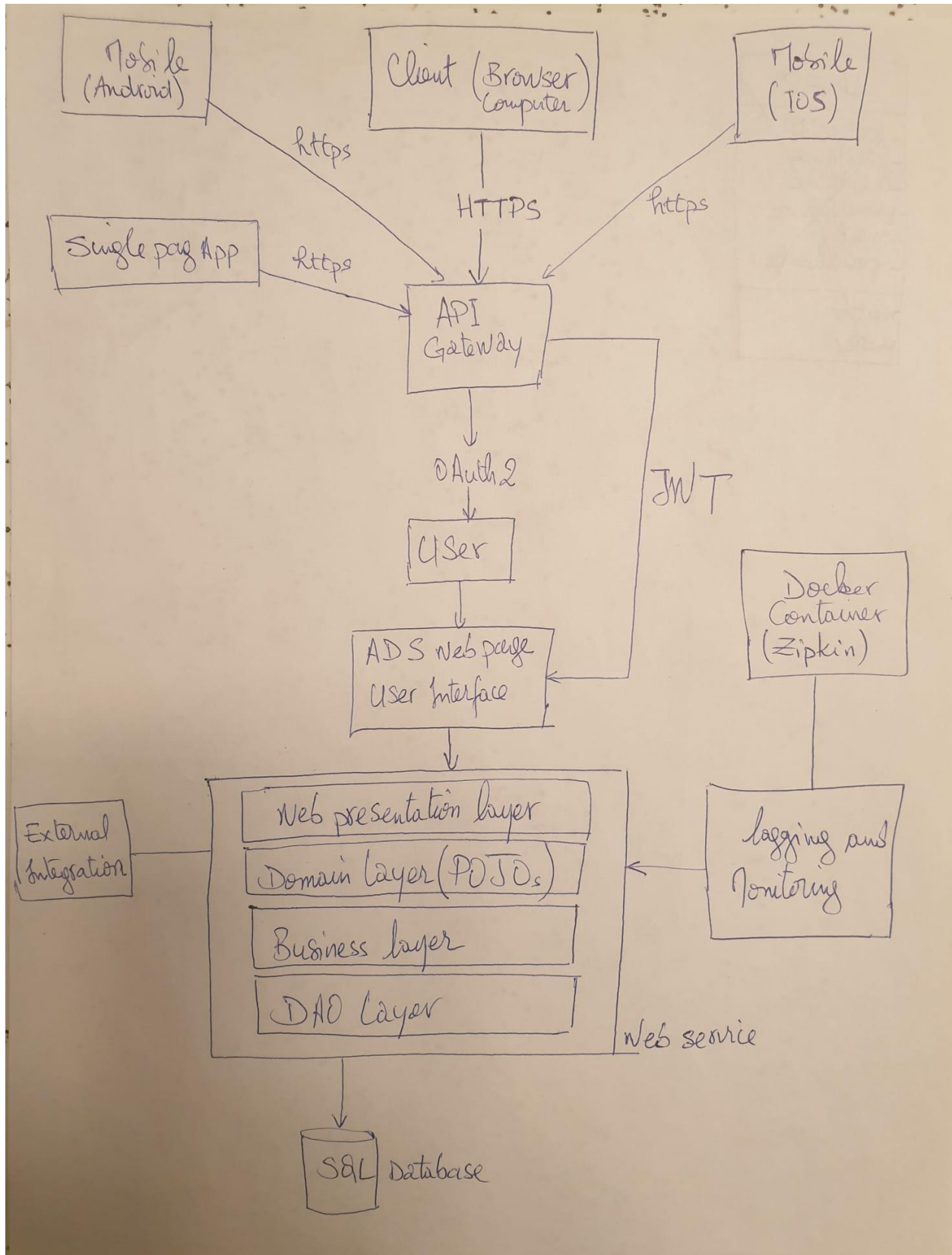1. ADS Software Architecture Diagram:

2. Technologies used in:
    a. Frontend application:
        i. HTML, CSS, bootstrap 4, JavaScript (React.js, Angular)
    b. Web presentation layer:
        i. Spring boot controller, Restful API
    c. Business Layer:
        i. Java 17, Spring boot 3.2.4
    d. Data Access Object Layer: Hibernate/JAP framework
    e. External Integrations:
        i. API Gateway
        ii. Apache Kafka messaging system
        iii. OAuth2 and JWT for authentication
    f. Logging and monitoring:
        i. Log4j, Slf4j
        ii. Zipkin
        iii. Micrometer
        iv. Prometheus
        v. Spring boot Actuator
        vi. Grafana
    g. Docker platform