YAZİLİM GELİŞTİRME ORTAM VE ARAÇLARI PROJE RAPORU

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https://github.com/hsynsarikaya/yazilimproje

1- Github

-Github'a bir repositories oluşturuldu ve proje yüklendi.

-Projede yapılan değişiklikler eclipse üzerinden commit edildi.
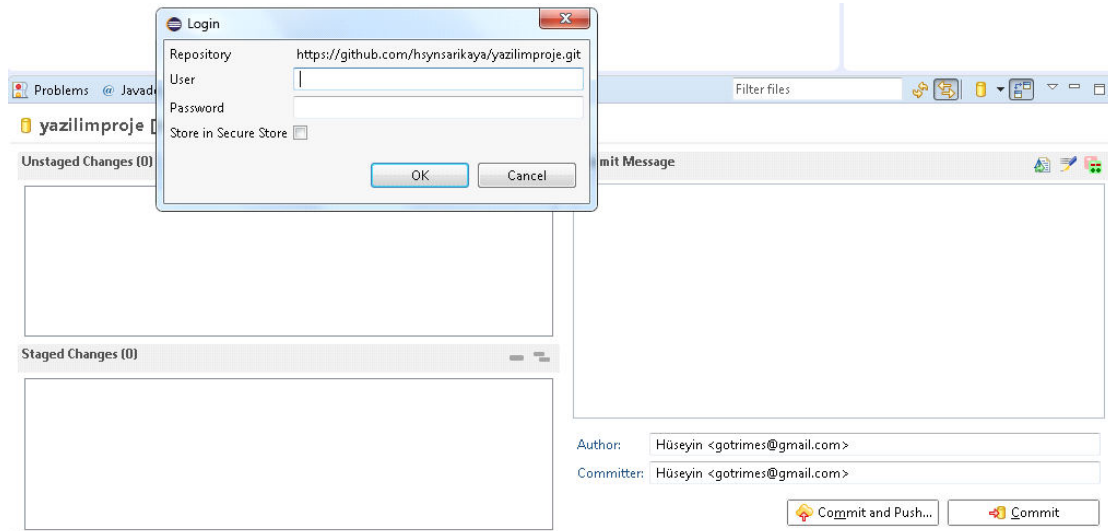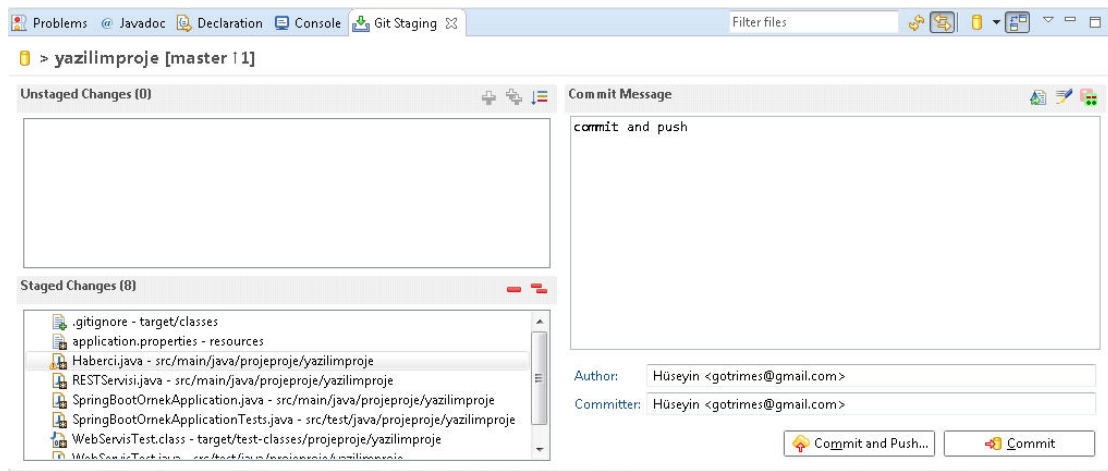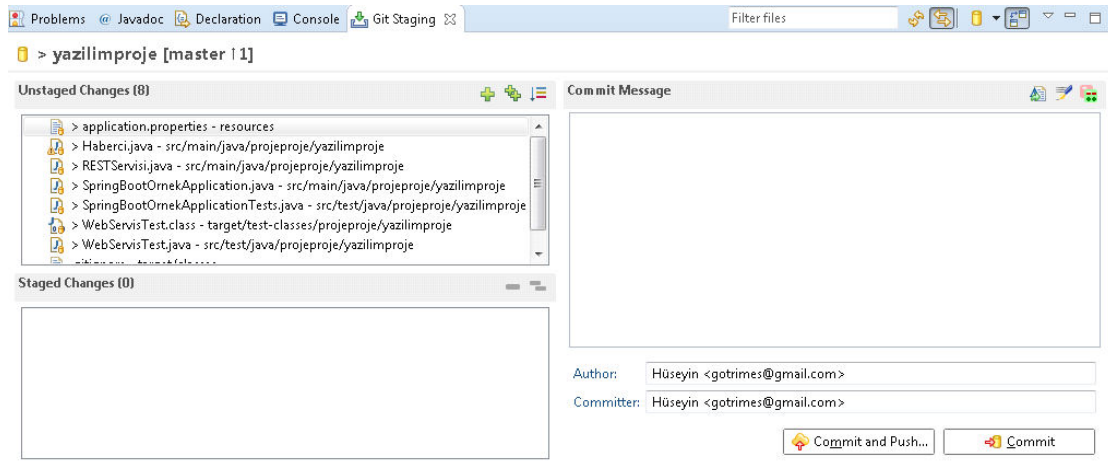
-Proje kodları

```java
import java.io.IOException;

public class WebServisTest {

    public static void main(String[] args) {
        OkHttpClient client = new OkHttpClient();

        Request request = new Request.Builder()
          .url("http://localhost:8888/haberci/olustur?haber=ArabaKazası")
          .get()
          .addHeader("cache-control", "no-cache")
          .addHeader("postman-token", "cf587d5f-e520-fcc7-027c-ea6f1187d851")
          .build();

        try {
            Response response = client.newCall(request).execute();
            System.out.println(response.body().string());
        } catch (IOException e) {
            System.out.println("Hata: " + e);
        }
    }
}
```

```java
8
9   @RestController
10  public class RESTServisi {
11
12      private static final List<Haberci> HABERCILER = new ArrayList<Haberci>();
13
14      private Object kilit = new Object();
15
16      @RequestMapping("/haberci/olustur")
17      public synchronized Haberci haberciOlustur(String haber, String tarih){
18          synchronized (kilit) {
19              Haberci haberci = new Haberci(haber, tarih);
20              HABERCILER.add(haberci);
21              return haberci;
22          }
23      }
24
25      @RequestMapping("/haberci/listele")
26      public synchronized List<Haberci> haberciListele(){
27          synchronized (kilit) {
28              if (HABERCILER.size()>10) {
29                  return HABERCILER.subList(0, 10);
30              } else {
31                  return HABERCILER;
32              }
33          }
34      }
35
36
37      @RequestMapping("/haberci/temizle")
38      public String haberciTemizle(){
39          synchronized (kilit) {
40              HABERCILER.clear();
41              return "OK";
42          }
43      }
```



```java
1   package projeproje.yazilimproje;
2
3   import java.io.IOException;
6
7   public class WebServisTest {
8
9       public static void main(String[] args) {
10          OkHttpClient client = new OkHttpClient();
11
12          Request request = new Request.Builder()
13            .url("http://localhost:7777/haberci/olustur?haber=TrafikKazası")
14            .get()
15            .addHeader("cache-control", "no-cache")
16            .addHeader("postman-token", "cf587d5f-e520-fcc7-027c-ea6f1187d851")
17            .build();
18
19          try {
20              Response response = client.newCall(request).execute();
21              System.out.println(response.body().string());
22          } catch (IOException e) {
23              System.out.println("Hata: " + e);
24          }
25      }
26  }
```
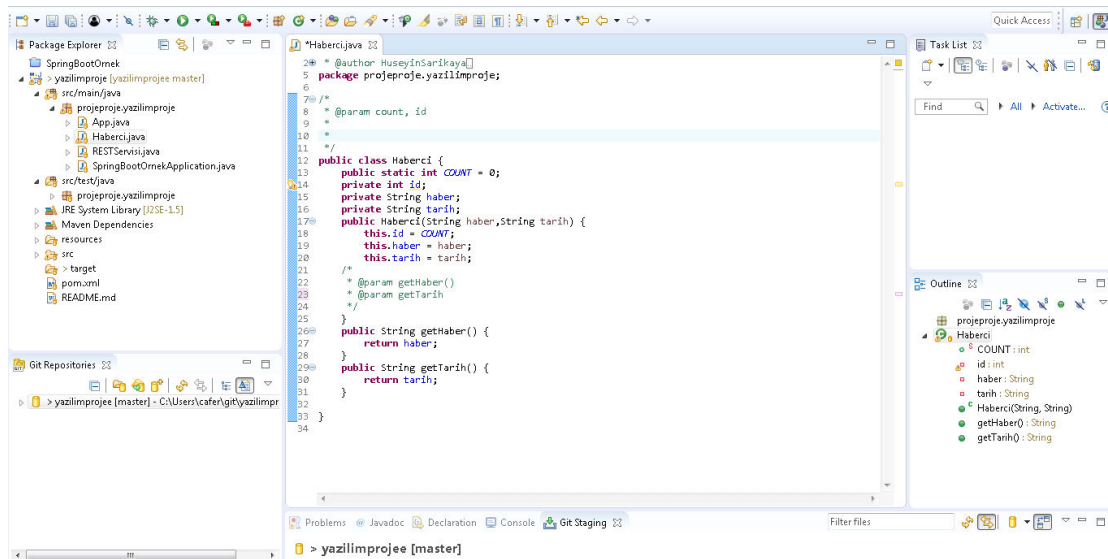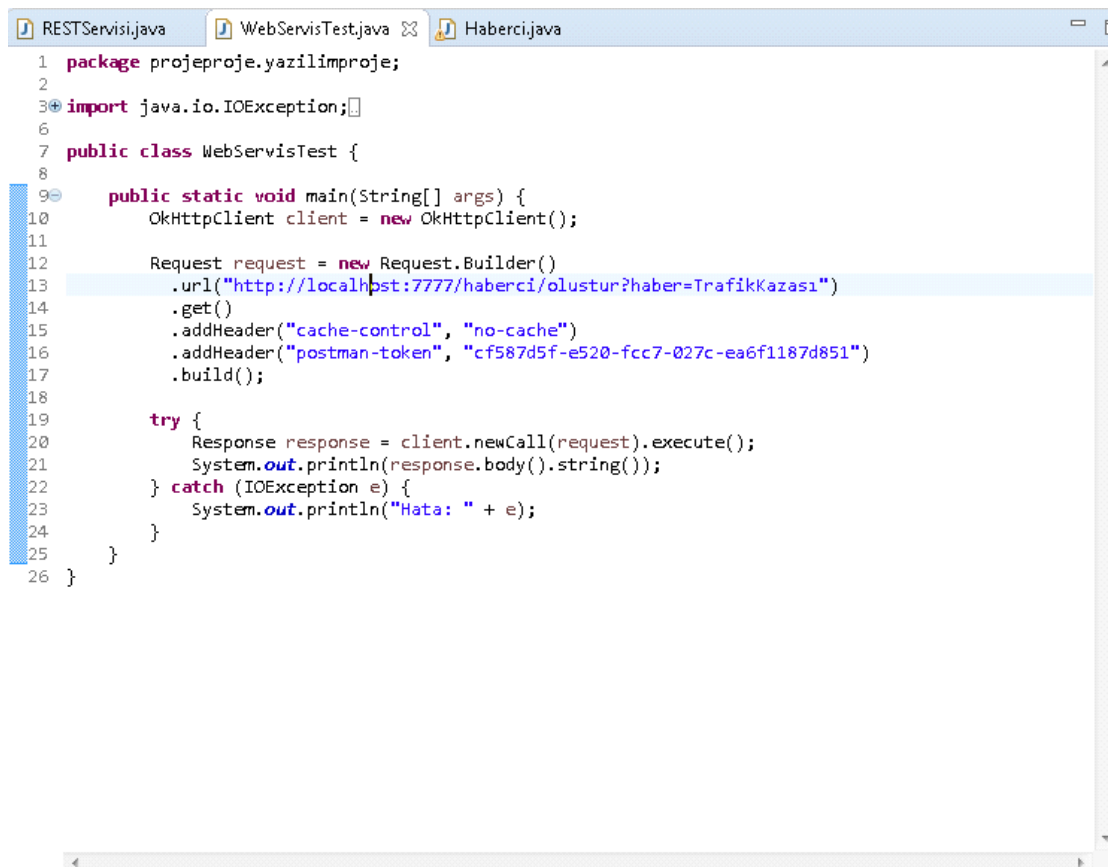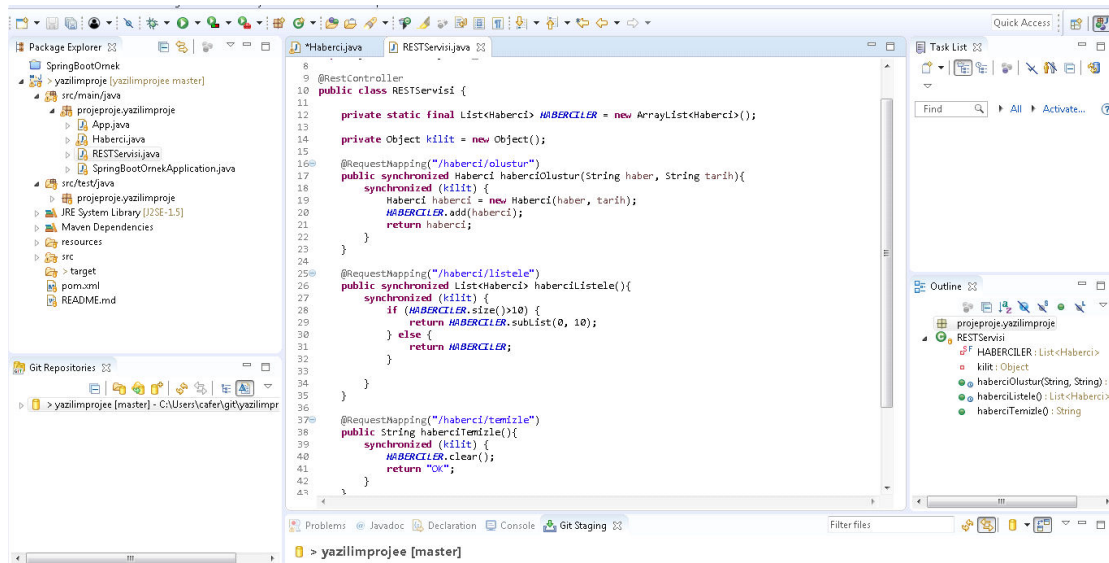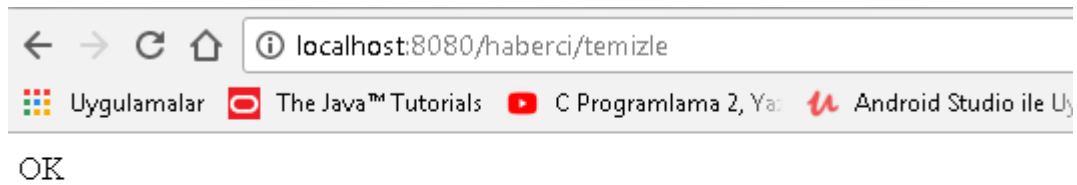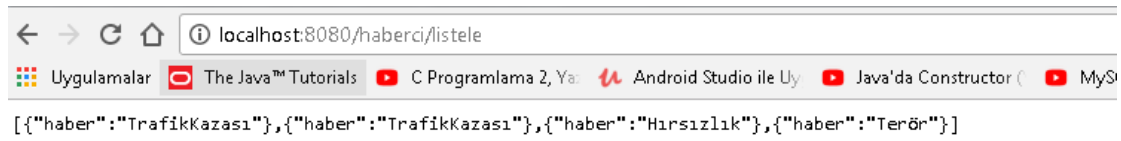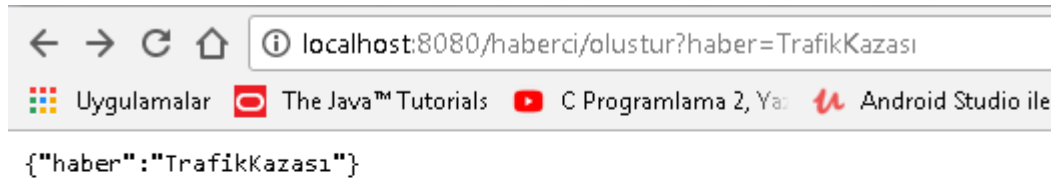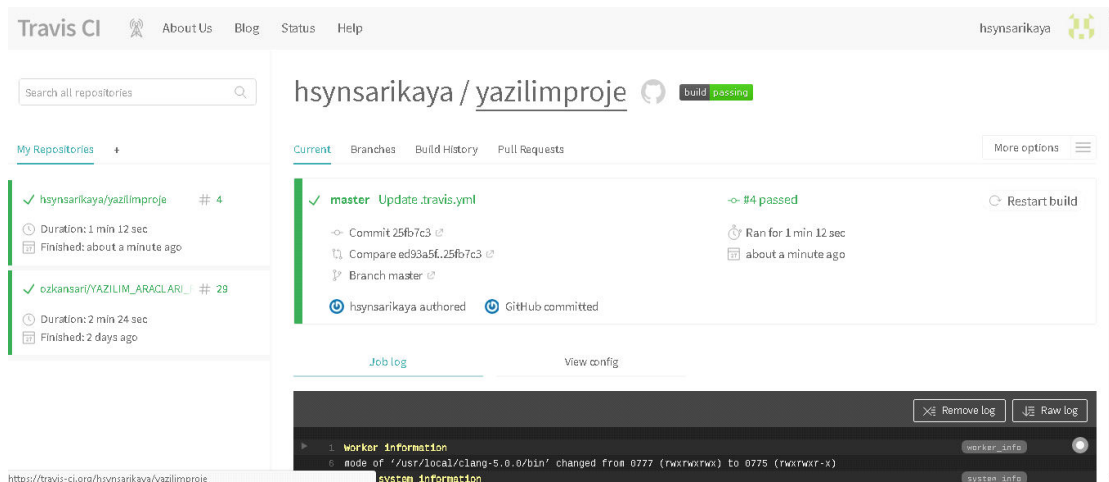
```
RESTServisi.java    WebServisTest.java    Haberci.java    SpringBootOrnekApplication.java ⊠

 1  package projeproje.yazilimproje;
 2
 3
 4⊕ import org.springframework.boot.SpringApplication;
 6
 7  @SpringBootApplication
 8  public class SpringBootOrnekApplication {
 9
10⊖     public static void main(String[] args) {
11          SpringApplication.run(SpringBootOrnekApplication.class, args);
12      }
13  }
```

-Proje bir springboot projesi çalıştığında bu sonuçları verdi.

← → C ⌂   ⓘ localhost:8080/haberci/olustur?haber=Hırsızlık

▦ Uygulamalar   ⬤ The Java™ Tutorials   ▶ C Programlama 2, Ya   𝒰 Android Stu

{"haber":"Hırsızlık"}

{"haber":"TrafikKazası"}

[{"haber":"TrafikKazası"},{"haber":"TrafikKazası"},{"haber":"Hırsızlık"},{"haber":"Terör"}]


OK

**Kodlar Travis ci 'a entegre edilip otomatik derlendi.**

```
4161  [INFO] Cobertura 2.1.1 - GNU GPL License (NO WARRANTY) - See COPYRIGHT file
4162  [INFO] Cobertura: Loaded information on 4 classes.
4163  Report time: 219ms
4164
4165  [ERROR] Picked up _JAVA_OPTIONS: -Xmx2048m -Xms512m
4166
4167  [INFO] Cobertura Report generation was successful.
4168  [INFO] ------------------------------------------------------------
4169  [INFO] BUILD SUCCESS
4170  [INFO] ------------------------------------------------------------
4171  [INFO] Total time: 18.215 s
4172  [INFO] Finished at: 2018-01-29T17:00:31Z
4173  [INFO] Final Memory: 37M/744M
4174  [INFO] ------------------------------------------------------------
4175
4176
4177  The command "mvn cobertura:cobertura" exited with 0.
4178  $ bash <(curl -s https://codecov.io/bash) -t uuid-repo-token        after_success    0.15s
4199
4200  Done. Your build exited with 0.
                                                                                 Top ▲
```
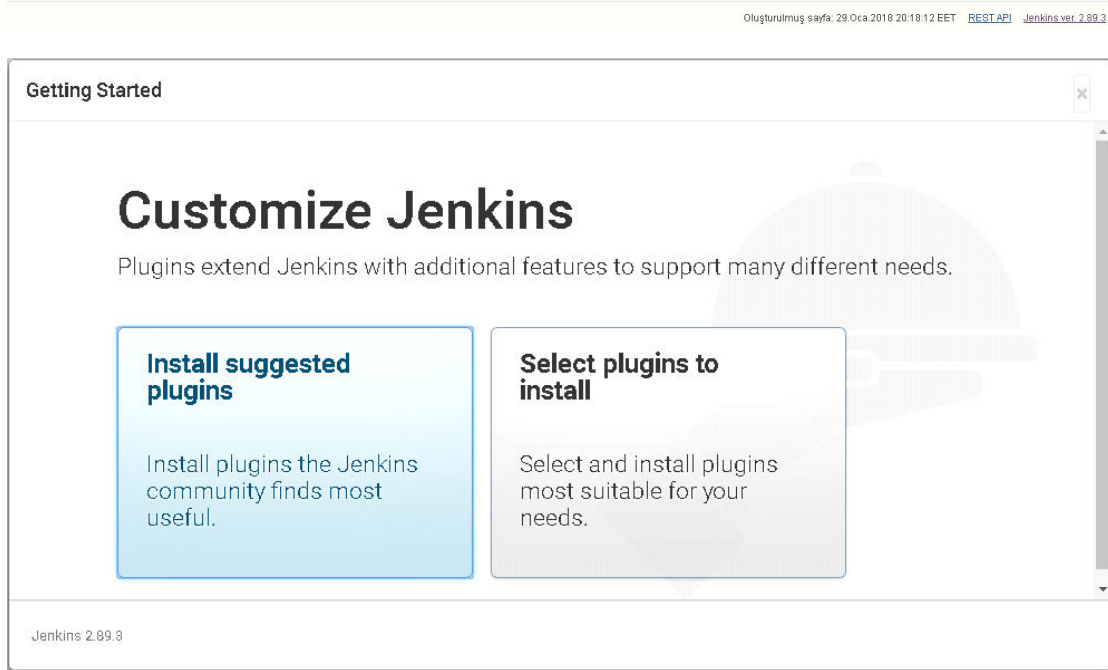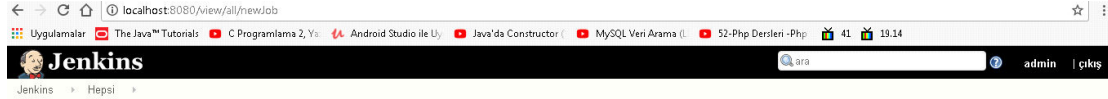
-Uml diyagramları
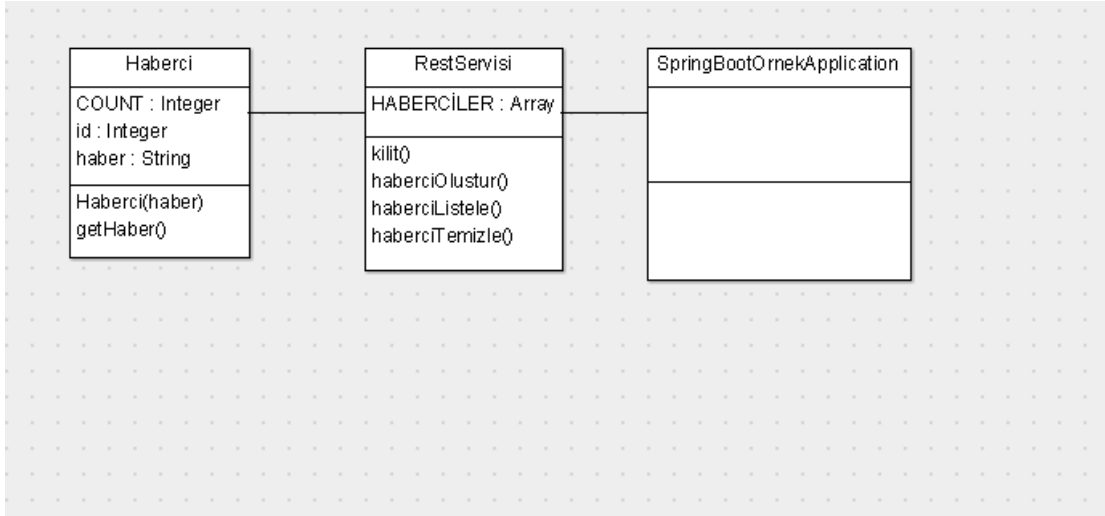
-Kodlar Postman ile test edildi
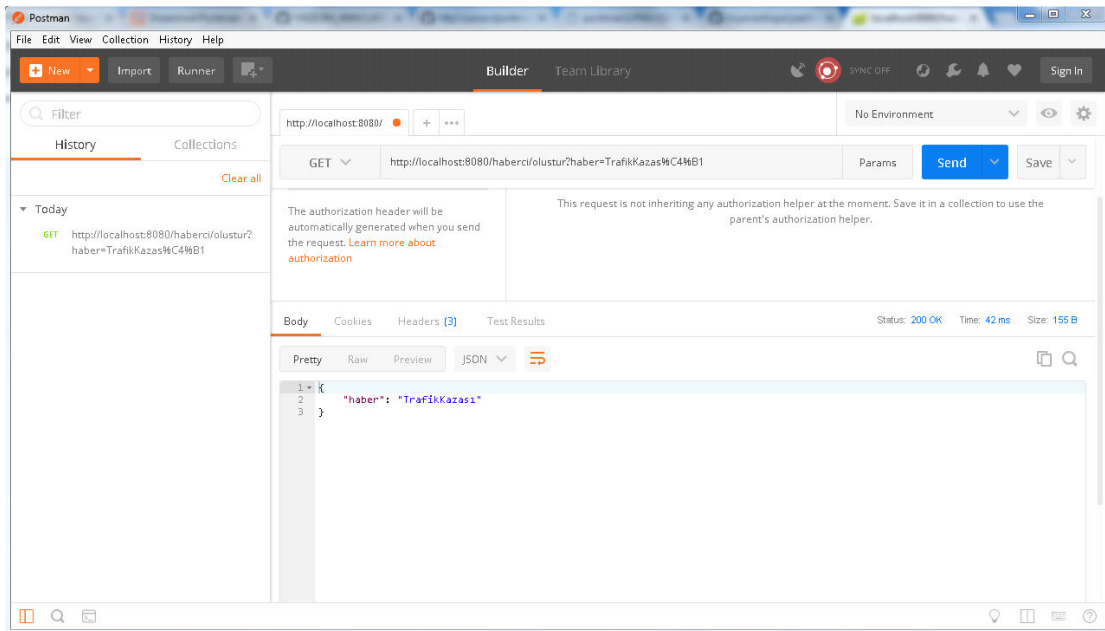
-Jenkins kurulumu yapıldı ve proje jenkins e entegre edildi.

Getting Started

✔ Folders Plug	Plugin		** Command Agent Launcher Plugin
○ Timestamper	○ Workspace Cleanup Plugin	○ Ant Plugin	○ Gradle Plugin
○ Pipeline	○ GitHub Branch Source Plugin	○ Pipeline: GitHub Groovy Libraries	○ Pipeline: Stage View Plugin
○ Git plugin	○ Subversion Plug-in	○ SSH Slaves plugin	○ Matrix Authorization Strategy Plugin
○ PAM Authentication plugin	○ LDAP Plugin	○ Email Extension Plugin	○ Mailer Plugin

```
                                                    Plugin
                                              ** Command Agent Launcher Plugin
                                              Folders Plugin


                                              ** - required dependency
```

Jenkins 2.89.3

Git

Git installations

⬚ **Git**

Name   [Default]

Path to Git executable   [git.exe]   ❓

☐ Install automatically   ❓

                                                        [**Delete Git**]

⬚ **JGit**   ❓

                                                        [**Delete Git**]

⬚ **JGit with Apache HTTP client**   ❓

                                                        [**Delete Git**]

              [**Add Git** ▾]

Gradle

Kaynak Kodu Yönetimi

- ◯ Hiðbirisi
- ⦿ Git

Repositories

Repository URL   https://github.com/hsynsarikaya/yazilimproje.git

Credentials   - none - ▾   ⊶ Add

Gelişmiş...

Add Repository

Branches to build   [X]

Branch Specifier (blank for 'any')   */master

Add Branch

Git executable   jgitapache ▾

Repository tarayıcısı   (Otomatik) ▾

Kaydet   Apply   Add ▾

Yapılandırma

En üst seviye Maven hedeflerini çalıştır   [X]

Maven Versiyonu   Maven 3.5.2 ▾

Hedefler   install ▾

POM   pom.xml

Properties

JVM Options   ▾

Inject build variables ☐

Use private Maven repository ☐

Settings file   Use default maven settings ▾

Kaydet   Apply   Use default maven global settings ▾

🔴 **Konsol Çıktısı**

Started by user hüseyin sarikaya
Building in workspace C:\Program Files (x86)\Jenkins\workspace\maven proje
Fetching changes from the remote Git repository
Checking out Revision 7a487cd153ebe8097d1c32d402e764d488f98345 (refs/remotes/origin/master)
Commit message: "Update pom.xml"
[maven proje] $ cmd.exe /C '"""C:\Program Files (x86)\Jenkins\tools\hudson.tasks.Maven_MavenInstallation\Maven_3.5.2\bin\mvn.cmd"' -f
yazilimproje/pom.xml install sonar:sonar && exit %%ERRORLEVEL%%"
POM file yazilimproje/pom.xml specified the -f/--file command-line argument does not exist
Build step 'En üst seviye Maven hedeflerini çalıştır' marked build as failure
Finished: FAILURE

-Javadoc raporu oluşturuldu.
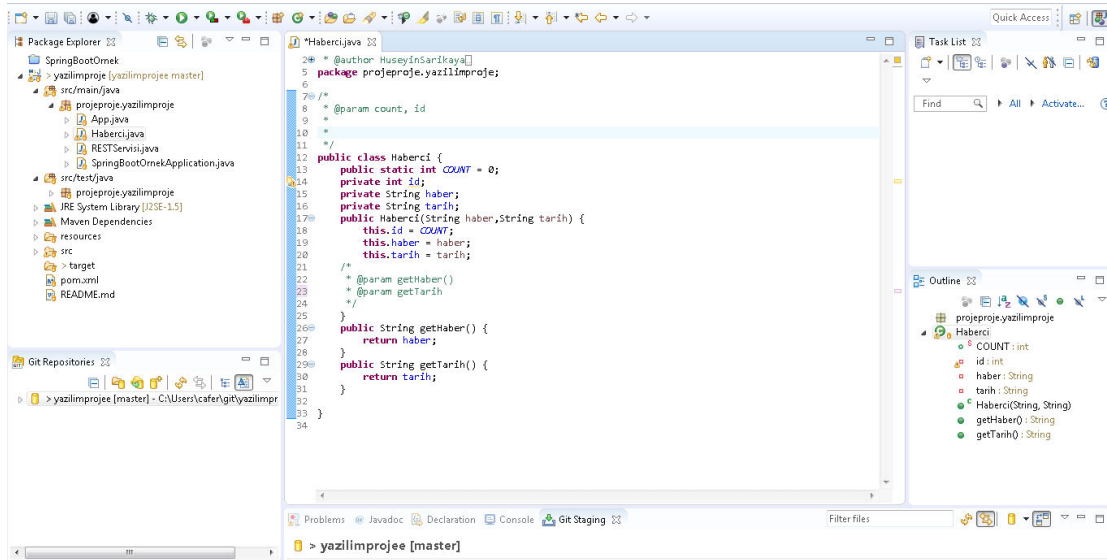
-Jmeter entegresi yapıldı

-SonarQube kurulumu yapıldı

sonarqube Projects Issues Rules Quality Profiles Quality Gates

🔍 Search for projects, sub-projects and files...   ❓ Log in

■ Yönetici: C:\Windows\system32\cmd.exe - java -jar jenkins.war --httpPort=8888

```
INFO: Bean factory for application context [org.springframework.web.context.supp
ort.StaticWebApplicationContext@7d7763d2]: org.springframework.beans.factory.sup
port.DefaultListableBeanFactory@34db8ec7
Tub 01, 2018 6:15:19 PM org.springframework.beans.factory.support.DefaultListabl
eBeanFactory preInstantiateSingletons
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.
DefaultListableBeanFactory@34db8ec7: defining beans [filter,legacy]; root of fac
tory hierarchy
Tub 01, 2018 6:15:19 PM jenkins.InitReactorRunner$1 onAttained
INFO: Completed initialization
Tub 01, 2018 6:15:19 PM hudson.WebAppMain$3 run
INFO: Jenkins is fully up and running
Tub 01, 2018 6:15:35 PM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Tub 01, 2018 6:15:37 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Tub 01, 2018 6:15:37 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Ant.AntInstaller
Tub 01, 2018 6:15:38 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.plugins.gradle.GradleInstaller
Tub 01, 2018 6:15:39 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tools.JDKInstaller
Tub 01, 2018 6:15:40 PM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 28.146 ms
```

Continuou

Log in   Re

0   0 🐛 Bugs
                     0 🔒 Vulnerabilities
Projects Analyzed   0 ⊗ Code Smells

Multi-Languag

20+ programming languages are supported by SonarQube thanks to our in-house code analyzers, including:

| Java | C/C++ | C# | COBOL | ABAP | HTML | RPG | JavaScript | TypeScript | Objective C | XML |
| VB.NET | PL/SQL | T-SQL | Flex | Python | Groovy | PHP | Swift | Visual Basic | PL/I | |

Quality Model

🐛 **Bugs** track code that is demonstrably wrong or highly likely to yield unexpected behavior.

🔒 **Vulnerabilities** are raised on code that is potentially vulnerable to exploitation by hackers.

⊗ **Code Smells** will confuse maintainers or give them pause. They are measured primarily in terms of the time they will take to fix.