Frontend

Stores(pinia)

ototuo io		
status.js		
toast.js		
thama ia		
theme.js		
limitTask.js		
filtor io		
filter.js		

Composables

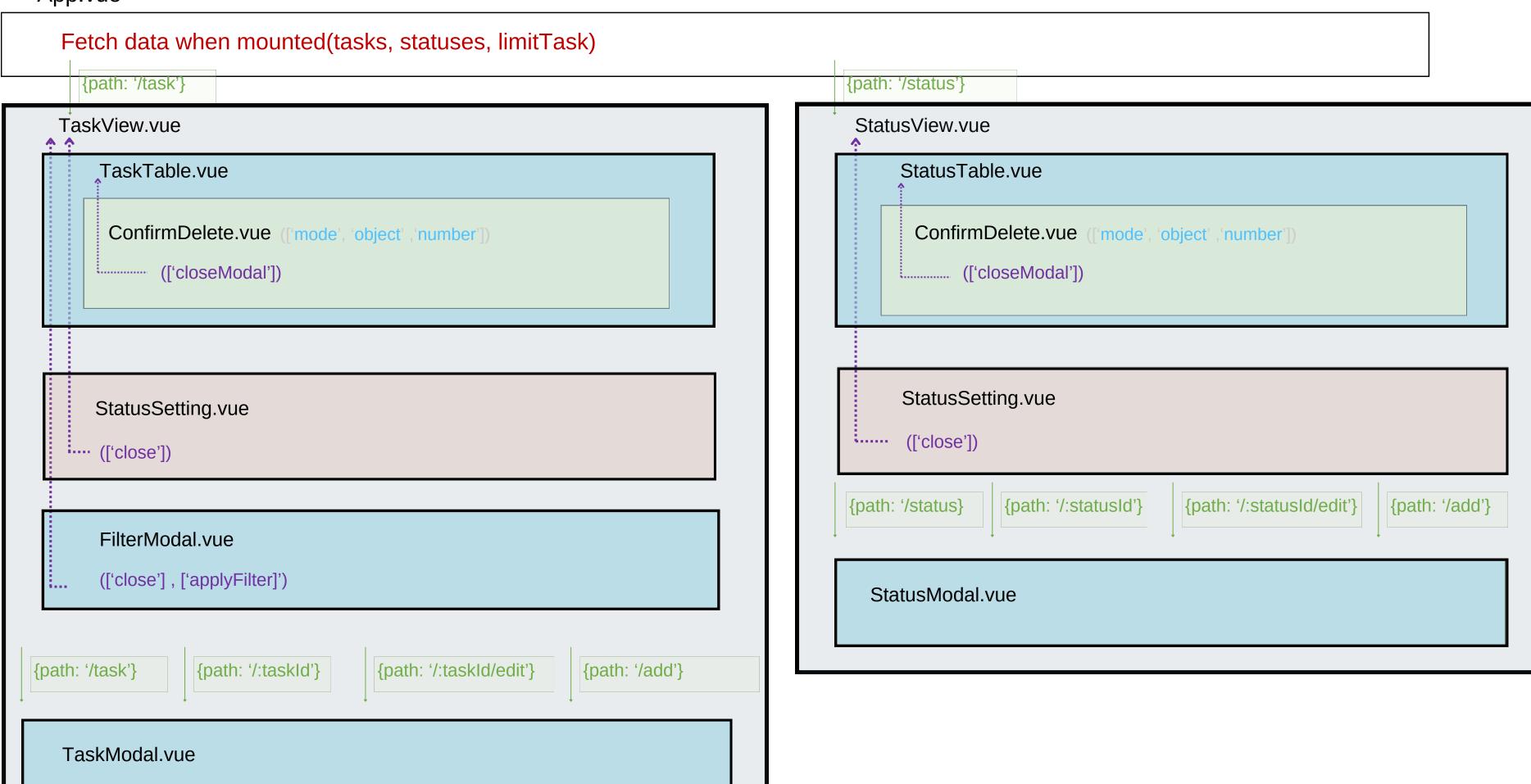
status-api.js	
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Composables

provides several benefits

- Reusability
- Separation of Concerns
- Maintainability
- Testability
- Consistency
- Enhanced Code Readability

*เปลี่ยนจาก libs มาใช้ composables เนื่องจากต้องการเรียกใช้ toast เมื่อมีการ call api เกิดขึ้น -> เปลี่ยนรูปแบบการ export เป็น closure function



Backend

Entity

LimitTask

- id (Integer)
- limit (Boolean)
- limitMaximumTask (Integer)

TaskV2

- id (Integer)
- title(String)
- description (Integer)
- assignees (String)
- createdOn (Date)
- updatedOn (Date)
- Status (Status)

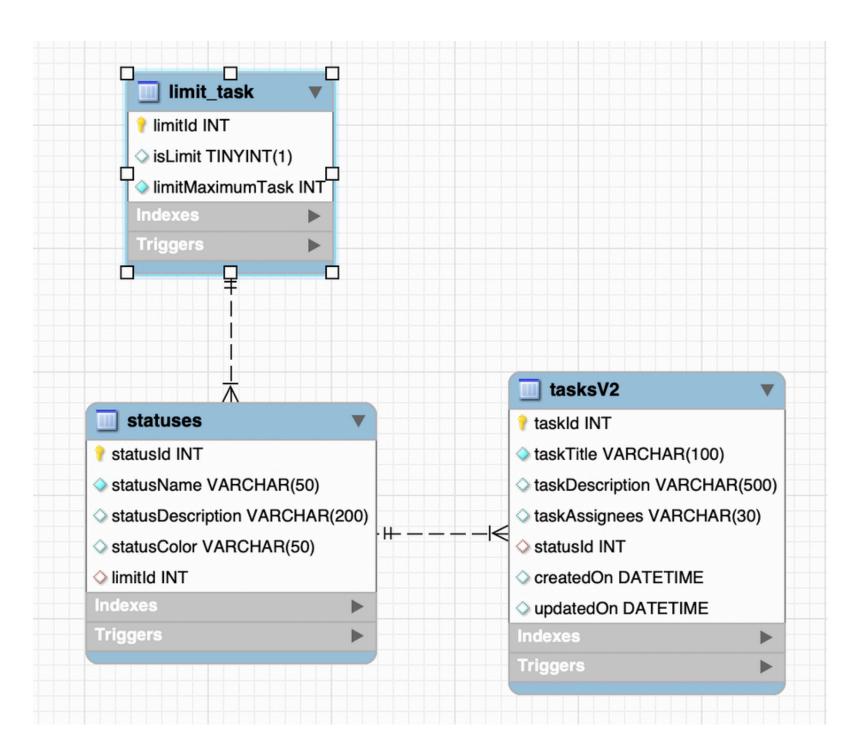
Status

- id (Integer)
- name (String)
- description (String)
- status (color)
- noOfTasks (List)

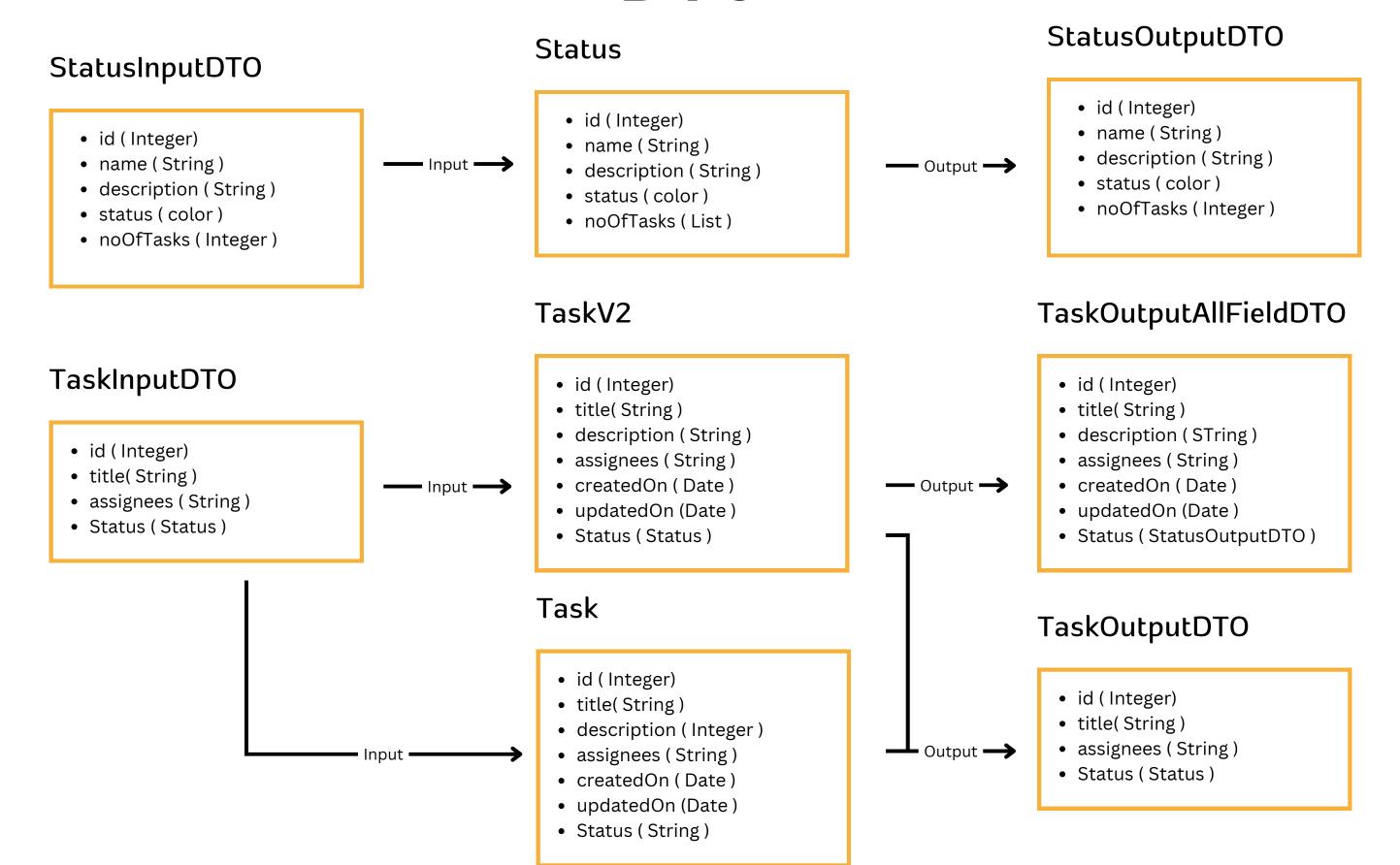
Task

- id (Integer)
- title(String)
- description (Integer)
- assignees (String)
- createdOn (Date)
- updatedOn (Date)
- Status (String)

Relationnal

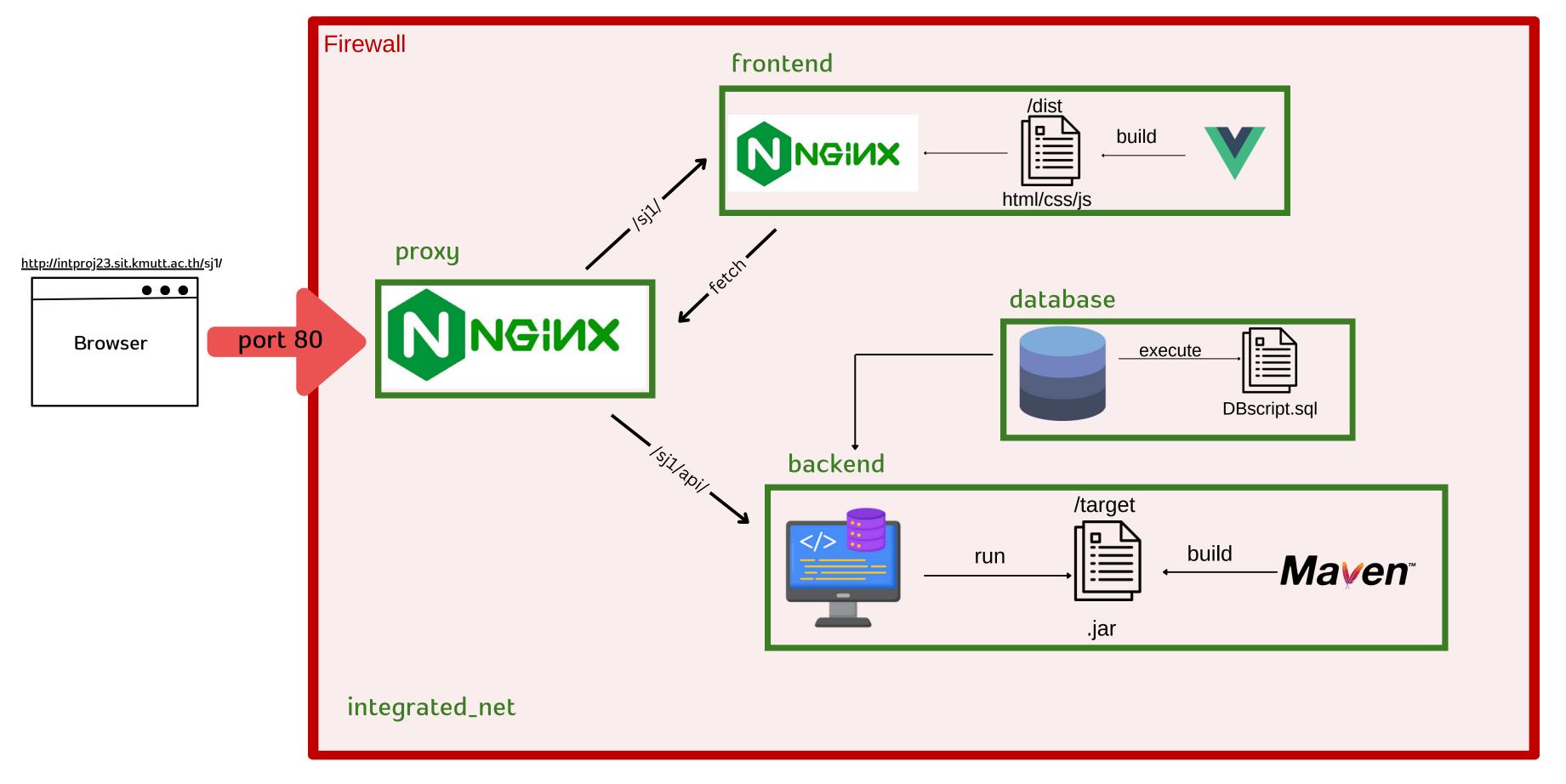


DTO



Integration

Infrastructure



Frontend

.env.production

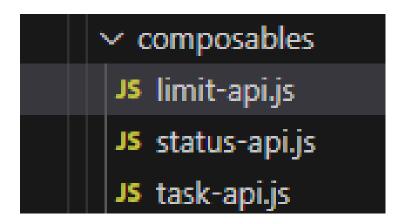
```
integrated-1-frontend > $ .env.production

1  # VITE_BASE_URL=http://ip23sj1.sit.kmutt.ac.th:8080/v2

2  VITE_BASE_URL=/sj1/api/v2

3  VITE_BASE=/sj1
```

Fetch API



Composables

provides several benefits

- Reusability
- Separation of Concerns
- Maintainability
- Testability
- Consistency
- Enhanced Code Readability

Dockerfile (ของ frontend)

```
FROM node:20.10.0 as build

COPY . .

RUN rm -rf node_modules/
RUN npm install
RUN npm run build

FROM nginx:alpine as run

COPY --from=build dist /usr/share/nginx/html

COPY nginx.conf /etc/nginx/nginx.conf

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]
```

Backend

Dockerfile (ของ backend)

```
FROM maven:3.8.3-openjdk-17 AS build COPY pom.xml.
COPY src./src
RUN mvn clean package -DskipTests

FROM openjdk:17-jdk-alpine AS run
COPY --from=build target/*.jar app.jar
EXPOSE 8080
CMD ["java", "-jar", "app.jar"]
```

Database

Dockerfile (Database)

```
FROM mysql:latest
ENV MYSQL_USER=dev
ENV MYSQL_PASSWORD=Mysql@sit123
ENV MYSQL_ROOT_PASSWORD=Mysql@sit123
ENV MYSQL_DATABASE=integrated
ENV MYSQL_CHARSET=utf8mb4
ENV MYSQL_COLLATION=utf8mb4_unicode_ci
EXPOSE 3306
COPY scripts/ /docker-entrypoint-initdb.d/
COPY dbscripts/ /dbscripts/
COPY my.cnf /etc/my.cnf
```

Proxy

Dockerfile (Proxy)

```
FROM nginx:alpine as run
COPY default.conf /etc/nginx/conf.d/default.conf

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]
```

defualt.conf

```
listen 80 default_server;
server_name ip23sj1.sit.kmutt.ac.th;

location / {
    proxy_pass http://frontend/;
}
location /api/ {
    proxy_pass http://backend:8080/;
}
location /sj1/ {
    proxy_pass http://frontend/;
}
location /sj1/api/ {
    proxy_pass http://backend:8080/;
}
```

Compose.yaml

service (database)

```
database:
    build: ./integrated-1-database
    container_name: database
    restart: unless-stopped
    networks:
        - integrated_net
    volumes:
        - myapp:/var/lib/mysql
    healthcheck:
        test: ["CMD", "mysqladmin", "ping", "-h", "localhost"]
        interval: 5s
        timeout: 5s
        retries: 5
```

service (backend)

```
backend:
  build: ./integrated-1-backend
  container_name: backend
  restart: unless-stopped
  networks:
    - integrated_net
  depends_on:
    - database
  environment:
    - DB_HOST=database
    - DB_PORT=3306
    - DB_NAME=integrated
    - DB_USER=dev
    - DB_PASS=Mysql@sit123
```

networks & volumes

```
networks:
   integrated_net:
   volumes:
     myapp:
```

service (frontend)

```
frontend:
    build: ./integrated-1-frontend
    container_name: frontend
    restart: unless-stopped
    networks:
        - integrated_net
        depends_on:
        - backend
```

service (proxy)