

Bench Tracking App

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SYNOPSIS

In Bench tracking app there are five services such as employee, assessment, casestudy, certification and project services.

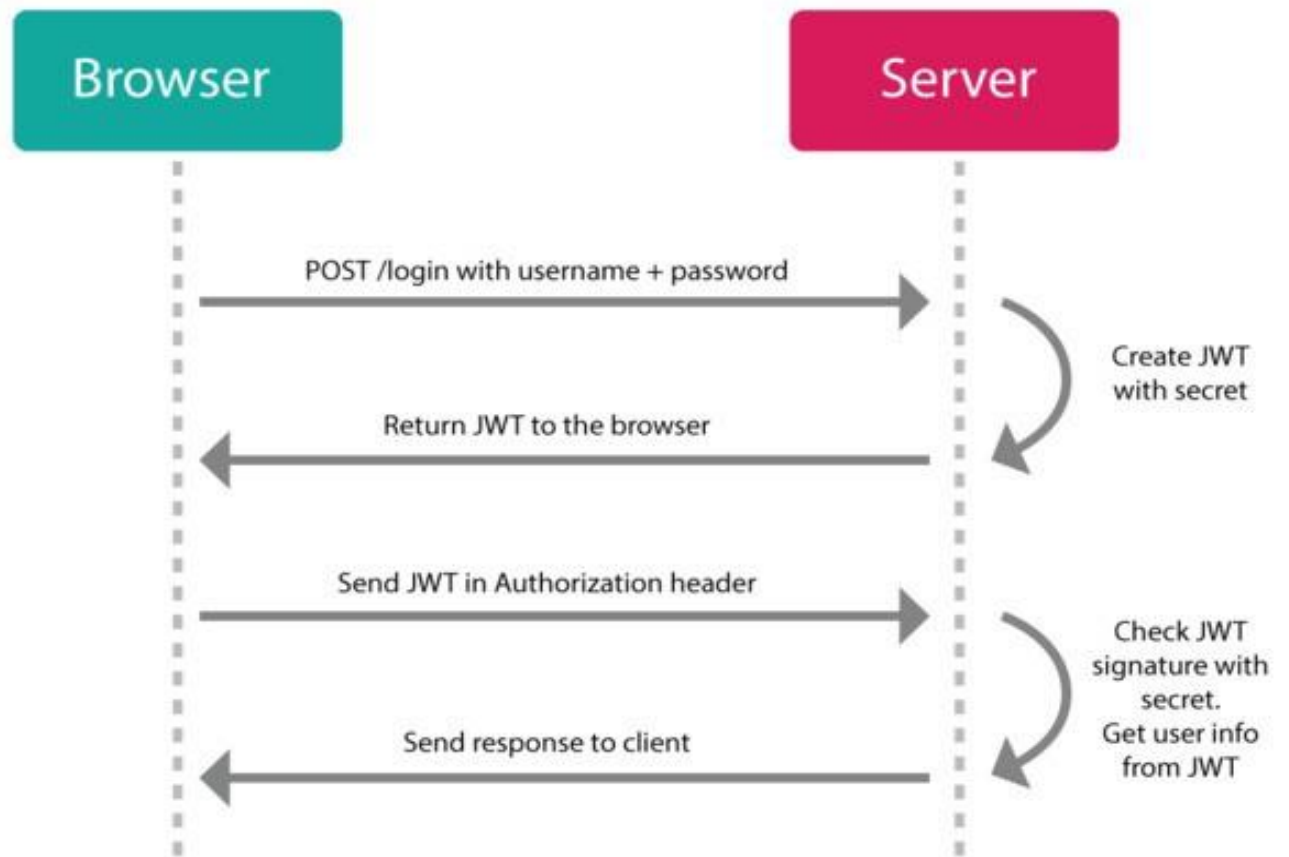
Users must register and login and after login there will be a assessment of MCQs and Coding so after giving the assessment employees will get a score.

And the score of doselect exam will update.

Users will login and register using JWT (JSON Web Token) token.

And in this project we perform one to many relationships between the services by the use of rest template.

JWT Diagram



Software Requirements -

1 mongoDB

2 STS

3 Postman

4 JDK 11

5 chrome

6 Gitbash

Hardware Requirements -

1 RAM-4GB

2 CPU – 2GHZ Processor

3 HDD: 10GB

User Story

Microservices-

1. Employee Service
2. Assessment Service
3. CaseStudy Service
4. Certification Service
5. Project Service
6. Eureka
7. API Gateway

1.Employee Service-In this service we are performing CURD operation.

2. Assessment Service-In this service we are performing CURD operation and link the service by the employee service.

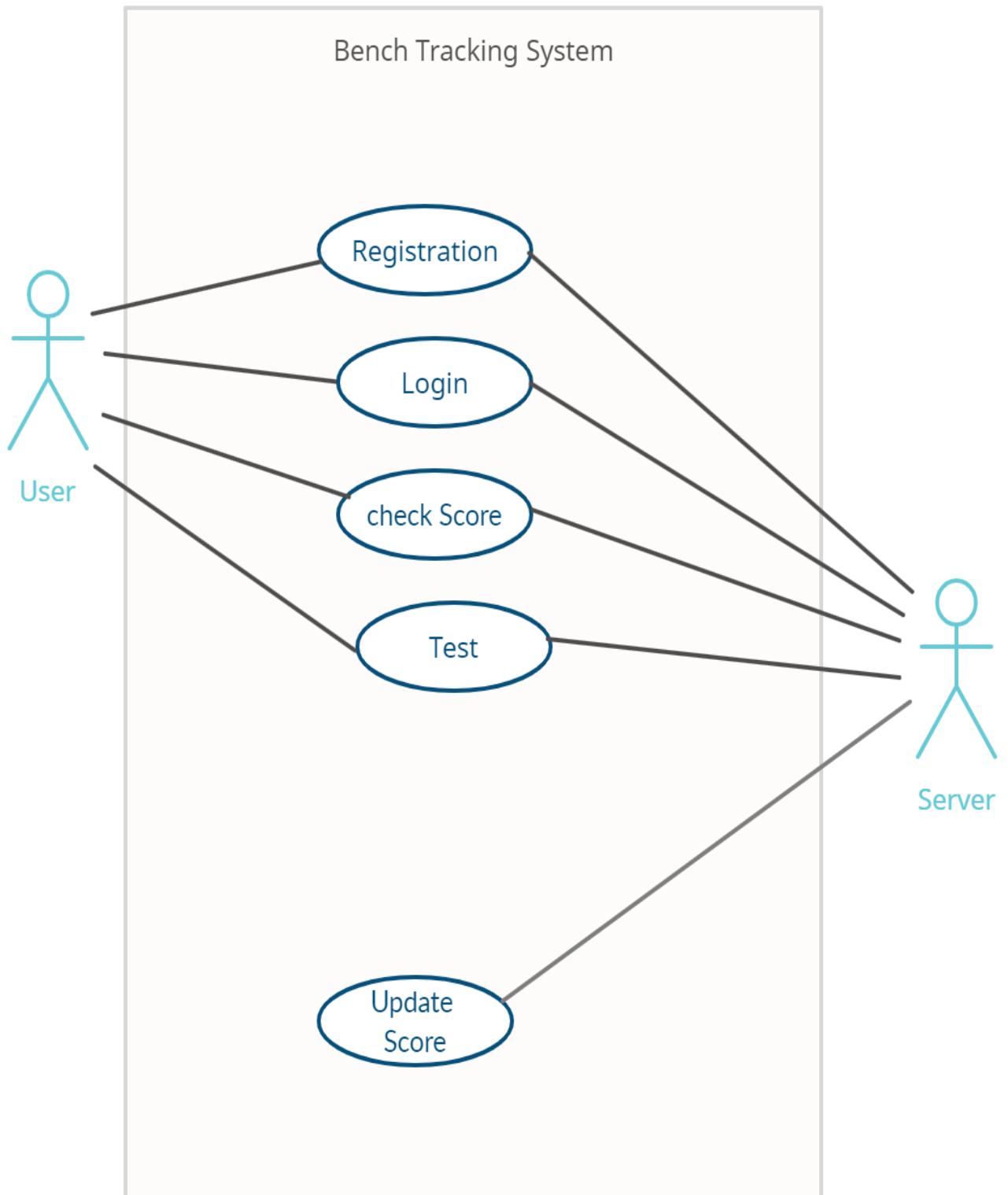
3. CaseStudy Service-In this service we are performing CURD operation and link the service by the employee service.

4. Certification Service-In this service we are performing CURD operation and link the service by the employee service.

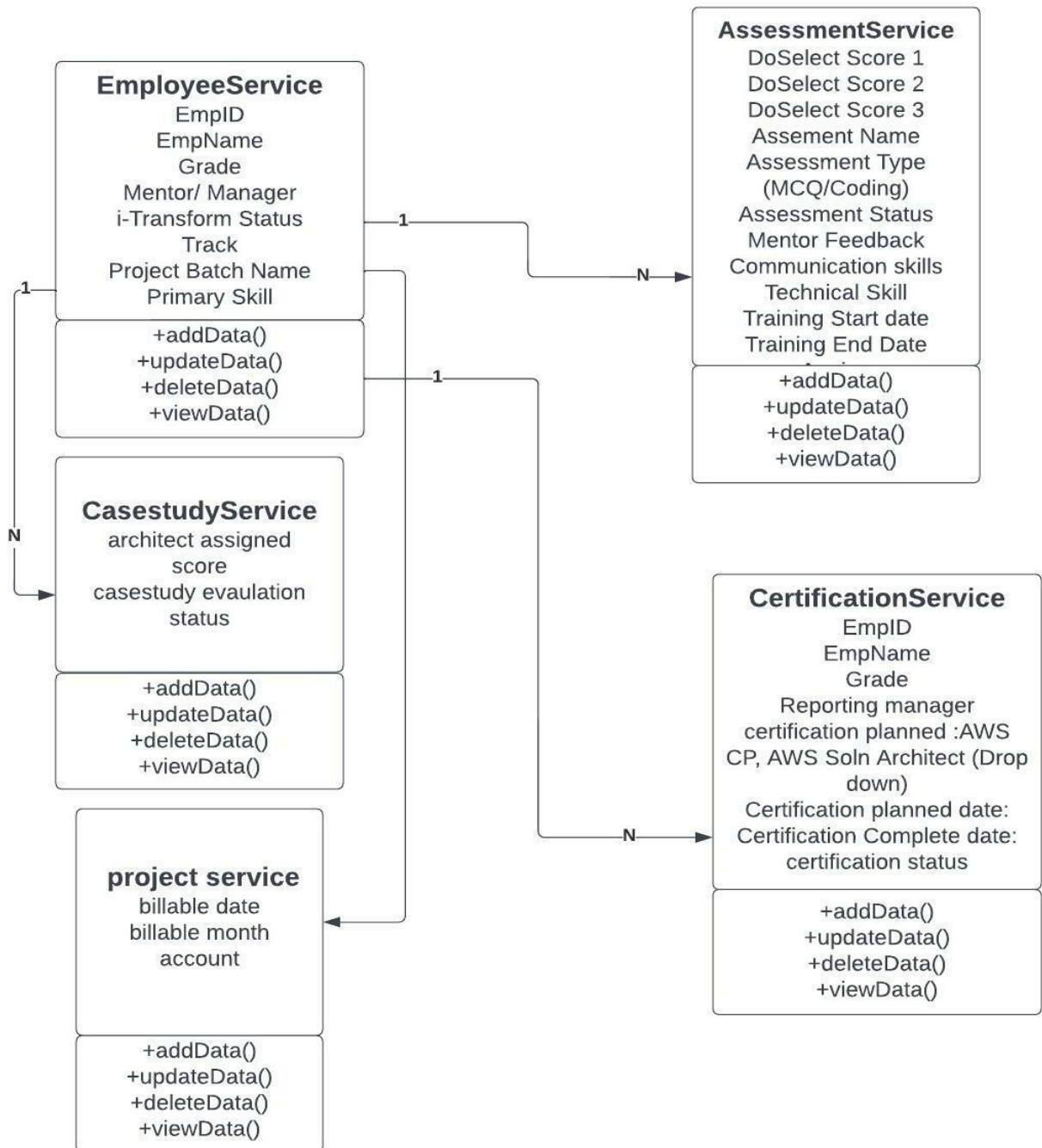
5.ProjectService-In this service we are performing CURD Project and link the service by the employee service.

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Use Case Diagram



Class Diagram



Coverage Report

workspace-spring-tool-suite-4-4.14.0.RELEASE - CaseStudyService/src/test/java/com/cg/service/CaseStudyServiceTest.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit X

Finished after 39.487 seconds

Runs: 7/7 Errors: 0 Failures: 0

CaseStudyServiceTest [Runner: JUnit 5] (0.238 s)

CaseStudyControllerTest [Runner: JUnit 5] (0.597 s)

CaseStudyRepositoryTest [Runner: JUnit 5] (1.399 s)

CaseStudyServiceApplicationTests [Runner: JUnit 5] (0.014 s)

Failure Trace

CaseStudyServiceTest.java

```

23 @SpringBootTest
24 @ExtendWith(MockitoExtension.class)
25 class CaseStudyServiceTest {
26
27     @Mock
28     private CaseStudyRepository cseRepo;
29
30     @InjectMocks
31     private CaseStudyServiceImpl csi;
32
33     @Test
34     public void TestcreateCaseStudyData() throws FileAlreadyExistsException, CaseStudyDataAlrea
35         CaseStudy s1= new CaseStudy(11,"sam",65,"complete");//user input
36
37         when(cseRepo.save(any())).thenReturn(s1);
38         csi.createCaseStudyData(s1);//data is save in database
39         verify(cseRepo,times(1)).save(any());
40

```

Outline

com.cg.service

- CaseStudyServiceTest
 - cseRepo : CaseStudyRepository
 - csi : CaseStudyServiceImpl
 - TestcreateCaseStudyData() : void
 - testgetAllCaseStudyData() : void

Problems Javadoc Declaration Console Coverage X

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
CaseStudyService	72.9 %	391	145	536
src/main/java	40.1 %	93	139	232
com.cg.service	23.1 %	25	83	108
com.cg.exception	9.7 %	3	28	31
com.cg.controller	41.0 %	16	23	39
com.cg	37.5 %	3	5	8
com.cg.model	100.0 %	46	0	46
src/test/java	98.0 %	298	6	304
com.cg.controller	94.3 %	100	6	106
com.cg	100.0 %	4	0	4
com.cg.repository	100.0 %	71	0	71
com.cg.service	100.0 %	123	0	123

Boot Dashboard X

Type tags, projects, or working set names to match (incl. * an

local

15 elements hidden by filter

Conclusion

In Bench tracking app there are five services such as employee, assessment, casestudy, certification and project services.

Employees must register and login and after login there will be a test of MCQs and Coding so after giving the test employees will get a score

And mentor will update the score of doselect exam.