

# PIECE OF CAKE

ケーキ屋 ERP プロジェクト KANG SEOYUN / NA JUNGEUN

# 01 About Our Project



# 02 About Development





03 **Project Diagram** 



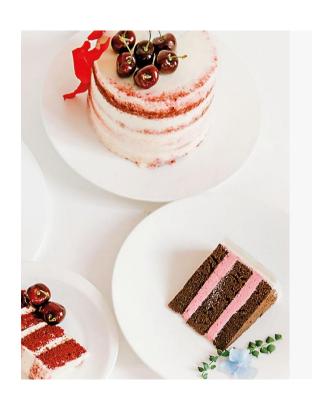
04 Database Layout



01

About our project

#### **PROJECT INTRODUCTION**



自分のケーキ屋を運営するのに 必要な業務(材料発注、売上確 認など)をもっと簡単にできるよう になるためWEBプログラムを開 発しました。



#### **MODE**





**DESKTOP MODE** 

PAD MODE

#### **OUR TEAM**





02

About Development

#### **ENVIROMENT**



#### **SCHEDULE**

2020.11 2020.12 2020.12







#### プロジェクト設定

プロジェクト構想 (2020.11.19) レイアウト構想 (2020.11.20) DB設計 (2020.11.20~21)

#### プログラム具現

ログイン (2020.12.10) 商品管理 (2020.12.11~12) 材料発注 (2020.12.13~14)

#### プログラム具現

発注管理 (2020.12.17~19) 在庫管理 (2020.12.20~22) POS機能 (2020.12.23)

#### **SCHEDULE**

2020.12 2021.01 2021.02







プログラム具現

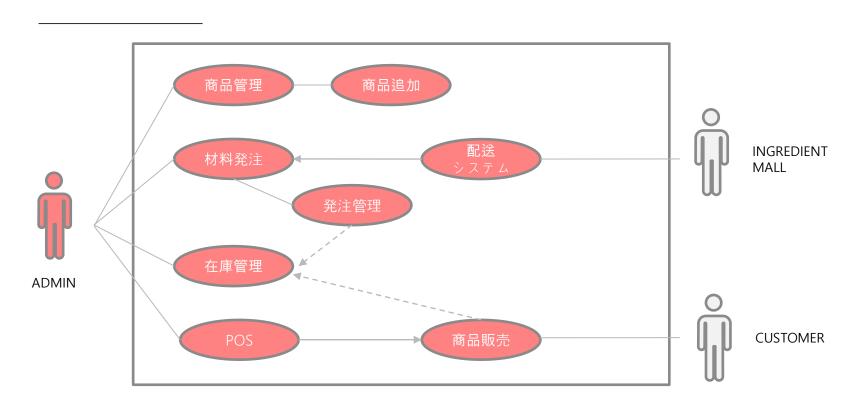
デザイン作業 (2020.12.28) プロントエンド作業 (2020.12.29~30) プログラム具現

売上一覧 (2021.01.04~05) 損益計算 (2021.01.07~08) 1次Gitアップロード (2021.01.11) テスト

テストやエラー修正 *(2021.01.11~)* PPT作成 *(2021.02.15)*  03

Project Diagram

#### **USECASE DIAGRAM**



04

# Database Layout

#### **DATABASE**

		CAKE.PRODUCT	
Р	* P_ID	NUMBER	
Р	* P_NAME	VARCHAR2 (50 BYTE)	
	* P_PRICE	NUMBER	
	* P_STATE	CHAR (1 BYTE)	
	Р_МЕМО	VARCHAR2 (300 BYTE)	
	P_EXIPDATE	NUMBER	
	* P_REGDATE	DATE	
	P_IMG	VARCHAR2 (255 BYTE)	
Qu	⇒ PRODUCT_PK (P_ID, P_NAME)		
◇ PRODUCT_PK (P_ID, P_NAME)			

CAKE.INGREDIENT			
Р	*	I_ID	NUMBER
Р	*	I_NAME	VARCHAR2 (100 BYTE)
Р	٠	I_PRICE	NUMBER
Р	*	I_EXIPDATE	NUMBER
	*	I_REGDATE	DATE
		I_IMG	VARCHAR2 (255 BYTE)
		I_STATE	CHAR (1 BYTE)
~		METERIAL DV/	ID I NAME I PRICE I EXIRDATI

METERIAL\_PK (I\_ID, I\_NAME, I\_PRICE, I\_EXIPDATE)
 METERIAL\_PK (I\_ID, I\_NAME, I\_PRICE, I\_EXIPDATE)

CAKE.ORDER		
P * O_ID	NUMBER	
* O_NAME	VARCHAR2 (100 BYTE)	
* O_AMOUNT	NUMBER	
* O_PRICE	NUMBER	
* O_REGDATE	DATE	
O_STATE	CHAR (1 BYTE)	
* O_I_ID	NUMBER	
* O_STATEDATE	DATE	
⇒ PURCHASE_PK(O_ID)		
PURCHASE_PK(O_ID)		

	CAKE.SALE
P * S_ID	NUMBER
* S_GROUP_ID	NUMBER
* S_NAME	VARCHAR2 (100 BYTE)
* S_PRICE	NUMBER
* S_ALLPRICE	NUMBER
S_DISCOUNT	NUMBER
* S_STATE	CHAR (1 BYTE)
* S_REGDATE	DATE
* S_P_ID	NUMBER
* S_AMOUNT	NUMBER
SALE_PK(S_ID)	
SALE_PK(S_ID)	

CAKE.STOCK		
P * S_ID	NUMBER	
* S_NAME	VARCHAR2 (100 BYTE)	
* S_CATEGORY	CHAR (1 BYTE)	
* S_AMOUNT	NUMBER	
* S_STATE	CHAR (1 BYTE)	
* S_MANUFDATE	DATE	
S_EXIPDATE	DATE	
* S_REGDATE	DATE	
S_O_ID	NUMBER	
S_P_ID	NUMBER	
STOCK_PK(S_ID)		
STOCK_PK(S_ID	)	

CAKE.EMPLOYEE		
VARCHAR2 (30 BYTE)		
VARCHAR2 (50 BYTE)		
VARCHAR2 (30 BYTE)		
NCHAR (1)		
NUMBER (2)		
DATE		
CHAR (14 BYTE)		
VARCHAR2 (30 BYTE)		
CHAR (1 BYTE)		
CHAR (1 BYTE)		
DATE		
DATE		
NUMBER		
TIMESTAMP		
⇒ EMPLOYEE_PK (E_ID)		
◆ EMPLOYEE_PK1 (E_ID)		

CAKE.SPEND		
* SP_ID	NUMBER	
* SP_NAME	VARCHAR2 (100 BYTE)	
* SP_PRICE	NUMBER	
* SP_REGDATE	DATE	
SPEND_PK(SP_ID)		
SPEND_PK(SP_ID)		

# ログイン

CAKE.EMPLOYEE		
P * E_ID	VARCHAR2 (30 BYTE)	
* E_PWD	VARCHAR2 (50 BYTE)	
* E_NAME	VARCHAR2 (30 BYTE)	
* E_GENDER	NCHAR (1)	
E_AGE	NUMBER (2)	
E_BIRTHDAY	DATE	
* E_PHONE	CHAR (14 BYTE)	
E_EMAIL	VARCHAR2 (30 BYTE)	
* E_LEVEL	CHAR (1 BYTE)	
* E_STATE	CHAR (1 BYTE)	
* E_JOINDATE	DATE	
E_RETIREDA	TE DATE	
* E_WAGE	NUMBER	
* E_REGDATE	TIMESTAMP	
EMPLOYEE_PK(E_ID)		
♦ EMPLOYEE_PK1 (E_ID)		



## 商品管理 - 一覧

CAKE.PRODUCT		
Р	* P_ID	NUMBER
Р	* P_NAME	VARCHAR2 (50 BYTE)
	* P_PRICE	NUMBER
	* P_STATE	CHAR (1 BYTE)
	P_MEMO	VARCHAR2 (300 BYTE)
	P_EXIPDATE	NUMBER
	* P_REGDATE	DATE
	P_IMG	VARCHAR2 (255 BYTE)
⇔ PRODUCT_PK (P_ID, P_NAME)		
◇ PRODUCT_PK (P_ID, P_NAME)		



# 商品管理 - 登録

CAKE.PRODUCT			
Р	*	P_ID	NUMBER
Р	*	P_NAME	VARCHAR2 (50 BYTE)
	*	P_PRICE	NUMBER
	*	P_STATE	CHAR (1 BYTE)
		P_MEMO	VARCHAR2 (300 BYTE)
		P_EXIPDATE	NUMBER
	*	P_REGDATE	DATE
		P_IMG	VARCHAR2 (255 BYTE)
>> PRODUCT_PK (P_ID, P_NAME)			
<b>4</b>	◇ PRODUCT_PK (P_ID, P_NAME)		

写真	파일 선택 5.jpg
商品名	
価格	¥
状態	販売中
メモ	
賞味期限	В
	一覧 登録

# 在庫管理 - 一覧

CAKE.STOCK		
P * S_ID	NUMBER	
* S_NAME	VARCHAR2 (100 BYTE)	
* S_CATEGORY	CHAR (1 BYTE)	
* S_AMOUNT	NUMBER	
* S_STATE	CHAR (1 BYTE)	
* S_MANUFDATE	DATE	
S_EXIPDATE	DATE	
* S_REGDATE	DATE	
S_O_ID	NUMBER	
S_P_ID	NUMBER	
STOCK_PK(S_ID)		
STOCK_PK(S_I	D)	



## 在庫管理 - 商品在庫登録

	CAKE.PRODUCT		
Р	P * P ID NUMBER		
P	*	P NAME	VARCHAR2 (50 BYTE)
ľ	*	P PRICE	NUMBER
		P_STATE	CHAR (1 BYTE)
		P_MEMO	VARCHAR2 (300 BYTE)
		P_EXIPDATE	NUMBER
	*	P_REGDATE	DATE
		P_IMG	VARCHAR2 (255 BYTE)
PRODUCT_PK (P_ID, P_NAME)			
4	◆ PRODUCT_PK(P_ID, P_NAME)		

CAKE.STOCK		
P * S_ID	NUMBER	
* S_NAME	VARCHAR2 (100 BYTE)	
* S_CATEGORY	CHAR (1 BYTE)	
* S_AMOUNT	NUMBER	
* S_STATE	CHAR (1 BYTE)	
* S_MANUFDATE	DATE	
S_EXIPDATE	DATE	
* S_REGDATE	DATE	
S_O_ID	NUMBER	
S_P_ID	NUMBER	
ъ STOCK_PK (S_ID)		
STOCK_PK (S_ID)		



#### 在庫管理 - 廃棄自動管理(スケジューラ)

CAKE.STOCK P \* S\_ID NUMBER \* S NAME VARCHAR2 (100 BYTE) \* S\_CATEGORY CHAR (1 BYTE) \* S\_AMOUNT NUMBER \* S\_STATE CHAR (1 BYTE) \* S\_MANUFDATE DATE DATE S\_EXIPDATE \* S\_REGDATE DATE S\_O\_ID NUMBER S\_P\_ID NUMBER 🏣 STOCK\_PK (S\_ID) STOCK\_PK (S\_ID)



## 材料発注 - 発注

CAKE.INGREDIENT		
P * I_ID	NUMBER	
P * I_NAME	VARCHAR2 (100 BYTE)	
P * I_PRICE	NUMBER	
P * I_EXIPDATE	NUMBER	
* I_REGDATE	DATE	
I_IMG	VARCHAR2 (255 BYTE)	
I_STATE	CHAR (1 BYTE)	
METERIAL_PK (I_ID, I_NAME, I_PRICE, I_EXIPDATE)		
METERIAL_PK (I_ID, I_NAME, I_PRICE, I_EXIPDATE)		

CAKE.ORDER		
NUMBER		
VARCHAR2 (100 BYTE)		
NUMBER		
NUMBER		
DATE		
CHAR (1 BYTE)		
NUMBER		
DATE		
> PURCHASE_PK (O_ID)		
♦ PURCHASE_PK(O_ID)		

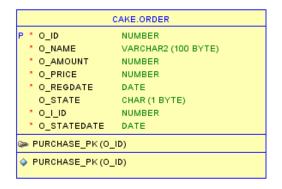


## 材料発注 - 材料登録

CAKE.INGREDIENT		
P * I_ID	NUMBER	
P * I_NAME	VARCHAR2 (100 BYTE)	
P * I_PRICE	NUMBER	
P * I_EXIPDATE	NUMBER	
* I_REGDATE	DATE	
I_IMG	VARCHAR2 (255 BYTE)	
I_STATE	CHAR (1 BYTE)	
METERIAL_PK (I_ID, I_NAME, I_PRICE, I_EXIPDATE)		
♦ METERIAL_PK (I_ID, I_NAME, I_PRICE, I_EXIPDATE)		



#### 発注管理 - 配送管理(スケジューラ)





#### POS - 会計

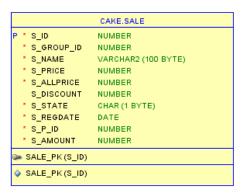
	CAKE.PRODUCT
P_ID	NUMBER
P_NAME	VARCHAR2 (50 BYTE)
P_PRICE	NUMBER
P_STATE	CHAR (1 BYTE)
P_MEMO	VARCHAR2 (300 BYTE)
P_EXIPDATE	NUMBER
P_REGDATE	DATE
P_IMG	VARCHAR2 (255 BYTE)
	P_NAME P_PRICE P_STATE P_MEMO P_EXIPDATE P_REGDATE

CAKE.STOCK		
P * S_ID	NUMBER	
* S_NAME	VARCHAR2 (100 BYTE)	
* S_CATEGORY	CHAR (1 BYTE)	
* S_AMOUNT	NUMBER	
* S_STATE	CHAR (1 BYTE)	
* S_MANUFDATE	DATE	
S_EXIPDATE	DATE	
* S_REGDATE	DATE	
S_O_ID	NUMBER	
S_P_ID	NUMBER	
ъ STOCK_PK(S_ID)		
STOCK_PK (S_ID)		

	CAKE.SALE
P * S_ID	NUMBER
* S_GROUP_ID	NUMBER
* S_NAME	VARCHAR2 (100 BYTE)
* S_PRICE	NUMBER
* S_ALLPRICE	NUMBER
S_DISCOUNT	NUMBER
* S_STATE	CHAR (1 BYTE)
* S_REGDATE	DATE
* S_P_ID	NUMBER
* S_AMOUNT	NUMBER
SALE_PK(S_ID)	
SALE_PK(S_ID)	



#### POS - 払い戻し





# 売上一覧 - 一覧

CAKE.SALE S\_ID NUMBER NUMBER \* S\_GROUP\_ID \* S\_NAME VARCHAR2 (100 BYTE) S\_PRICE NUMBER \* S\_ALLPRICE NUMBER NUMBER S\_DISCOUNT \* S\_STATE CHAR (1 BYTE) \* S REGDATE DATE \* S\_P\_ID NUMBER \* S\_AMOUNT NUMBER SALE\_PK (S\_ID) SALE\_PK(S\_ID)



# 売上一覧 - グラフ

CAKE.SALE		
P * S_ID	NUMBER	
* S_GROUP_ID	NUMBER	
* S_NAME	VARCHAR2 (100 BYTE)	
* S_PRICE	NUMBER	
* S_ALLPRICE	NUMBER	
S_DISCOUNT	NUMBER	
* S_STATE	CHAR (1 BYTE)	
* S_REGDATE	DATE	
* S_P_ID	NUMBER	
* S_AMOUNT	NUMBER	
SALE_PK(S_ID)		
SALE_PK (S_ID)		



## 損益管理 - 経費登録

CAKE.SPEND

P \* SP\_ID NUMBER

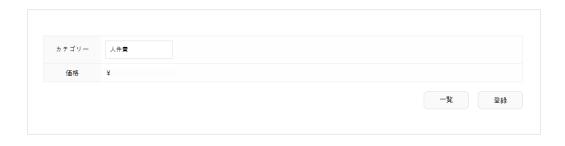
\* SP\_NAME VARCHAR2 (100 BYTE)

\* SP\_PRICE NUMBER

\* SP\_REGDATE DATE

SPEND\_PK (SP\_ID)

\$\ightarrow\$ SPEND\_PK (SP\_ID)



## 損益管理 - 一覧

CAKE.SPEND		
P * SP_ID	NUMBER	
* SP_NAME	VARCHAR2 (100 BYTE)	
* SP_PRICE	NUMBER	
* SP_REGDATE	DATE	
SPEND_PK (SP_ID)		
SPEND_PK(SP_ID)		

	CAKE.SALE
P * S_ID	NUMBER
* S_GROUP_ID	NUMBER
* S_NAME	VARCHAR2 (100 BYTE)
* S_PRICE	NUMBER
* S_ALLPRICE	NUMBER
S_DISCOUNT	NUMBER
* S_STATE	CHAR (1 BYTE)
* S_REGDATE	DATE
* S_P_ID	NUMBER
* S_AMOUNT	NUMBER
🌤 SALE_PK (S_ID)	
SALE_PK(S_ID)	

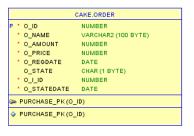
CAKE.ORDER			
P * O_ID	NUMBER		
* O_NAME	VARCHAR2 (100 BYTE)		
* O_AMOUNT	NUMBER		
* O_PRICE	NUMBER		
* O_REGDATE	DATE		
O_STATE	CHAR (1 BYTE)		
* O_I_ID	NUMBER		
* O_STATEDATE	DATE		
ጮ PURCHASE_PK (O_ID)			
→ PURCHASE_PK(O_ID)			



## 損益管理 - グラフ

CAKE.SPEND	
P * SP_ID	NUMBER
* SP_NAME	VARCHAR2 (100 BYTE)
* SP_PRICE	NUMBER
* SP_REGDATE	DATE
SPEND_PK (SP_ID)	
SPEND_PK(SP_ID)	

	CAKE.SALE
P * S_ID	NUMBER
* S_GROUP_ID	NUMBER
* S_NAME	VARCHAR2 (100 BYTE)
* S_PRICE	NUMBER
* S_ALLPRICE	NUMBER
S_DISCOUNT	NUMBER
* S_STATE	CHAR (1 BYTE)
* S_REGDATE	DATE
* S_P_ID	NUMBER
* S_AMOUNT	NUMBER
SALE_PK(S_ID)	
SALE_PK(S_ID)	





# **THANKS**

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