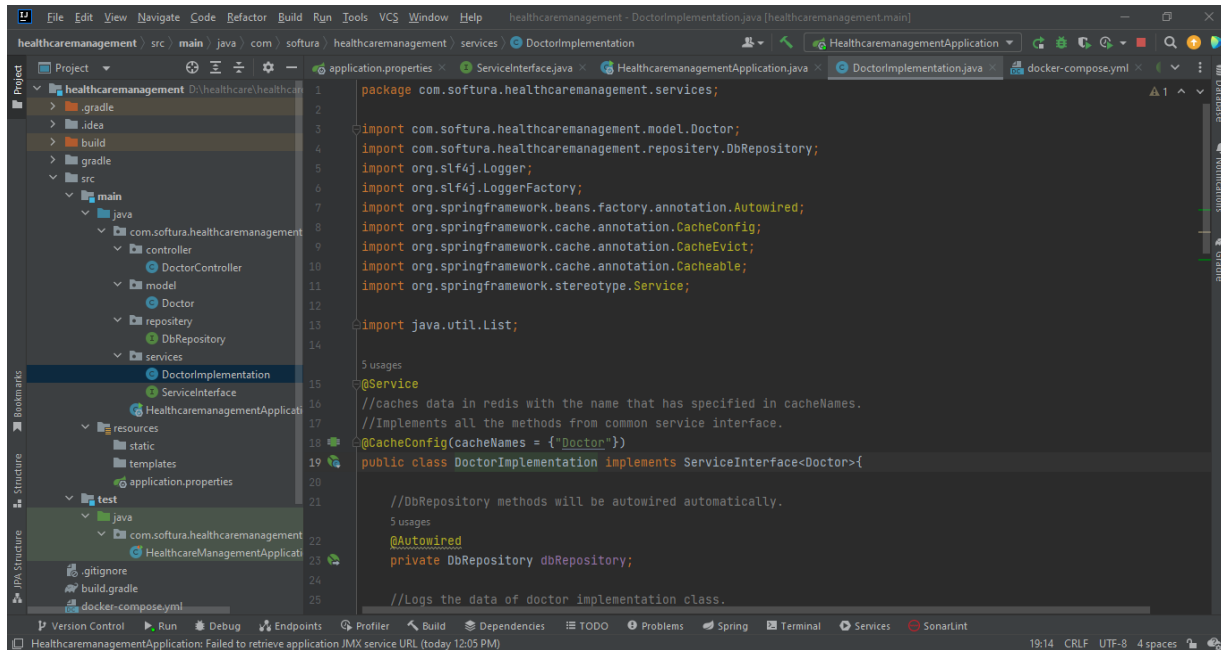
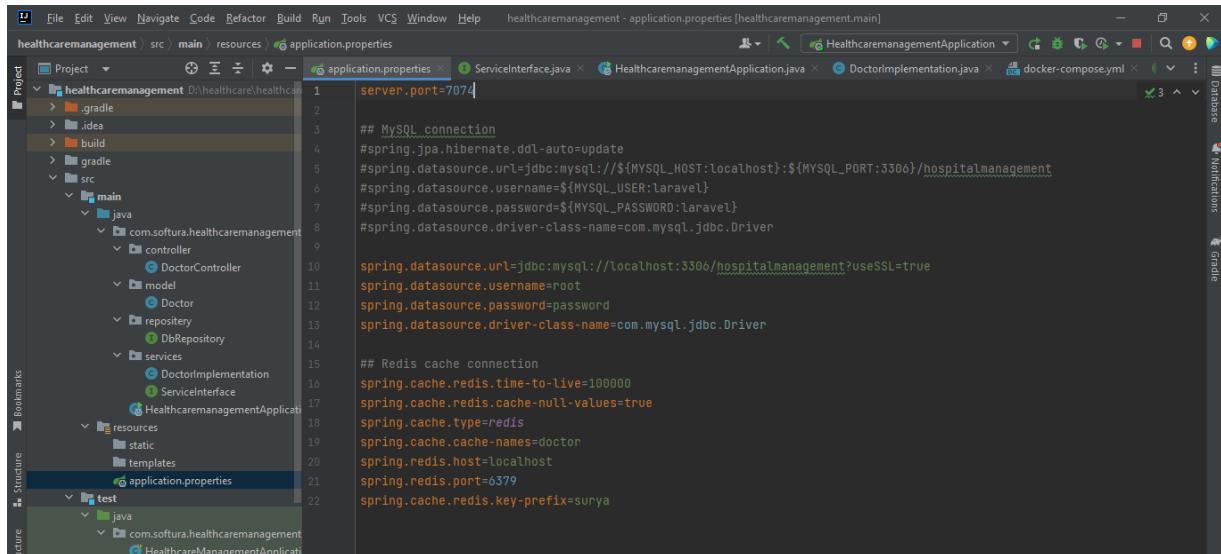


Running locally: -

Code Screen Shorts: -



```
1 package com.softura.healthcaremanagement.services;
2
3 import com.softura.healthcaremanagement.model.Doctor;
4 import com.softura.healthcaremanagement.repository.DbRepository;
5 import org.slf4j.Logger;
6 import org.slf4j.LoggerFactory;
7 import org.springframework.beans.factory.annotation.Autowired;
8 import org.springframework.cache.annotation.CacheConfig;
9 import org.springframework.cache.annotation.CacheEvict;
10 import org.springframework.cache.annotation.Cacheable;
11 import org.springframework.stereotype.Service;
12
13 import java.util.List;
14
15 @Service
16 //caches data in redis with the name that has specified in cacheNames.
17 //Implements all the methods from common service interface.
18 @CacheConfig(cacheNames = {"doctor"})
19 public class DoctorImplementation implements ServiceInterface<Doctor>{
20
21     //DbRepository methods will be autowired automatically.
22     @Autowired
23     private DbRepository dbRepository;
24
25     //Logs the data of doctor implementation class.
```



```
1 server.port=7074
2
3 ## MySQL connection
4 #spring.jpa.hibernate.ddl-auto=update
5 #spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:${MYSQL_PORT:3306}/hospitalmanagement
6 #spring.datasource.username=${MYSQL_USER:laravel}
7 #spring.datasource.password=${MYSQL_PASSWORD:laravel}
8 #spring.datasource.driver-class-name=com.mysql.jdbc.Driver
9
10 spring.datasource.url=jdbc:mysql://localhost:3306/hospitalmanagement?useSSL=true
11 spring.datasource.username=root
12 spring.datasource.password=password
13 spring.datasource.driver-class-name=com.mysql.jdbc.Driver
14
15 ## Redis cache connection
16 spring.cache.redis.time-to-live=100000
17 spring.cache.redis.cache-null-values=true
18 spring.cache.type=redis
19 spring.cache.cache-names=doctor
20 spring.redis.host=localhost
21 spring.redis.port=6379
22 spring.cache.redis.key-prefix=sunya
```

Outputs: -

The screenshot displays the ScratchPad application interface, which is used for working locally in a workspace. The top bar indicates the current workspace is "Switch to a Workspace".

The left sidebar contains navigation options: Collections, APIs, Environments, Mock Servers, Monitors, and History. The "Collections" section is active, showing a message: "You don't have any collections. Collections let you group related requests, making them easier to access and run." A "Create Collection" button is visible.

The main area shows a REST client setup for a GET request to `http://localhost:7074/doctors/getById/v1.0/1003`. The request is configured with the following parameters:

- Method: GET
- URL: `http://localhost:7074/doctors/getById/v1.0/1003`
- Headers: 6
- Body: (Empty)
- Pre-request Script: (Empty)
- Tests: (Empty)
- Settings: (Empty)

The response is displayed in the "Body" tab, showing a JSON object:

```
{
  "id": 1003,
  "name": "Lakshmi",
  "mobileNumber": 885601144,
  "status": "Avalable",
  "startTime": "12:00:00",
  "endTime": "08:30:00"
}
```

The status bar at the bottom indicates the request was successful (Status: 200 OK, Time: 23 ms, Size: 282 B). The "Save Response" button is visible.

Home

Containers

Images

Volumes

Dev Environments PREVIEW

Extensions BETA

Add Extensions

redisjava redis

Logs

Inspect

Stats

1:M 07 Jun 2022 06:35:54.608 * Saving the final RDB snapshot before exiting.

1:M 07 Jun 2022 06:35:54.623 * DB saved on disk

1:M 07 Jun 2022 06:35:54.623 * Redis is now ready to exit, bye bye...

1:C 07 Jun 2022 06:36:00.524 # oO0oO0o0oO0o0 Redis is starting oO0oO0o0oO0o0

1:C 07 Jun 2022 06:36:00.524 # Redis version=7.0.0, bits=64, commit=00000000, modified=0, pid=1, just started

1:C 07 Jun 2022 06:36:00.524 # Warning: no config file specified, using the default config. In order to specify a config file use redis-server /path/to/redis.conf

1:M 07 Jun 2022 06:36:00.524 * monotonic clock: POSIX clock_gettime

1:M 07 Jun 2022 06:36:00.525 * Running mode=standalone, port=6379.

1:M 07 Jun 2022 06:36:00.525 # Server initialized

1:M 07 Jun 2022 06:36:00.525 # WARNING overcommit_memory is set to 0! Background save may fail under low memory condition. To fix this issue add 'vm.overcommit_memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect.

1:M 07 Jun 2022 06:36:00.525 # The AOF directory appendonlydir doesn't exist

1:M 07 Jun 2022 06:36:00.525 # Loading RDB produced by version 7.0.0

1:M 07 Jun 2022 06:36:00.525 * RDB age 6 seconds

1:M 07 Jun 2022 06:36:00.525 * RDB memory usage when created 0.90 Mb

1:M 07 Jun 2022 06:36:00.525 * Done loading RDB, keys loaded: 1, keys expired: 0.

1:M 07 Jun 2022 06:36:00.525 * DB loaded from disk: 0.000 seconds

1:M 07 Jun 2022 06:36:00.525 * Ready to accept connections

1:M 07 Jun 2022 07:36:01.041 # 1 changes in 3600 seconds. Saving...

1:M 07 Jun 2022 07:36:01.057 * Background saving started by pid 28

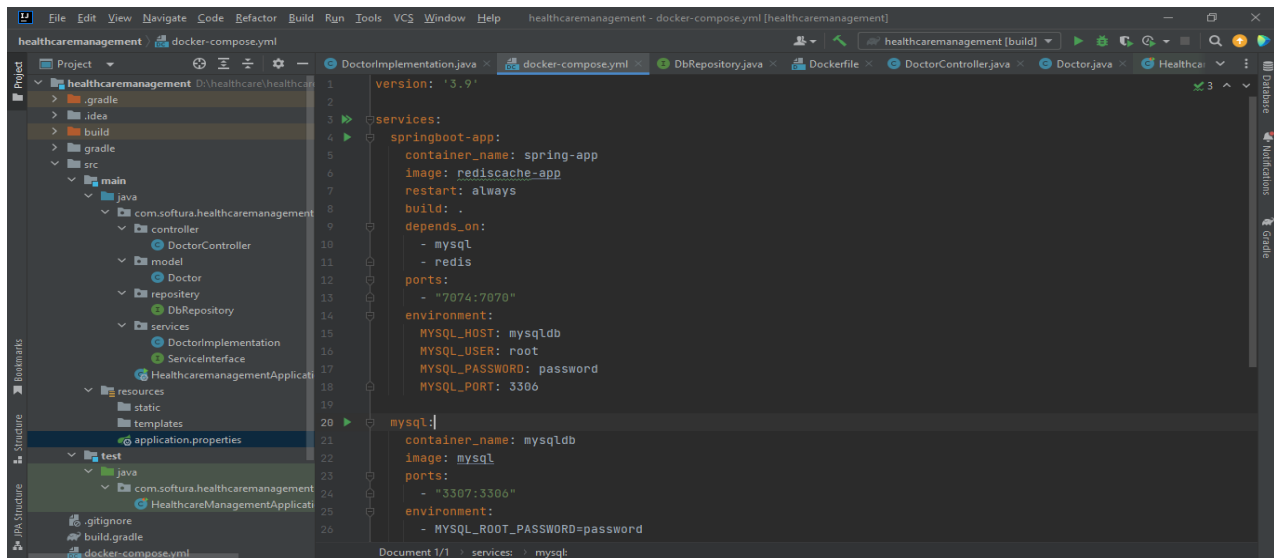
28:C 07 Jun 2022 07:36:01.092 * DB saved on disk

28:C 07 Jun 2022 07:36:01.094 # Fork CoW for RDB: current 0 MB, peak 0 MB, average 0 MB

1:M 07 Jun 2022 07:36:01.159 * Background saving terminated with success

[illegible]

Docker-compose code: -

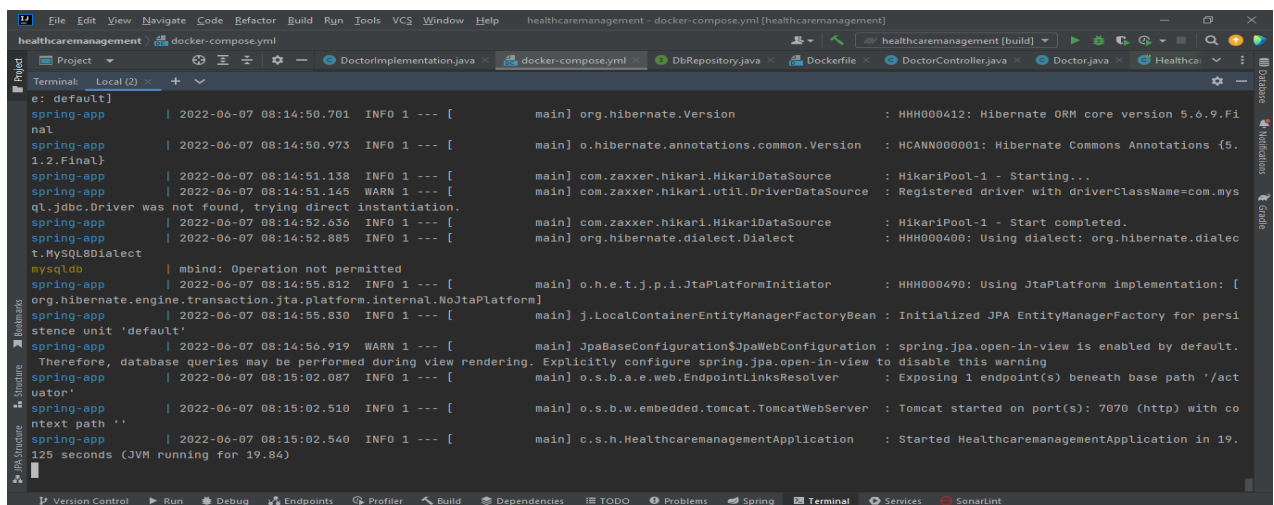


```
version: '3.9'

services:
  springboot-app:
    container_name: spring-app
    image: redis-cache-app
    restart: always
    build: .
    depends_on:
      - mysql
      - redis
    ports:
      - "7074:7070"
    environment:
      MYSQL_HOST: mysql
      MYSQL_USER: root
      MYSQL_PASSWORD: password
      MYSQL_PORT: 3306

  mysql:
    container_name: mysql
    image: mysql
    ports:
      - "3307:3306"
    environment:
      - MYSQL_ROOT_PASSWORD=password
```

The screenshot shows an IDE with the project 'healthcaremanagement' open. The 'docker-compose.yml' file is selected, showing the configuration for two services: 'springboot-app' and 'mysql'. The 'springboot-app' service uses the 'redis-cache-app' image and depends on 'mysql' and 'redis'. The 'mysql' service uses the 'mysql' image. The environment variables for 'springboot-app' include 'MYSQL_HOST', 'MYSQL_USER', 'MYSQL_PASSWORD', and 'MYSQL_PORT'. The 'mysql' service has an environment variable 'MYSQL_ROOT_PASSWORD' set to 'password'.



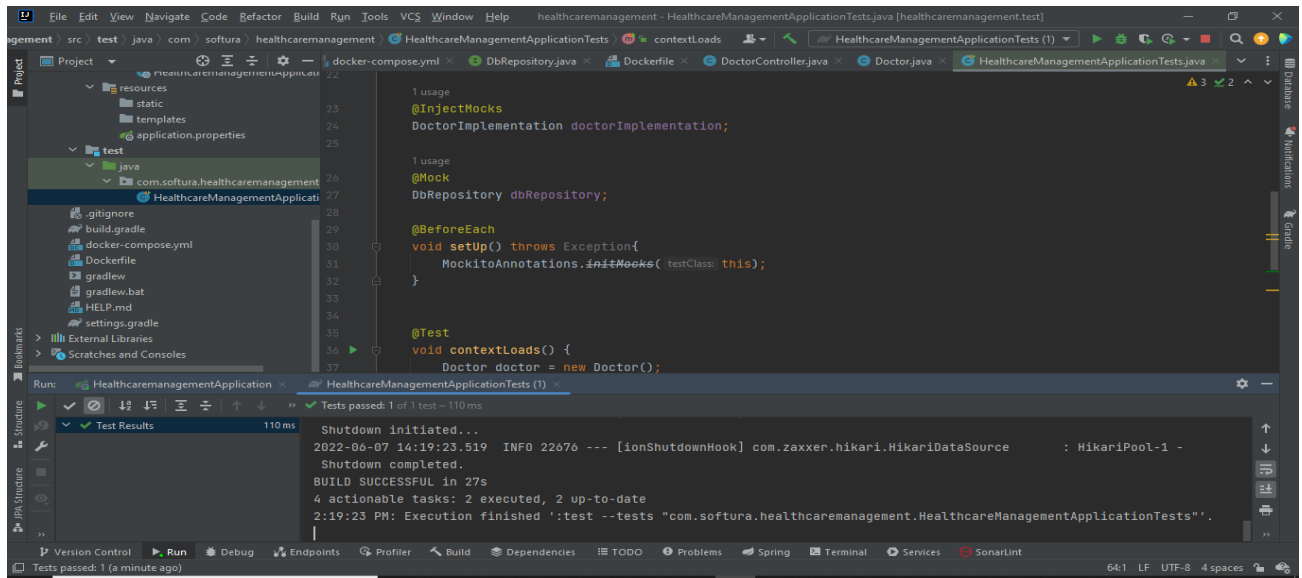
```
e: default
spring-app | 2022-06-07 08:14:50.701 INFO 1 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.9.Final
spring-app | 2022-06-07 08:14:50.973 INFO 1 --- [main] o.h.ibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
spring-app | 2022-06-07 08:14:51.138 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
spring-app | 2022-06-07 08:14:51.145 WARN 1 --- [main] com.zaxxer.hikari.util.DriverDataSource : Registered driver with driverClassName=com.mysql.jdbc.Driver was not found, trying direct instantiation.
spring-app | 2022-06-07 08:14:52.636 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
spring-app | 2022-06-07 08:14:52.885 INFO 1 --- [main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
mysql | mbind: Operation not permitted
spring-app | 2022-06-07 08:14:55.812 INFO 1 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
spring-app | 2022-06-07 08:14:55.830 INFO 1 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
spring-app | 2022-06-07 08:14:56.919 WARN 1 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
spring-app | 2022-06-07 08:15:02.087 INFO 1 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 1 endpoint(s) beneath base path '/actuator'
spring-app | 2022-06-07 08:15:02.510 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 7070 (http) with context path ''
spring-app | 2022-06-07 08:15:02.540 INFO 1 --- [main] c.s.h.HealthcaremanagementApplication : Started HealthcaremanagementApplication in 19.125 seconds (JVM running for 19.84s)
```

The screenshot shows the terminal output of the application startup. The logs indicate that the application is using Hibernate ORM core version 5.6.9.Final and Hibernate Commons Annotations {5.1.2.Final}. It also shows that the HikariPool-1 is starting and completing. The application is using the MySQLDialect and the JtaPlatformInitiator. The JPA EntityManagerFactory is initialized for the persistence unit 'default'. The application is using the spring.jpa.open-in-view property, which is enabled by default. The application is started on port 7070 (http) with context path ''.

The screenshot shows the Docker Desktop interface. On the left, the 'Containers' tab is active, listing several containers: 'healthcaremanagement_redis_1', 'mysqldb', and 'spring-app'. The 'spring-app' container is selected, showing its status as 'RUNNING' and port '7074'. On the right, the 'Logs' tab for the 'spring-app' container is open, displaying the application's startup logs. The logs show the application starting successfully, with messages about HikariPool-1, dialect selection, JPA configuration, and Tomcat startup.

[illegible]

Test case: -



HealthcareManagementApplicationTests

all > com.softura.healthcaremanagement > HealthcareManagementApplicationTests

1 tests

0 failures

0 ignored

0.110s duration

100% successful

Tests

Standard output

Standard error

Test	Duration	Result
contextLoads()	0.110s	passed

Wrap lines ☐
Generated by Gradle 7.4.1 at Jun 7, 2022, 2:19:23 PM