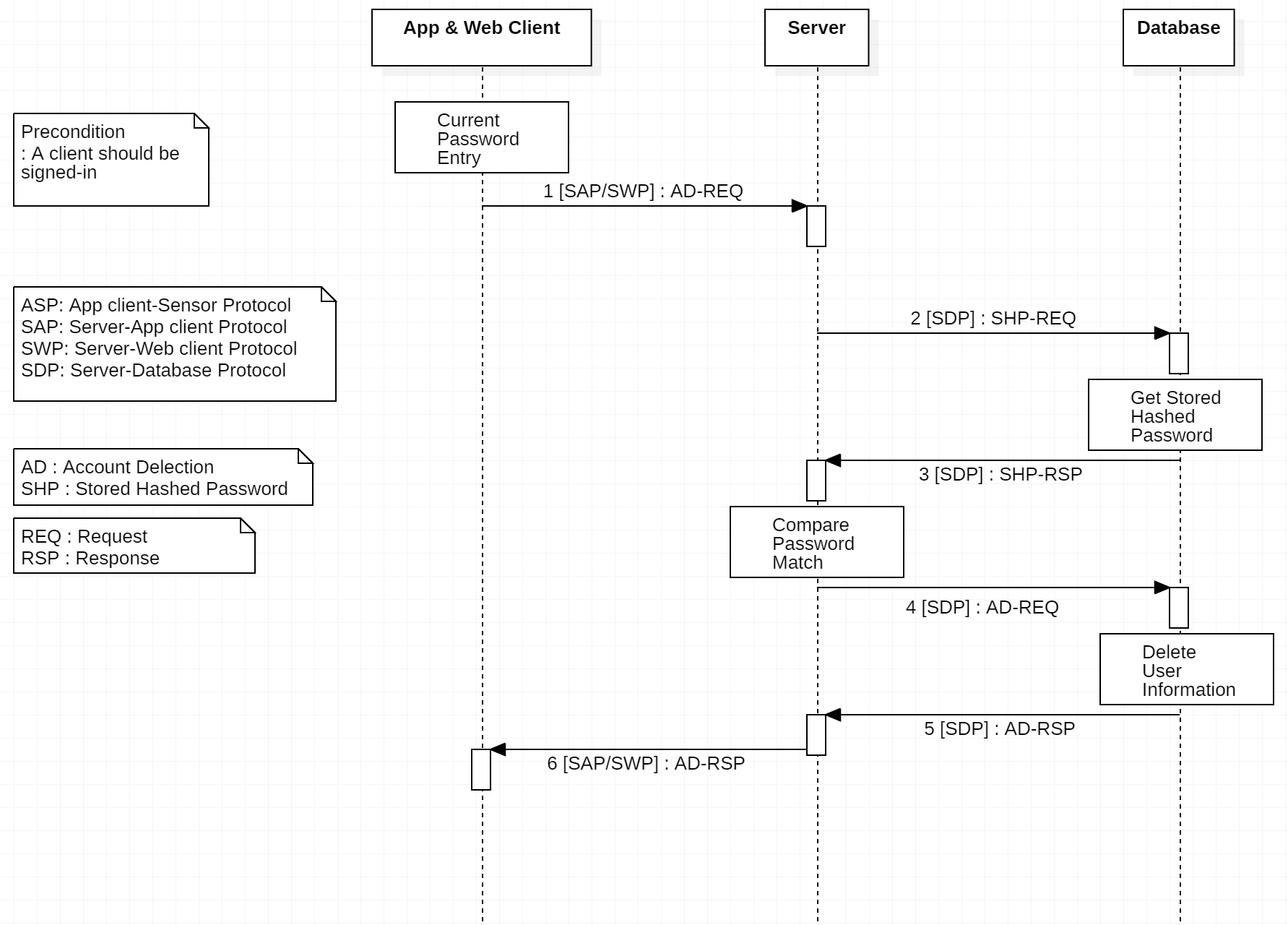
[4)](#_fpzwmtlrdo05) User password change



[5)](#_ir5s9iz2guaz) Forgotten password update

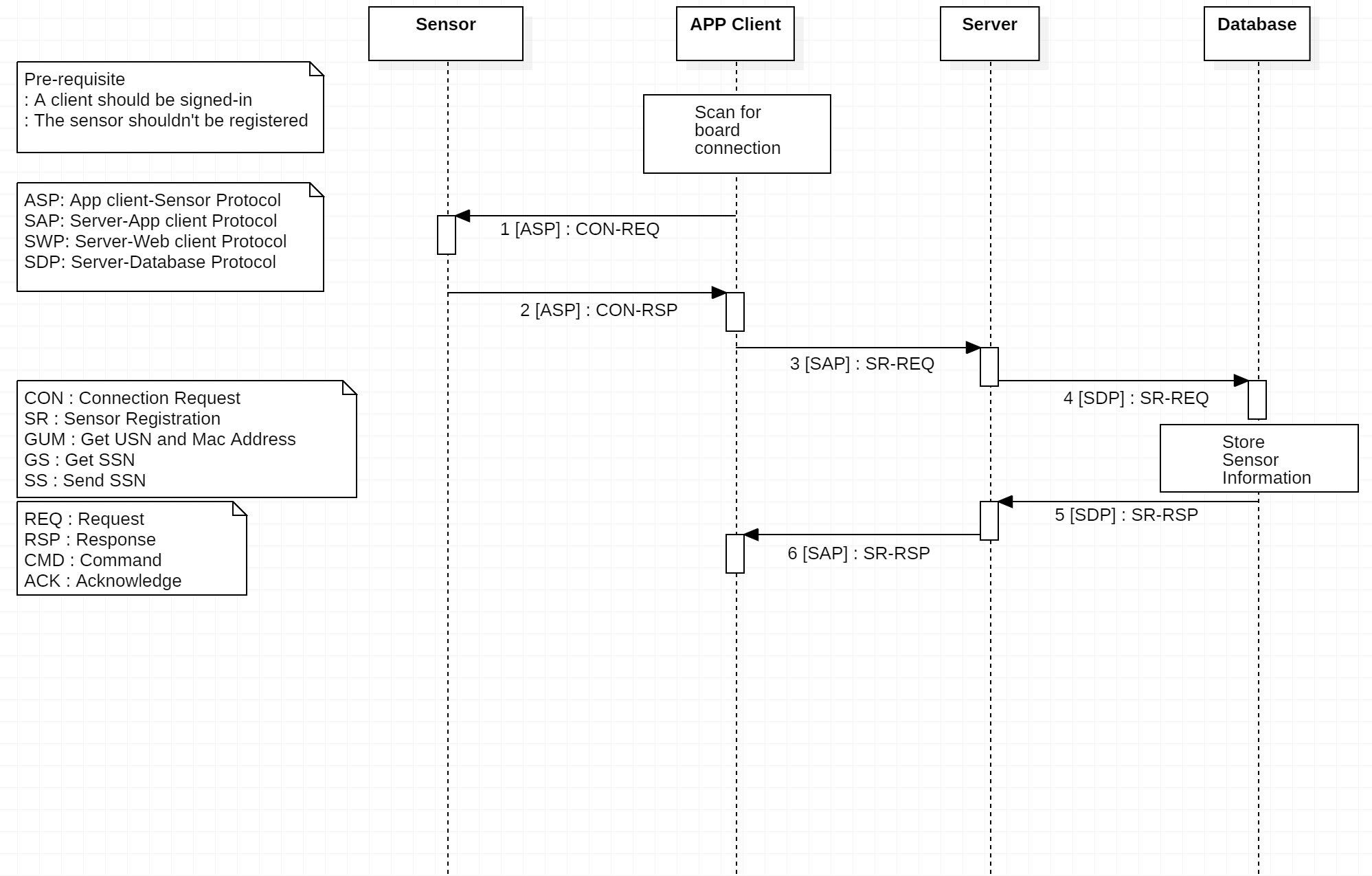


6[)](#_ir5s9iz2guaz) ID cancellation

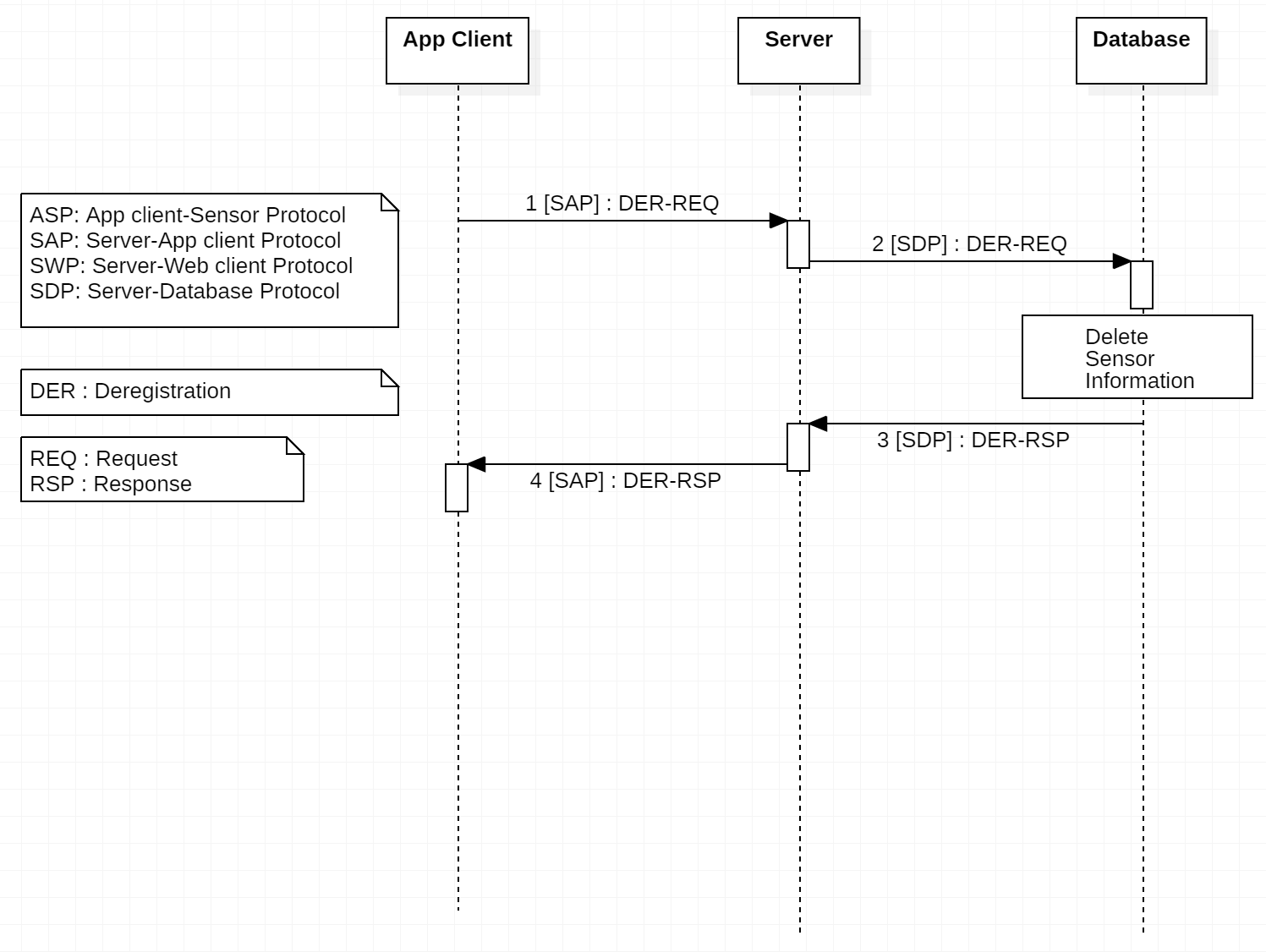


5[.2](#_nxpa35hf9gcx) Sensor Management

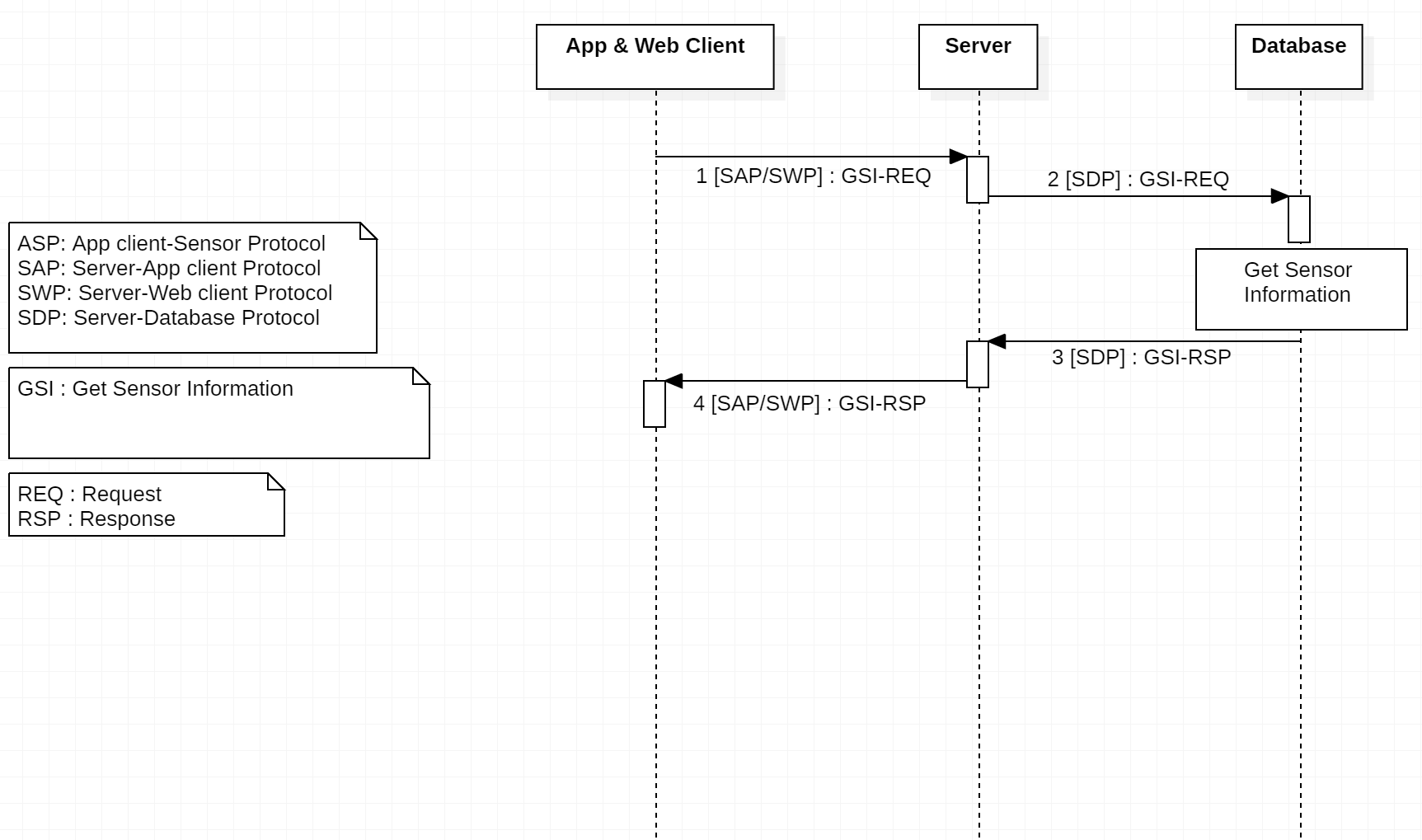
[1)](#_f0qhtupspwpb) Sensor registration and association



[2)](#_iok1rhsu7695) Sensor deregistration and disassociation

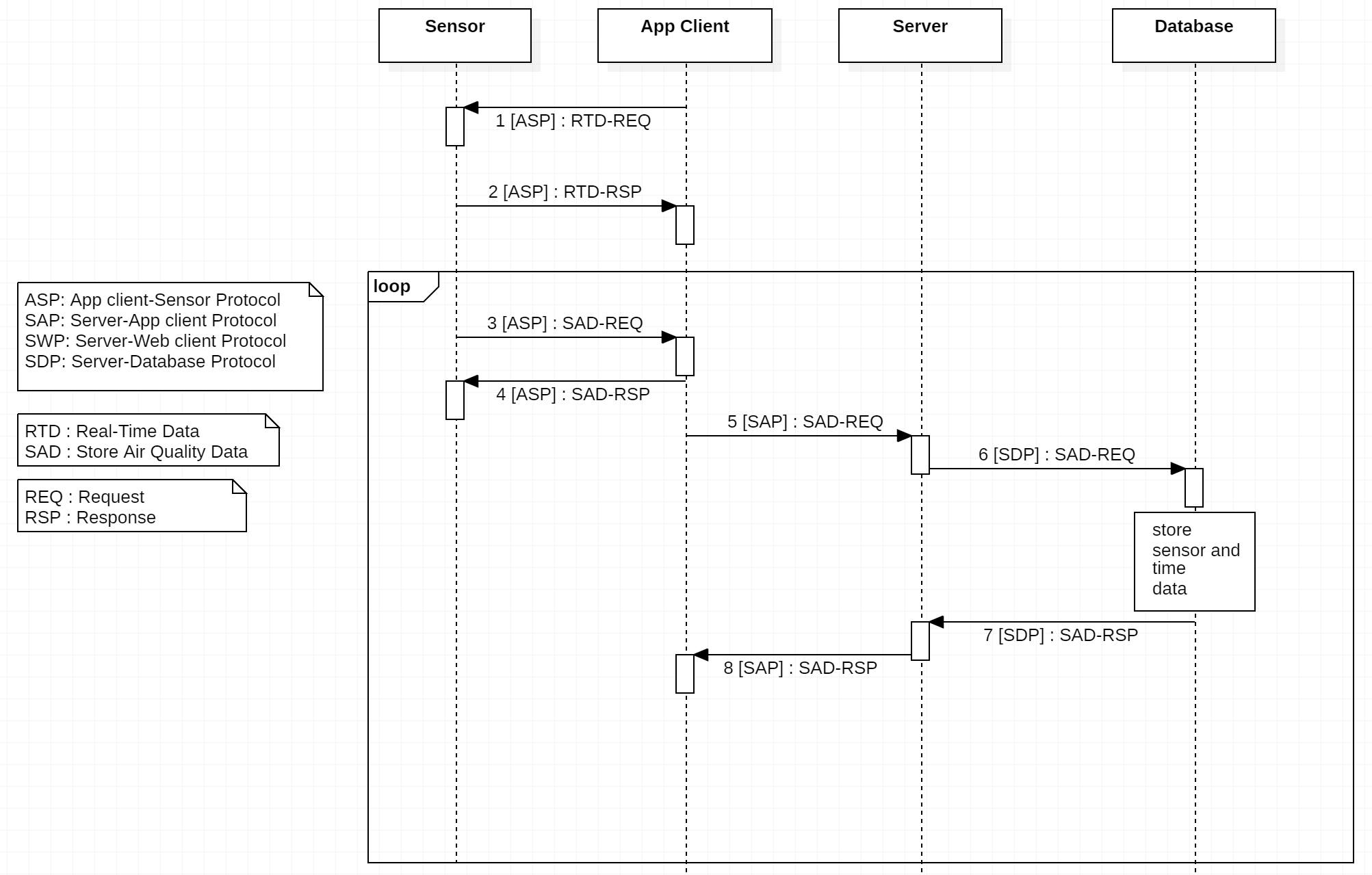


[3)](#_3yiqpxb2dqpq) Sensor list view

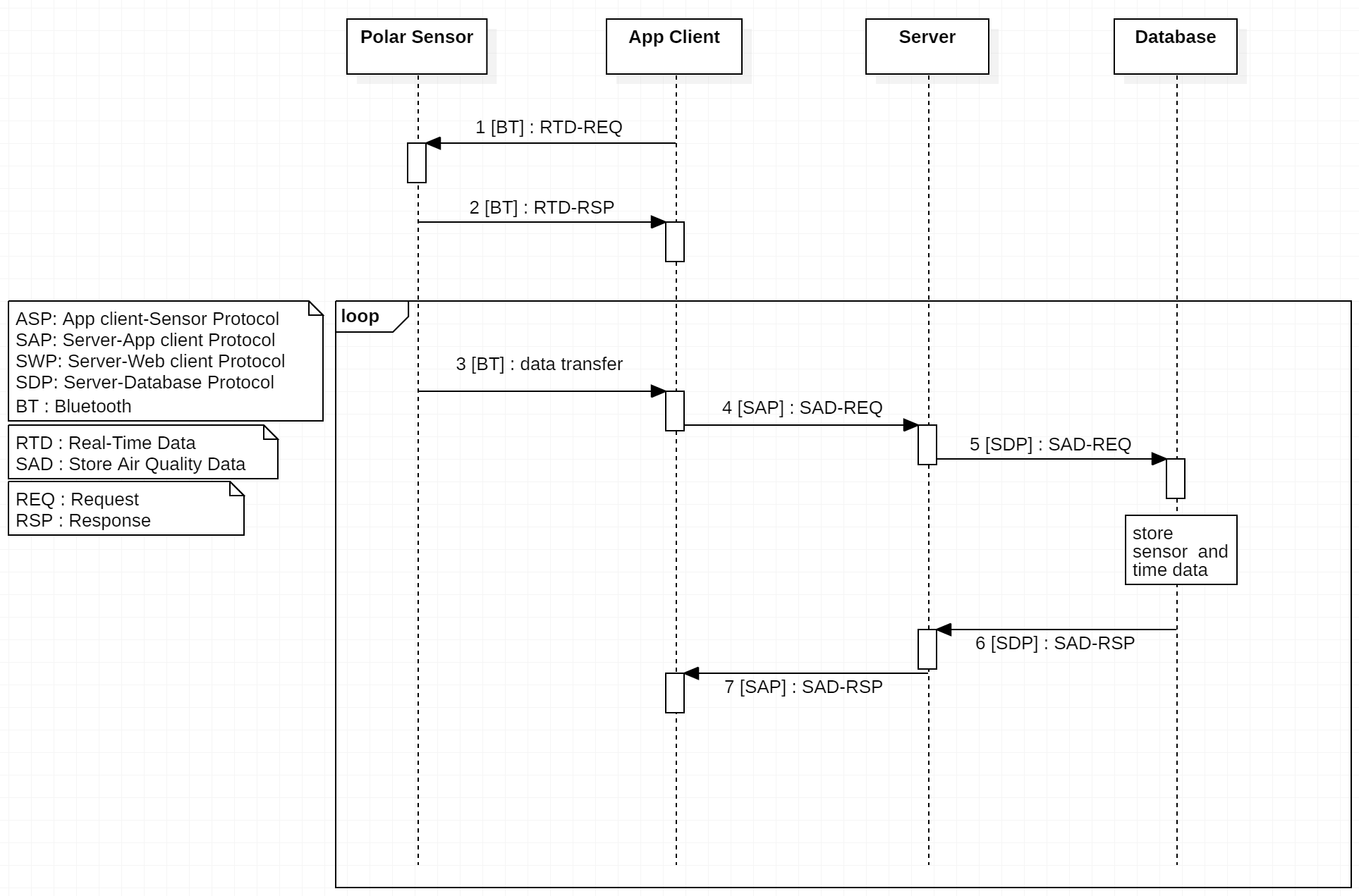


5[.3](#_nxpa35hf9gcx) Data Management

[1)](#_f0qhtupspwpb) Real-time air quality data transfer

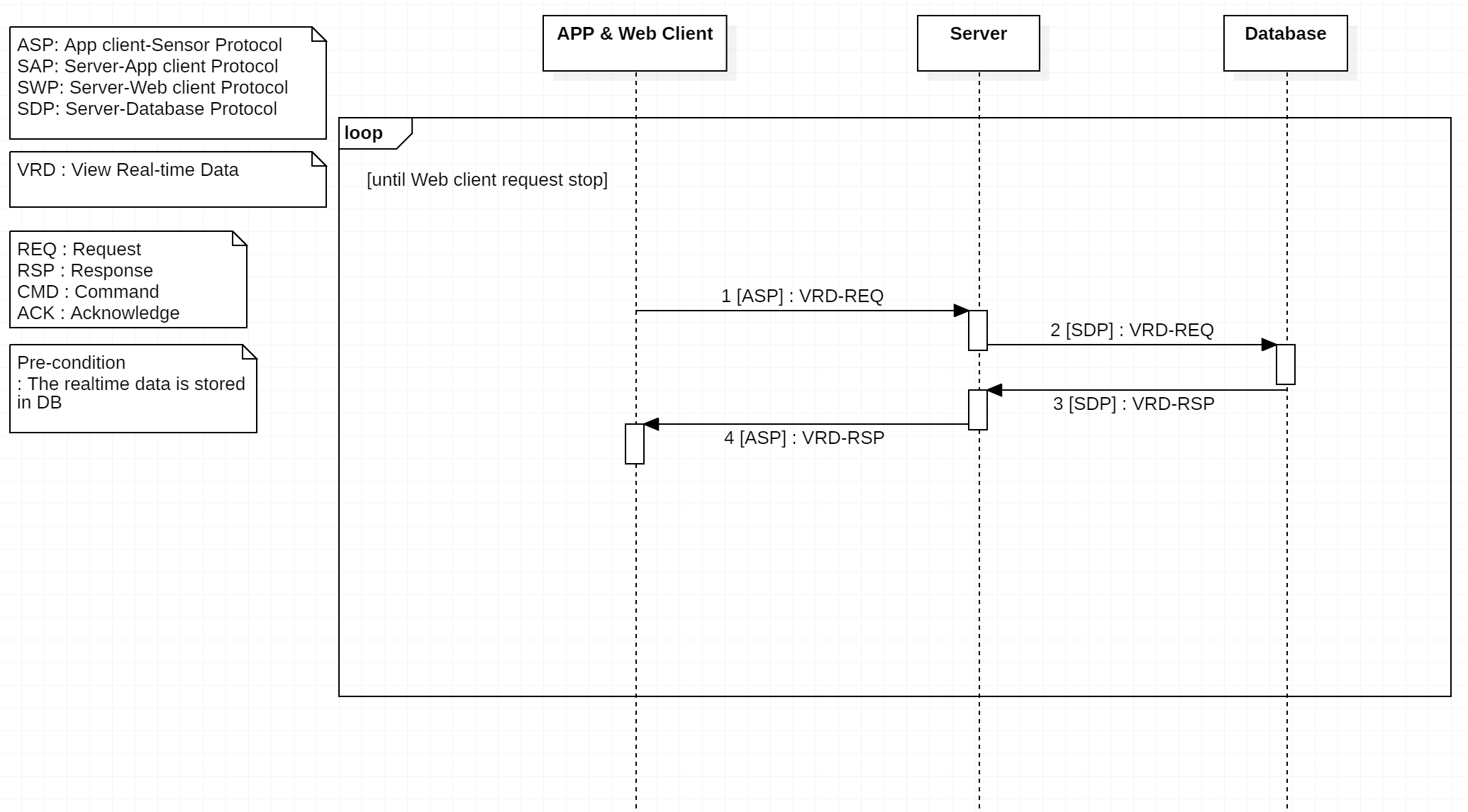


[2)](#_iok1rhsu7695) Real-time heart-related data transfer

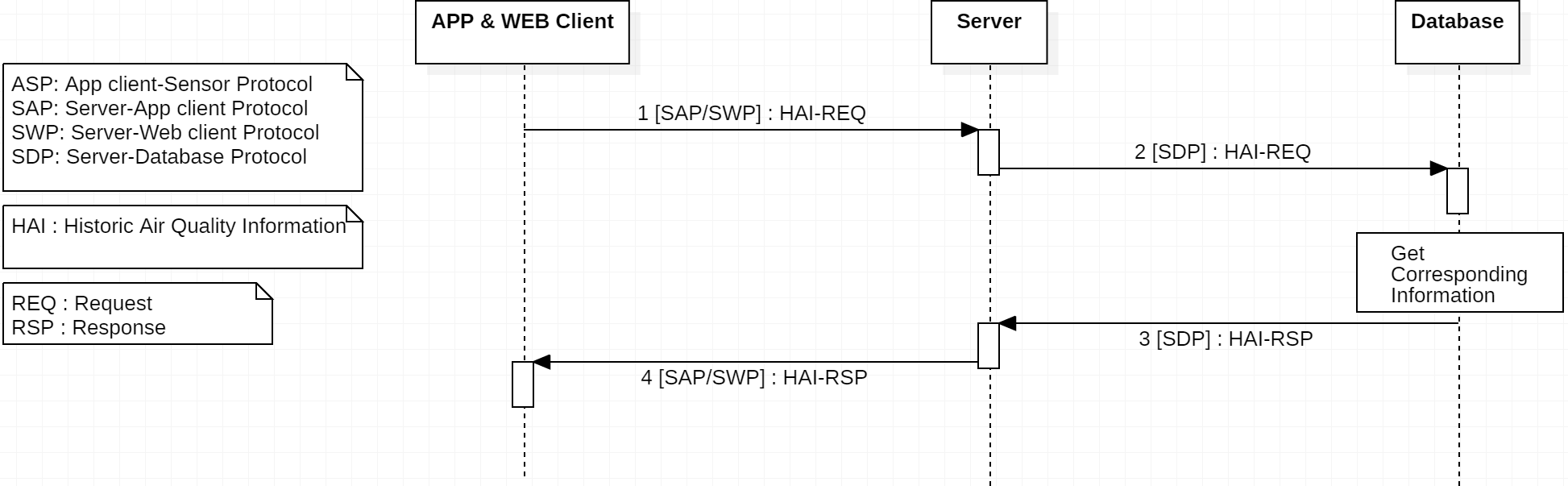


5[.4 Data Monitoring](#_nxpa35hf9gcx)

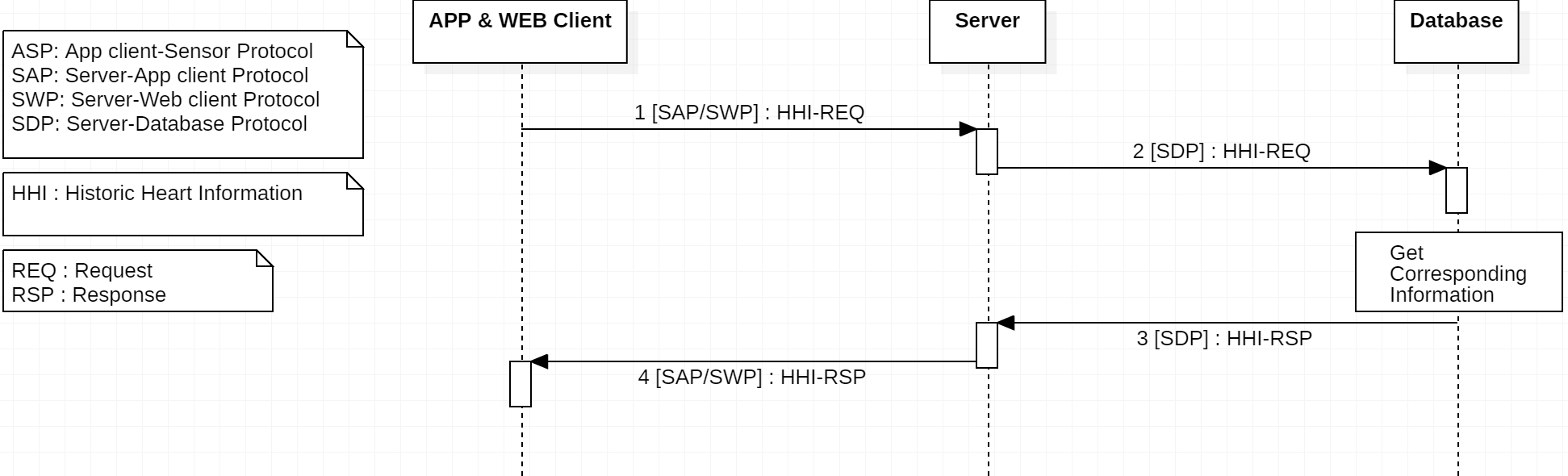
[1)](#_f0qhtupspwpb) Real-time air quality and heart-related data view



2[)](#_3yiqpxb2dqpq) Historical air quality data view



3[)](#_fpzwmtlrdo05) Historical heart-related data view



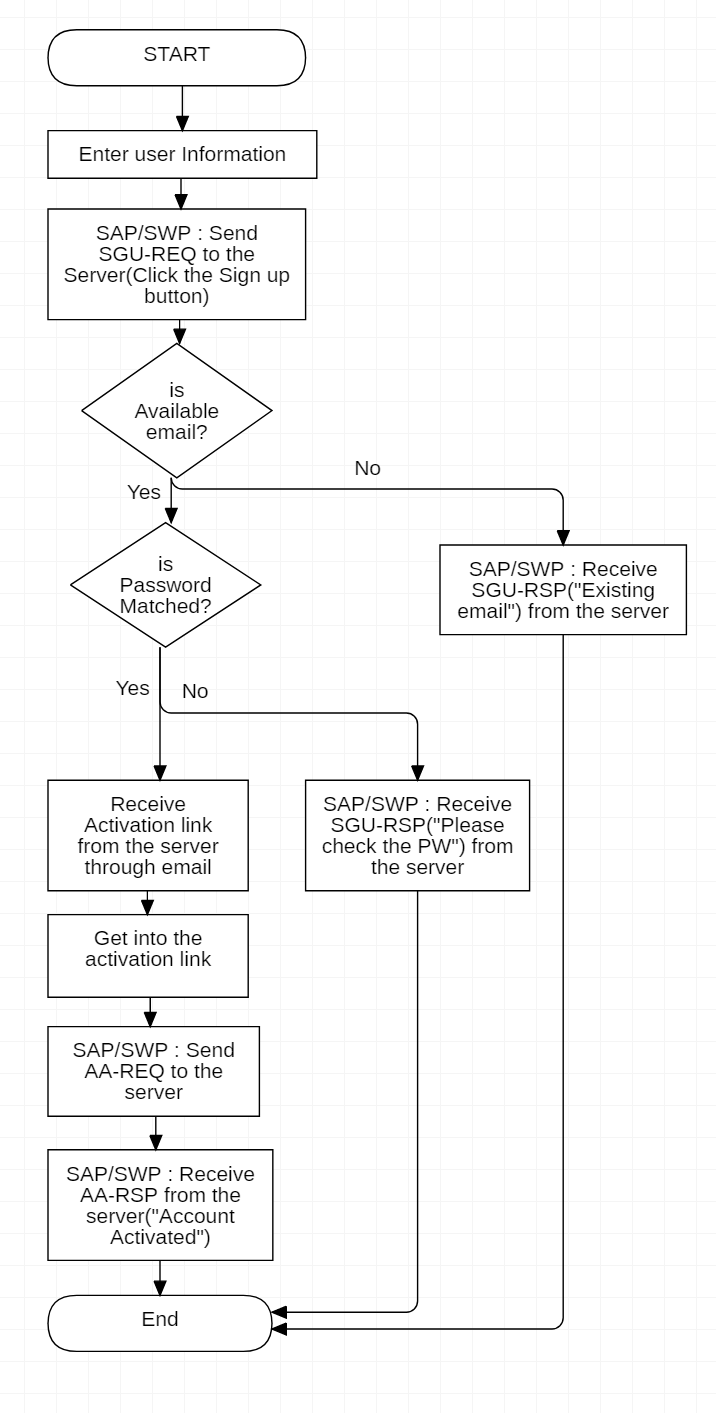
# 

# 6[.](#_kq52tp6crz4u) Flowchart

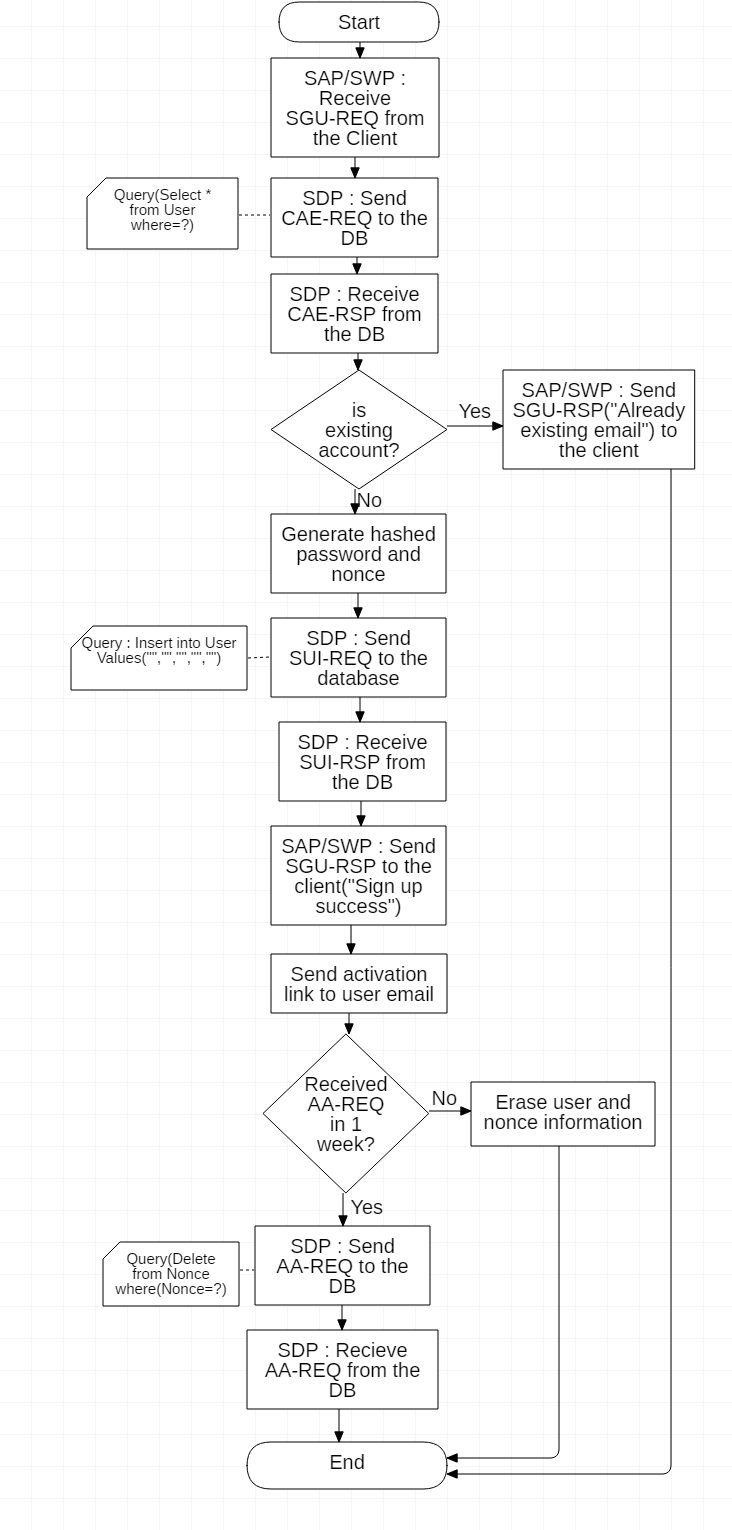
5[.1](#_nxpa35hf9gcx) User Management

[1)](#_f0qhtupspwpb) Sign-up

-App & Web

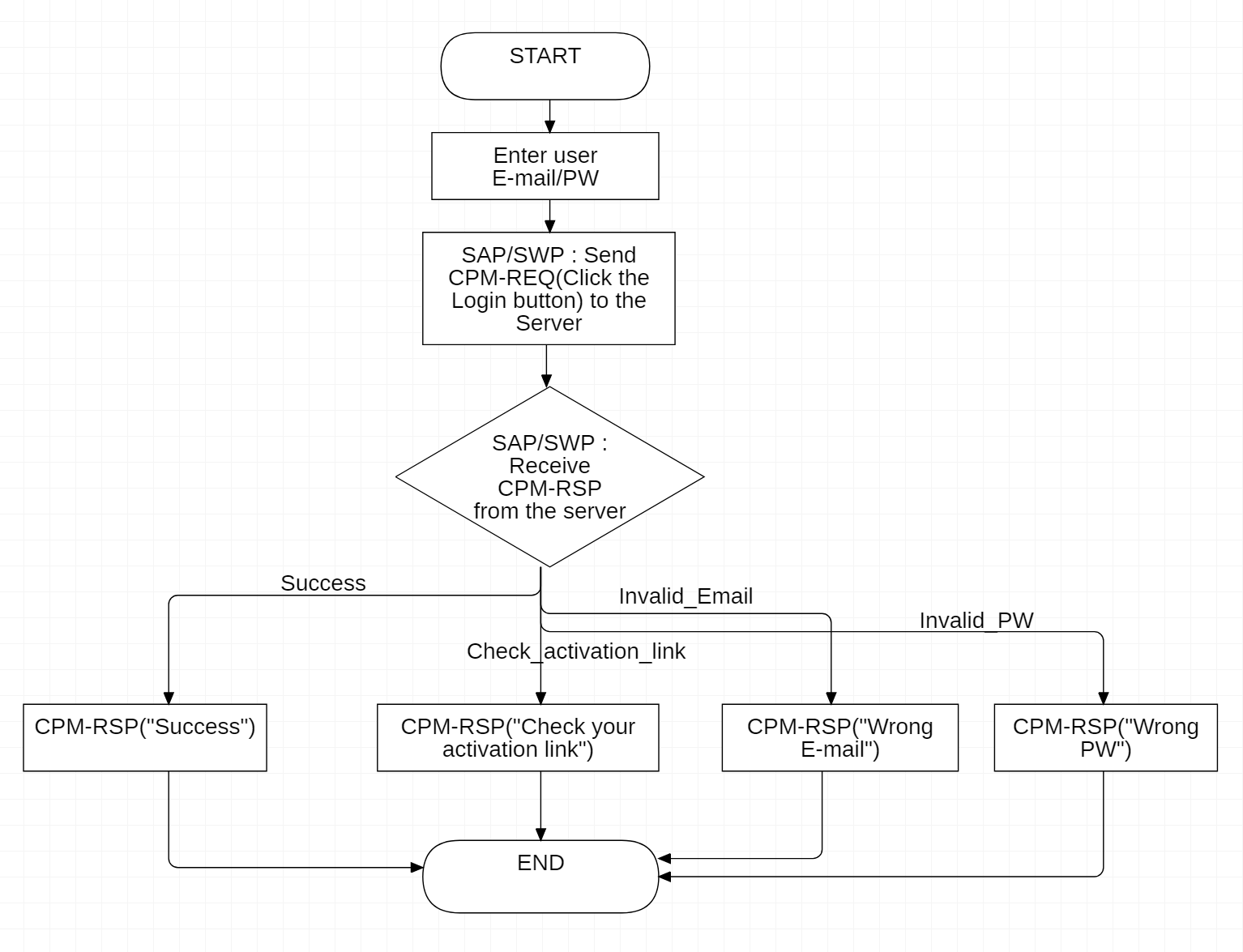


-Server

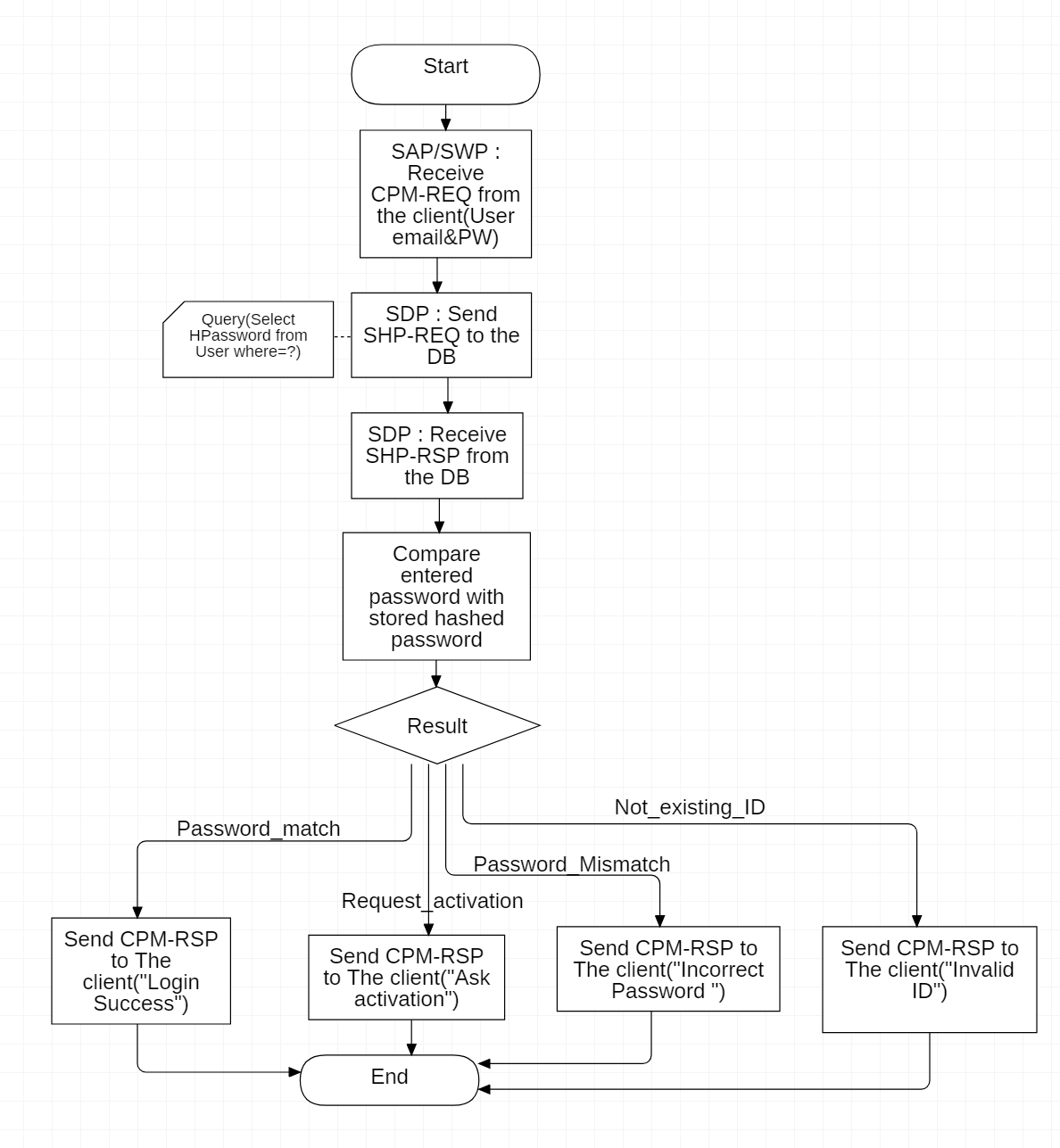


2) Sign-in

-App & Web

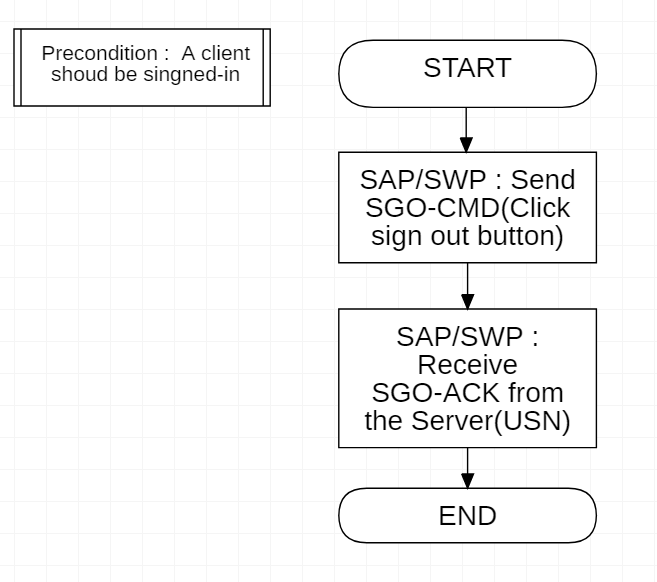


-Server

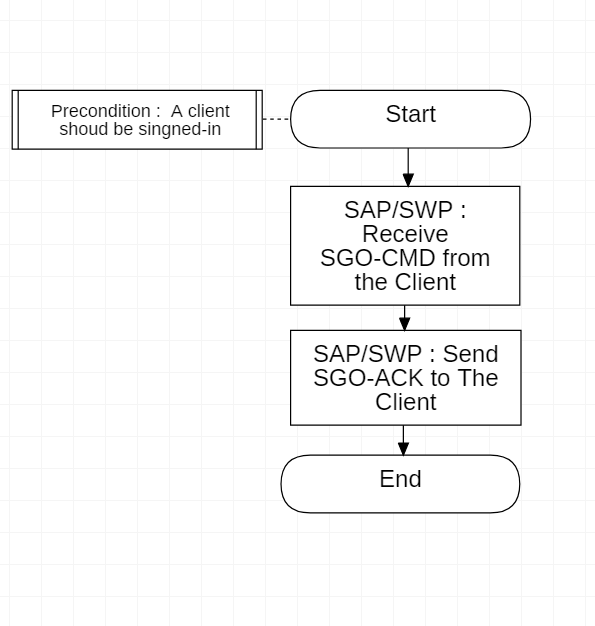


3) Sign-out

-App & Web

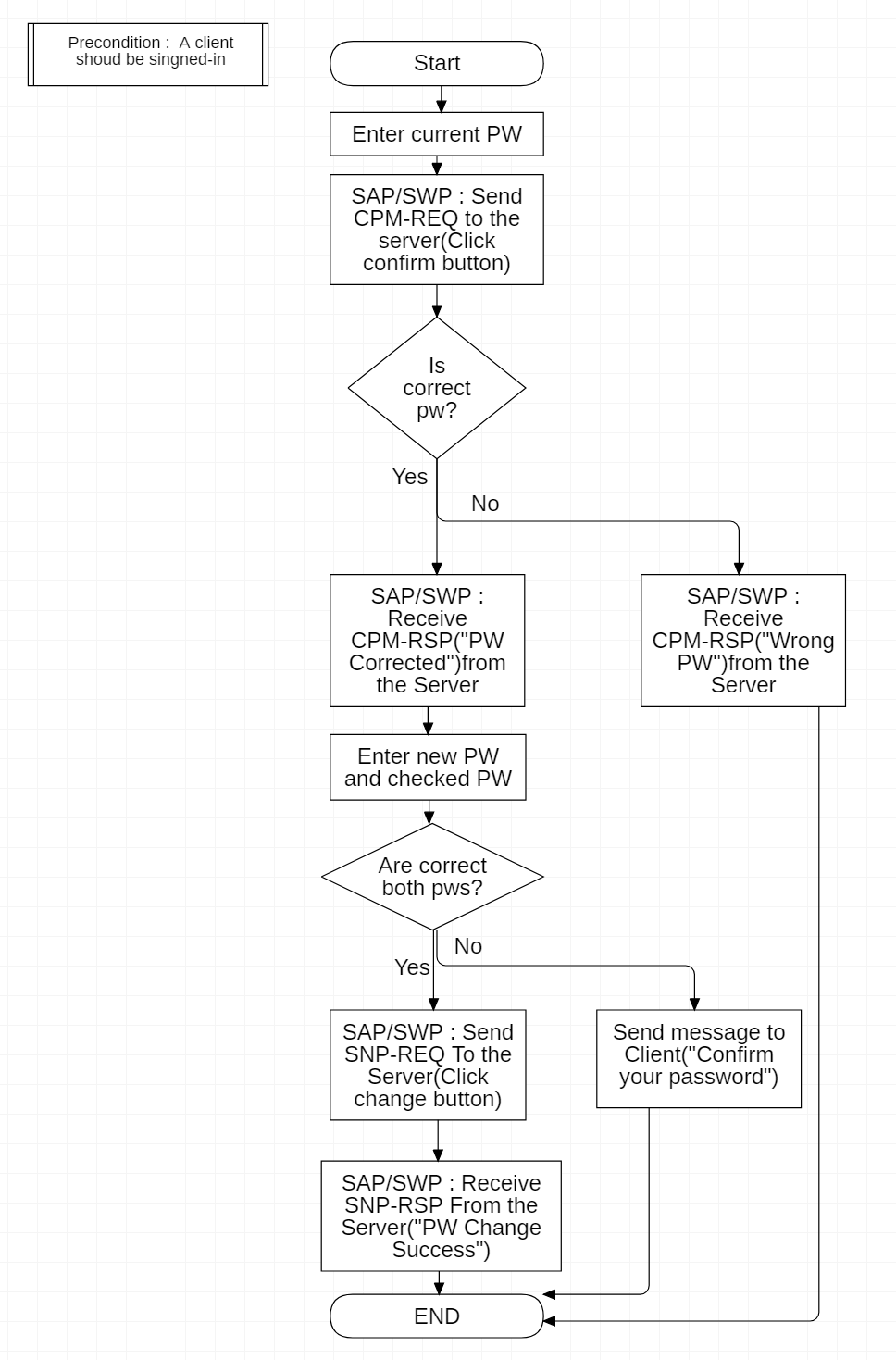


-Server

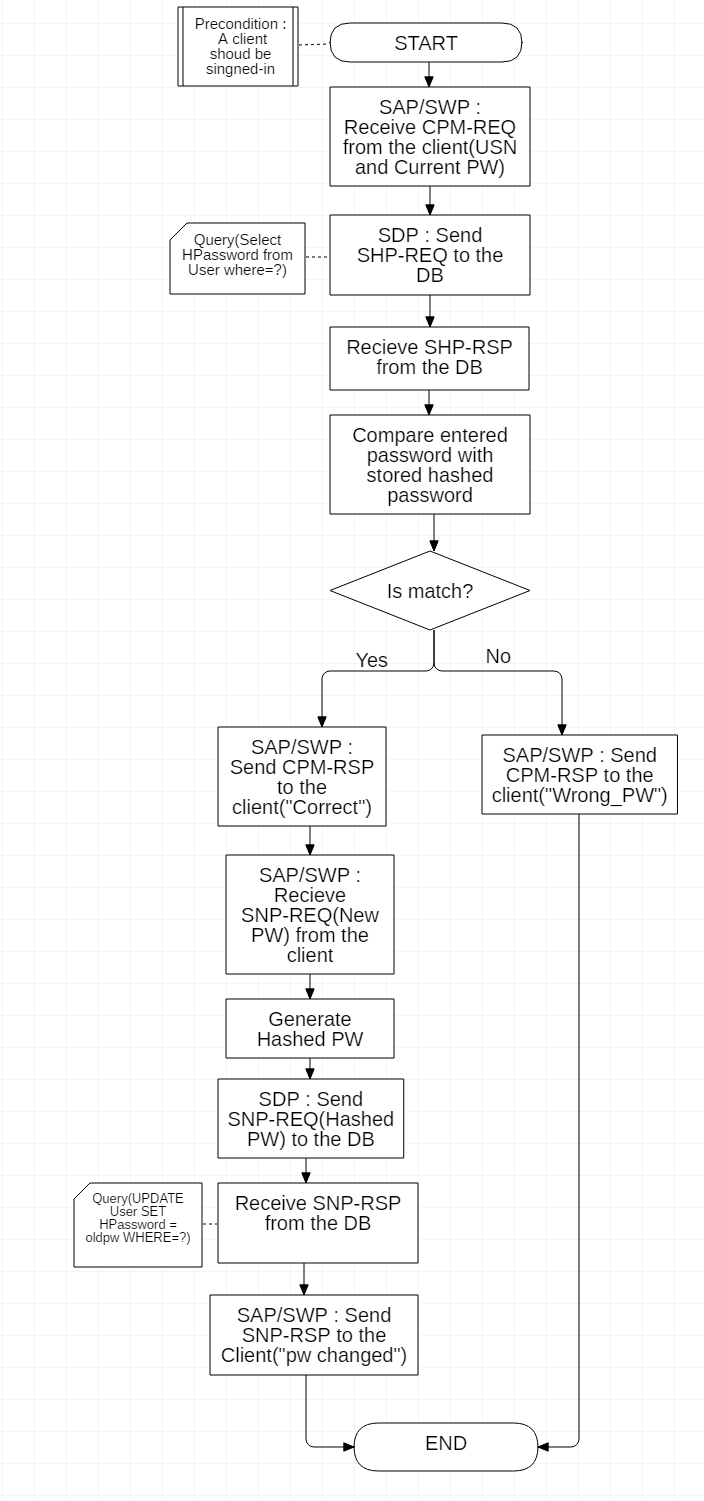


[4)](#_fpzwmtlrdo05) User password change

-App & Web

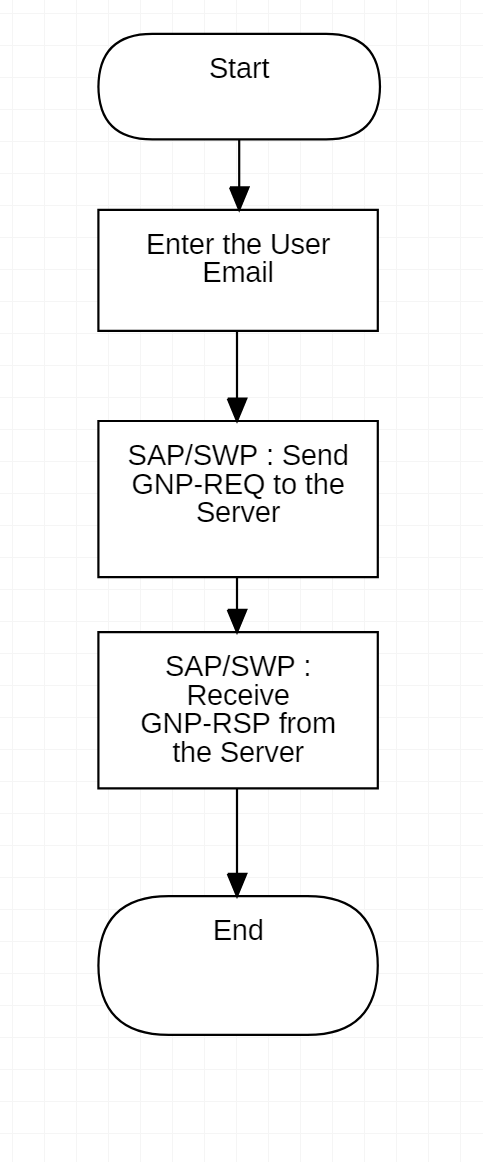


-Server

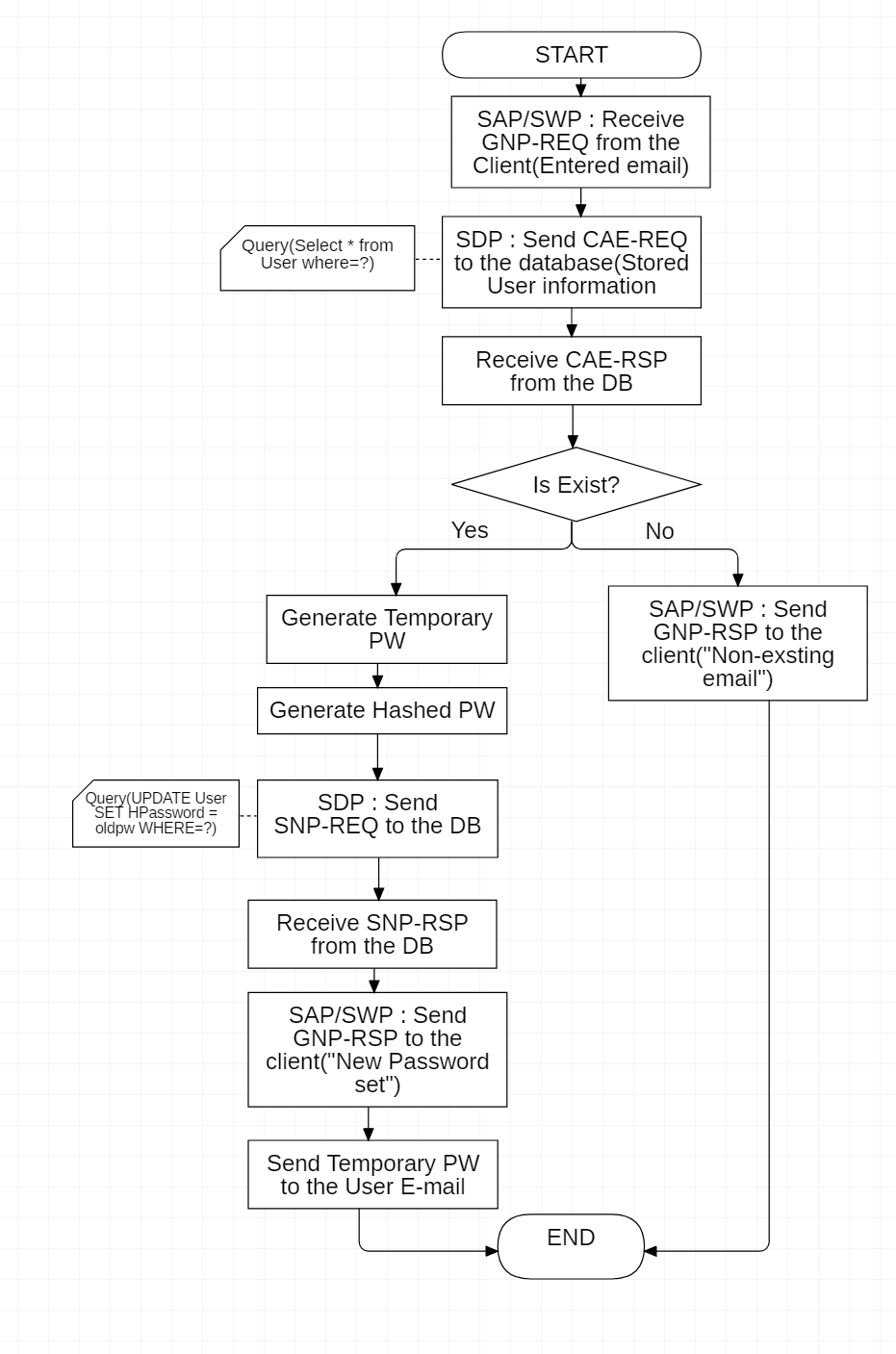


[5)](#_ir5s9iz2guaz) Forgotten password update

-App & Web

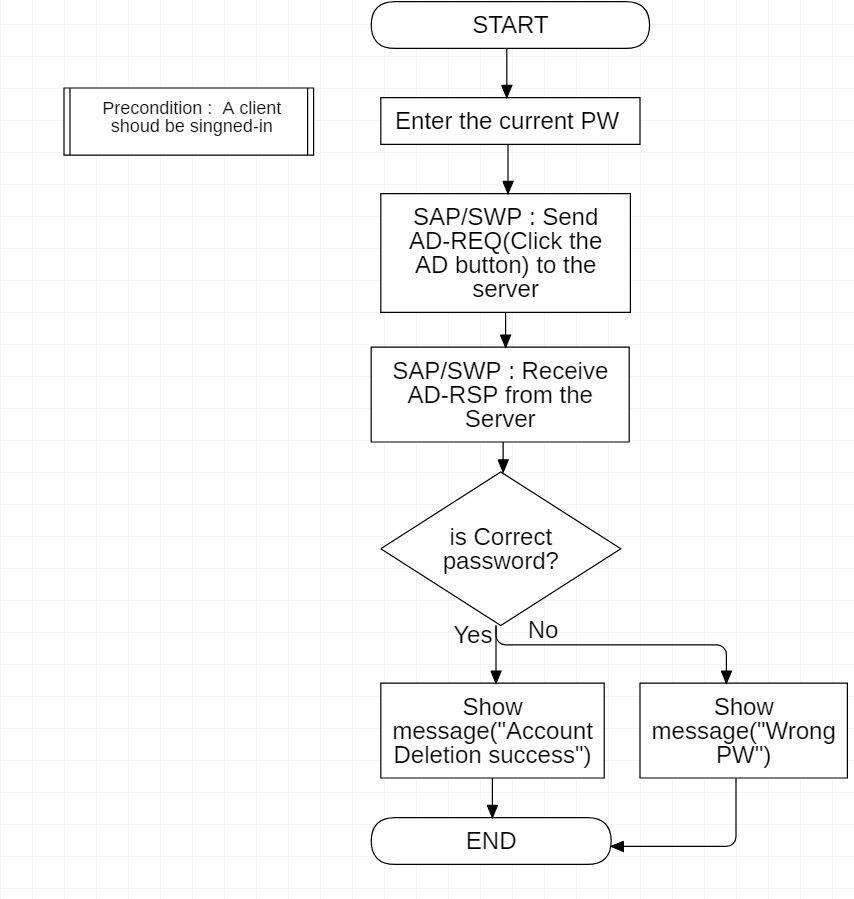


-Server

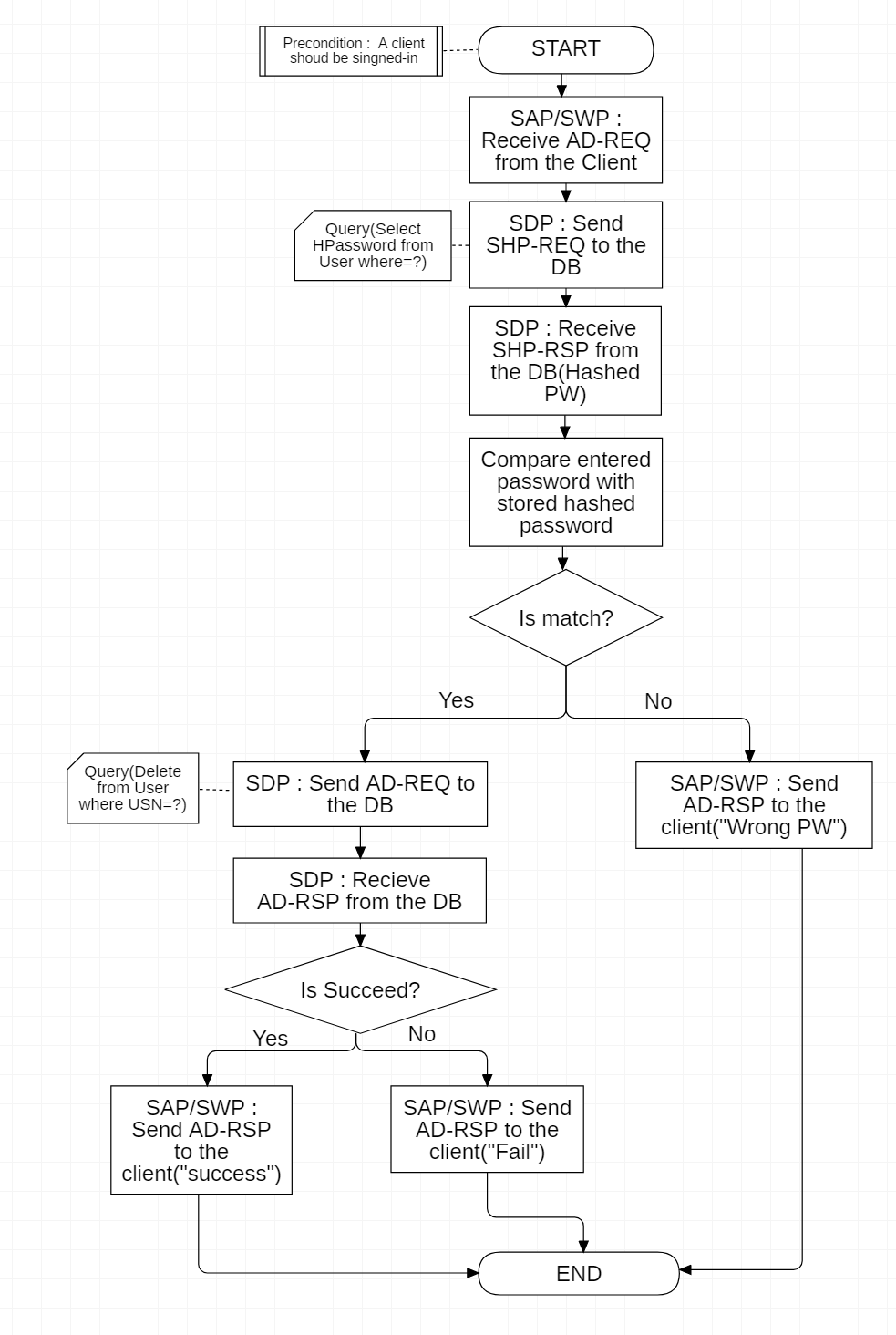


6[)](#_ir5s9iz2guaz) ID cancellation

-App & Web



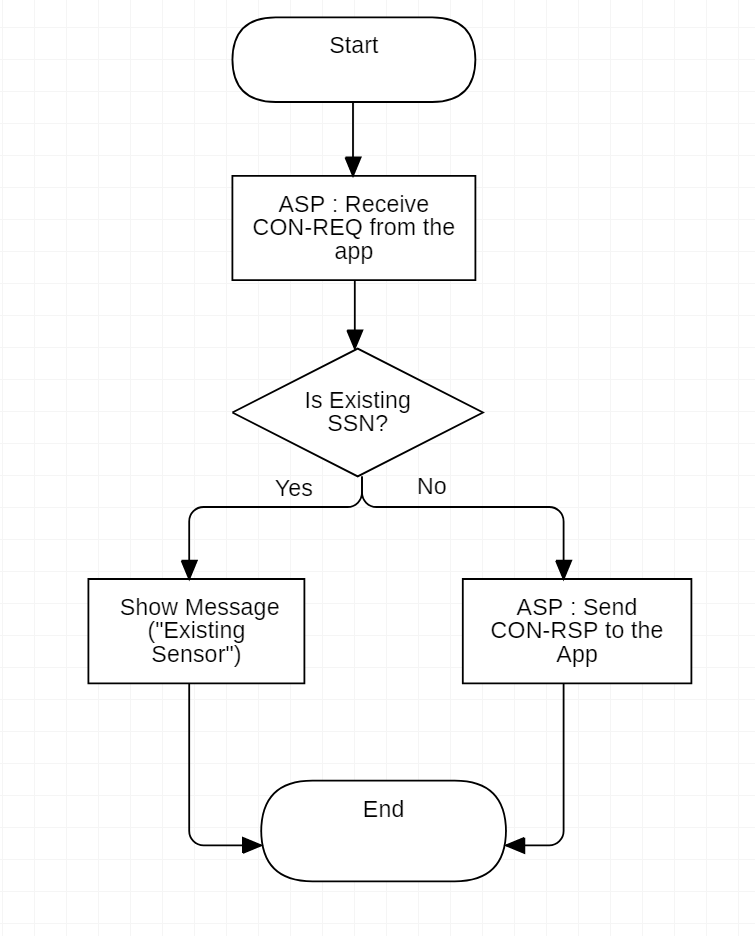
-Server



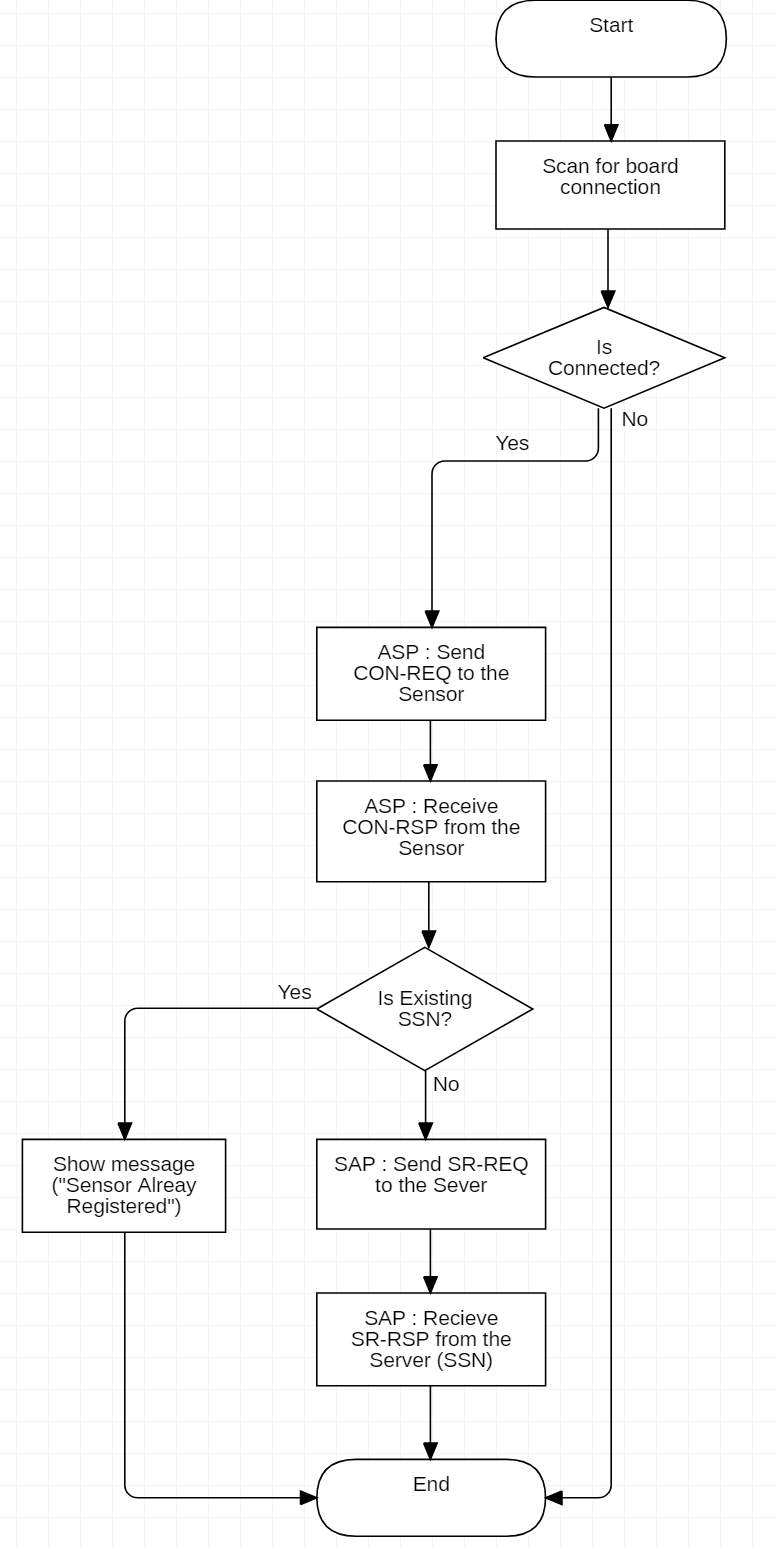
5[.2](#_nxpa35hf9gcx) Sensor Management

[1)](#_f0qhtupspwpb) Sensor registration and association

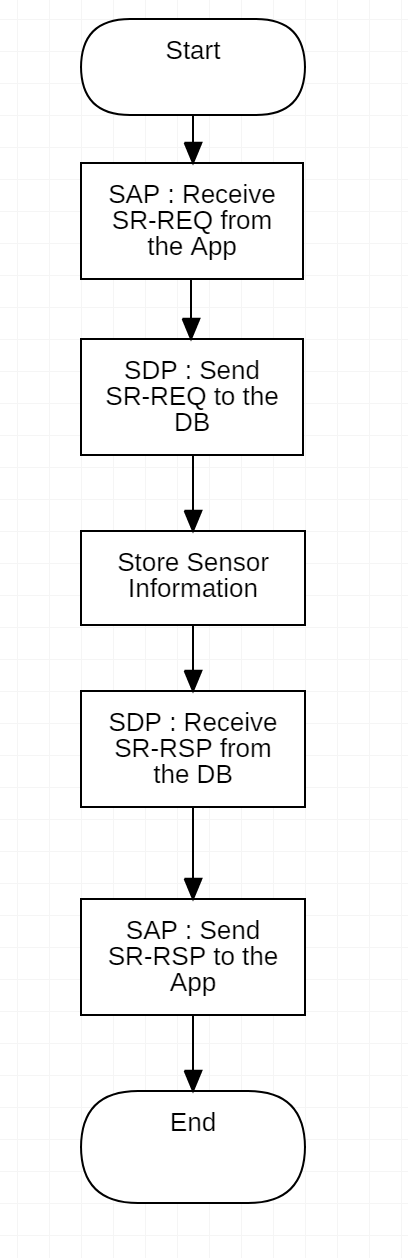
* Sensor



* App

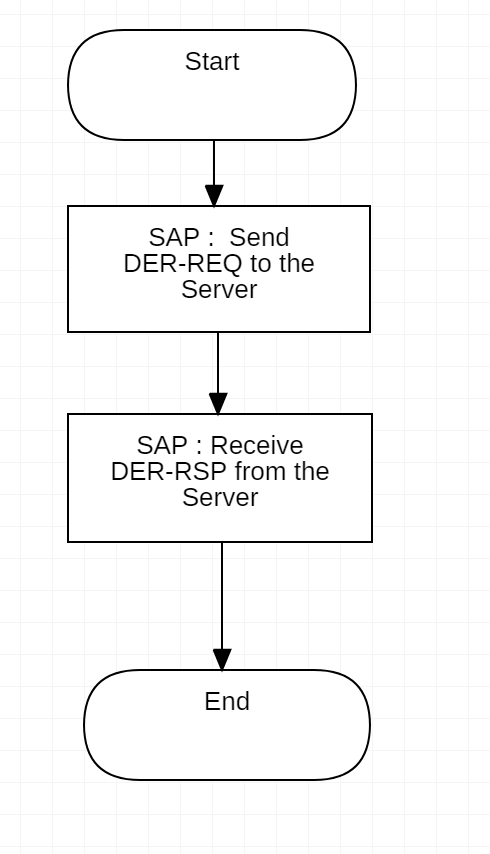


* Server

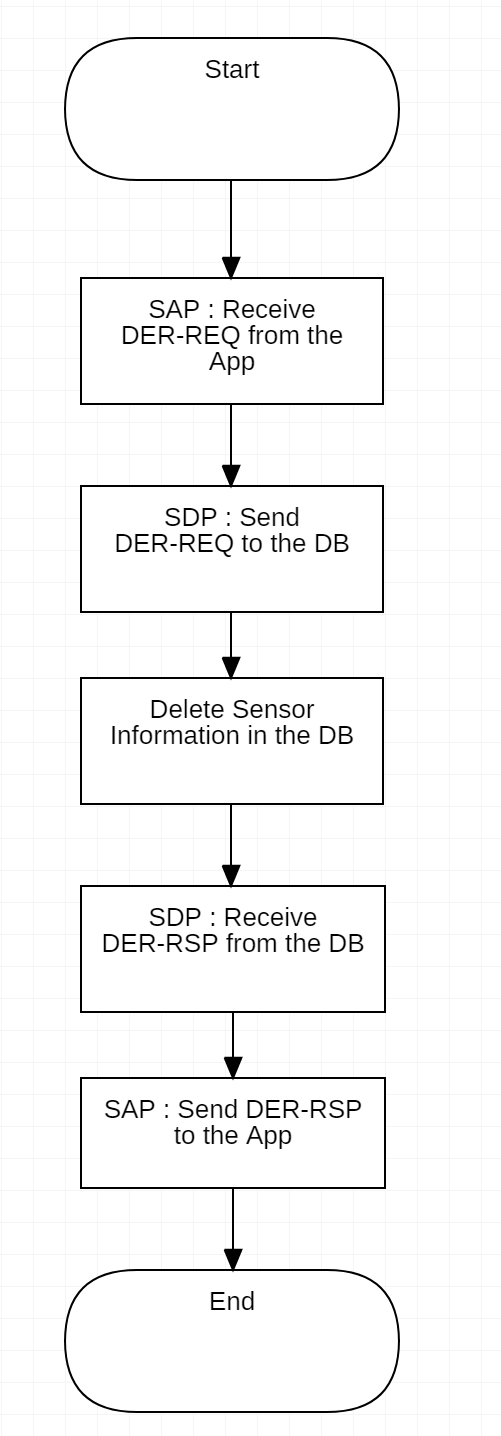


[2)](#_iok1rhsu7695) Sensor deregistration and disassociation

* App

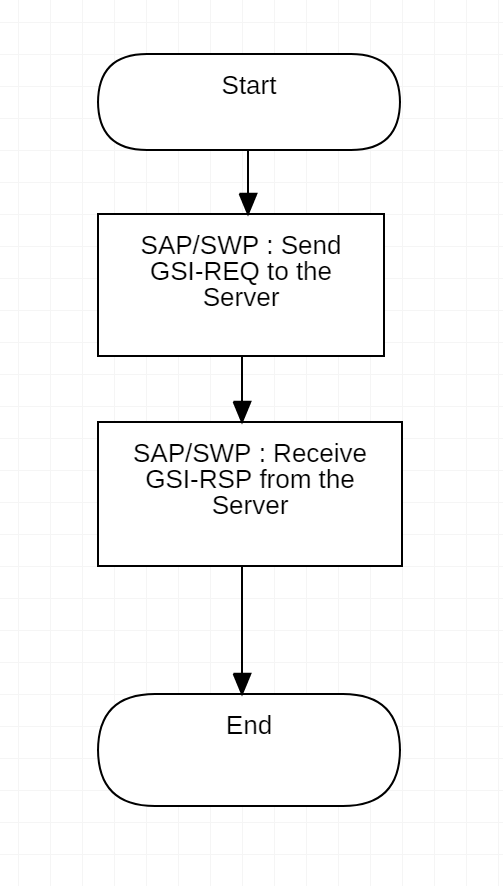


* Server

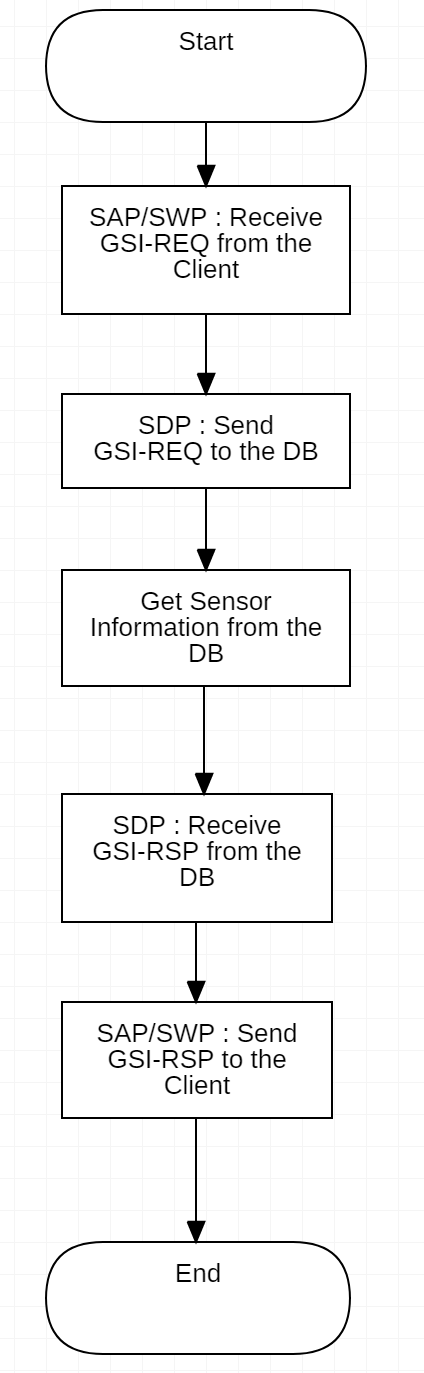


[3)](#_3yiqpxb2dqpq) Sensor list view

* App & Web



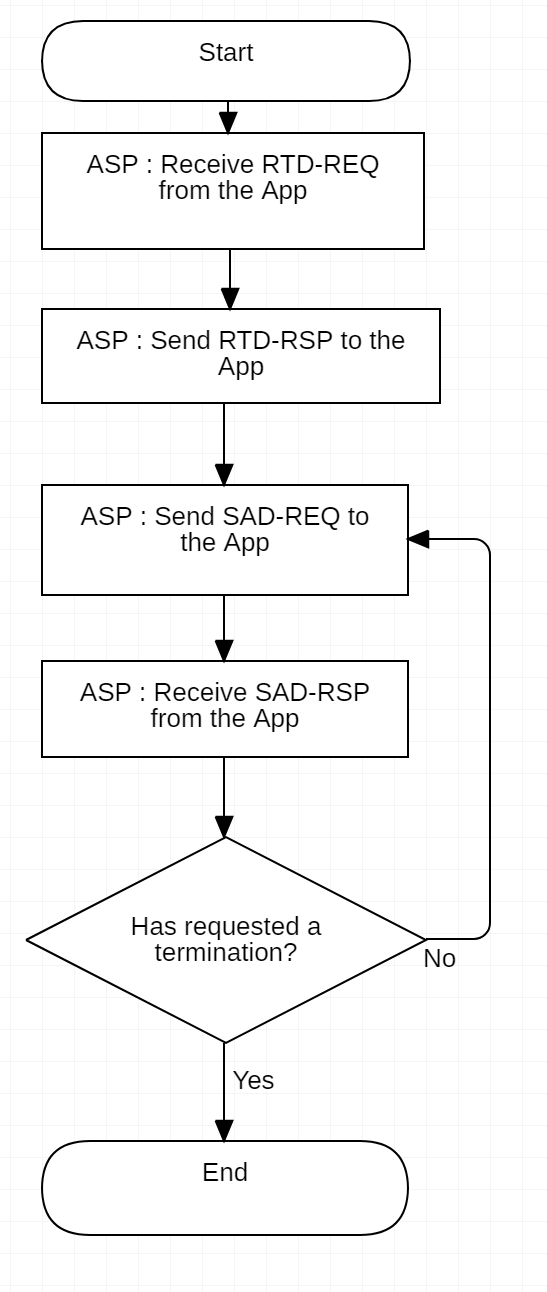
* Server



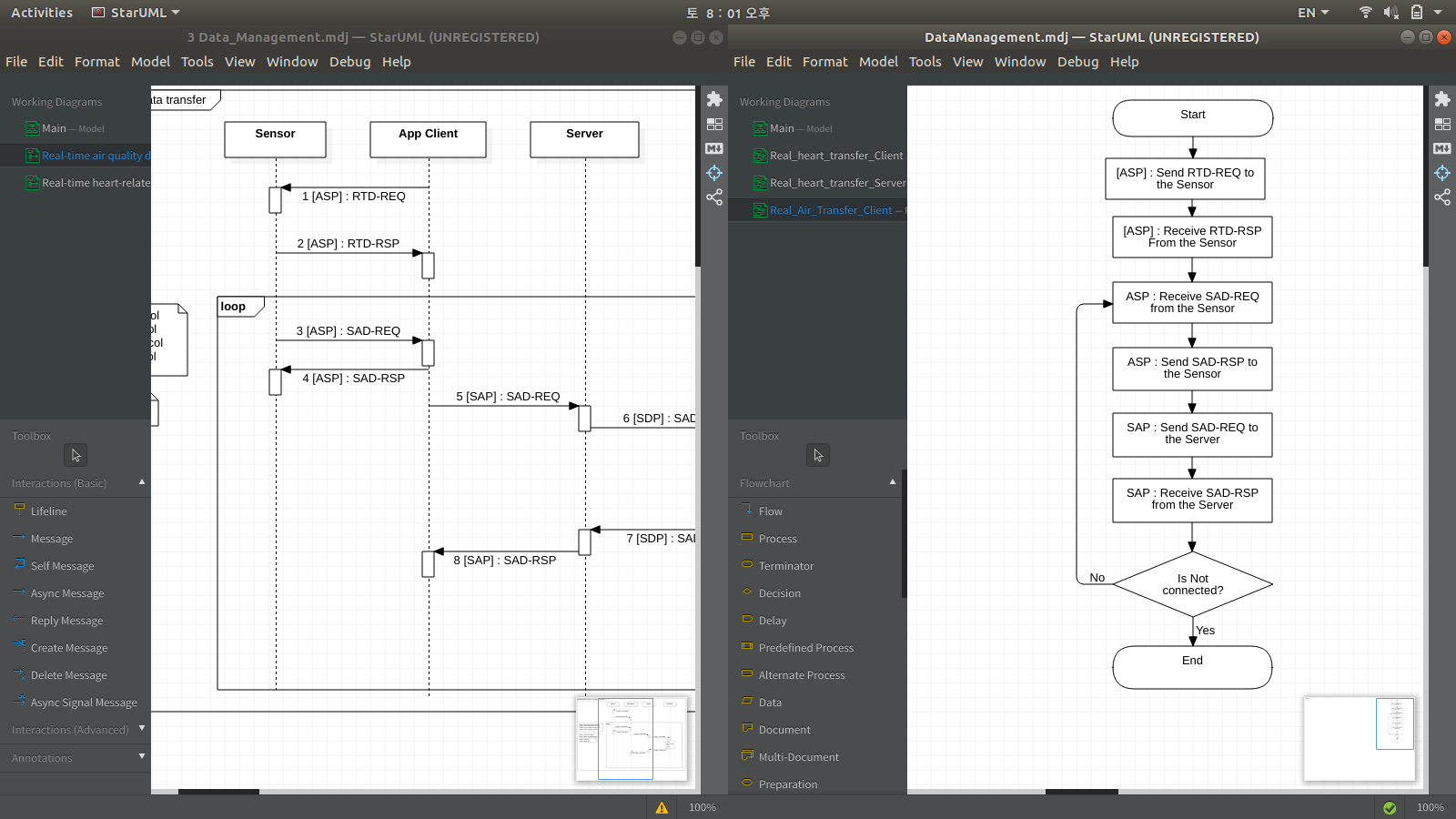
5[.3](#_nxpa35hf9gcx) Data Management

[1)](#_f0qhtupspwpb) Real-time air quality data transfer

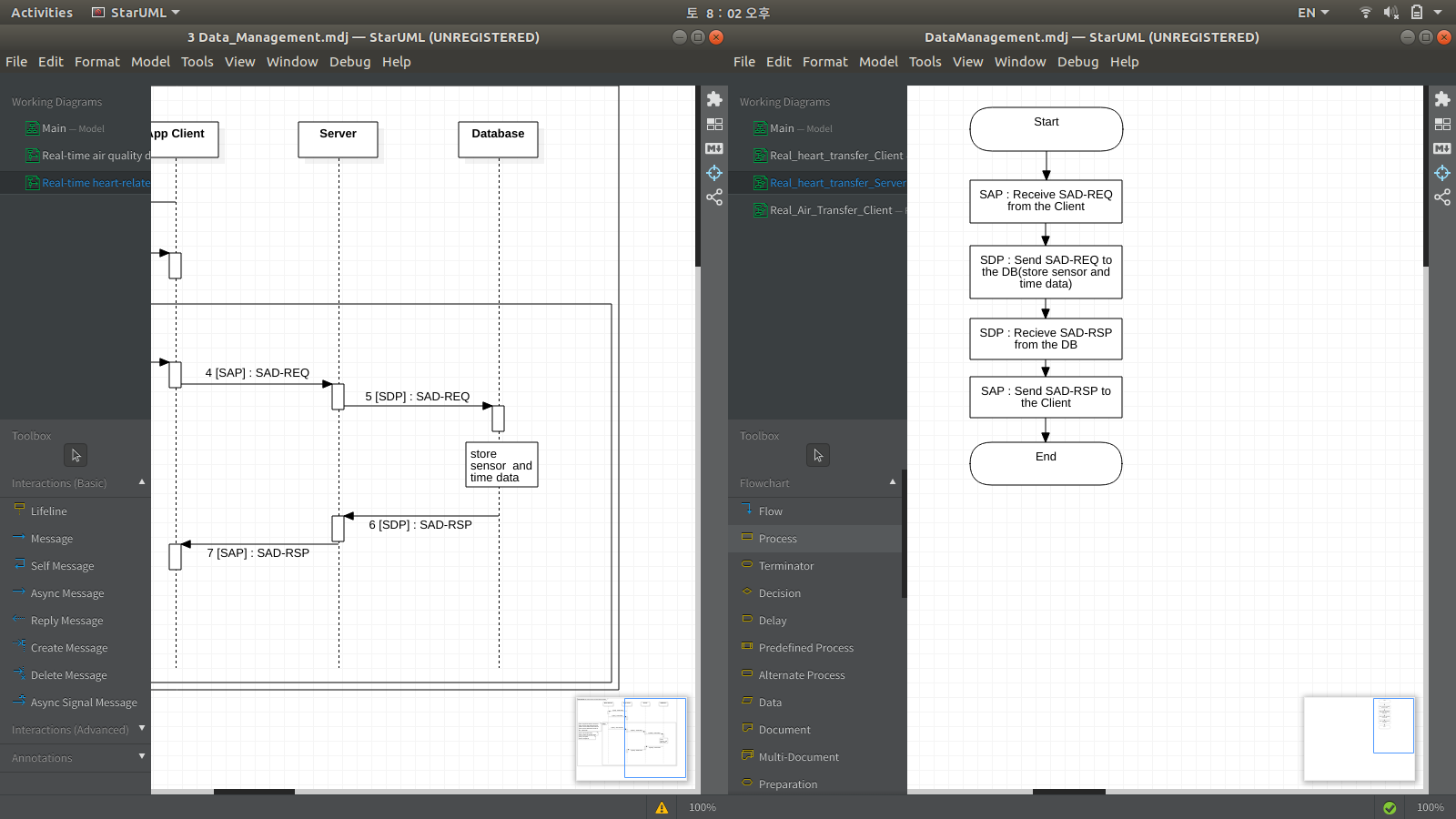
-Sensor



-App

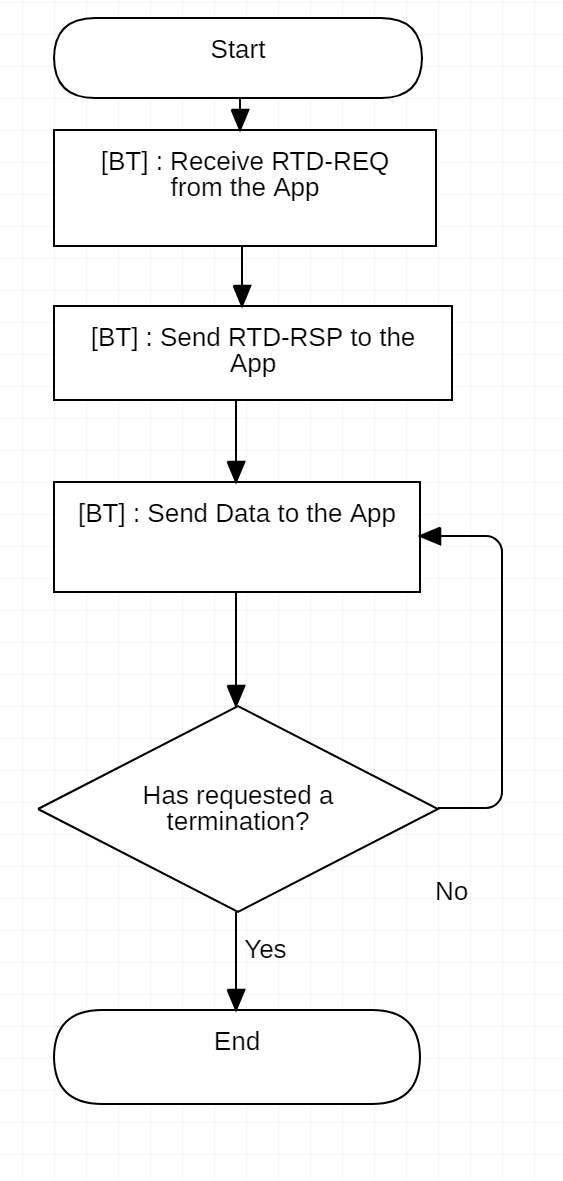


-Server

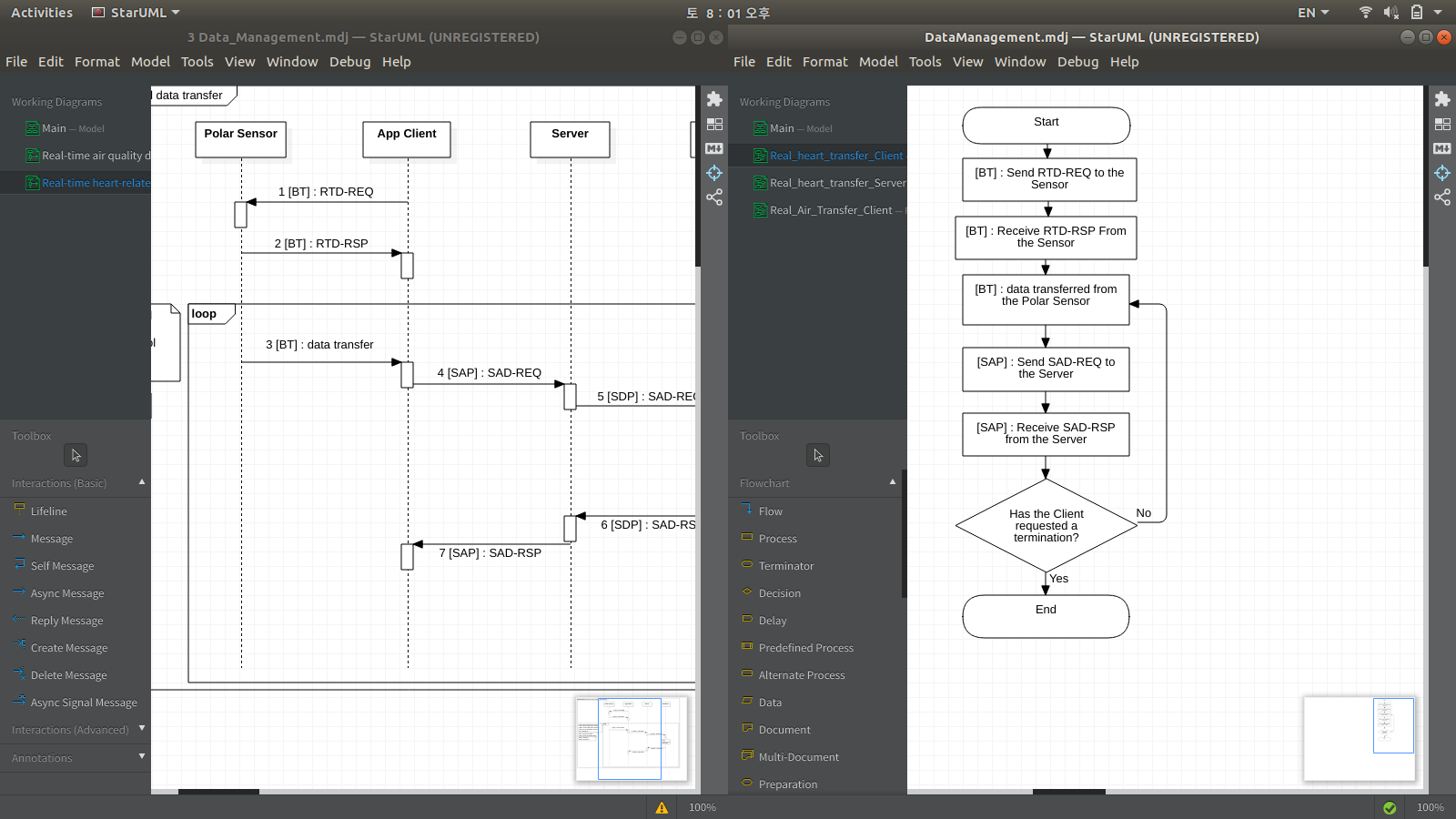


[2)](#_iok1rhsu7695) Real-time heart-related data transfer

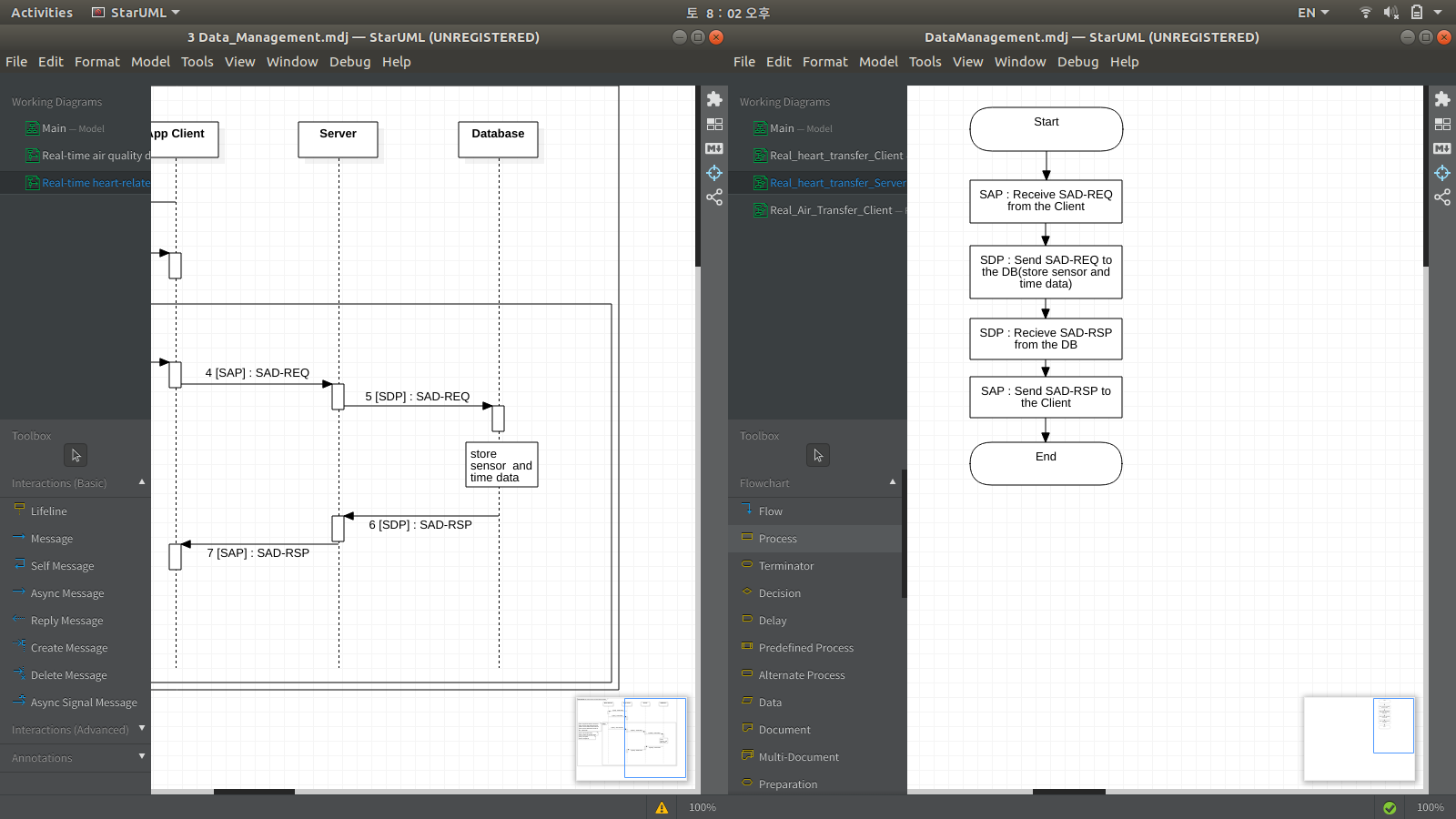
-Sensor



-App



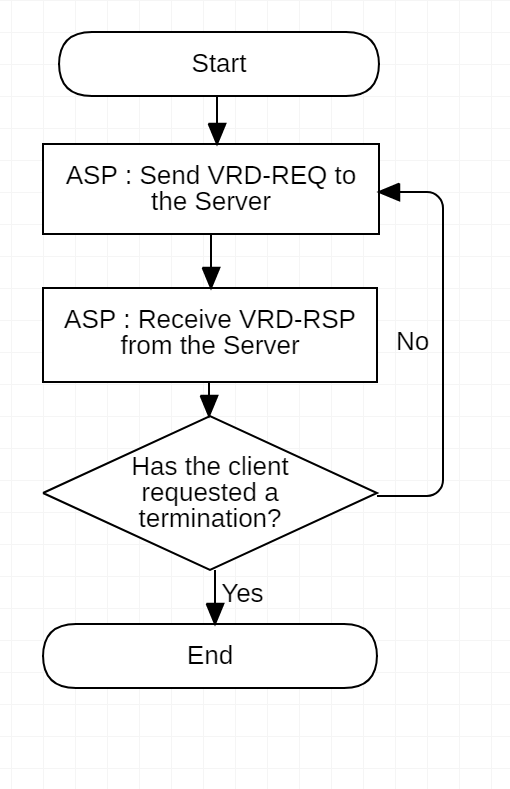
-Server



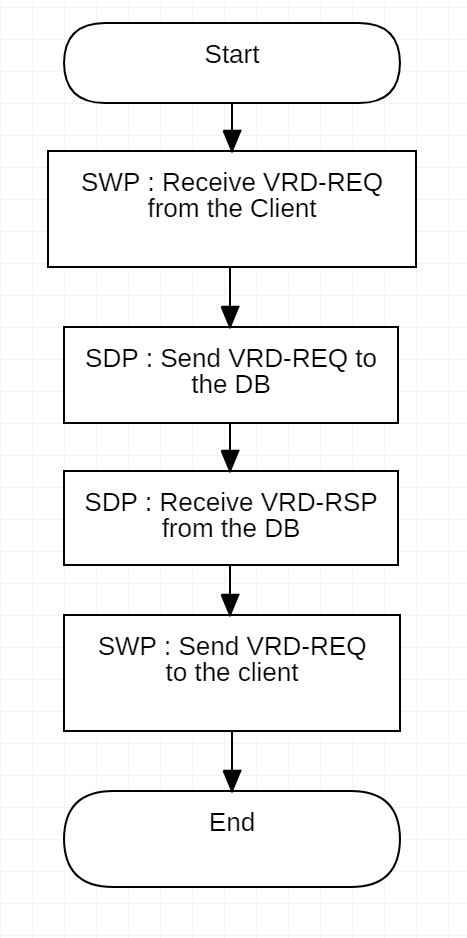
5[.4 Data Monitoring](#_nxpa35hf9gcx)

[1)](#_f0qhtupspwpb) Real-time air quality and heart-related data view

-App & Web

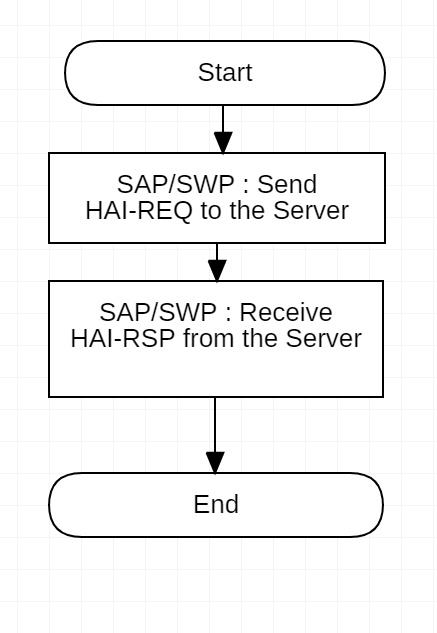


-Server

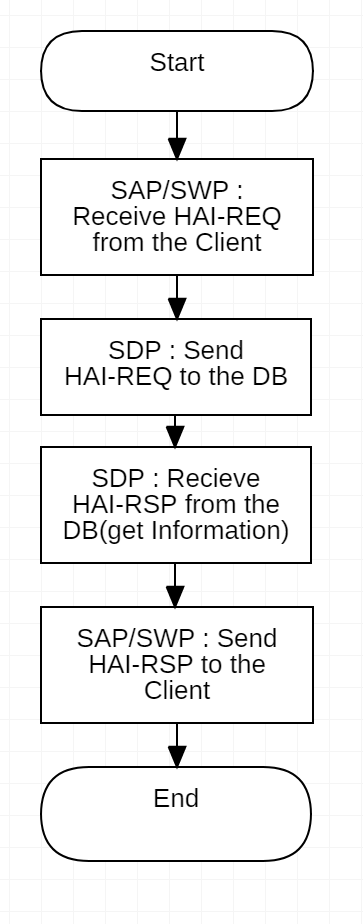


2[)](#_3yiqpxb2dqpq) Historical air quality data view

-App & Web

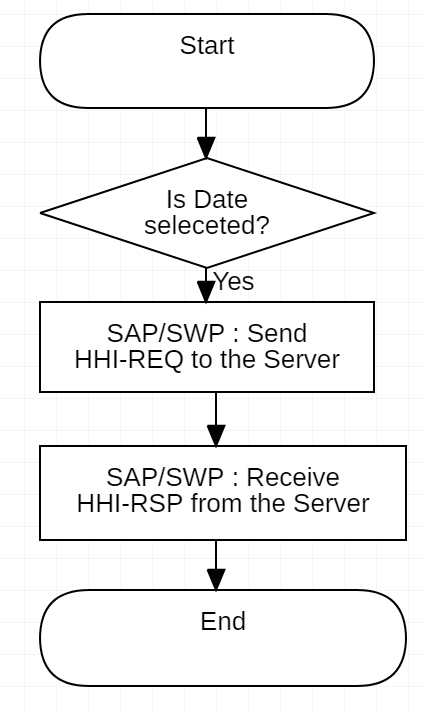


-Server



3[)](#_fpzwmtlrdo05) Historical heart-related data view

-App & Web



-Server

