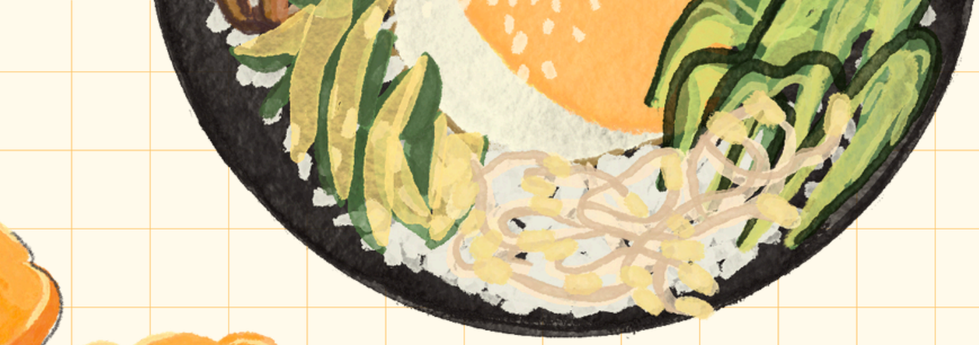
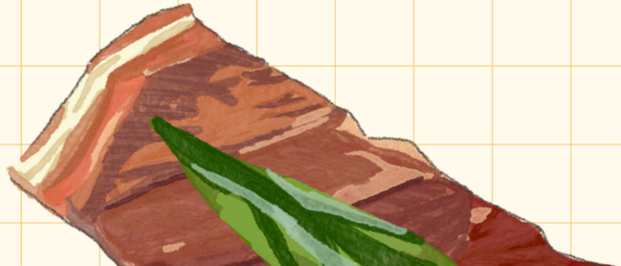
TOPIC

RESTAURANT MANAGEMENT SYSTEM





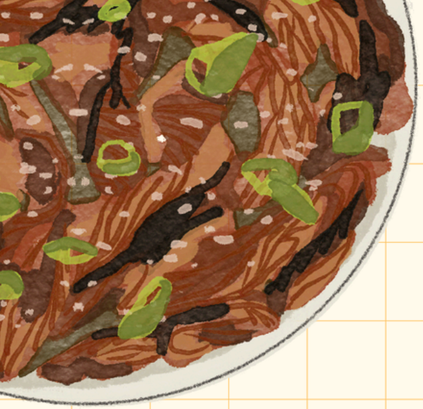

TEAM MEMBER

HOANG DUC

ITITIU21181

HOANG GIANG

ITITIU21192



CONTENTS

INTRODUCTION

A. IDEA

- USING TECHNOLOGY FOR DINING
- TOUCH-SCREEN TABLES
- DISH STATUS UPDATES

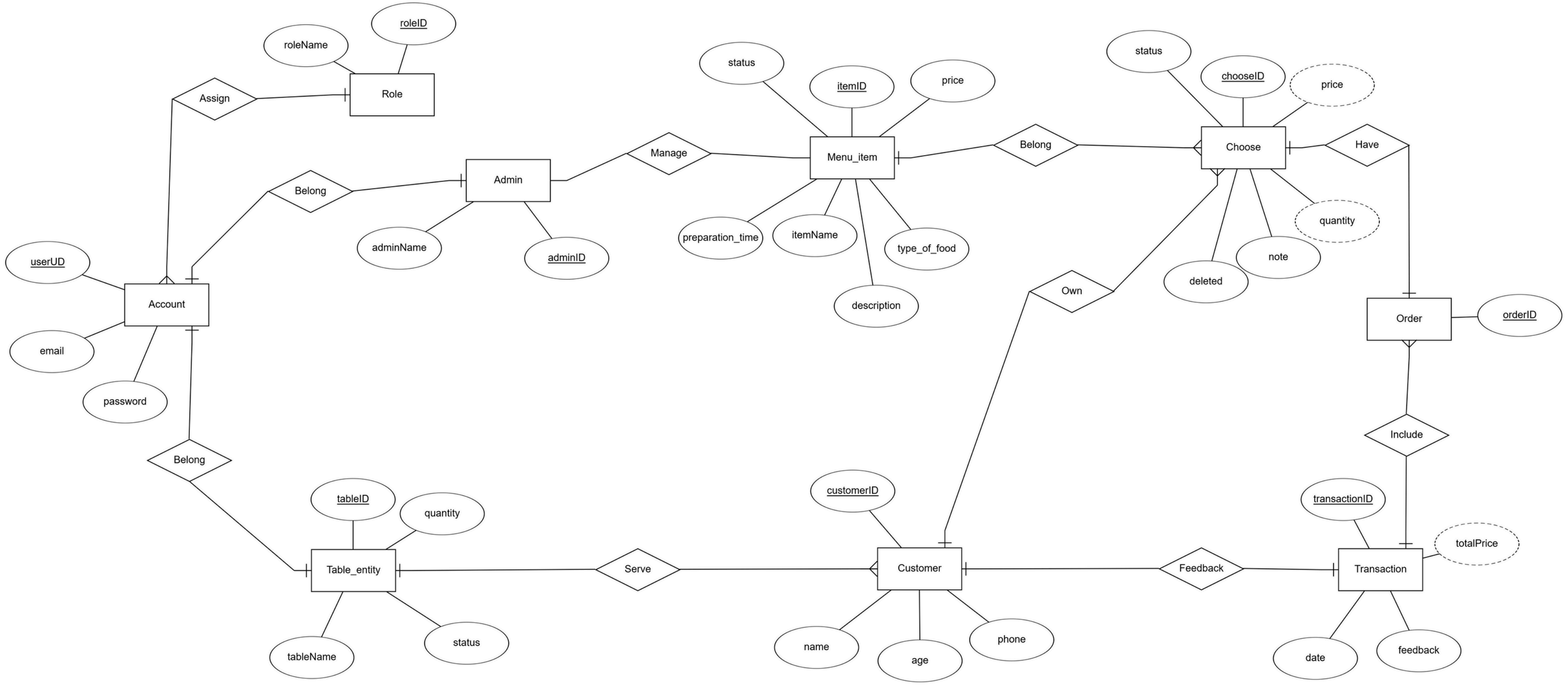
B.TIME LINE

8 Weeks

RESTAURANT MANAGEMENT SYSTEM

- **Analysis and Planning** — 1 Week
- **Website Design** — 2 Week
- **Website Development** — 4 Weeks
- **Testing and Quality Assurance (QA)** — 1 Week

C. DIAGRAM(ERD)



C. DIAGRAM(SCHEMA)

Account	
userID (PK)	int
email	varchar
password	varchar
roleID (FK)	int

Role	
roleID (PK)	int
roleName	varchar

Table	
TableID (PK)	INT
userID (FK)	INT
tableName	VARCHAR
quantity(2 or 4)	INT
Status(available or not)	BOOLEAN

Admin	
AdminID (PK)	INT
userID (FK)	INT
adminName	VARCHAR

Customer	
customerID (PK)	INT
TableID(FK)	INT
Name	VARCHAR
Phone	VARCHAR
Age	INT

Choose	
ChooseID (FK)	INT
customerID(FK)	INT
itemID (FK)	INT
note	VARCHAR
price	INT
quantity	INT
status(order/process/served)	VARCHAR
deleted(0/1)	Boolean

Menu_Item	
itemID (PK)	INT
itemName	VARCHAR
type_of_food	VARCHAR
price	VARCHAR
descriptions	VARCHAR
prepararion_time	FLOAT
status(available, out of stock)	BOOLEAN

Order	
OrderID (FK)	INT
transactionID (FK)	INT
ChooseID(FK)	INT

Transaction	
TransactionID (PK)	INT
customerID (FK)	INT
Payment_method	VARCHAR
date	datetime
feedback	VARCHAR
totalPrice (order)	FLOAT

UX UI DESIGN

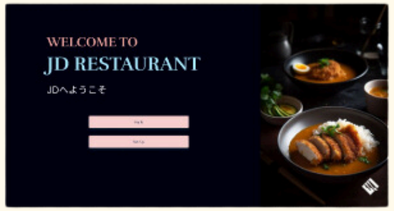
A. CHICKEN BIRYANI

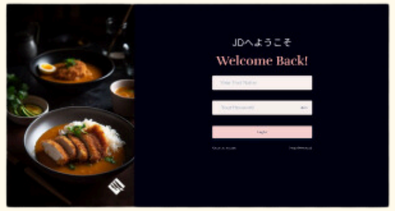
UX UI DESIGN

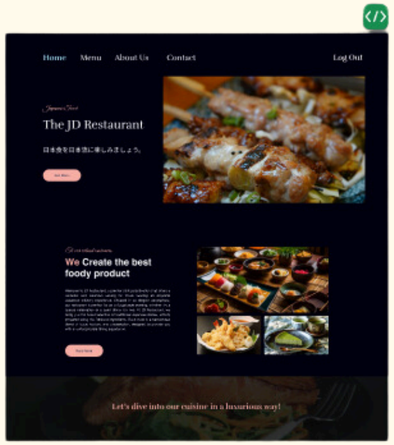
- SUPPORT COMMUNICATION BETWEEN DESIGN AND PROGRAMMING
- TEST AND IMPROVE BEFORE YOU GO LIVE
- SAVE TIME AND MONEY

WHAT IS IT?

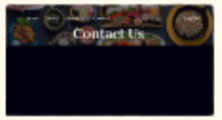
AUTHENTICATION



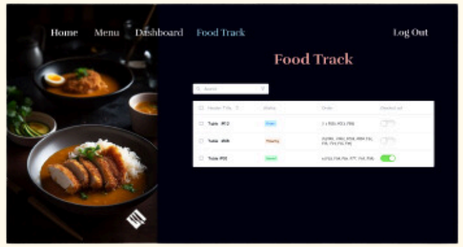


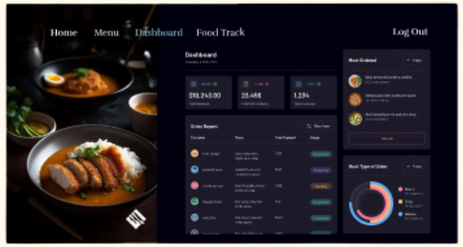


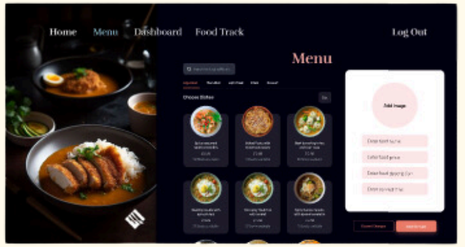
CUSTOMER



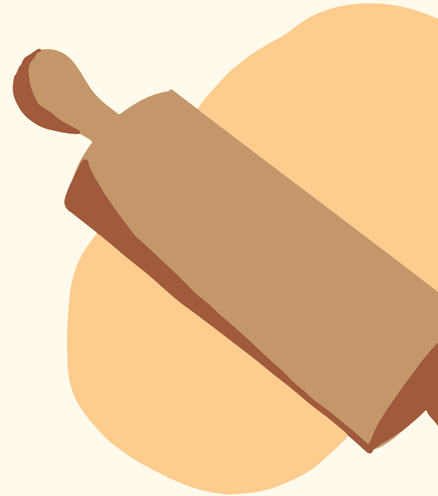
ADMIN







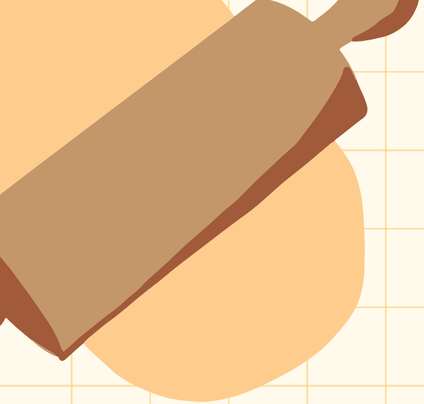
FRONT-END



FRONT END

- USER INTERFACE (UI): COLORS, IMAGES, TEXT, BUTTONS, MENUS...
- INTERACTION: ACTIONS SUCH AS MOUSE CLICKS, DATA ENTRY, PAGE SCROLLING.

WHAT IS IT?

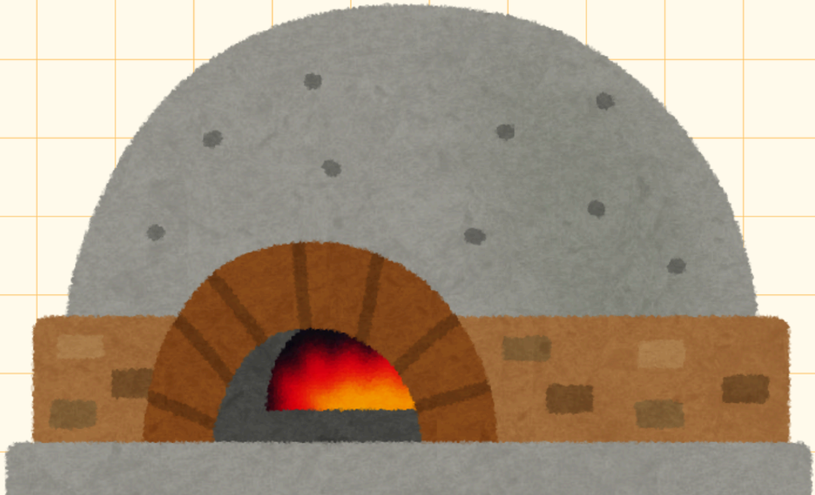


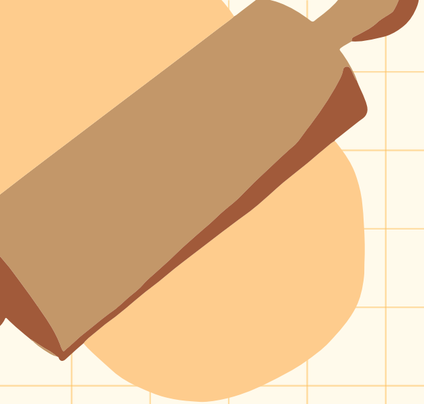
USER

- VIEW RESTAURANT INFORMATION
- VIEW AND SELECT DISHES FROM THE MENU
- ORDER AND CHECKOUT DISHES

ADMIN

- VIEW DISH LIST AND INFORMATION
- EDIT AND ADD DISHES
- TRACKING ORDERS ALLOWS TO CONTROL CUSTOMER ORDERS



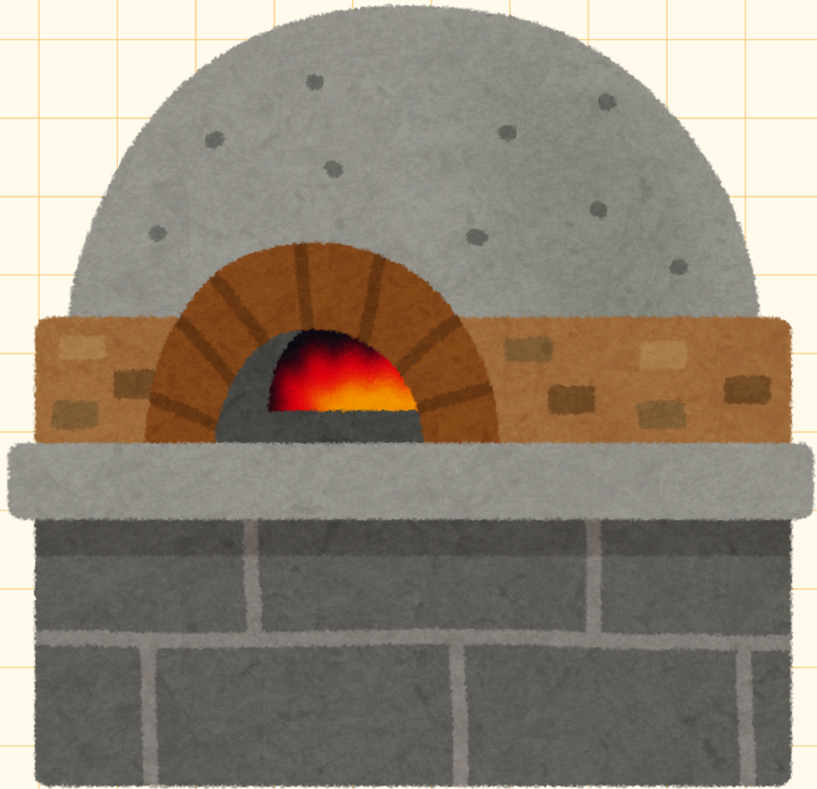


FRONT END TECH

FRAMEWORK

BUILD TOOL

CONNECT THE DATA BASE THROUGH API



BACK-END

A. ARCHITECHTURE

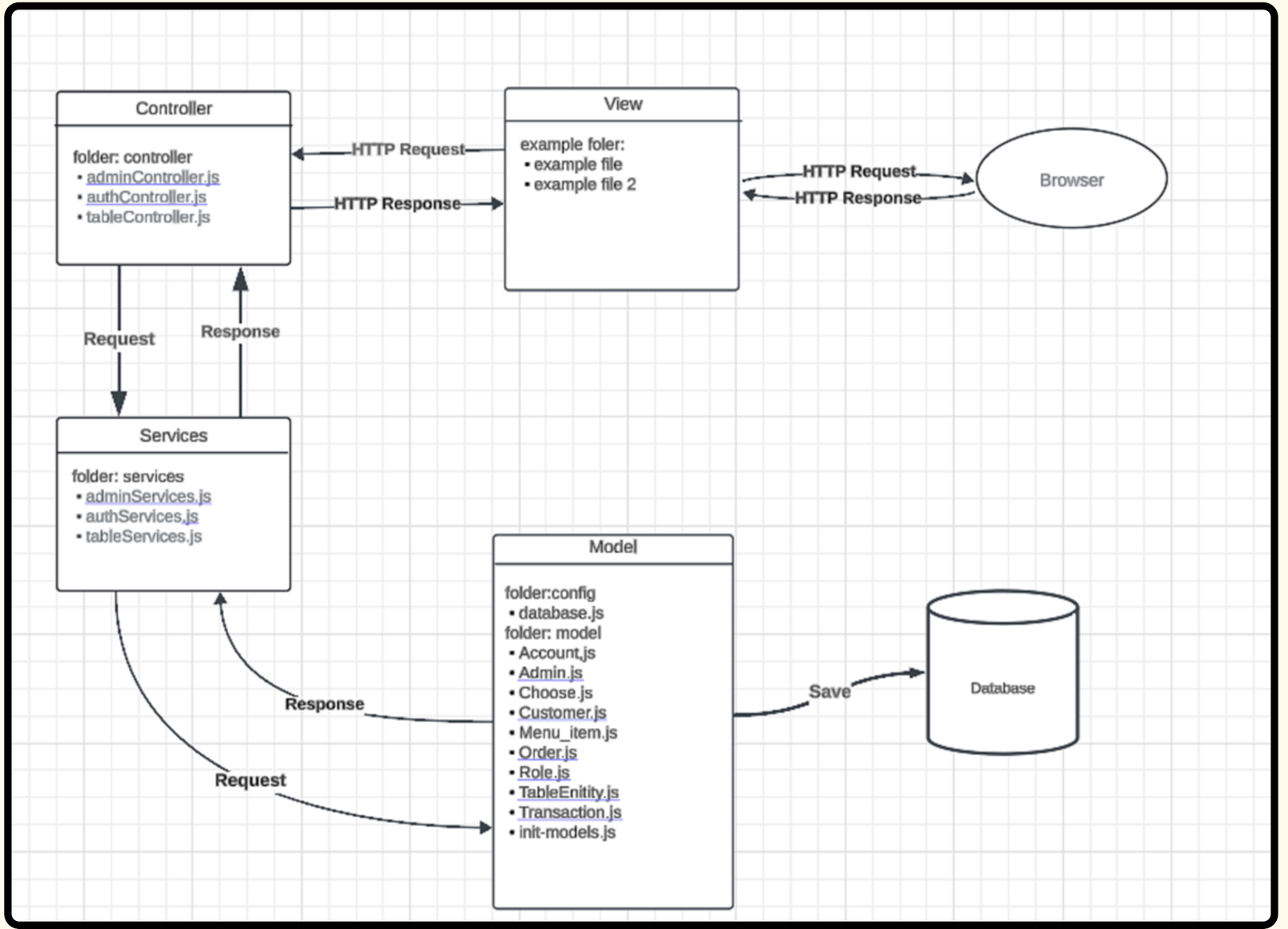
B. CODE STRUCTURE

C. PACKAGES

D. TECH AND TOOLS

WHAT ARE THEY?

ARCHITECHTURE



CODE STRUCTURE

JS app.js M

back-end > src > JS app.js > ...

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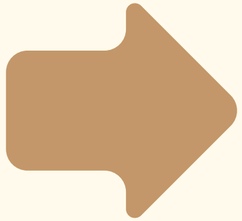
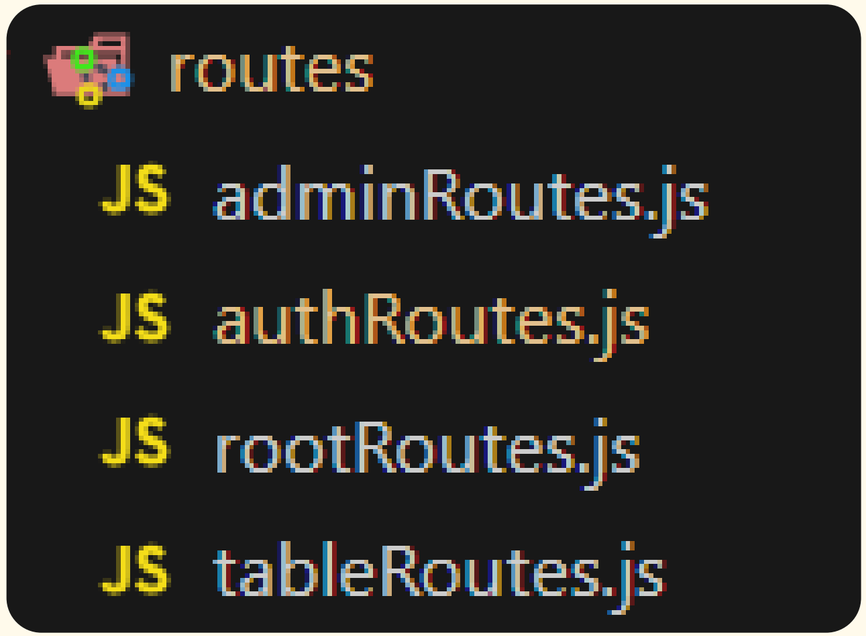
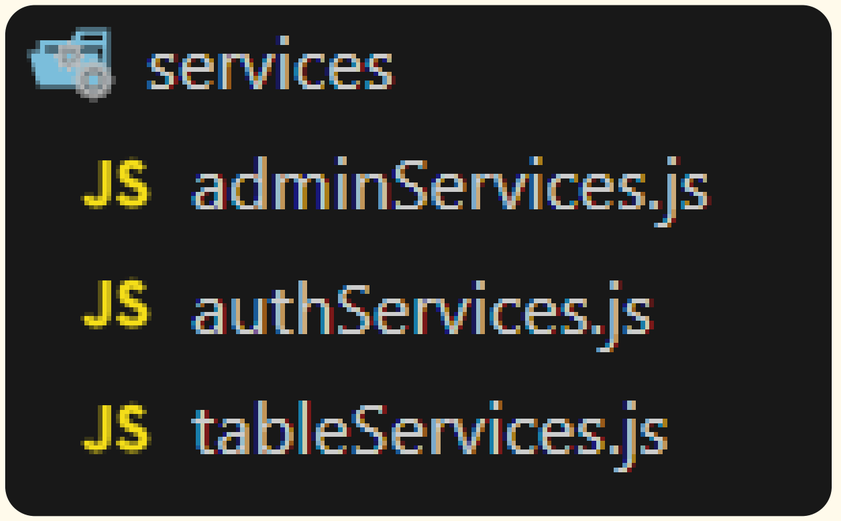
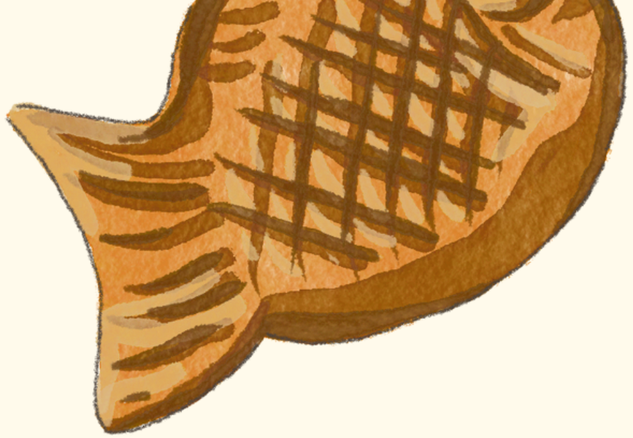
```
1  import express from 'express';
2  import sequelize from './config/database.js';
3  import router from './routes/rootRoutes.js';
4  import cors from "cors";
5
6  const app = express();
7  const PORT = process.env.PORT || 3000;
8
9  app.use(express.json());
10 app.use(cors());
11 app.use(express.urlencoded({ extended: true }));
12
13 // Use the routes defined in the routes folder
14 app.use('/', router);        You, 1 second ago • Uncommitted changes
15
16 // Test the database connection
17 sequelize.authenticate()
18     .then(() => {
19         console.log('Database connected...');
20     })
21     .catch(err => {
22         console.error('Unable to connect to the database:', err);
23     });
24
25 app.listen(PORT, () => {
26     console.log(`Server is running on http://localhost:${PORT}`);
27 });
28
```





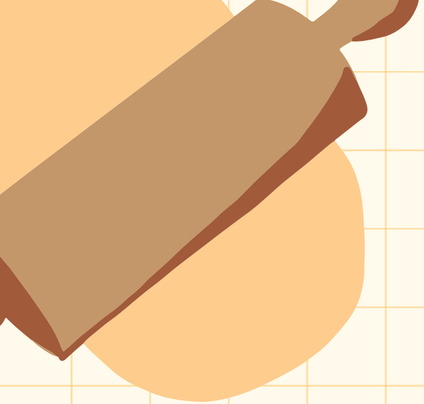
CODE STRUCTURE





PACKAGES

```
"dependencies": {
  "bcrypt": "^5.1.1",
  "cors": "^2.8.5",
  "dotenv": "^16.4.5",
  "express": "^4.19.2",
  "mysql2": "^3.11.0",
  "nodemon": "^3.1.4",
  "sequelize": "^6.37.3"
},
"devDependencies": {
  "sequelize-auto": "^0.8.8"
}
```

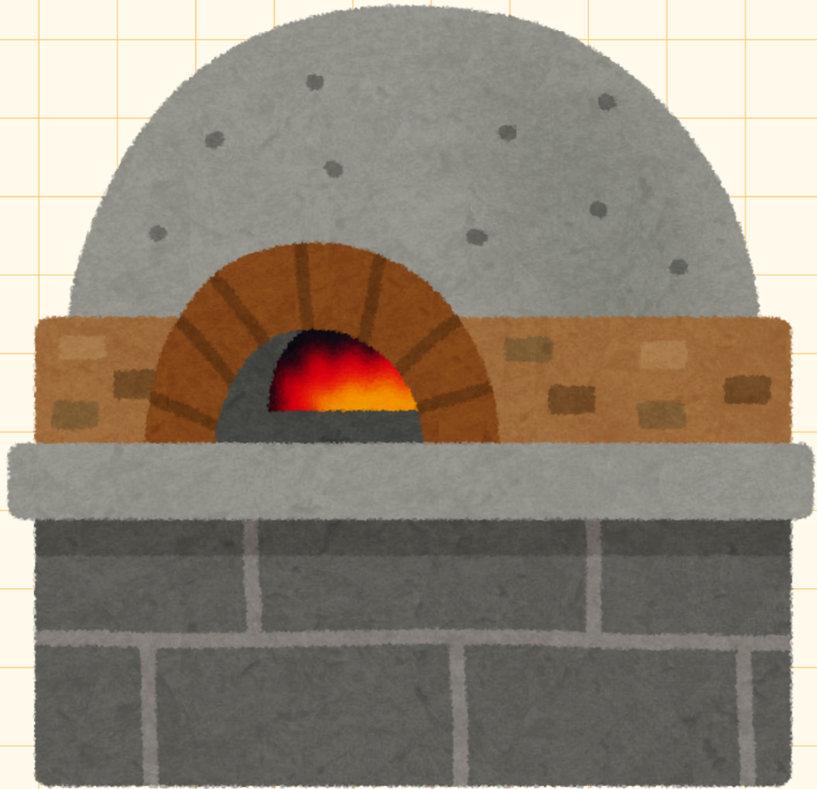


TECH AND TOOLS

Express

FRAMEWORK

TOOLS



5. CONCLUSION

1.Enhanced Dining Experience

Successfully minimized human interaction while maintaining convenience and quality.

2. Technology Integration

Efficient use of touch-screen interfaces, automated updates, and secure payment systems to streamline operations.

3.Future Potential

Offers a scalable solution for modern dining with opportunities for further innovation, such as AI-based recommendations or advanced analytics.