

# BOARD GAME CAFÉ

## 정산 시스템

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Green Computer Academy

JAVA기반 응용SW엔지니어링 개발자 취업과정

이민영

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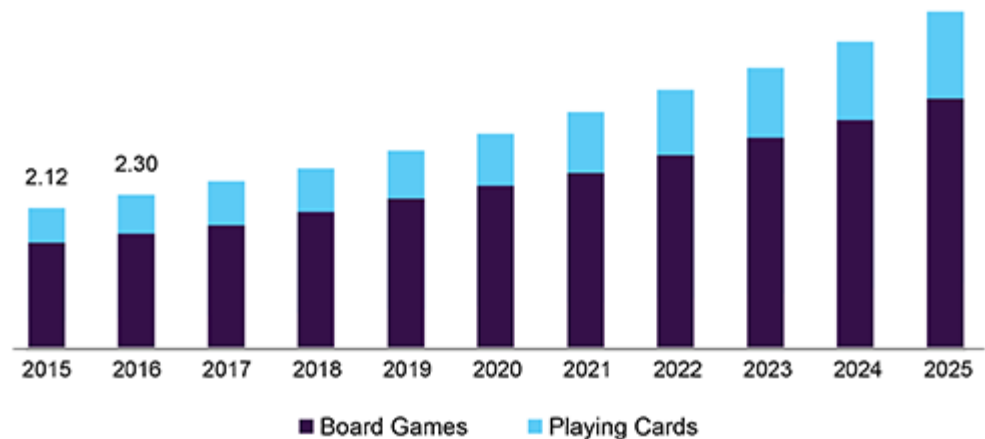
# MOTIVATION & BACKGROUND

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#01

# Background

U.S. playing cards & board games market size, by product, 2015 - 2025 (USD Billion)



Source: [www.grandviewresearch.com](http://www.grandviewresearch.com)

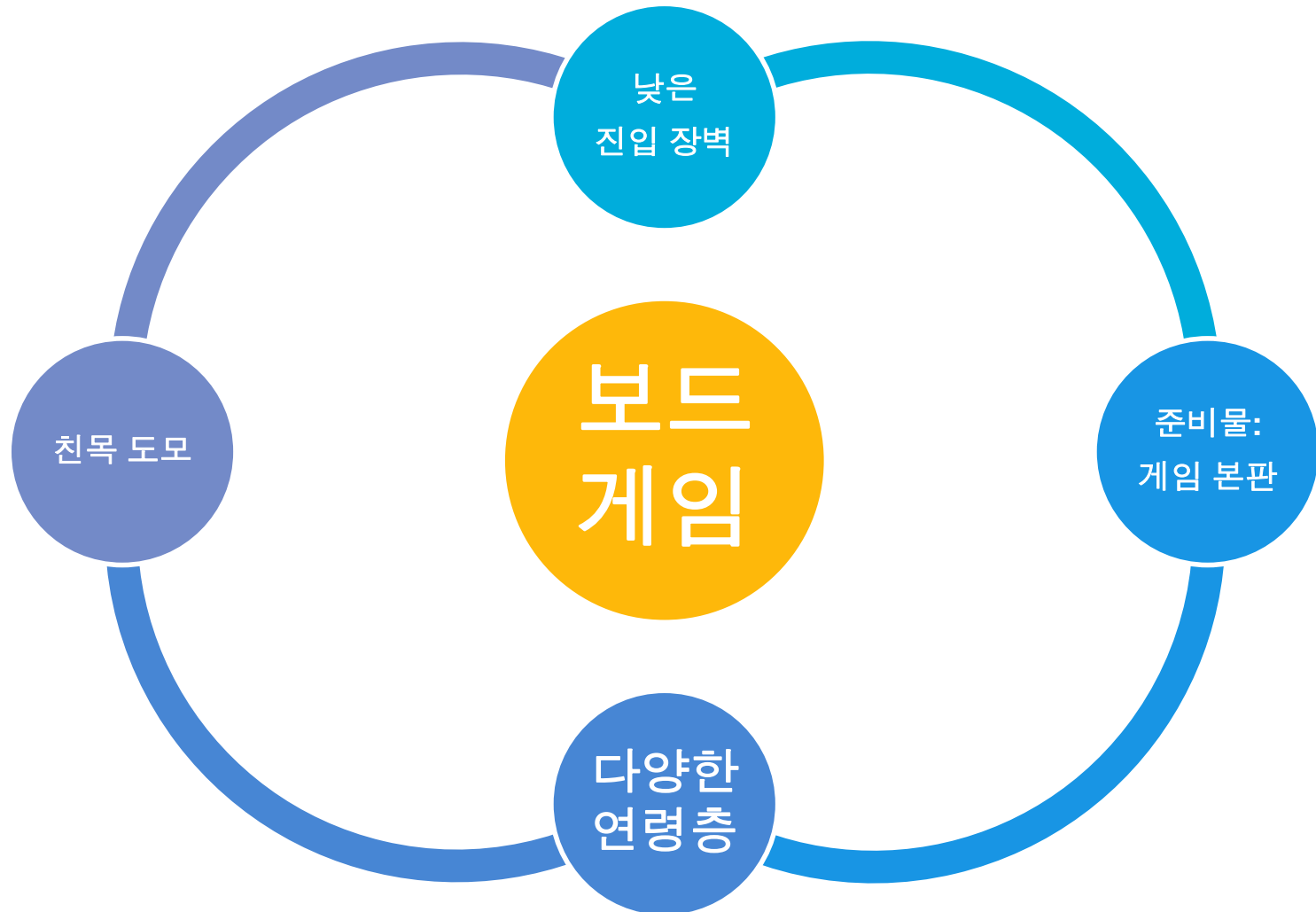
값비싼  
보드게임

보드게임  
산업 증가

보드게  
임 카페

가볍게  
즐기기  
위해

# Why Board Game?



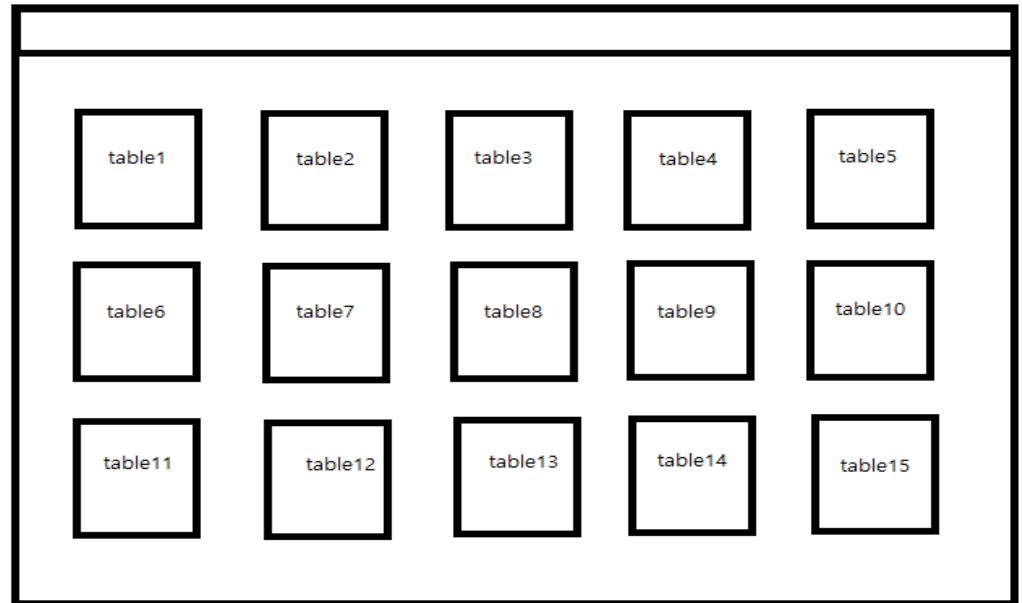
# RESULT SCREEN

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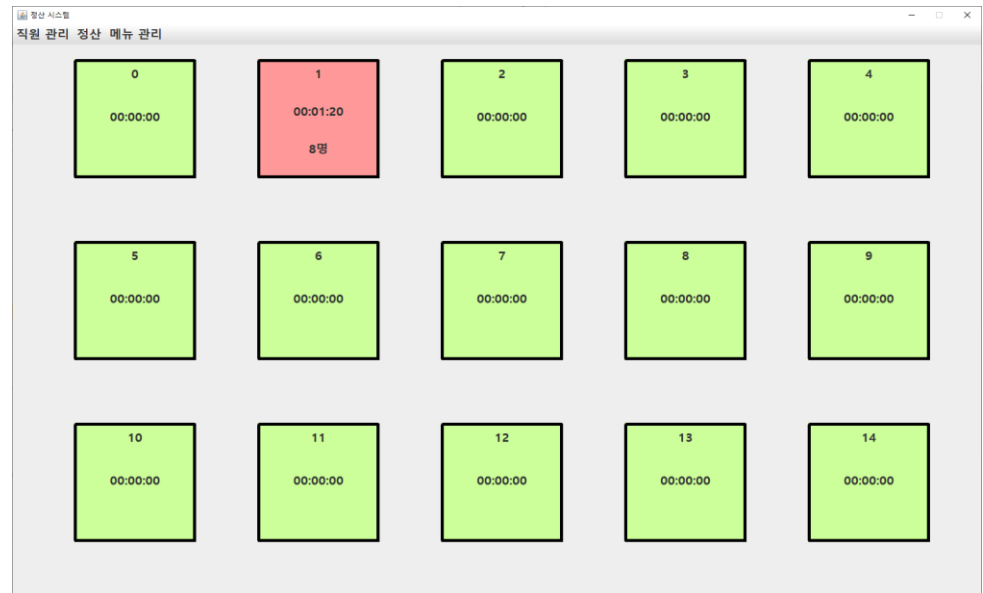
#02

# MainScreen

- 구상



- 실제



# Customer Insert

인원수 입력

인원: textfield

확인 취소

- 구상

인원수 ...

인원: 8

확인 취소

- 실제



# Employee Insert

등록

이름: textfield

권한: choice

비밀번호: textfield  
setechochar

확인버튼 취소버튼

- 구상

직원 등록

이름:

권한:

암호:

등록 취소

- 실제

# Authority Change

권한 변경

이름:

현재 권한:

변경할 권한:

매니저 이상 비밀번호:

- 구상

권한 변경

이름:

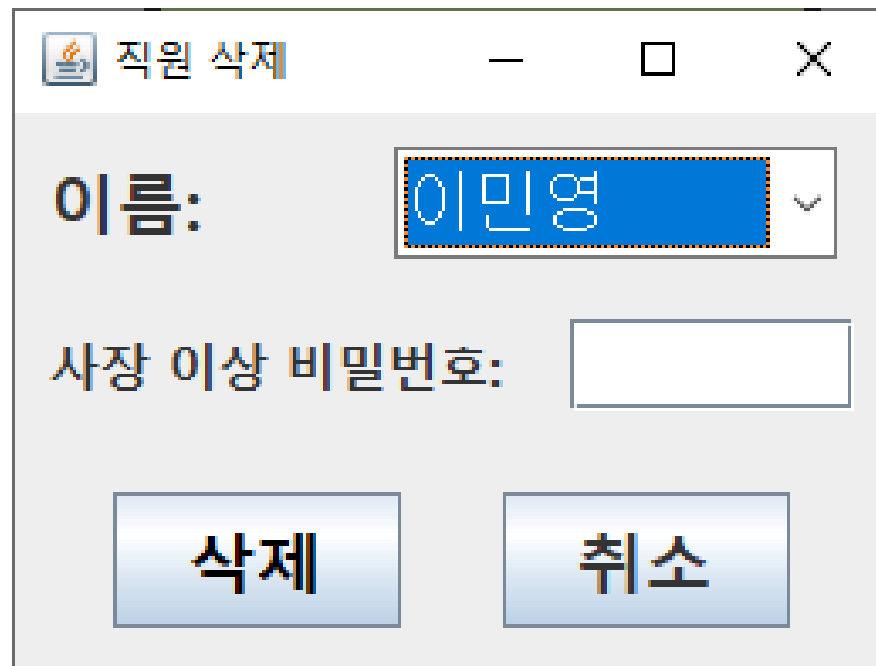
현재 권한:

변경할 권한:

매니저 이상 비밀번호:

- 실제

# Employee Delete



A screenshot of a Windows-style dialog box titled "직원 삭제" (Employee Delete). The dialog box has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray. It contains two labels: "이름:" (Name) and "사장 이상 비밀번호:" (Password of the manager or above). The "이름:" label is followed by a blue dropdown menu with the text "이민영" (Lee Min-young) and a small downward arrow. The "사장 이상 비밀번호:" label is followed by an empty white text input field. At the bottom of the dialog box, there are two buttons: "삭제" (Delete) and "취소" (Cancel). Both buttons have a blue gradient and a white border.

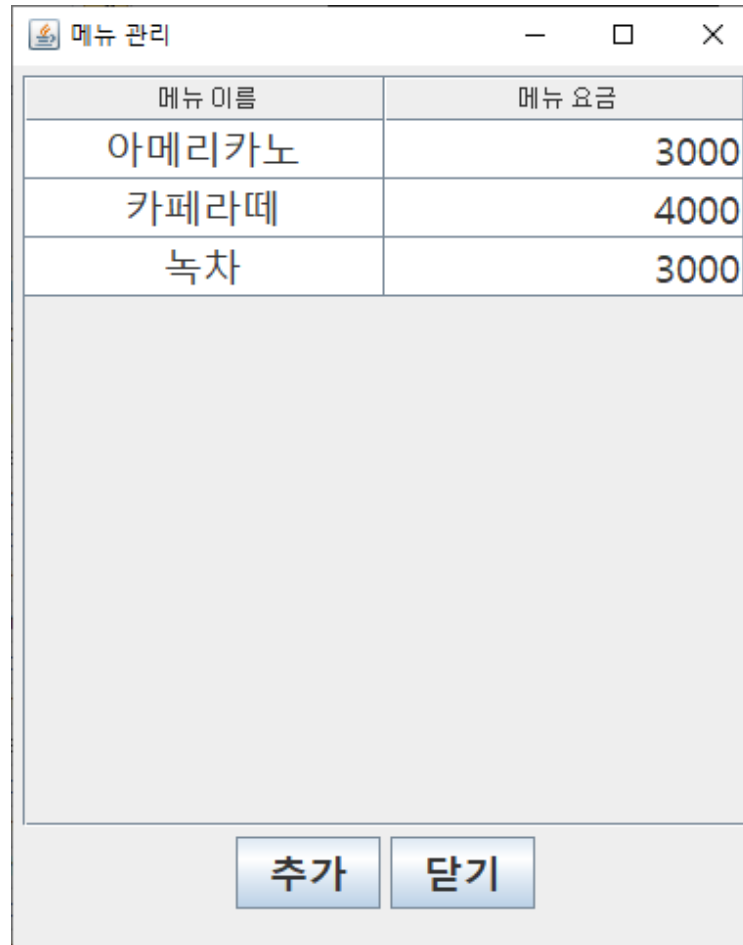
직원 삭제

이름: 이민영

사장 이상 비밀번호:

삭제 취소


# Menu Management



메뉴 이름	메뉴 요금
아메리카노	3000
카페라떼	4000
녹차	3000

추가 닫기

# Menu Order

 음료 주문

2020-12-11 09:39:58

Table # 1

메뉴 이름	가격
아메리카노	3000
카페라떼	4000
녹차	3000

추가

제거

메뉴 이름	갯수	합계 가격
아메리카노	2	6000
카페라떼	1	4000
녹차	3	9000

총 요금: 19000

권한 입력:

결제

취소

# Sales Table for Menu

날짜 선택 가능/모두

정산자선택/모두

날짜/시간	Table	정산자	음료 종류/잔 수	요금

요금 합계:

• 구상

• 실제

음료 요금 정산

날짜: 

모두


이름: 

모두

날짜/시간	Table	정산자	음료 종류/잔 수	요금
2020-11-26 17:06:29	0	이민영	아메리카노-3잔 / 카...	17000
2020-11-30 09:43:44	7	이민영	아메리카노-2잔 / 녹...	13000
2020-12-04 13:58:52	5	이민영	녹차-2잔 / 카페라떼...	26000
2020-12-04 13:59:15	7	기린	카페라떼-2잔 / 아메...	17000
2020-12-04 13:59:32	11	알바1	카페라떼-3잔 /	12000
2020-12-11 09:39:58	1	이민영	아메리카노-2잔 / 카...	19000

요금 합계: 104000

# Hourly Cost Change

 요금제 변경

현재 요금:

3000

변경 요금:

권한 입력:

변경

취소

# Calculate Sales per Time

권한 입력

비밀번호: textfield echochar

- 구상

정산

이용 시간: 00:08:52

사용 인원: 8 명

합계 요금: 3200 원

권한 입력: \*\*\*\*

- 실제



# Sales Table for Time

날짜 선택 가능/모두

정산자선택/모두

날짜/시간	Table	정산자	시간(분)	인원수	요금

요금 합계:

• 구상

• 실제

시간당 요금 정산

날짜:  이름:

날짜/시간	Table	정산자	시간(분)	인원수	요금
2020-11-20 15:44:14	5	기린	0	2	0
2020-11-20 15:44:17	2	기린	0	2	0
2020-11-20 15:44:20	1	기린	0	2	0
2020-11-20 15:44:23	0	기린	0	2	0
2020-11-20 16:31:42	0	알바1	1	8	400
2020-11-20 16:33:31	7	이민영	20	8	8000
2020-11-20 16:49:11	0	기린	60	5	15000
2020-11-30 09:48:23	7	이민영	14	8	5600
2020-12-04 16:24:06	5	이민영	143	8	57200
2020-12-04 16:24:11	7	기린	143	7	50050
2020-12-04 16:24:17	11	알바1	143	3	21450
2020-12-11 09:43:53	1	기린	8	8	3200

요금 합계: 216200

# DEVELOPMENT TOOLS

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#03

# 개발 도구

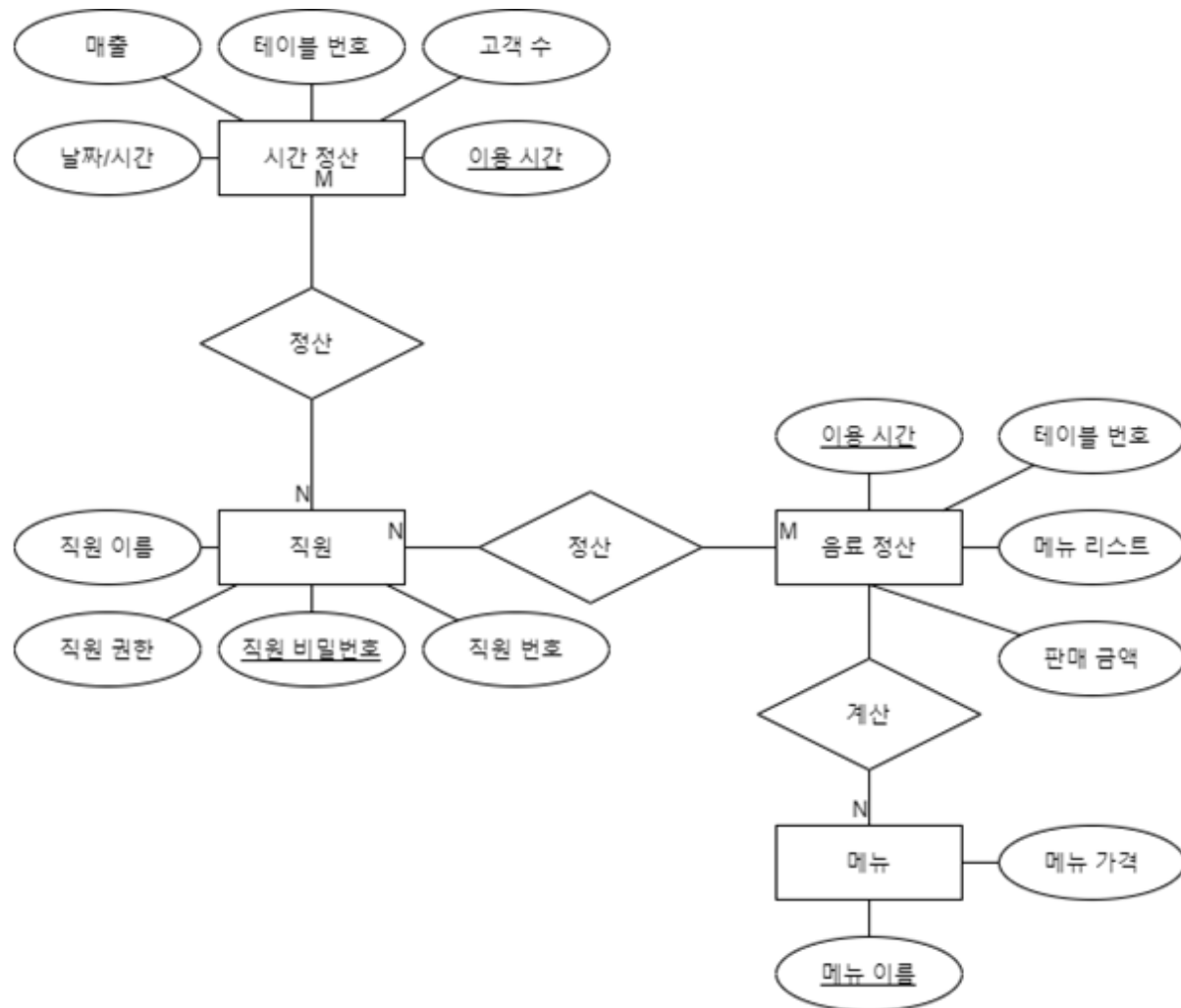
- Eclipse: [Eclipse 4.16.0 \(2020-06\)](#)
- WindowBuilder: [Eclipse WindowBuilder 1.8.1](#)
- Object Aid: [Eclipse ObjectAid 1.2.4 \(2019-12-31\)](#)
- Java: [Java SE Development Kit 8u271](#)
- Oracle: [Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production](#)
- DBeaver: [DBeaver Community Edition 7.2.4.202011011603](#)
- Diagram: [Diagrams.net](#)
- Github:  
[https://github.com/YeongL/JAVA\\_CLASS\\_2020/tree/main/library/BoardGameCafe](https://github.com/YeongL/JAVA_CLASS_2020/tree/main/library/BoardGameCafe)

# DIAGRAMS

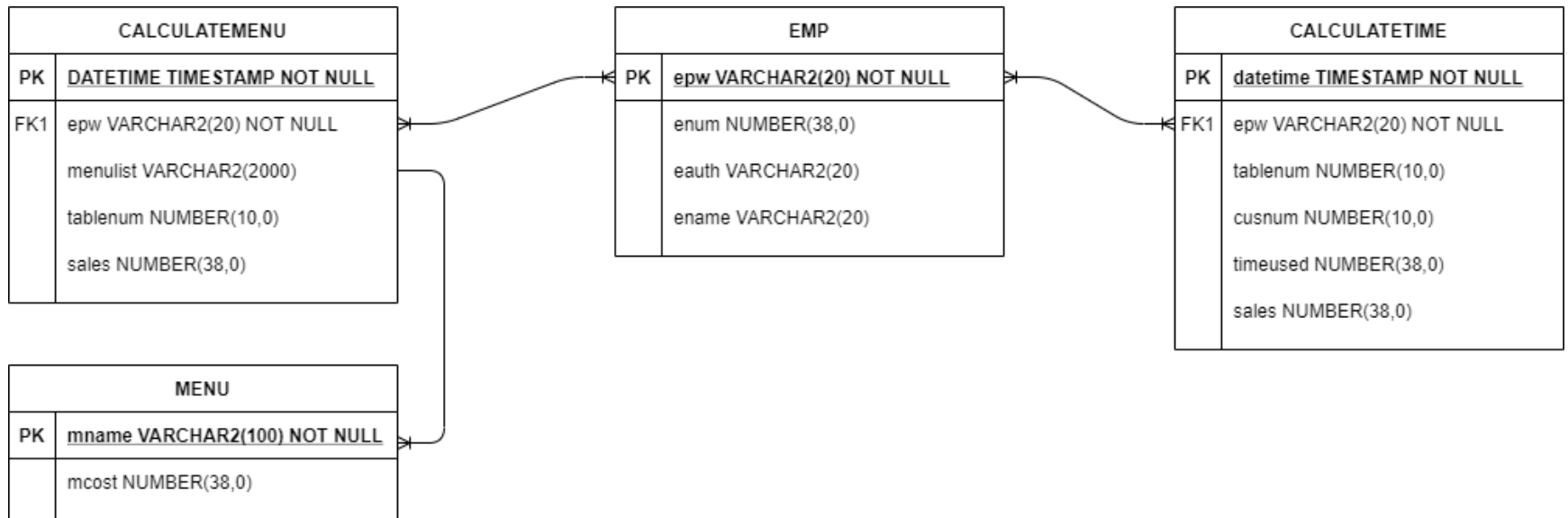
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#04

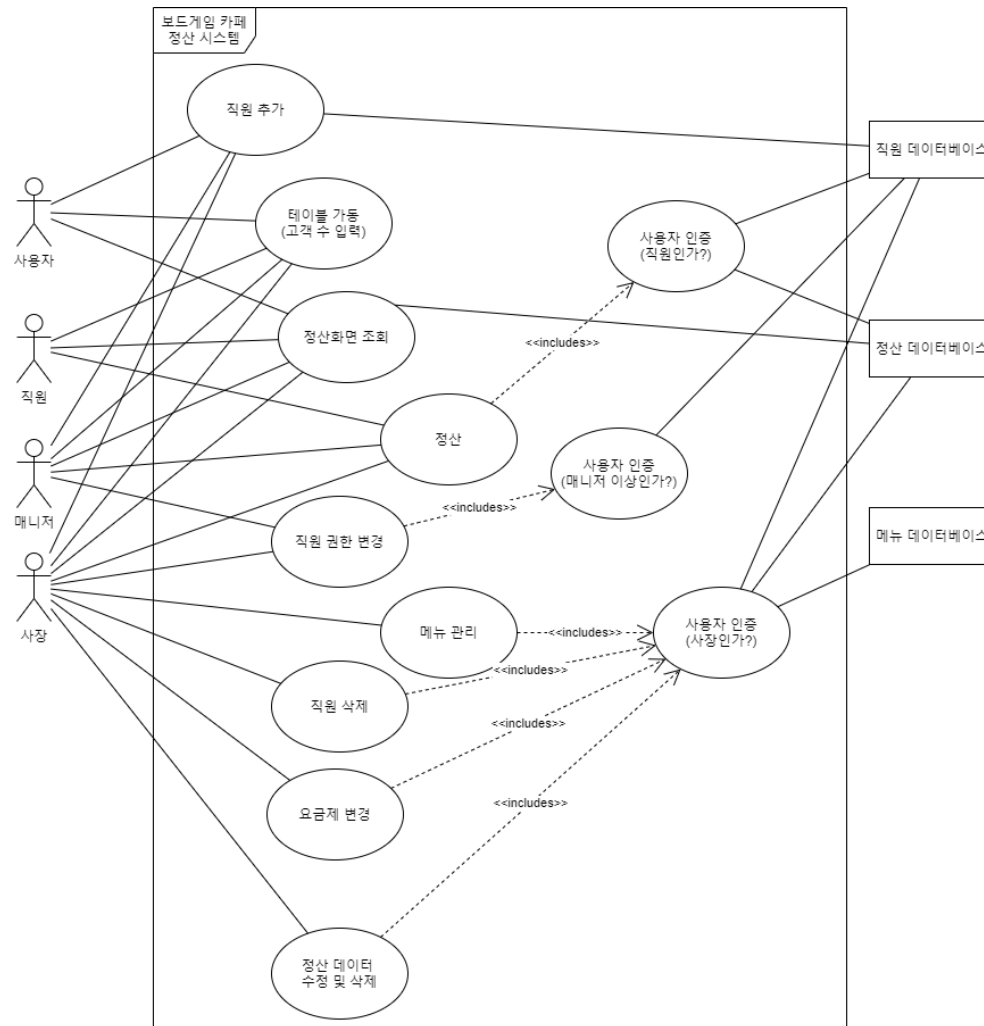
# ER Diagram



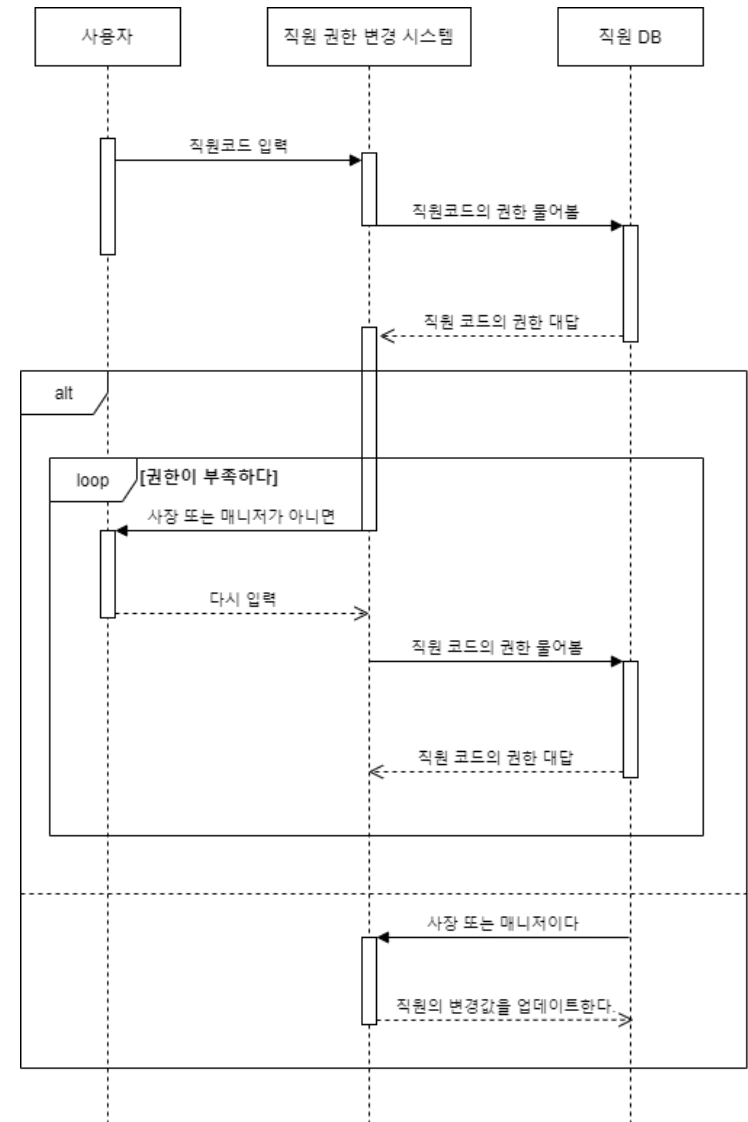
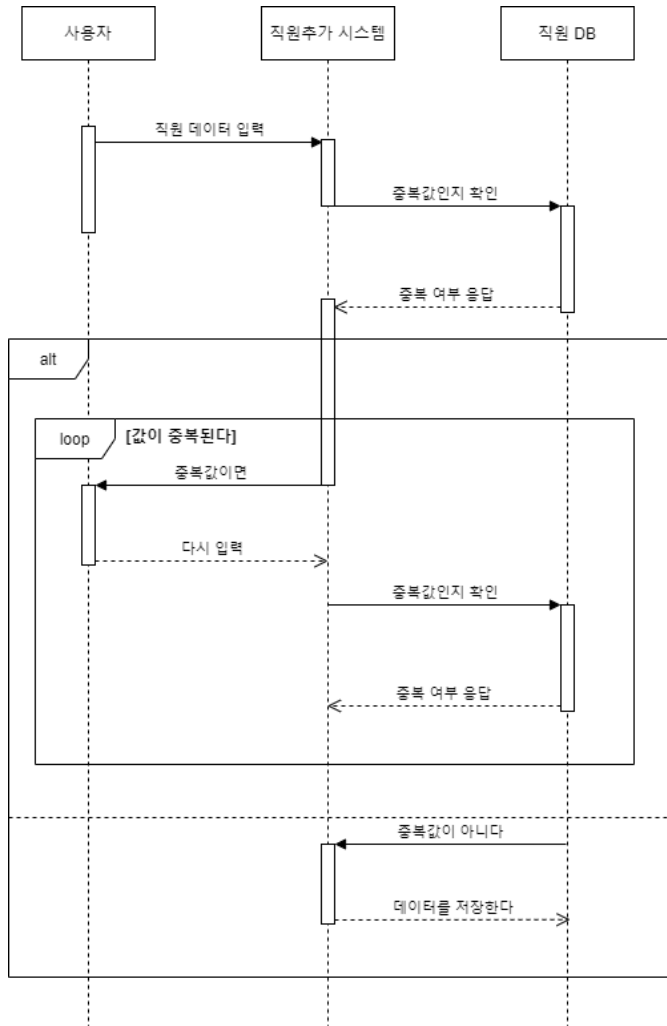
# Relational Schema



# Use Case Diagram

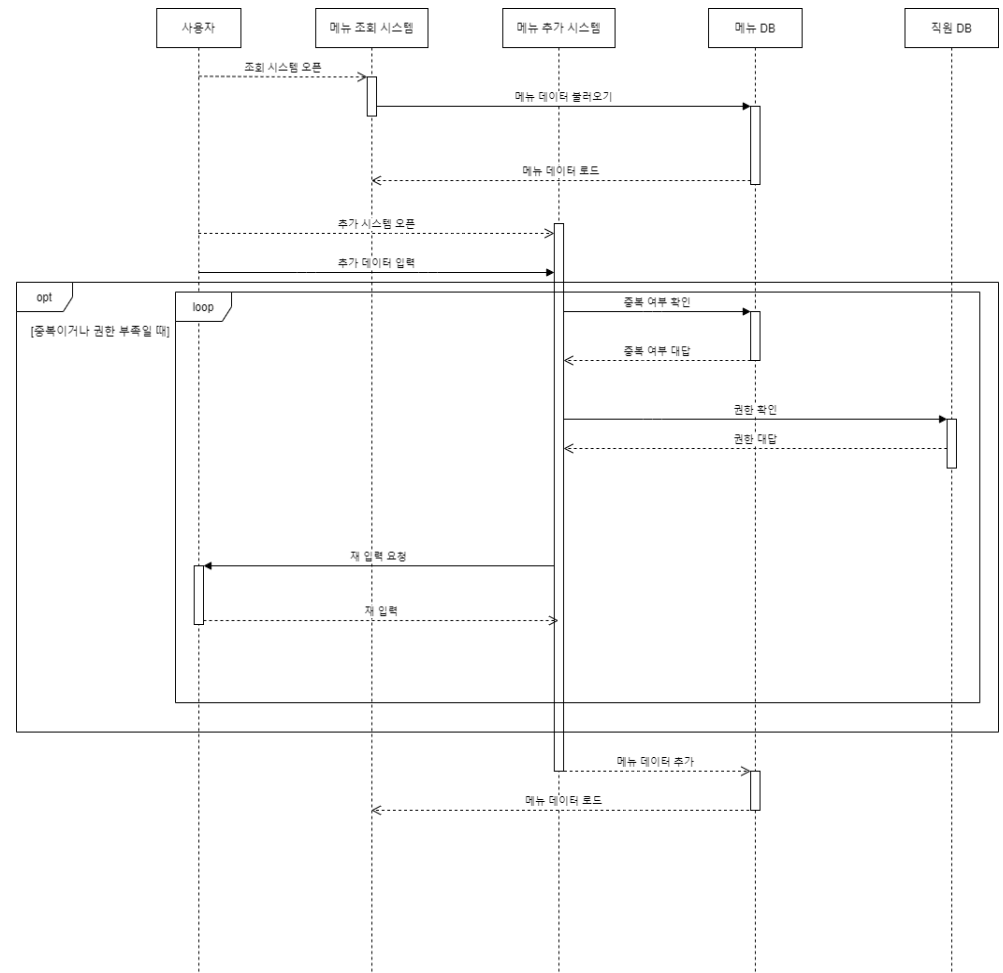
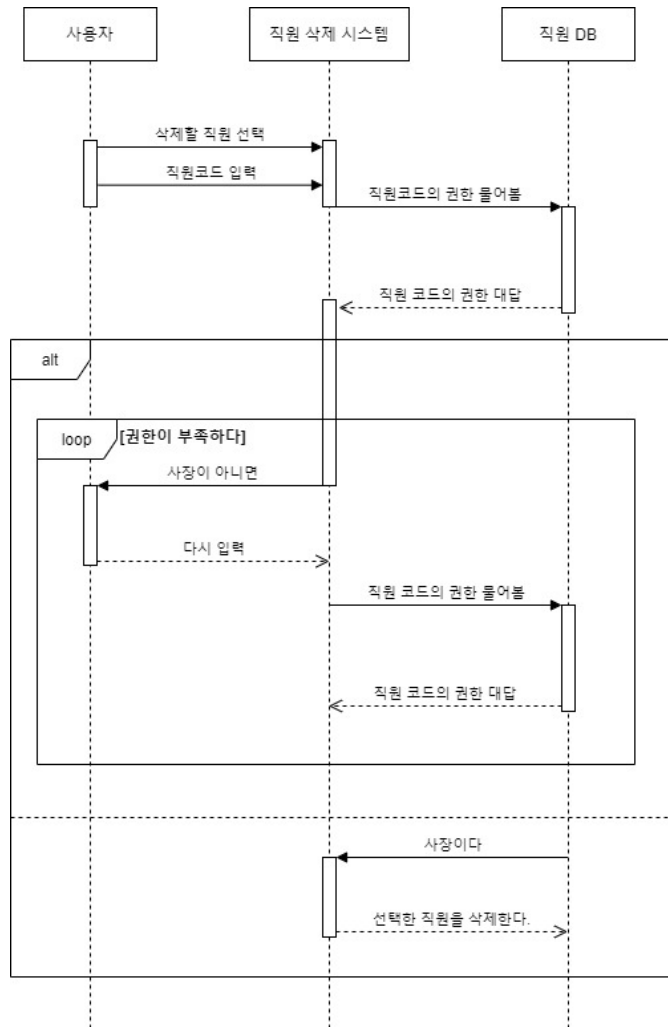


# Sequence Diagram

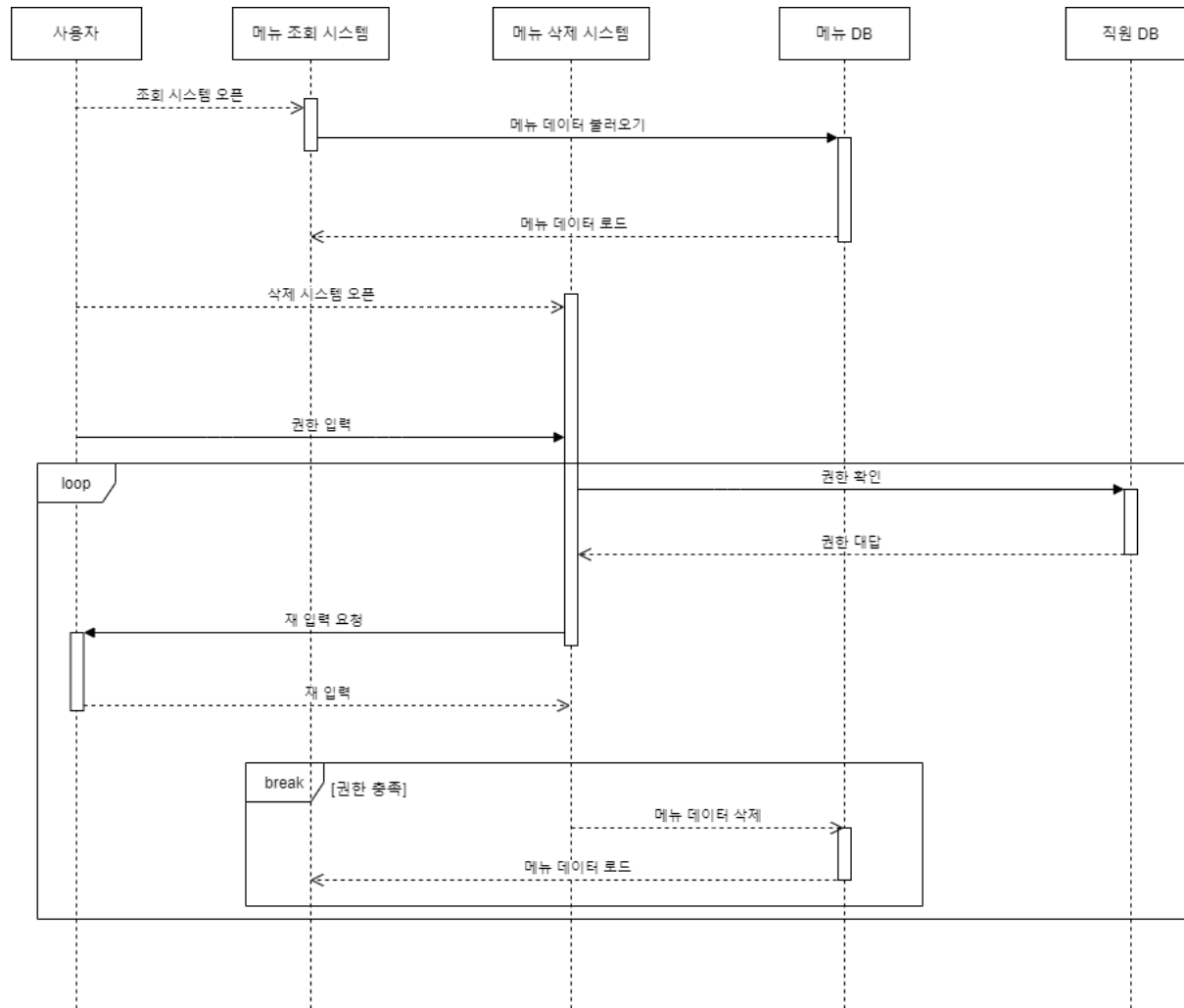




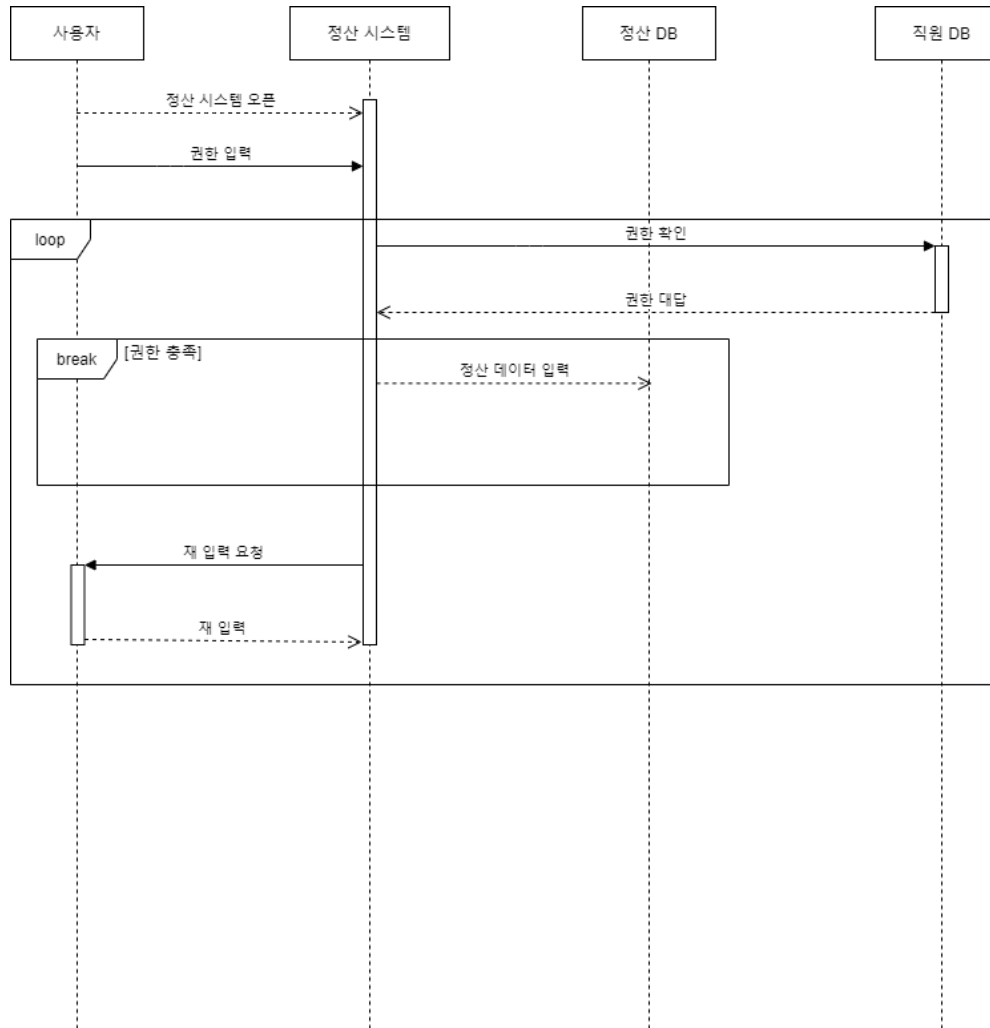
# Sequence Diagram



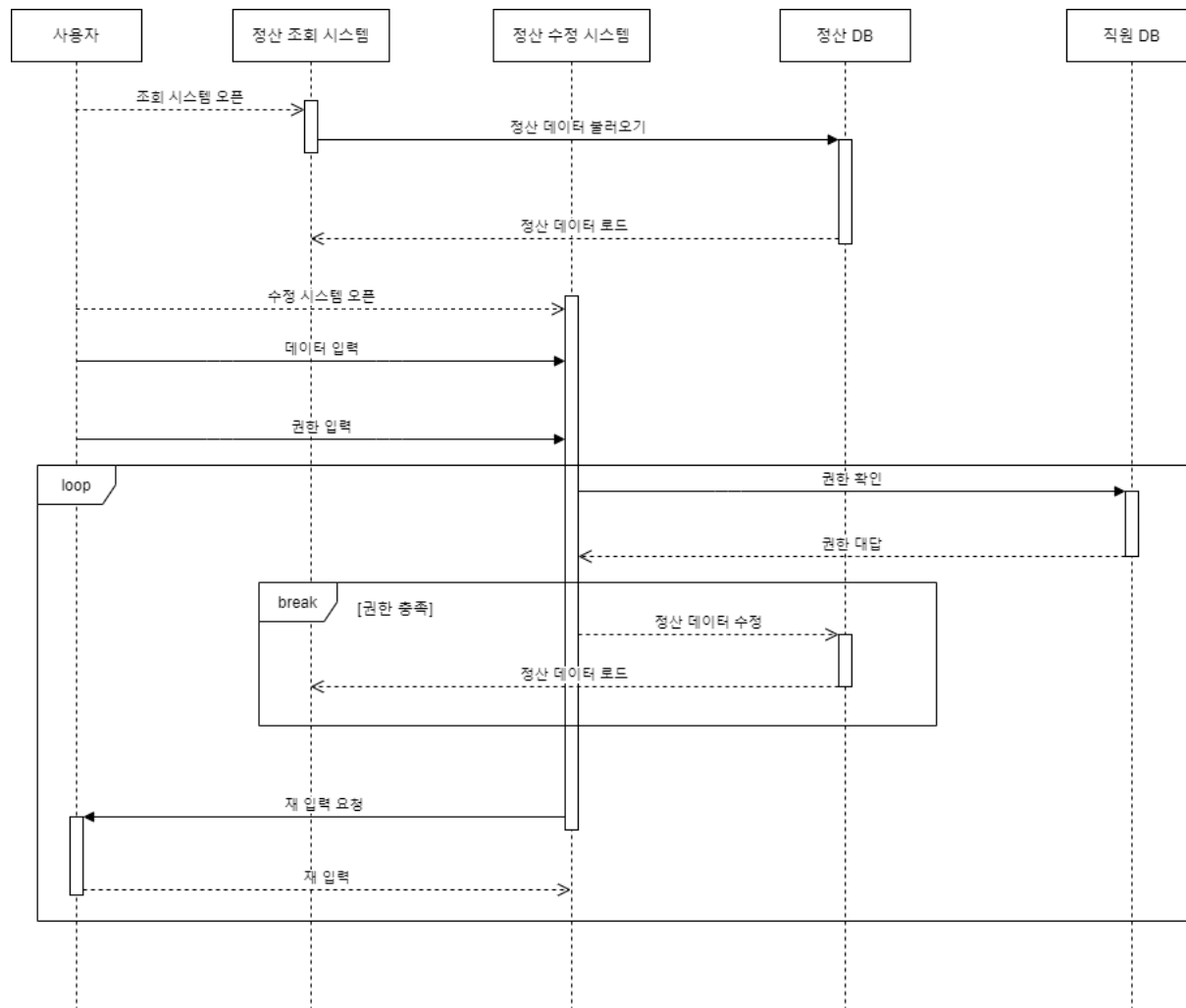
# Sequence Diagram



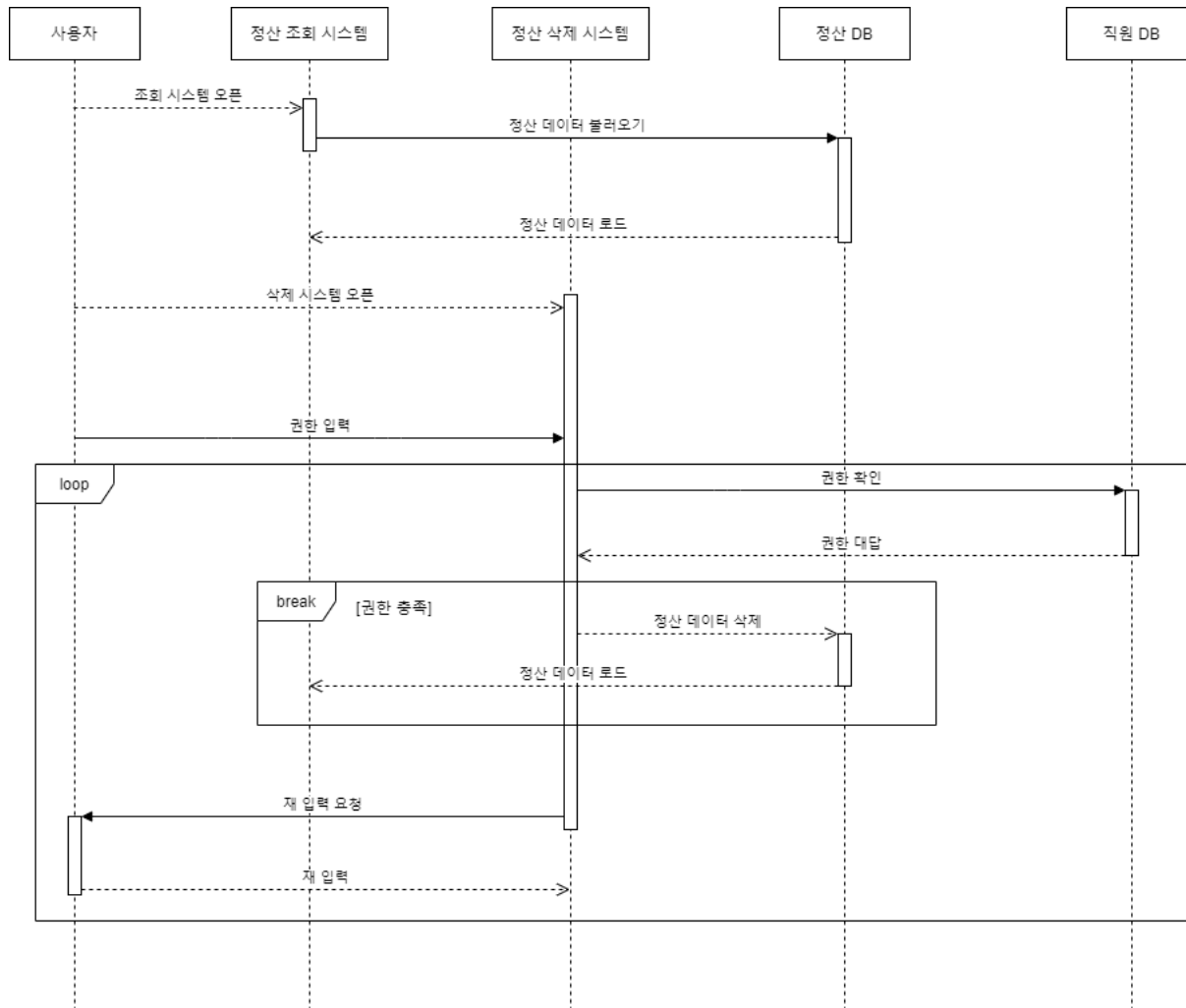
# Sequence Diagram



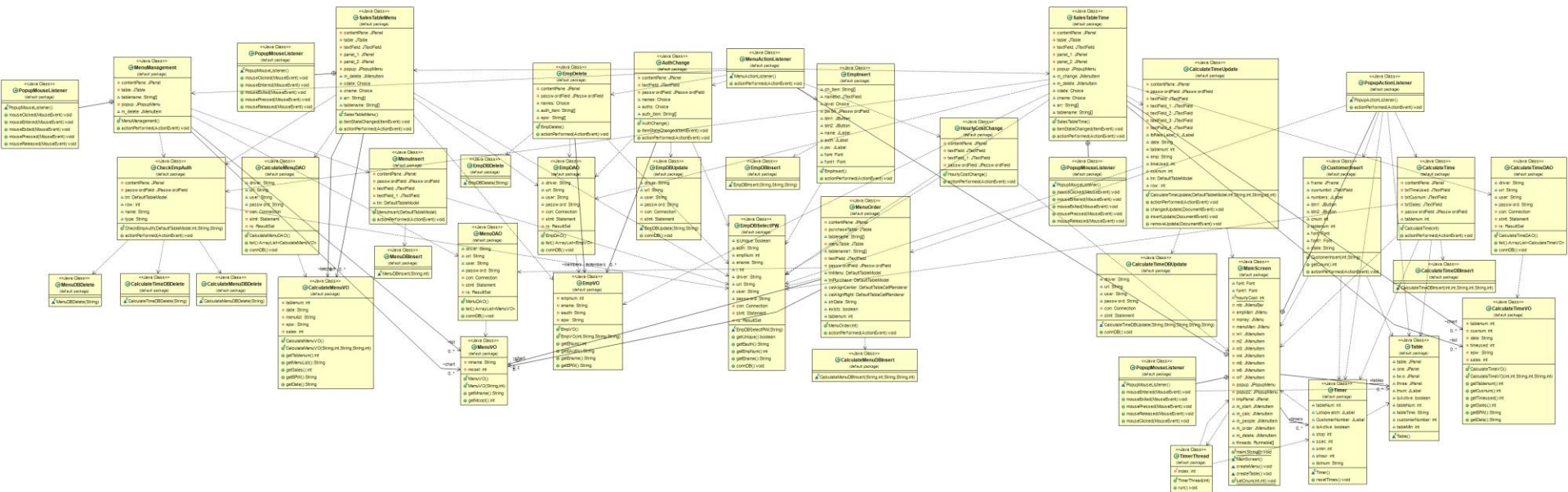
# Sequence Diagram



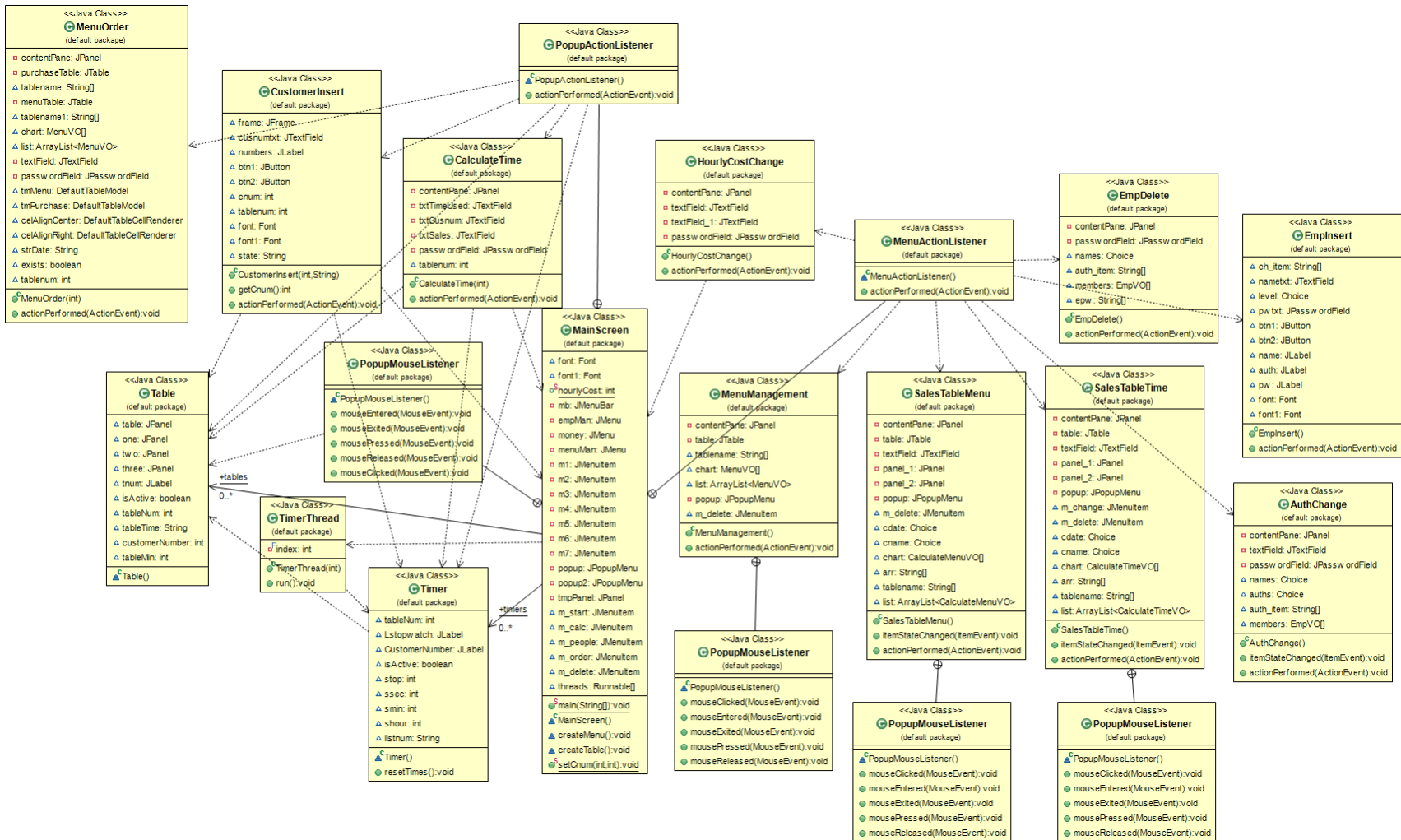
# Sequence Diagram



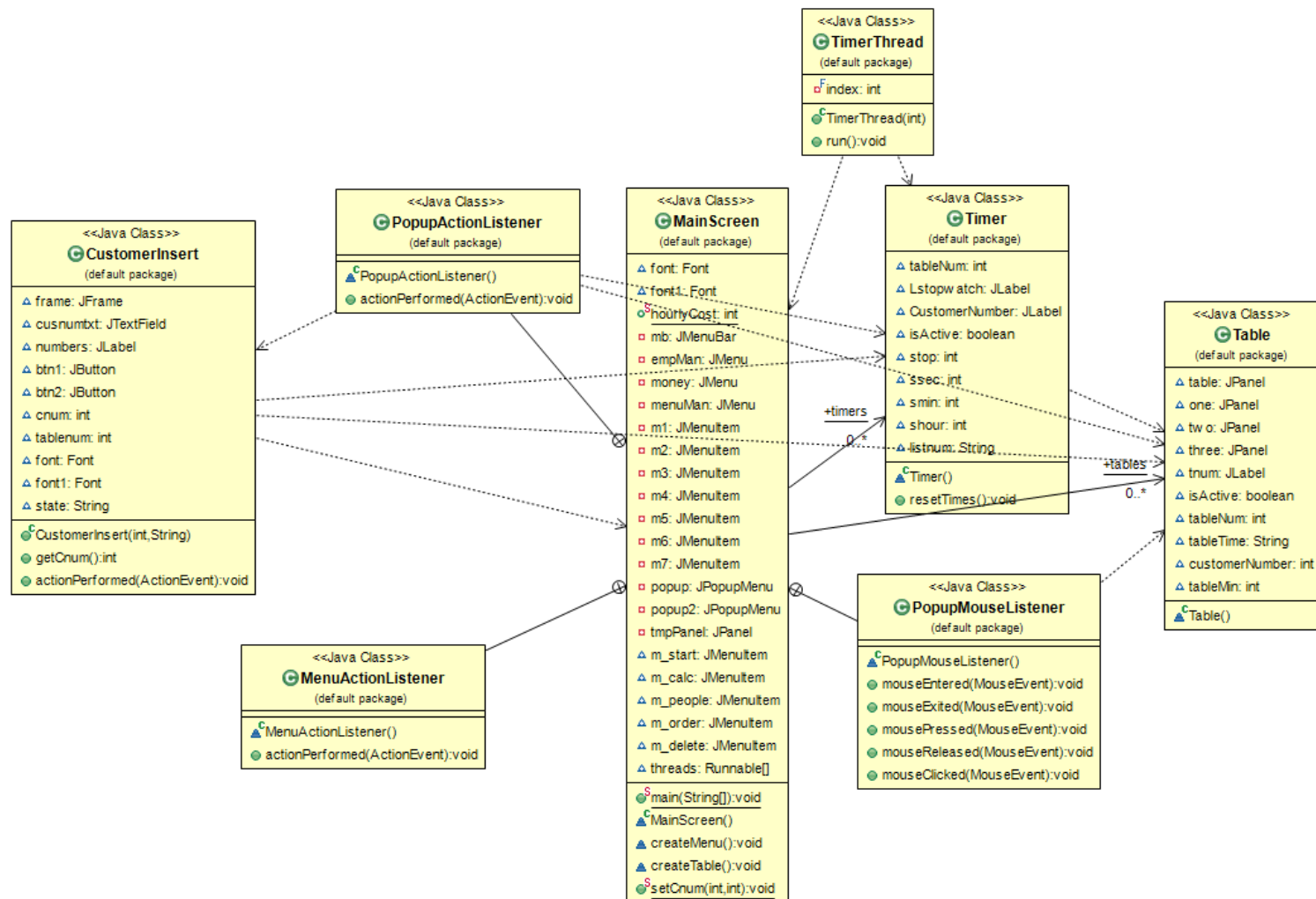
- Overall Class Diagram



# Class Diagram

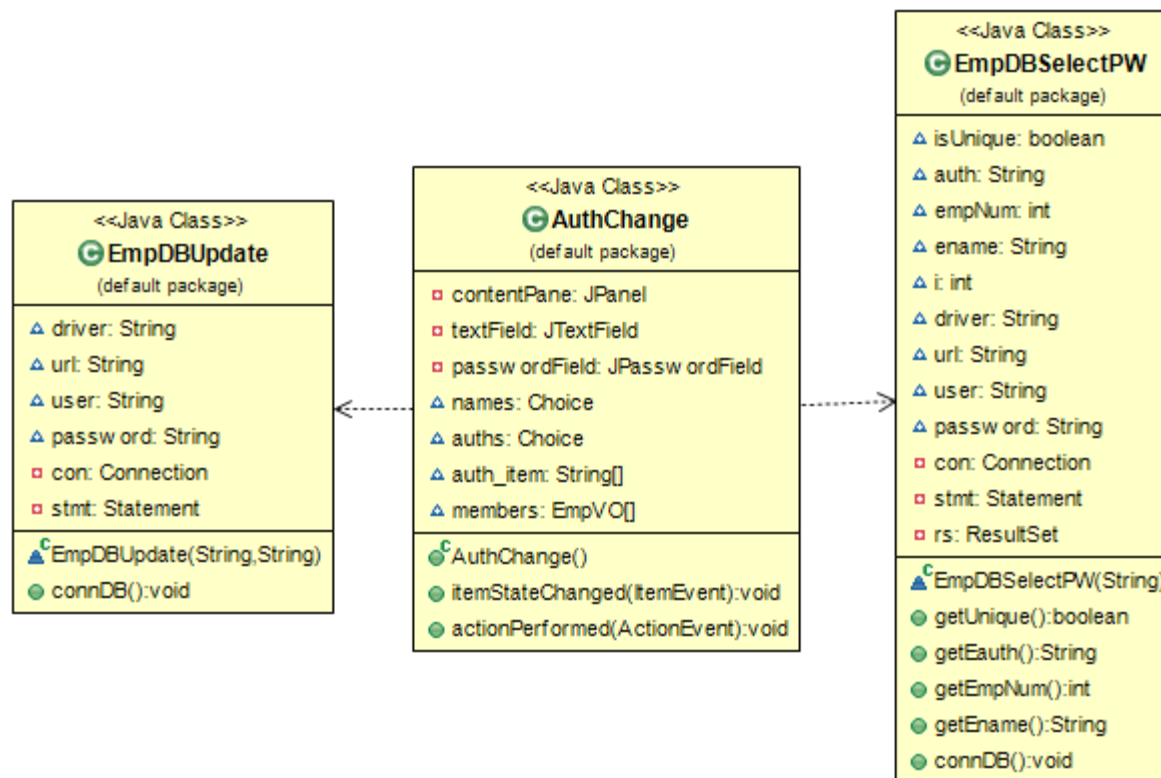


# Class Diagram

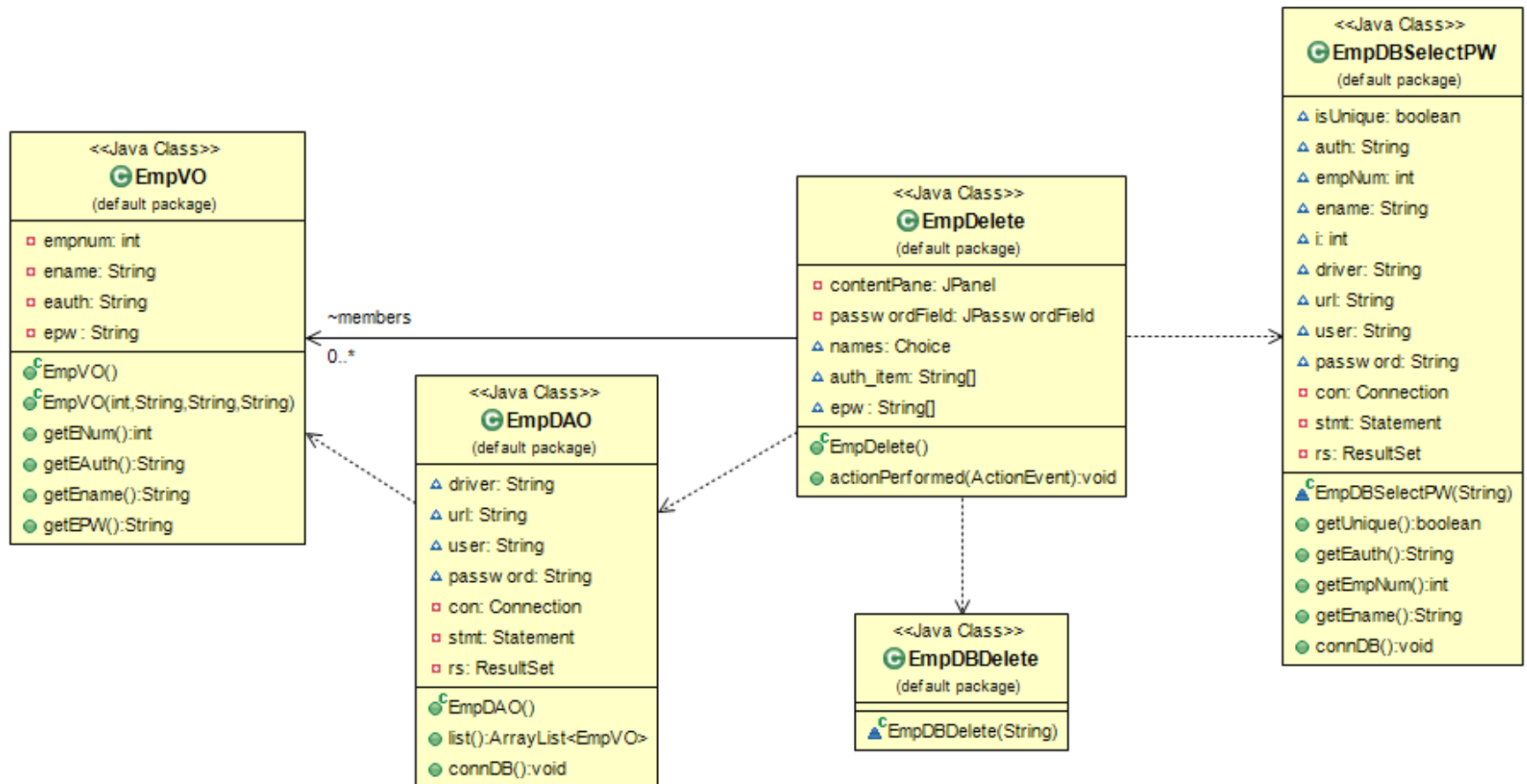




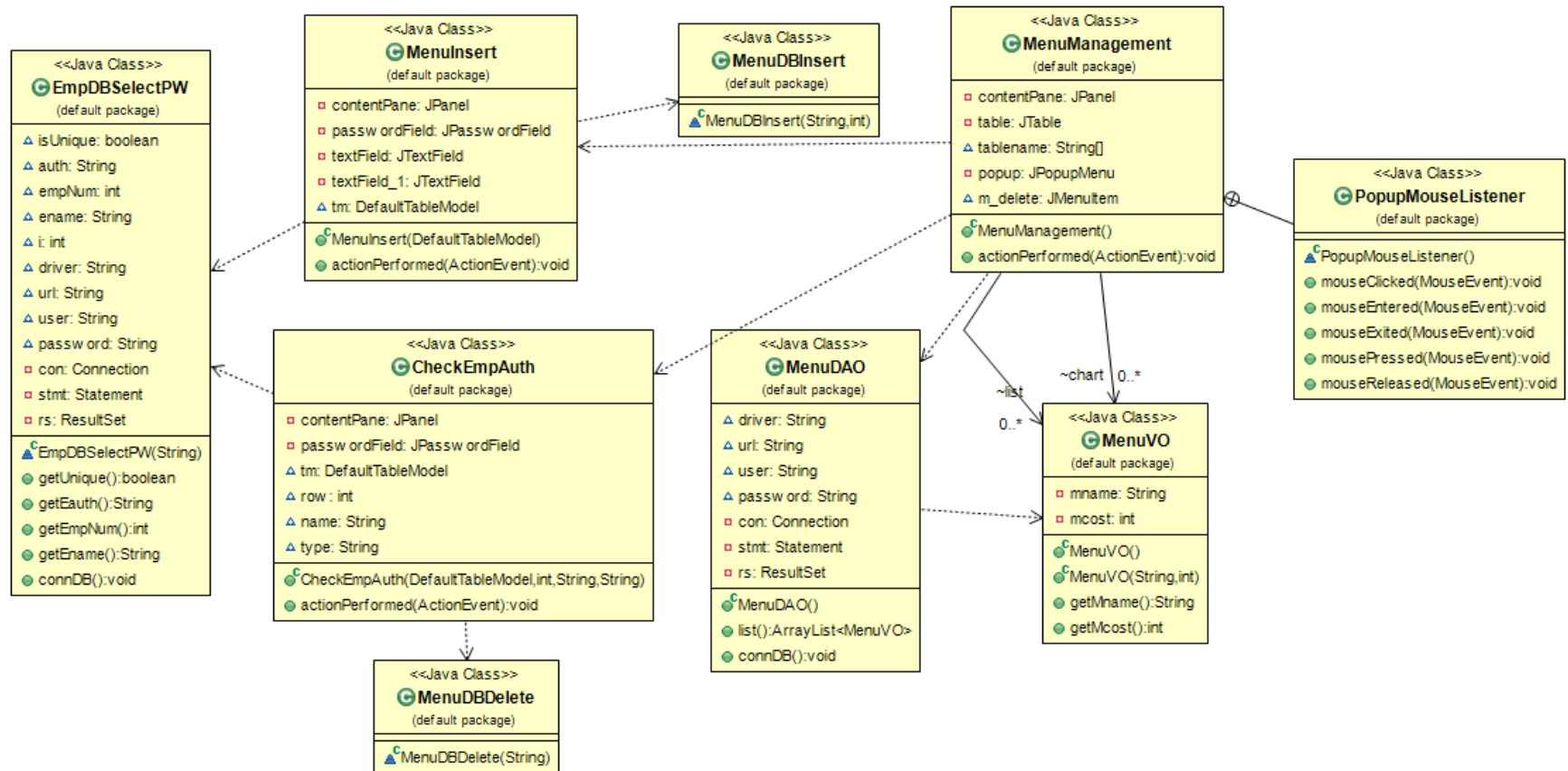
# Class Diagram



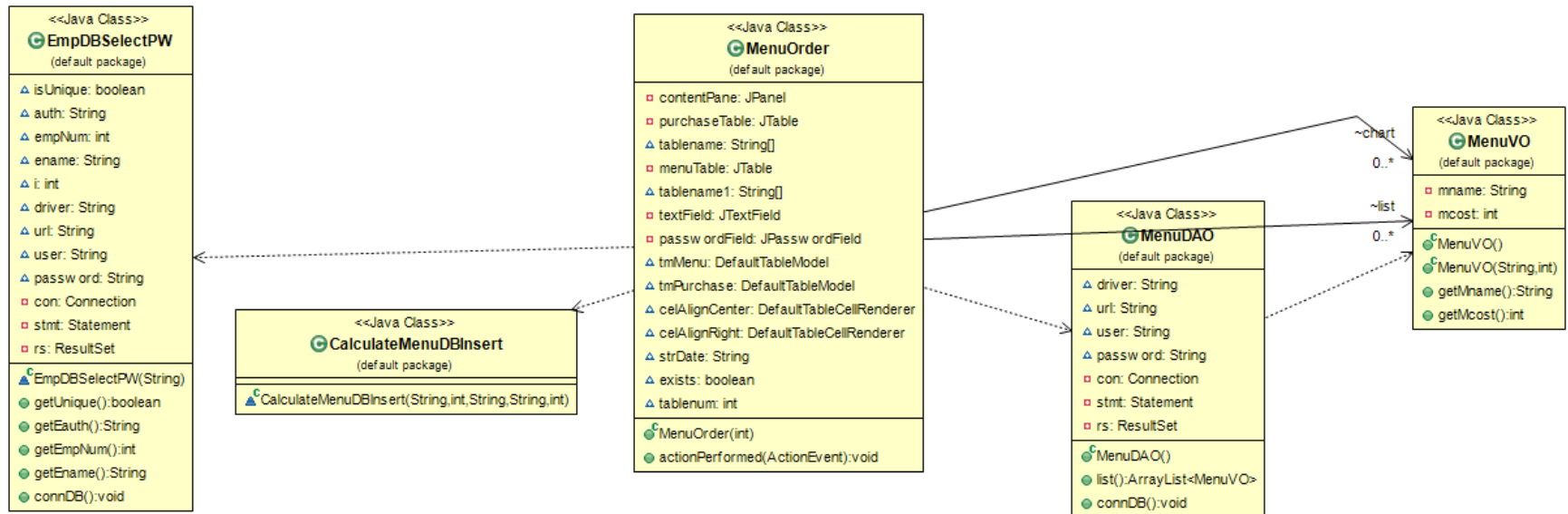
# Class Diagram



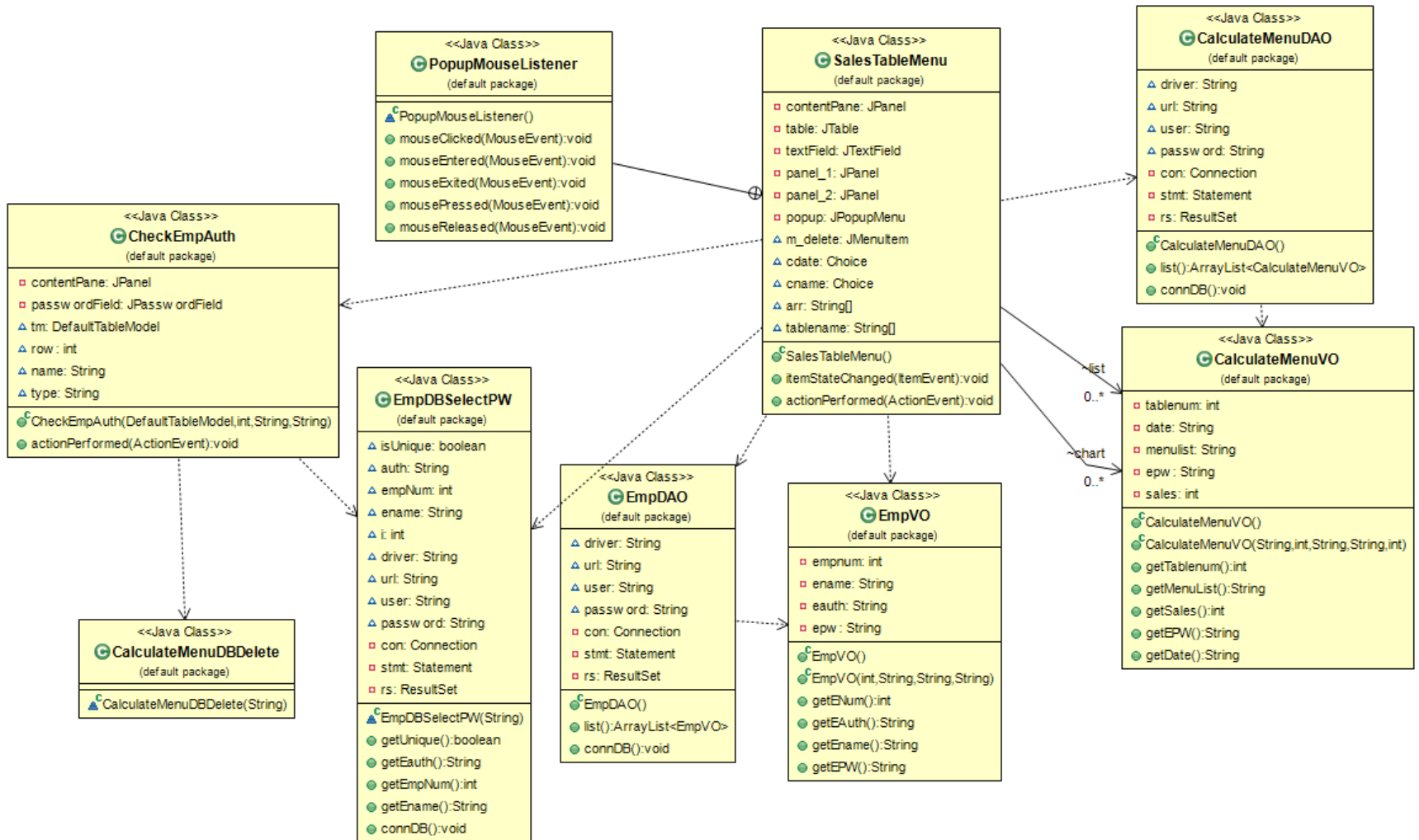
# Class Diagram



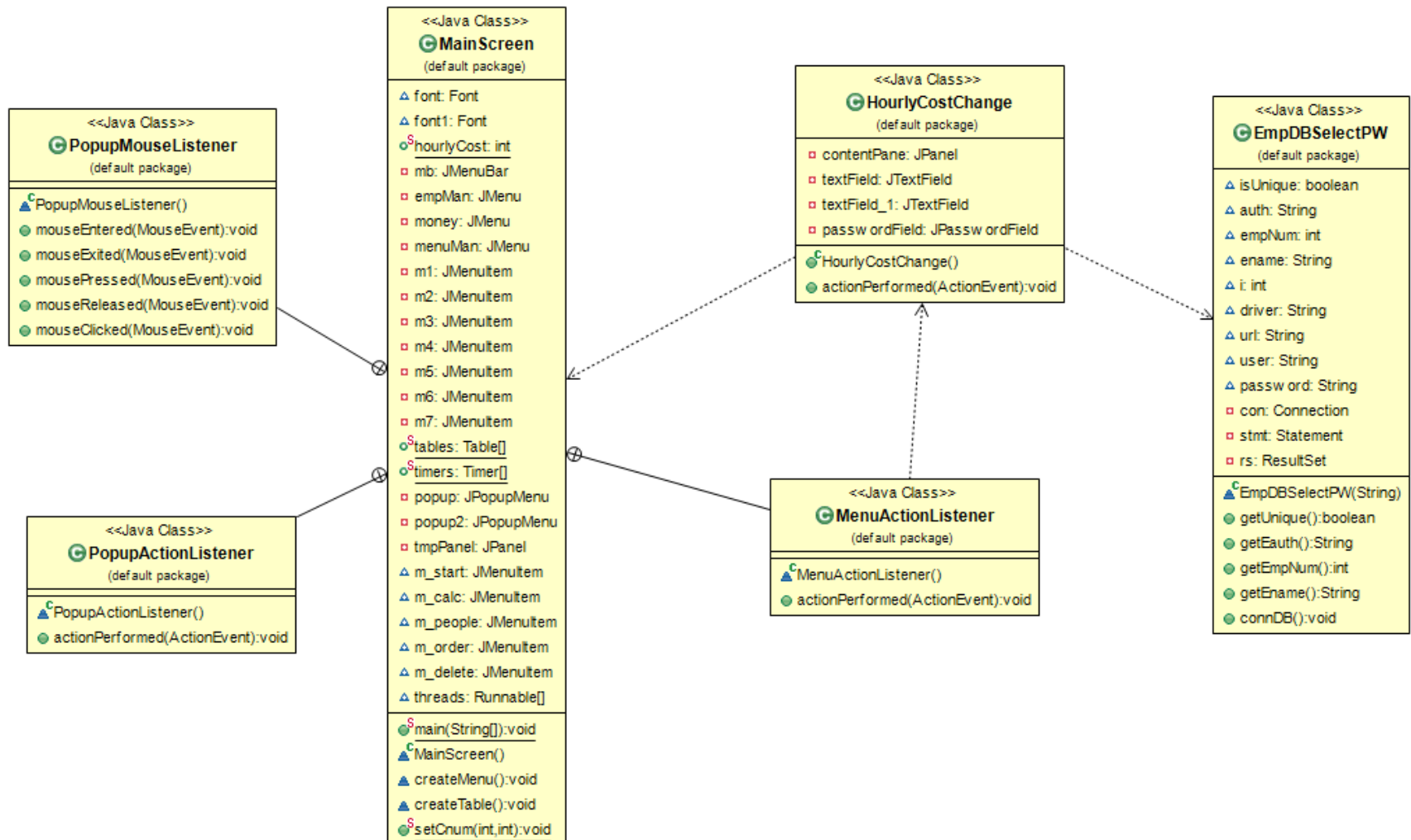
# Class Diagram



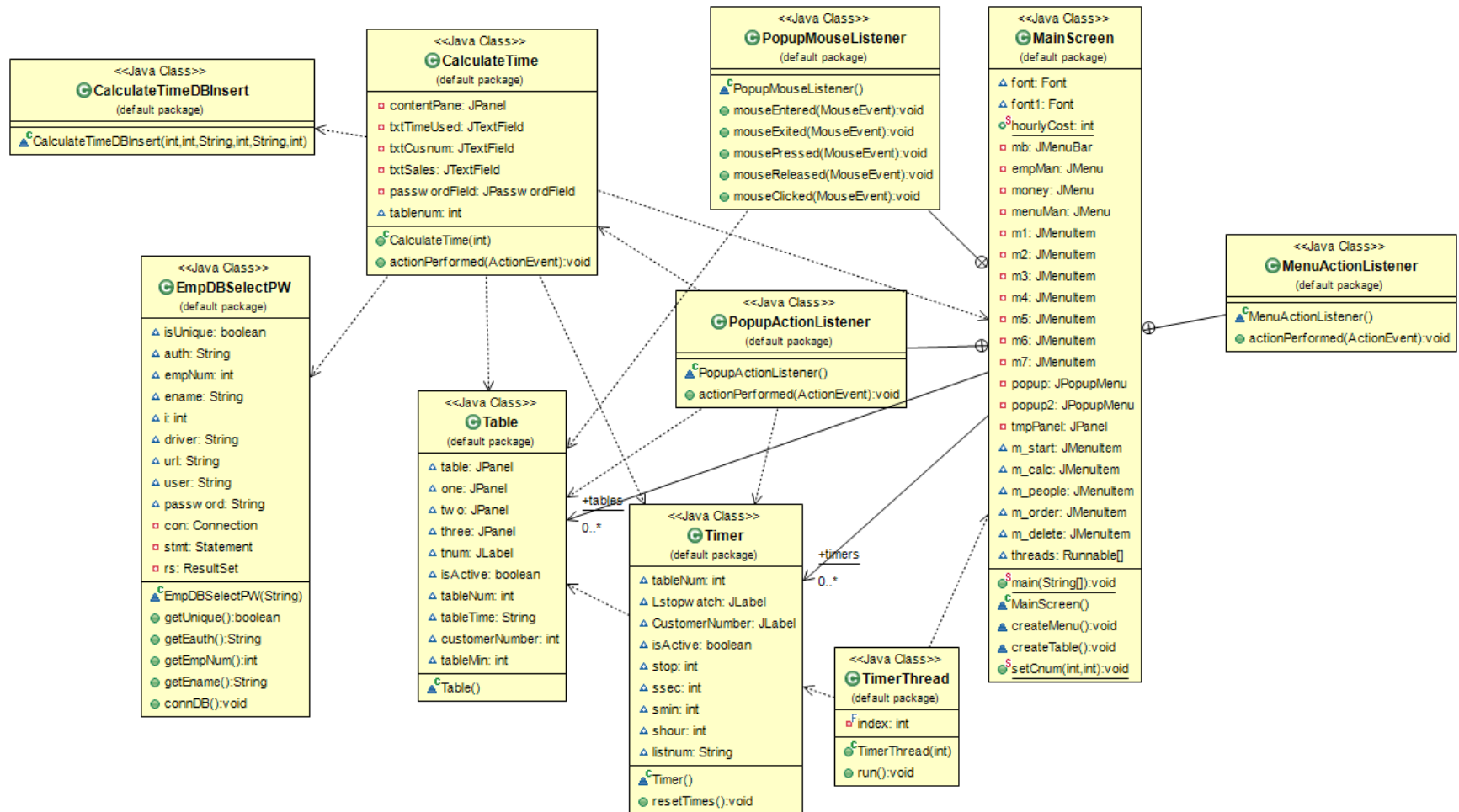
# Class Diagram



# Class Diagram



# Class Diagram



# Class Diagram

