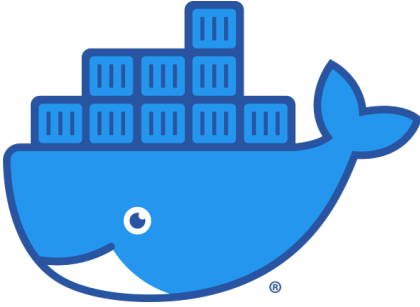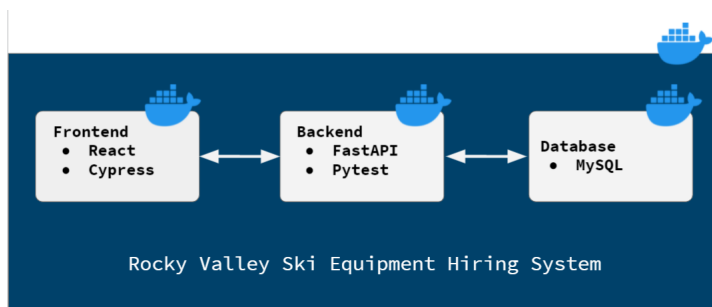# Docker Deployment

The project also comes with Docker Deployment method, suitable for development purpose, all 3 components:

1. Front-end (NodeJS, ReactJS and other libs)
2. Back-end (Python, FastAPI and other libs)
3. Database (MySQL and the data)

Are bundle inside Docker and can be deploy by following these steps:

1. Install Docker on your machine
2. If you have MySQL installed locally and running, make sure to STOP it (as the port 3306 of MySQL will be used by MySQL inside Docker).
3. Throw your database schema (i.e.: the .sql schema file) inside the directory "db_migration_scripts/deploydata/"
4. Go to "code/backend/app/api/database.py", set the HOST="mysqldb"
5. Go to "code/frontend/webpack.base.conf", set
   ```
   "devServer: {
        host: '0.0.0.0',
        ..."
   ```

6. Go to "COMP90082_S1_TO_2021/" directory where the docker-compose.yml file is located
7. Run the command "docker-compose up -d --build" and voilà

IMPORTANT: Every time you make change to the code, remember to run step 7 again. If any problem persists, please "DELETE" the current Container /Image and then re-run step 7 again.