КАФЕДРА №

ОТЧЕТ		
ЗАЩИЩЕН С ОЦЕНКОЙ		
ПРЕПОДАВАТЕЛЬ		
должность, уч. степень, звание	подпись, дата	инициалы, фамилия
ОТЧЕТ О .	ЛАБОРАТОРНОЙ РАБОТ	TE № 8
I	Разработка микросервиса	
по дисциплине: Технология разработки серверных информационных систем		
РАБОТУ ВЫПОЛНИЛ		
СТУДЕНТ ГР.		
	подпись, дата	инициалы, фамилия

Санкт-Петербург 2023

Текст и вариант задания:

13. Торговля акциями на бирже.

Описание разрабатываемого продукта:

В программе создан сервис для покупки, продажи и просмотра портфеля акций.

Задание на лабораторную работу.

- 1. Подготовьте Ваше приложение к разворачиванию в облачном сервисе или компоненте Docker.
- 2. Реализуйте файл docker-compose.xml, который будет содержать все необходимые для работы Вашего приложения ресурсы
- 3. Внимание. В виду того, что далеко не на каждом компьютере можно запустить систему виртуализации, данная лабораторная работа сдается в электронном виде, без демонстрации преподавателю.

Текст основных фрагментов кода:

```
Itemobj.java

package com.example.Project;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

@Entity

public class ItemObj {
    @ Id
    private int stockID;
    private String stock_name;
    private String purchase_date;

public ItemObj() {}

public ItemObj(int stockID, String stock_name, String purchase_date) {
    this.stockID = stockID;
```

```
this.stock_name = stock_name;
  this.purchase_date = purchase_date;
}
public int getStockID() {
  return stockID;
}
public void setStockID(int stockID) {
  this.stockID = stockID;
}
public String getStock_name() {
  return stock_name;
public void setStock_name(String stock_name) {
  this.stock_name = stock_name;
}
public String getPurchase_date() {
  return purchase_date;
}
public void setPurchase_date(String purchase_date) {
  this.purchase_date = purchase_date;
}
@Override
```

```
public String toString() {
    return "ItemObj{" +
         "stockID=" + stockID +
         ", stock_name="" + stock_name + "\" +
         ", purchase_date="" + purchase_date + "\" +
         '}';
  }
}
Itemobjrepository
package com.example.Project;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ItemObjRepository extends JpaRepository<ItemObj, Integer> {
}
Logincontroller
package com.example.Project;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServletRequest;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
@Controller
public class LoginController {
```

```
@GetMapping("/login")
  public String login() {
    return "login";
  }
  @PostMapping("/logout")
  public String logout(HttpServletRequest request) throws ServletException {
    request.logout();
    return "redirect:/login";
  }
}
MyKafkaConsumer
package com.example.Project;
import com.fasterxml.jackson.databind.ObjectMapper;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Profile;
import org.springframework.kafka.annotation.KafkaListener;
import org.springframework.stereotype.Service;
@Service
@Profile("consumer")
public class MyKafkaConsumer {
  private final ItemObjRepository repository;
  private final ObjectMapper objectMapper = new ObjectMapper();
  @Autowired
```

```
public MyKafkaConsumer(ItemObjRepository repository) {
    this.repository = repository;
  }
  @KafkaListener(topics = "myTopic")
  public void listen(String message) {
    System.out.println(message);
    // Преобразование сообщения обратно в ItemObj и сохранение его в базе данных
    ItemObj itemObj = convertMessageToItemObj(message);
    repository.save(itemObj);
  }
  private ItemObj convertMessageToItemObj(String message) {
    try {
       return objectMapper.readValue(message, ItemObj.class);
    } catch (Exception e) {
       throw new RuntimeException("Ошибка при преобразовании сообщения", е);
    }
  }
myKafkaProducer
package com.example.Project;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.kafka.core.KafkaTemplate;
import org.springframework.stereotype.Service;
```

}

```
@Service
public class MyKafkaProducer {
  private final KafkaTemplate<String, String> kafkaTemplate;
  @Autowired
  public MyKafkaProducer(KafkaTemplate<String, String> kafkaTemplate) {
    this.kafkaTemplate = kafkaTemplate;
  }
  public void sendMessage(String topic, String key, String message) {
    kafkaTemplate.send(topic, key, message);
  }
}
projectApplication
package com.example.Project;
import org.springframework.boot.SpringApplication;
import\ or g. spring framework. boot. autoconfigure. Spring Boot Application;
```

```
import org.springframework.context.MessageSource;
import org.springframework.context.annotation.Bean;
import org.springframework.context.support.ReloadableResourceBundleMessageSource;
import org.springframework.web.servlet.LocaleResolver;
import org.springframework.web.servlet.config.annotation.InterceptorRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
import org.springframework.web.servlet.i18n.LocaleChangeInterceptor;
import org.springframework.web.servlet.i18n.SessionLocaleResolver;
import java.util.Locale;
import org.apache.catalina.Context;
import org.apache.tomcat.util.descriptor.web.FilterDef;
import org.apache.tomcat.util.descriptor.web.FilterMap;
import org.springframework.boot.web.embedded.tomcat.TomcatServletWebServerFactory;
import org.springframework.boot.web.servlet.server.ServletWebServerFactory;
import org.springframework.web.filter.CharacterEncodingFilter;
@SpringBootApplication
public class ProjectApplication implements WebMvcConfigurer{
       public static void main(String[] args) {
              SpringApplication.run(ProjectApplication.class, args);
       }
       // Бин для MessageSource
       @Bean
       public MessageSource messageSource() {
```

```
ReloadableResourceBundleMessageSource = new
ReloadableResourceBundleMessageSource();
             messageSource.setBasename("classpath:messages");
             messageSource.setDefaultEncoding("UTF-8");
             return messageSource;
       }
      // Бин для LocaleResolver
       @Bean
      public LocaleResolver localeResolver() {
             SessionLocaleResolver slr = new SessionLocaleResolver();
             slr.setDefaultLocale(Locale.ENGLISH); // Английский язык по умолчанию
             return slr;
       }
      // Бин для LocaleChangeInterceptor
       @Bean
      public LocaleChangeInterceptor localeChangeInterceptor() {
             LocaleChangeInterceptor lci = new LocaleChangeInterceptor();
             lci.setParamName("lang");
             return lci;
       }
      // Добавление интерцептора для перехвата изменений локали
       @Override
      public void addInterceptors(InterceptorRegistry registry) {
             registry.addInterceptor(localeChangeInterceptor());
       }
      // Настройка кодировки UTF-8 для Tomcat
```

```
@Bean
       public ServletWebServerFactory servletContainer() {
              TomcatServletWebServerFactory tomcat = new
TomcatServletWebServerFactory() {
                     @Override
                     protected void postProcessContext(Context context) {
                            FilterDef filterDef = new FilterDef();
                            filterDef.setFilterName("setCharacterEncodingFilter");
       filterDef.setFilterClass(CharacterEncodingFilter.class.getName());
                            filterDef.addInitParameter("encoding", "UTF-8");
                            filterDef.addInitParameter("forceEncoding", "true");
                            context.addFilterDef(filterDef);
                            FilterMap filterMap = new FilterMap();
                            filterMap.setFilterName("setCharacterEncodingFilter");
                            filterMap.addURLPattern("/*");
                            context.addFilterMap(filterMap);
                     }
              };
              return tomcat;
       }
}
Stockcontroller
package com.example.Project;
import com.fasterxml.jackson.databind.ObjectMapper;
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;
@Controller
@RequestMapping("/stocks")
public class StockController {
  private final ItemObjRepository itemObjRepository;
  private final MyKafkaProducer myKafkaProducer;
  private final ObjectMapper objectMapper = new ObjectMapper();
  @Autowired
  public StockController(ItemObjRepository itemObjRepository, MyKafkaProducer
myKafkaProducer) {
    this.itemObjRepository = itemObjRepository;
    this.myKafkaProducer = myKafkaProducer;
  }
  @GetMapping
  public String getAllStocks(Model model) {
    model.addAttribute("stocks", itemObjRepository.findAll());
    return "stocks";
  }
  @PostMapping
  public String addStock(@ModelAttribute ItemObj stock) {
```

```
itemObjRepository.save(stock);
    if (myKafkaProducer != null) {
       String message = convertStockToMessage(stock);
       myKafkaProducer.sendMessage("myTopic", String.valueOf(stock.getStockID()),
message);
    }
    return "redirect:/stocks";
  }
  @GetMapping("/{id}")
  public String getStock(@PathVariable Integer id, Model model) {
    itemObjRepository.findById(id)
         .ifPresent(stock -> model.addAttribute("stock", stock));
    return itemObjRepository.findById(id).isPresent() ? "stock" : "redirect:/stocks";
  }
  @PostMapping("/delete/{id}")
  public String deleteStock(@PathVariable Integer id) {
    itemObjRepository.deleteById(id);
    return "redirect:/stocks";
  }
  private String convertStockToMessage(ItemObj patient) {
    try {
       return objectMapper.writeValueAsString(patient);
    } catch (Exception e) {
       throw new RuntimeException("Ошибка при преобразовании", е);
    }
  }
```

```
Websequrityconfig
package com.example.Project;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.http.HttpMethod;
import
org. spring framework. security. config. annotation. authentication. builders. Authentication Manager annotation and the strength of the str
erBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.provisioning.InMemoryUserDetailsManager;
import org.springframework.security.web.SecurityFilterChain;
@Configuration
@EnableWebSecurity
public class WebSecurityConfig {
      // Определение цепочки фильтров безопасности
       @Bean
      public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {
             http
```

}

```
.authorizeRequests(authorize -> authorize
              .requestMatchers("/", "/home", "/login", "/style.css", "/js/**",
"/images/**").permitAll()
              .requestMatchers(HttpMethod.POST, "/stocks").authenticated()
              .anyRequest().authenticated()
         )
         .formLogin(form -> form
              .loginPage("/login")
              .defaultSuccessUrl("/stocks", true)
              .permitAll()
         )
         .logout(logout -> logout.permitAll());
    return http.build();
  }
  // Настройка пользователей в памяти
  @Bean
  public InMemoryUserDetailsManager userDetailsService() {
    UserDetails user = User.withDefaultPasswordEncoder()
         .username("user")
         .password("password")
         .roles("ADMIN")
         .build();
    return new InMemoryUserDetailsManager(user);
  }
  // Настройка менеджера аутентификации
  @Autowired
  public void configureGlobal(AuthenticationManagerBuilder auth) throws Exception {
    auth
```

```
.inMemoryAuthentication()
         .withUser("user")
         .password("{noop}password")
         .roles("ADMIN");
  }
}
Style.css
/* Основные стили */
body {
  font-family: 'Arial', sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f4f4f4;
  color: #333;
}
.container {
  width: 90%;
  max-width: 1200px;
  margin: 20px auto;
  padding: 15px;
  background: white;
  border-radius: 10px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
  overflow: hidden;
}
```

```
h1, h2 {
  color: #5cb85c; /* Зеленый цвет */
  text-align: center;
  margin-bottom: 20px;
}
/* Стили таблиц */
table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 20px;
}
th, td {
  padding: 10px;
  border: 1px solid #ddd;
  text-align: left;
}
th {
  background-color: #5cb85c; /* Зеленый цвет */
  color: white;
}
tr:nth-child(even) {
  background-color: #f2f2f2;
}
tr:hover {
```

```
background-color: #e2e2e2;
}
/* Стили форм и элементов ввода */
form {
  margin-top: 20px;
  text-align: left;
  padding: 20px;
  background: #fff;
  border-radius: 5px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}
label {
  margin-top: 10px;
  display: block;
  font-weight: bold;
}
input[type="text"],
input[type="number"],
input[type="date"],
input[type="password"],
select {
  width: 100%;
  padding: 8px;
  margin-top: 5px;
  border: 1px solid #ddd;
  border-radius: 4px;
```

```
box-sizing: border-box;
}
/* Стили кнопок */
.delete-button, .details-button, button, input[type="submit"] {
  padding: 10px 15px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  margin-top: 10px;
  width: 100%;
  text-align: center;
}
.details-button { /* Зеленая кнопка для Details */
  background-color: #5cb85c;
  color: white;
}
.details-button:hover {
  background-color: #4cae4c;
}
.delete-button { /* Красная кнопка для Delete */
  background-color: #d9534f;
  color: white;
}
.delete-button:hover {
```

```
background-color: #c9302c;
}
.submit-button { /* Зеленая кнопка для Submit */
  background-color: #5cb85c;
  color: white;
}
.submit-button:hover {
  background-color: #4cae4c;
}
/* Стили для страницы входа и информации об акции */
.login-form {
  max-width: 400px;
  margin: 50px auto;
  padding: 20px;
  background: white;
  border-radius: 10px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
  text-align: center;
}
.login-form input[type="text"],
.login-form input[type="password"] {
  margin-bottom: 15px;
}
.login-form label {
```

```
margin-bottom: 5px;
  display: block;
  text-align: left;
}
.stock-info {
  max-width: 400px;
  margin: 0 auto;
  padding: 20px;
  background: white;
  border-radius: 10px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
/* Стили ссылок */
a {
  color: #4a90e2;
  text-decoration: none;
}
a:hover {
  text-decoration: underline;
}
/* Медиа-запросы для адаптивного дизайна */
@media (max-width: 768px) {
  .container, .login-form, .stock-info {
    width: 95%;
    padding: 10px;
  }
```

```
}
```

```
Login.html
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
  <meta charset="UTF-8">
  <title th:text="#{login.title}">Вход в систему управления акциями</title>
  k rel="stylesheet" type="text/css" th:href="@{/style.css}" />
</head>
<body>
<div class="login-form">
  <h2 th:text="#{login.header}">Вход в систему управления акциями</h2>
  <form action="/login" method="post" th:action="@{/login}">
    <input type="hidden" th:name="${_csrf.parameterName}" th:value="${_csrf.token}"/>
    <div>
       <label th:text="#{login.username}">Имя пользователя:</label>
       <input type="text" name="username" required>
    </div>
    <div>
       <label th:text="#{login.password}">Пароль:</label>
       <input type="password" name="password" required>
    </div>
    <div>
       <input type="submit" class="submit-button" th:value="#{login.submit}"</pre>
value="Войти">
    </div>
  </form>
</div>
```

```
</body>
</html>
Stock.html
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
 <meta charset="UTF-8">
 <title th:text="#{stock.title}">Акция</title>
 k rel="stylesheet" type="text/css" th:href="@{/style.css}" />
</head>
<body>
<div class="container">
 <h1 th:text="#{stock.info}">Информация об акции</h1>
 <strong th:text="#{stock.name}">Название акции:</strong> <span
th:text="${stock.stock_name}"></span>
 <strong th:text="#{stock.id}">ID акции:</strong> <span
th:text="${stock.stockID}"></span>
 <strong th:text="#{stock.date}">Дата покупки:</strong> <span
th:text="${stock.purchase_date}"></span>
 <a th:href="@{/stocks}" th:text="#{stock.return}">Вернуться к списку акций</a>
</div>
</body>
</html>
Stocks.html
<!DOCTYPE html>
<a href="http://www.thymeleaf.org">
<head>
```

```
<meta charset="UTF-8">
<title th:text="#{stocks.title}">Акции</title>
k rel="stylesheet" type="text/css" th:href="@{/style.css}" />
</head>
<body>
<div class="container">
<h1 th:text="#{stocks.header}">Акции</h1>
Название акции
  ID акции
  Дата покупки
  >
   <a th:href="@{/stocks/{id}(id=${stock.stockID})}" class="submit-button"
th:text="#{stocks.details}">Подробнее</a>
   <form th:action="@{/stocks/delete/{id}(id=${stock.stockID})}" method="post">
   <input type="submit" class="delete-button" th:value="#{stocks.delete}"</pre>
value="Удалить">
   </form>
  <h2 th:text="#{stocks.add}">Добавить акцию</h2>
<form th:action="@{/stocks}" method="post">
```

```
<input type="text" name="stock_name" th:placeholder="#{stocks.stockName}" required>
  <input type="text" name="stockID" th:placeholder="#{stocks.stockId}" required>
  <input type="date" name="purchase_date" th:placeholder="#{stocks.purchaseDate}"</pre>
required>
  <input type="submit" class="submit-button" th:value="#{stocks.submit}"</pre>
value="Добавить">
 </form>
</div>
</body>
</html>
messages_en.properties
login.title=Stock Management System Login
login.header=Login to Stock Management System
login.username=Username
login.password=Password
login.submit=Login
stock.title=Stock
stock.info=Stock Information
stocks.header=Stocks
stocks.name=Name
stocks.id=ID
stocks.date=Purchase Date
stocks.details=Details
stocks.delete=Delete
stocks.add=Add New Stock
stocks.stockName=Stock Name
stocks.stockId=Stock ID
```

```
stocks.purchaseDate=Purchase Date
```

stocks.submit=Submit

stock.name=Name

stock.id=ID

stock.date=Purchase date

stock.return=Return to stock list

stocks.title=Stock

messages_ru.properties

login.title=Đ' Ñ..Đ¾Đ´Đ² Ñ • иÑ • Ñ, ĐμĐ¼Ñf Ñf Đ¿Ñ€ аĐ²Đ»ĐμĐ½Đ¸Ñ • аац иÑ • Đ¼Đ¸

login.header=Đ' Ñ..Đ¾Đ´Đ² Ñ • иÑ • Ñ, еĐ¼Ñf Ñf Đ¿Ñ€ аĐ²Đ»ĐµĐ½Đ¸Ñ • аац иÑ • Đ¼Đ¸

login.username= D^{\sim} $D^{1/4}\tilde{N} \cdot D_{i/2}D^{3/4}D \gg \tilde{N} \times D^{2}D^{\circ}\tilde{N}$, $D\mu D \gg \tilde{N} \cdot D^{3/4}D \approx \tilde{N} \times D^{3/4}D \approx \tilde{N}$

login.password=ĐŸĐ°Ñ€ Đ¾Đ»ÑŒ

login.submit=Đ' Đ¾Đ¹Ñ, Đ,

 $stock.title=D \bullet D^{\circ}N^{\dagger} D_{\circ}N \bullet$

 $stock.info=D^{\sim} D^{1}\!\!/2\tilde{N},,\ D^{3}\!\!/4\tilde{N} \in D^{1}\!\!/4D^{\circ}\tilde{N}^{\dagger} \ D_{s}\tilde{N} \bullet \ D^{3}\!\!/4D \pm D^{\circ}D^{\circ}\tilde{N}^{\dagger} \ D_{s}D_{s}$

stocks.header=Đ • ац Đ.Đ.

 $stocks.name=D \cdot D^{\circ}D \cdot D^{2}D^{\circ}D^{1/2}D_{s}D\mu$

stocks.id=Đ~ деĐ½Ñ, иÑ,, иааÑ, Đ¾Ñ€

stocks.date=D" D° \tilde{N} , D° D; D34D° \tilde{N} f D; D°D

stocks.details=ĐŸĐ¾Đ´Ñ€ Đ¾Đ±Đ½ĐμĐμ

stocks.delete=Đ£Đ´Đ°Đ»Đ¸Ñ, ÑŒ

stocks.add=Đ" Đ¾Đ±Đ°Đ²Đ¸Ñ, ÑŒĐ°Đ°Ñ† иÑŽ

stocks.stockName=Đ • аĐ·Đ²Đ°Đ½Đ Đụ аац Đ Đ

stocks.stockId=ID аац ии

stocks.purchaseDate= \tilde{D} " \tilde{D} \tilde{O} N, \tilde{D} \tilde{O} D \tilde{O} D

stocks.submit=Đž Ñ, Đ¿Ñ€ аĐ²Đ¸Ñ, ÑŒ

stock.name= $D \cdot D^{\circ}D \cdot D^{2}D^{\circ}D^{1/2}D \cdot D\mu \cdot D^{\circ}\tilde{N}^{\dagger} \cdot D \cdot D$

server.port=8088

spring.datasource.url=jdbc:mysql://localhost:3306/stocks

spring.datasource.username=root

spring.datasource.password=12qwaszx

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

#spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect

spring.jpa.hibernate.ddl-auto=update

spring.kafka.bootstrap-servers=localhost:9092

spring.profiles.active=producer

Producer configuration spring.kafka.producer.bootstrap-servers=localhost:9092

consumer1.properties
server.port=9090
spring.datasource.url=jdbc:mysql://localhost:3306/stocks
spring.datasource.username=root
spring.datasource.password=12qwaszx
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
#spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update

```
# Consumer configuration for consumer 1
spring.kafka.consumer.bootstrap-servers=localhost:9092
spring.kafka.consumer.group-id=myGroup
```

```
consumer2.properties
server.port=9091
spring.datasource.url=jdbc:mysql://localhost:3306/stocks
spring.datasource.username=root
spring.datasource.password=12qwaszx
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
#spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update
# Consumer configuration for consumer 2
spring.kafka.consumer.bootstrap-servers=localhost:9092
spring.kafka.consumer.group-id=myGroup2
```

```
docker-compose.yml

version: "3.9"

services:

zookeeper:

image: confluentinc/cp-zookeeper:latest
ports:

- "22181:2181"

environment:

ZOOKEEPER_CLIENT_PORT: 2181

ZOOKEEPER_TICK_TIME: 2000
```

```
kafka:
 image: confluentinc/cp-kafka:latest
 depends_on:
  - zookeeper
 ports:
  - "29092:9092"
 environment:
  KAFKA_BROKER_ID: 1
  KAFKA_ZOOKEEPER_CONNECT: zookeeper:2181
  KAFKA_ADVERTISED_LISTENERS:
PLAINTEXT://kafka:9092,PLAINTEXT_HOST://localhost:29092
  KAFKA_LISTENER_SECURITY_PROTOCOL_MAP:
PLAINTEXT:PLAINTEXT,PLAINTEXT_HOST:PLAINTEXT
  KAFKA_INTER_BROKER_LISTENER_NAME: PLAINTEXT
  KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1
mysql:
 image: mysql:5.7
 environment:
  MYSQL_DATABASE: "stocks"
  MYSQL_ROOT_PASSWORD: "12qwaszx"
 ports:
  - "3306:3306"
mykafkaproducer:
 build:
  context: /Users/andrey/Documents/IntelliJ/ProjectKafka111
 ports:
  - 8088:8088
```

```
SPRING_DATASOURCE_URL: jdbc:mysql://mysql:3306/stocks
 SPRING_DATASOURCE_USERNAME: root
 SPRING_DATASOURCE_PASSWORD: 12qwaszx
 SPRING_DATASOURCE_DRIVERCLASSNAME: com.mysql.cj.jdbc.Driver
 SPRING_KAFKA_BOOTSTRAP_SERVERS: kafka:9092
depends_on:
 - mysql
 - kafka
consumer1:
build:
 context: /Users/andrey/Documents/IntelliJ/ProjectKafka111
ports:
 - 9090:9090
environment:
 SPRING_DATASOURCE_URL: jdbc:mysql://mysql:3306/stocks
 SPRING_DATASOURCE_USERNAME: root
 SPRING_DATASOURCE_PASSWORD: 12qwaszx
 SPRING_DATASOURCE_DRIVERCLASSNAME: com.mysql.cj.jdbc.Driver
 SPRING_KAFKA_BOOTSTRAP_SERVERS: kafka:9092
 SPRING_KAFKA_CONSUMER_GROUP_ID: myGroup
depends_on:
 - mysql
 - kafka
consumer2:
build:
 context: /Users/andrey/Documents/IntelliJ/ProjectKafka111
```

environment:

```
ports:
```

- 9091:9091

environment:

SPRING_DATASOURCE_URL: jdbc:mysql://mysql:3306/stocks

SPRING_DATASOURCE_USERNAME: root

SPRING_DATASOURCE_PASSWORD: 12qwaszx

SPRING_DATASOURCE_DRIVERCLASSNAME: com.mysql.cj.jdbc.Driver

SPRING_KAFKA_BOOTSTRAP_SERVERS: kafka:9092

SPRING_KAFKA_CONSUMER_GROUP_ID: myGroup2

depends_on:

- mysql
- kafka

Dockerfile:

FROM eclipse-temurin:17.0.9_9-jdk

RUN mkdir -p /usr/src/myapp

COPY target/ProjectKafka111.jar /usr/src/myapp

RUN mkdir -p /usr/src/myapp/target

COPY target/keystore.p12 /usr/src/myapp/target

WORKDIR /usr/src/myapp

ENTRYPOINT ["java","-jar","./ProjectKafka111.jar"]