

# **YAZILIM GELİŞTİRME ORTAM VE ARAÇLARI DERSİ**

## **FİNAL PROJESİ**

Eymen Polat EKŞİ

H5160067

<https://github.com/eymenpolateksi/HaberRepo>

# MAVEN PROJESİ OLUŞTURMA

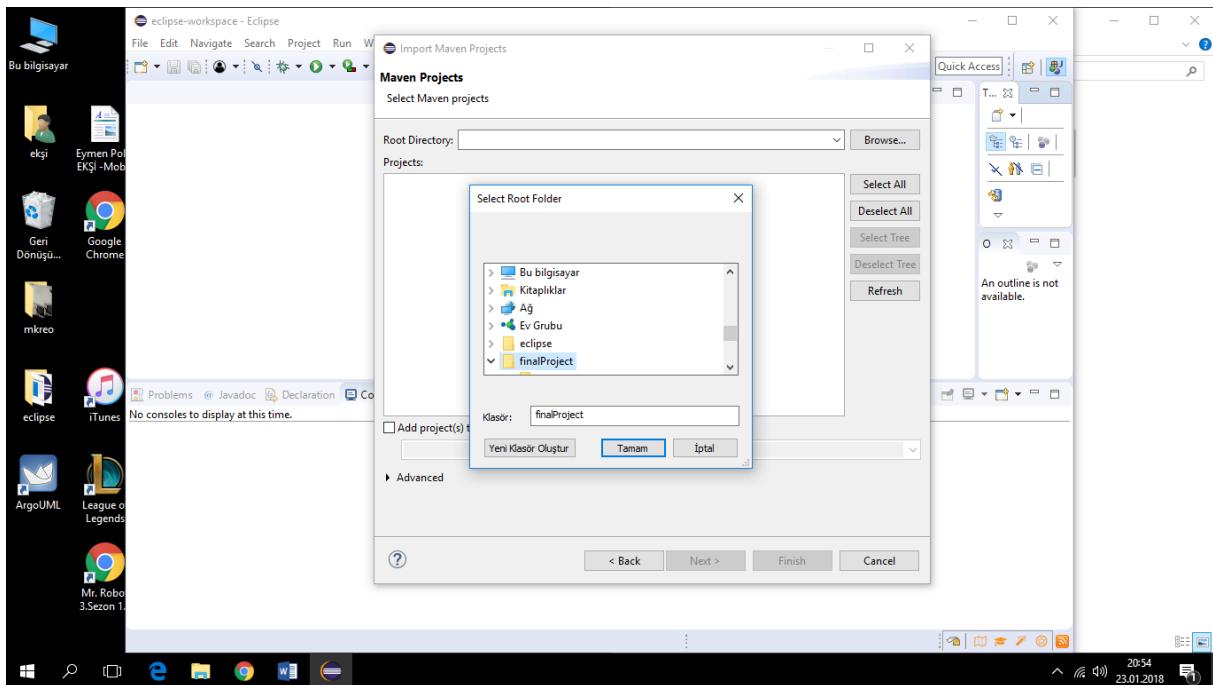
<http://start.spring.io/> adresine girilir.

The screenshot shows the Spring Initializr interface. At the top, it says "Generate a Maven Project with Java and Spring Boot 1.5.9". Below this, there are two main sections: "Project Metadata" and "Dependencies". In "Project Metadata", the "Group" field is set to "eyemeneksi" and the "Artifact" field is set to "finalProject". In "Dependencies", a red circle highlights the "Selected Dependencies" section, which contains a single item: "Web". A green button at the bottom right says "Generate Project alt + ⌘". Below the interface, a status bar indicates "start.spring.io is powered by Spring Initializr and Pivotal Web Services".

İsimlendirmeleri kendi isteğiime göre yapılır.  
Web projesi olacağı için dependency olarak  
Web seçilir. Ardından proje oluşturulur.

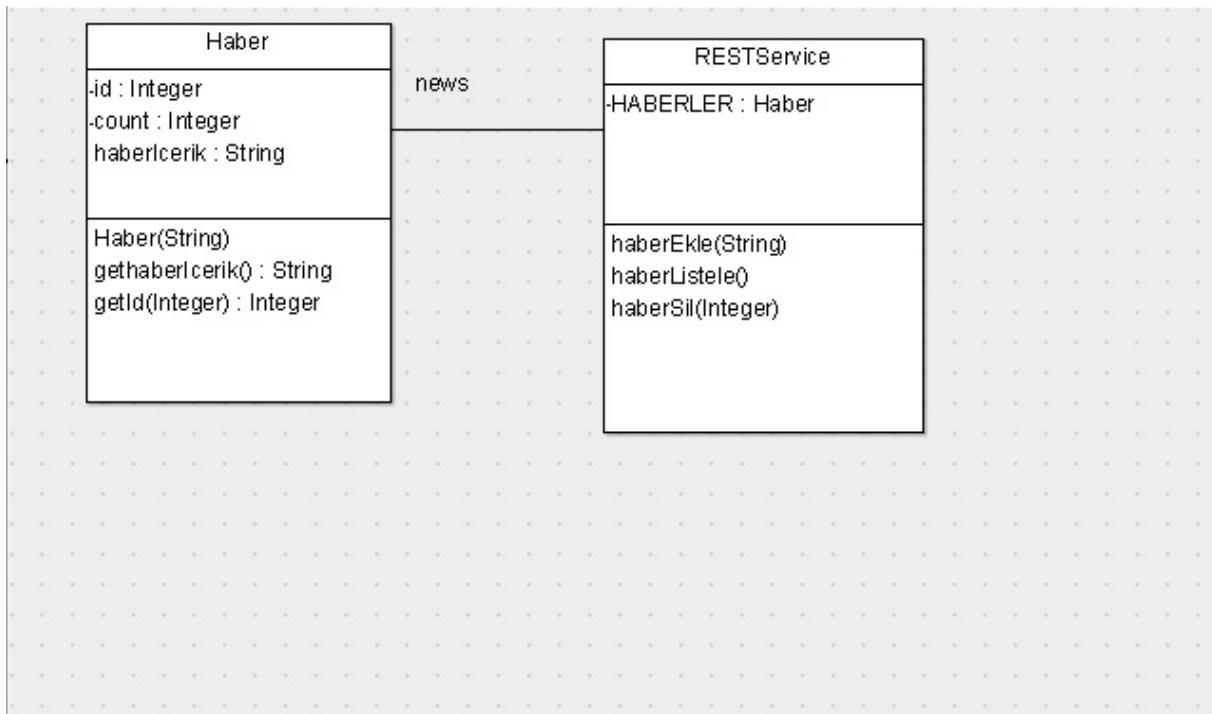
Eclipse'de File/Import/Maven/Existing Maven Projects

Yolu takip edilerek oluşturduğumuz proje içe aktarılır



Projenin bulunduğu dizin seçilerek proje açılır.

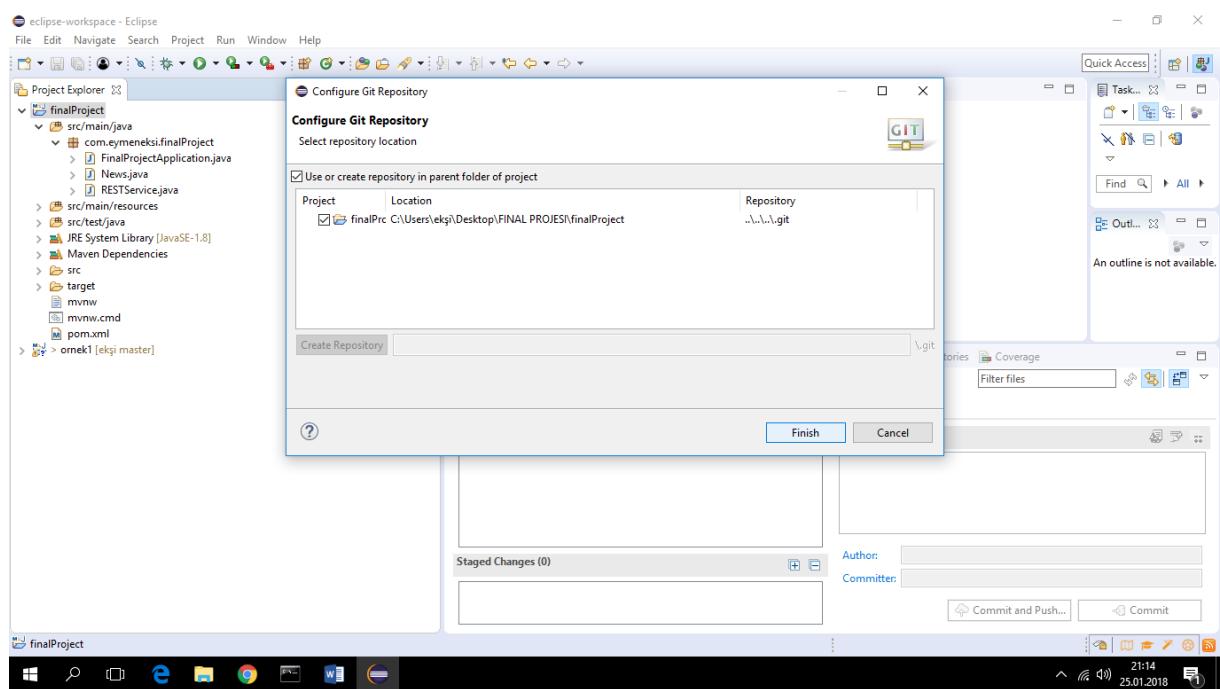
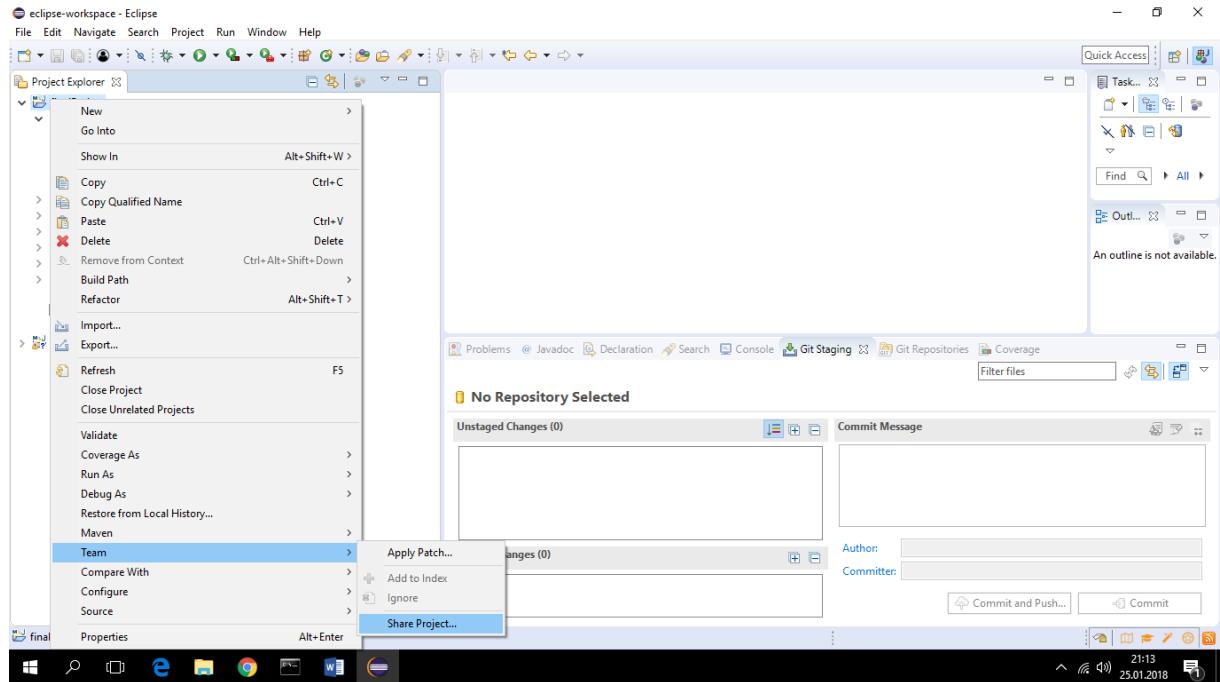
# UML DİYAGRAMLARI



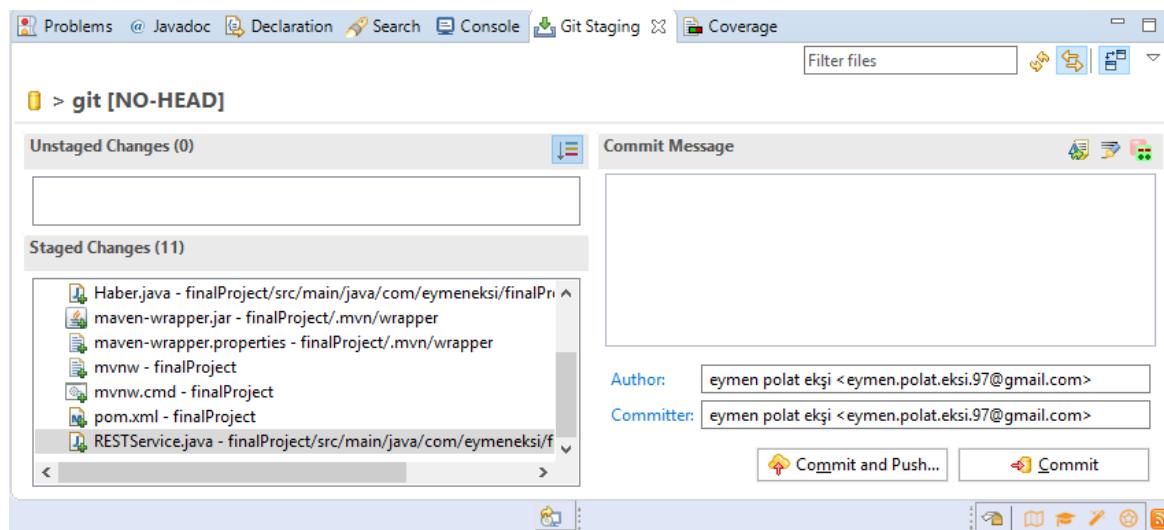
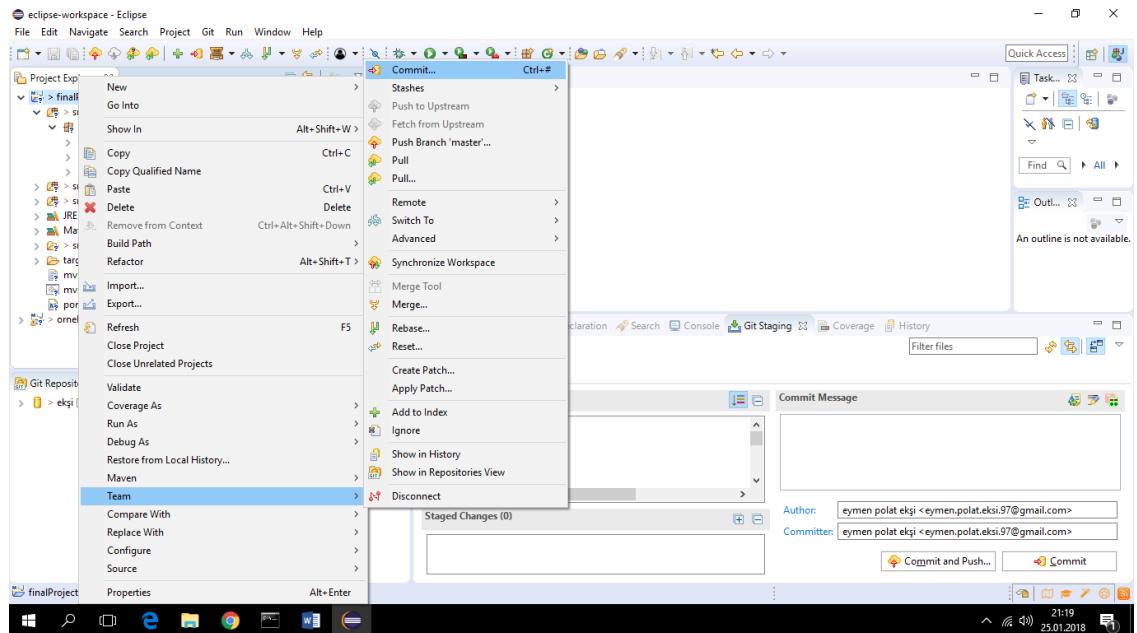
Hazırladığım diyagramda da görüldüğü gibi, “Haber” isimli sınıfta bir haberin temel özellikleri tutuluyor. “RESTService” sınıfından haber ekleme fonksiyonu çağrııldığı zaman “HABERLER” adlı nesneye gerekli parametreler gönderilir. Aynı işlem silme için de geçerli. Listeleme olayı ise direkt olarak “HABERLER” nesnesini çağırarak gerçekleştir.

# GITHUB-PROJEYI COMMIT'LEME

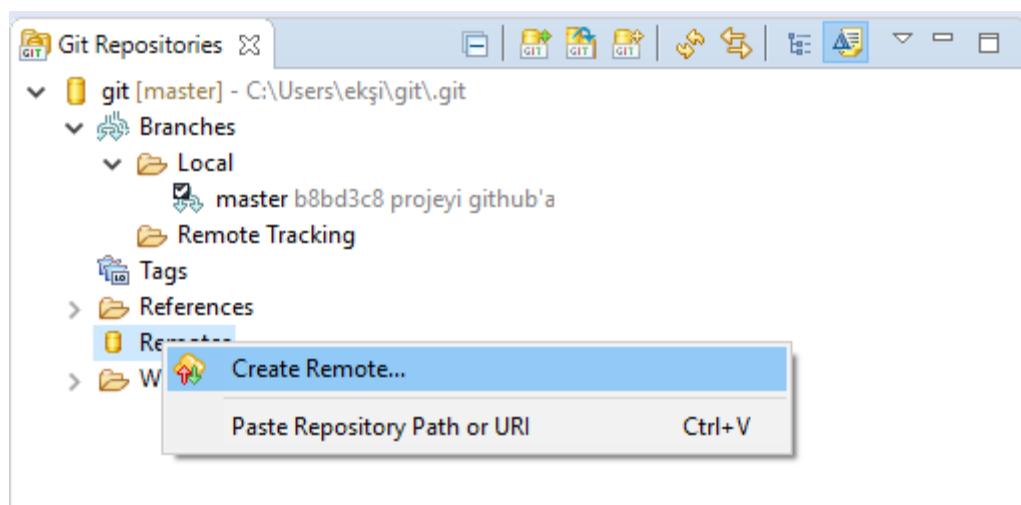
Öncelikle kendi bilgisayarımızda bir repository oluşturuyoruz.

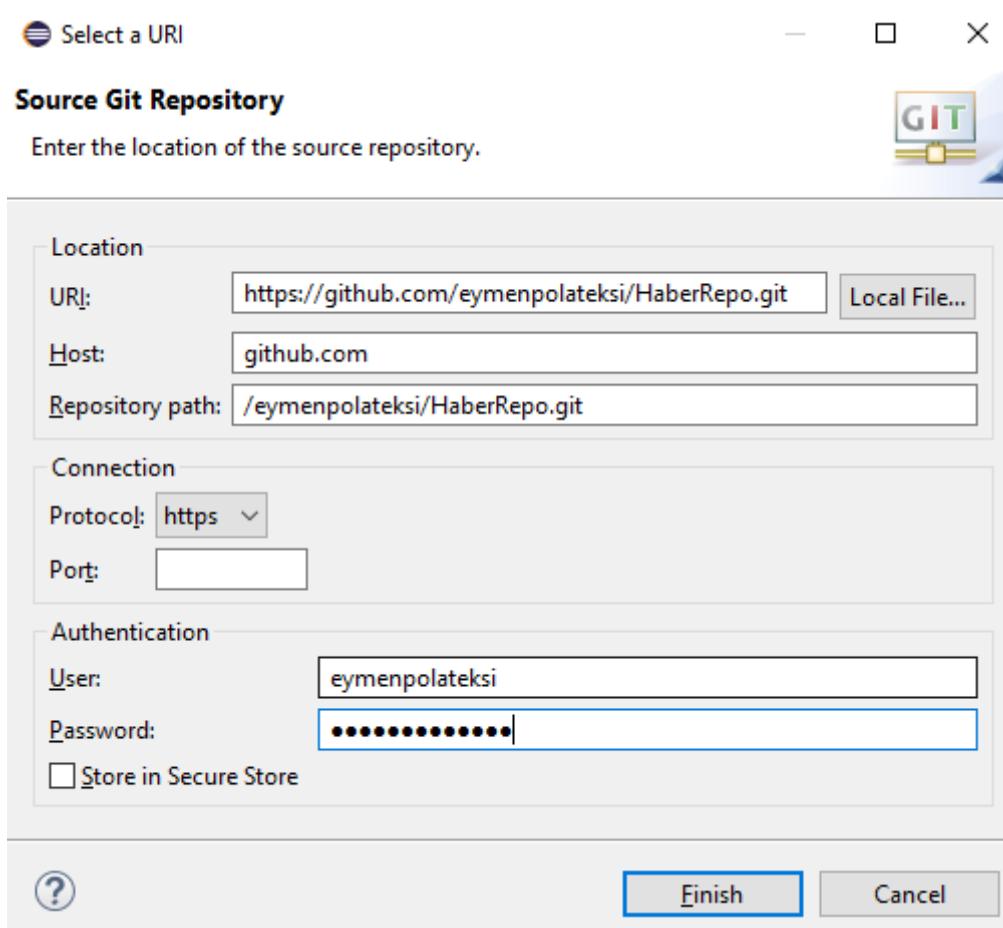
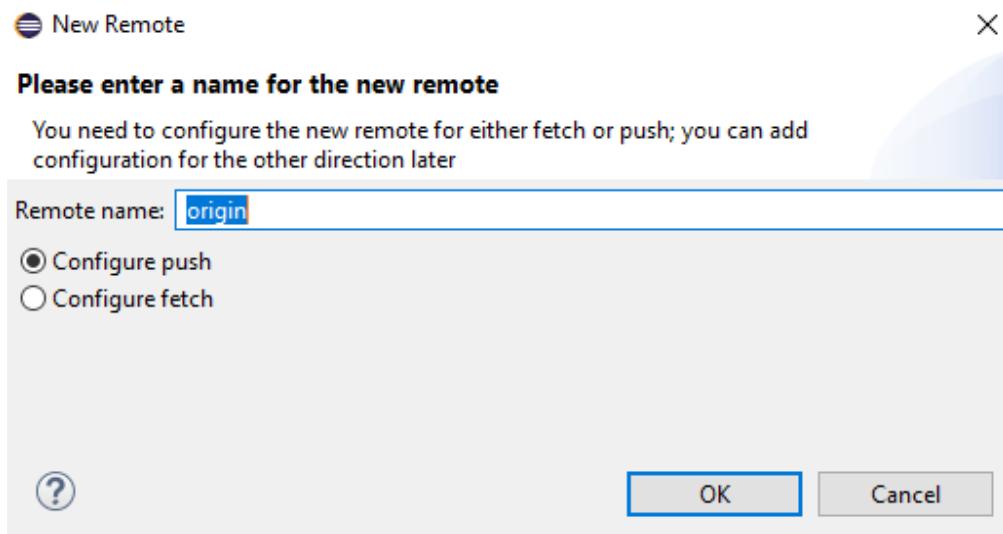


Repository oluşturulduktan sonra, şu şekilde commit'lenir :

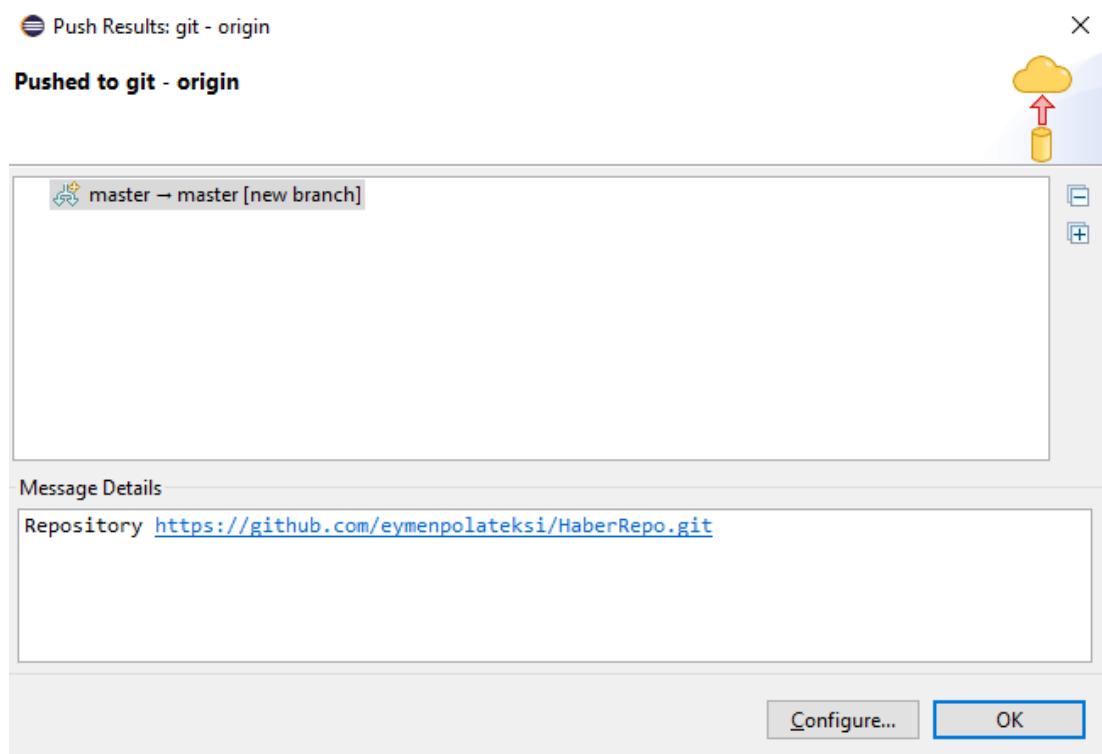
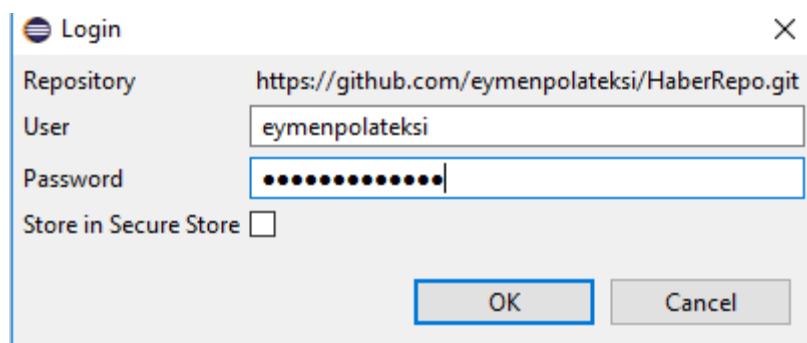
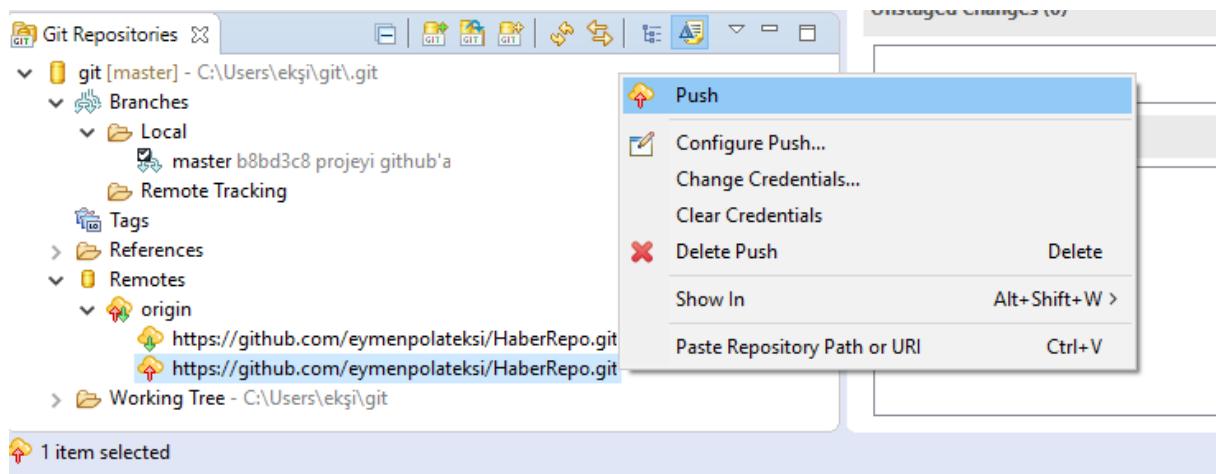


Github repository'mize aktarmak için:

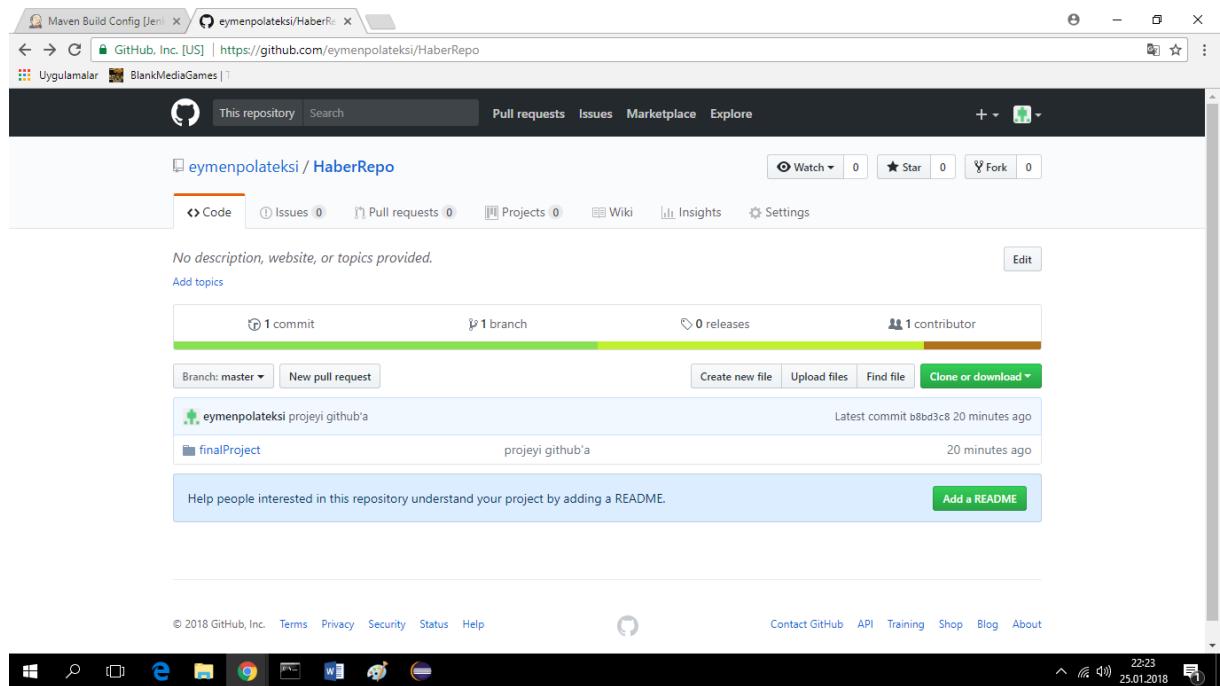




# Projemizi Github Repository'sine pushluyoruz:



# Proje başarıyla Github'a aktarıldı.



# JENKINS

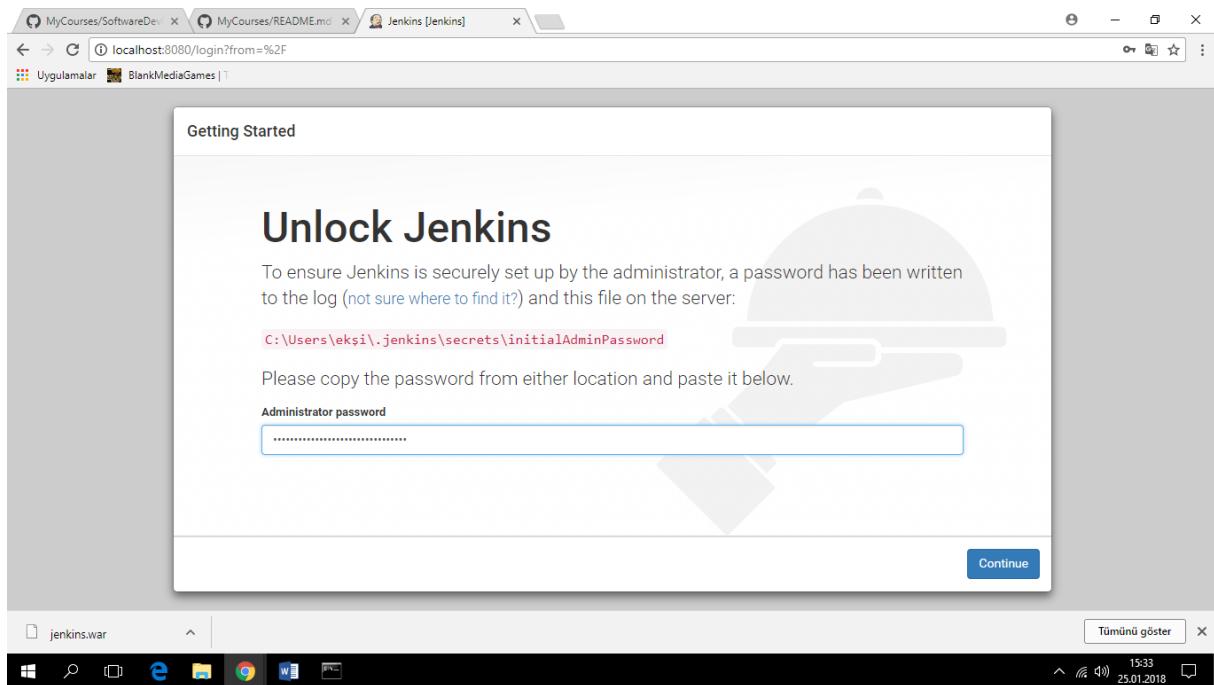
Jenkins.io adresinden indirdiğimiz war dosyasını komut ekranından şu şekilde açıyoruz:

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. Tüm hakları saklıdır.

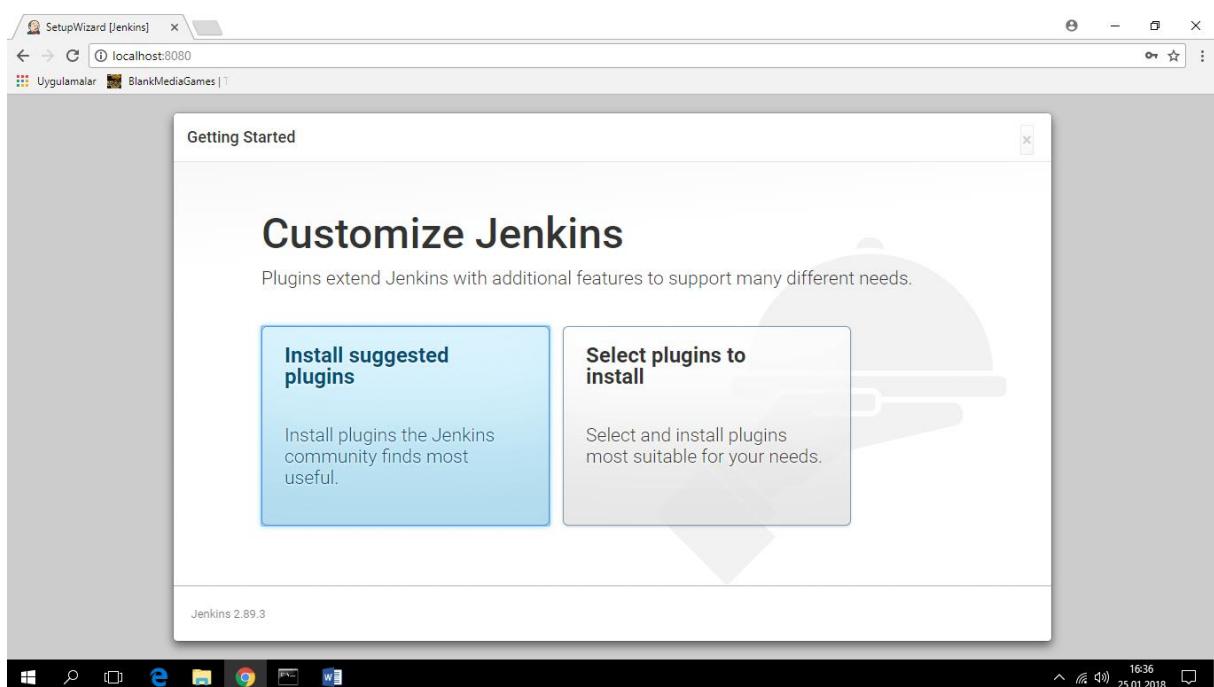
C:\Users\ekşi>cd Desktop
C:\Users\ekşi\Desktop>cd uml
C:\Users\ekşi\Desktop\uml>"C:\Program Files\Java\jdk1.8.0_151\jre\bin\java" -jar jenkins.war --httpPort=8080
```

Jenkins kullanıma hazır, verilen şifreyi kopyalıyoruz.

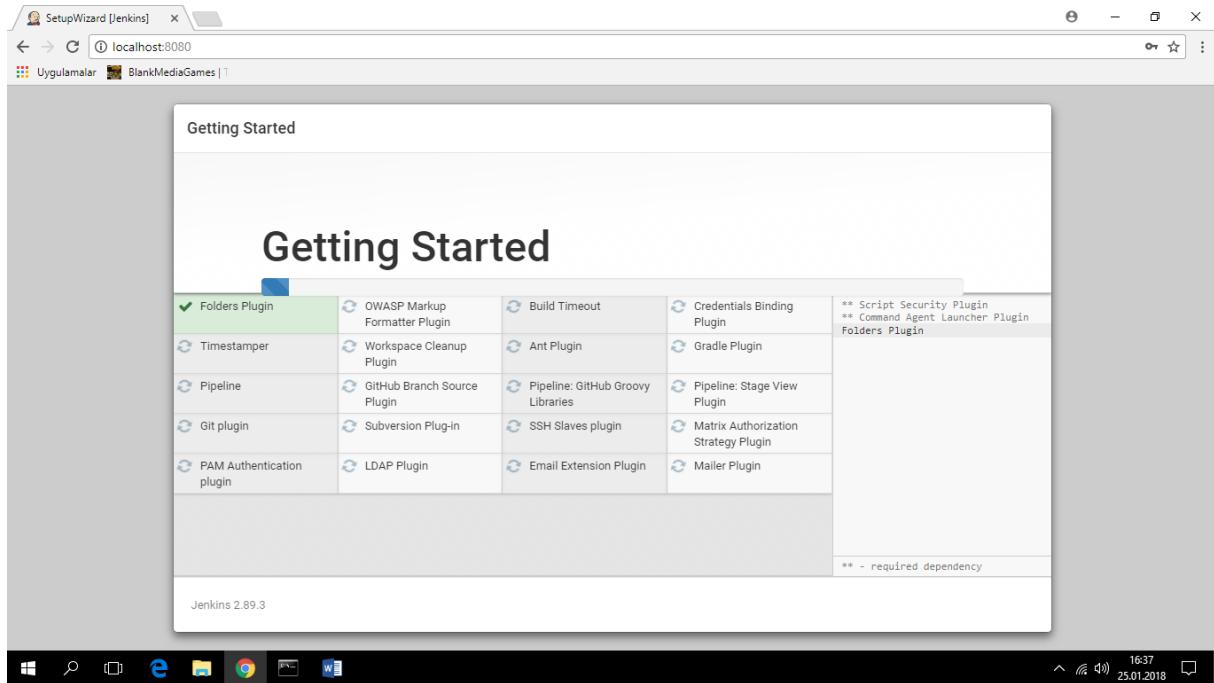
```
Komut İstemci - "C:\Program Files\Java\jdk1.8.0_151\jre\bin\java" -jar jenkins.war --httpPort=8080
DefaultListableBeanFactory@5d3a6284
Oca 25, 2018 3:30:32 PM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@5d3a6284: defining beans [authenticationManager]; root of factory hierarchy
Oca 25, 2018 3:30:33 PM org.springframework.context.support.AbstractApplicationContext prepareRefresh
INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@1155a857: display name [Root WebApplicationContext]; startup date [Thu Jan 25 15:30:33 EET 2018]; root of context hierarchy
Oca 25, 2018 3:30:33 PM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory
INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@1155a857]: org.springframework.beans.factory.support.DefaultListableBeanFactory@423bb5d4
Oca 25, 2018 3:30:33 PM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@423bb5d4: defining beans [filter,legacy]; root of factory hierarchy
Oca 25, 2018 3:30:33 PM jenkins.install.SetupWizard init
INFO:
*****
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:
da68a19cdaa542bfbd879c8ae093b23
This may also be found at: C:\Users\ekşi\.jenkins\secrets\initialAdminPassword
*****
Oca 25, 2018 3:30:37 PM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Oca 25, 2018 3:30:38 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Oca 25, 2018 3:30:39 PM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Oca 25, 2018 3:30:39 PM hudson.WebAppMain$3 run
INFO: Jenkins is fully up and running
Oca 25, 2018 3:30:39 PM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tools.JDKInstaller
Oca 25, 2018 3:30:39 PM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 8.303 ms
```



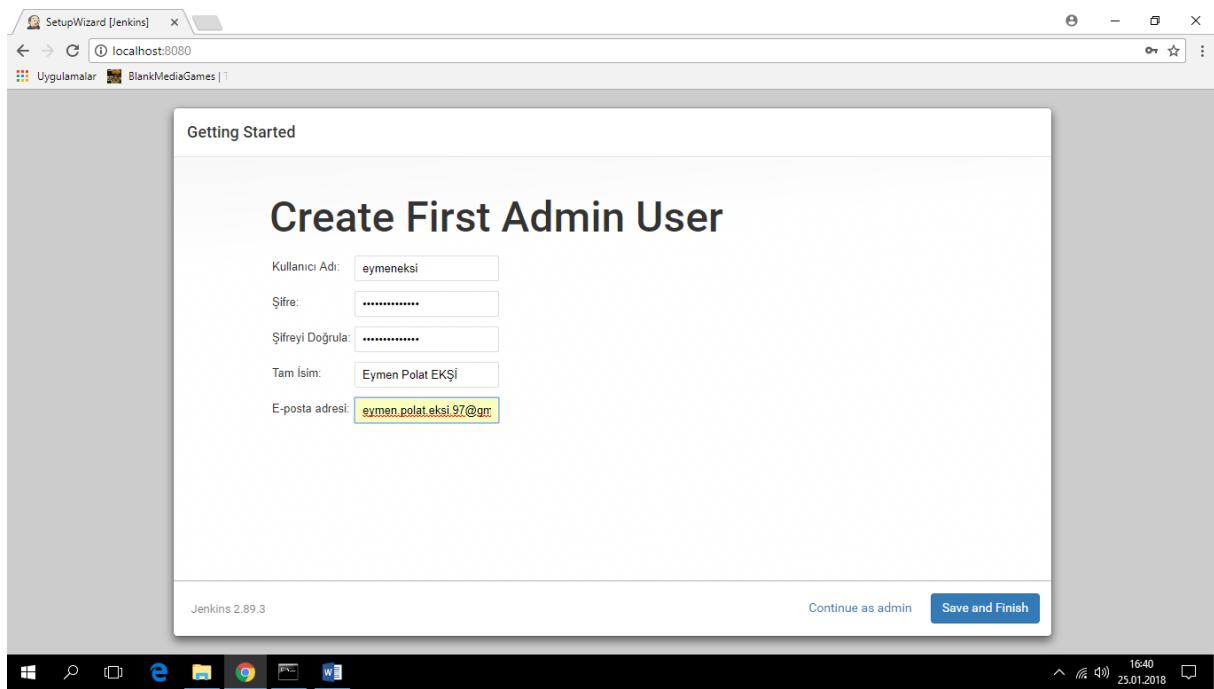
Önerilen pluginleri seçiyoruz.



## Plugin'lerin yüklenmesi:

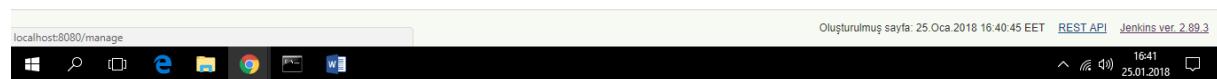


## Kullanıcı oluşturulur:



## Jenkins kullanıma hazır. Ayarlamalar için Jenkins'i Yönet:

The screenshot shows the Jenkins home page. The title bar says "Kontrol Merkezi [Jenkins]". The address bar shows "localhost:8080". The main content area has a banner saying "Jenkins'a Hoşgeldiniz!" and a button "Lütfen başlamanız için yeni işler oluşturun". On the left, there's a sidebar with links like "Yeni Item", "Kişiler", "Yapilandırma Geçimi", "Jenkins'i Yönet", "My Views", "Credentials", and "New View". Below the sidebar are two sections: "Yapilandırma Listesi" (empty) and "Yapilandırıcı Durumu" (showing 1 Beklemede and 2 Beklemede).



## Global Tool Configuration'dan JDK, Maven ve Git ayarları yapılır :

The screenshot shows the Jenkins Manage page under "Jenkins'i Yönet". The "Global Tool Configuration" section is expanded, showing several configuration items: "Sistem Konfigürasyonunu Değiştir" (Change System Configuration), "Configure Global Security" (Secure Jenkins, define who is allowed to access/use the system), "Configure Credentials" (Configure the credential providers and types), "Global Tool Configuration" (Configure tools, their locations and automatic installers), "Konfigürasyonu Disk'ten Yükle" (Load Configuration from Disk), "Eklentileri Yönet" (Manage Plugins), "Sistem Bilgi" (System Information), "System Log" (System log), and "Load Statistics" (Check your resource utilization and see if you need more computers for your builds). The address bar at the bottom shows "localhost:8080/configureTools".

Global Tool Configuration

localhost:8080/configureTools/

Uygulamalar BlankMediaGames | T Jenkins > Global Tool Configuration

Maven Configuration

Default settings provider: Use default maven settings

Default global settings provider: Use default maven global settings

JDK

JDK installations:

- isim: Java 8  
JAVA\_HOME: C:\Program Files\Java\jdk1.8.0\_151

Install automatically

[Delete JDK](#)

[Add JDK](#)

Git

Git installations:

- Name: Default

[Save](#) [Apply](#)

16:44 25.01.2018

Global Tool Configuration

localhost:8080/configureTools/

Uygulamalar BlankMediaGames | T Jenkins > Global Tool Configuration

Git

Git installations:

- Name: Default

Install automatically

[Add Installer](#)

[Delete Git](#)

JGit

[Delete Git](#)

JGit with Apache HTTP client

[Delete Git](#)

Gradle

[Save](#) [Apply](#)

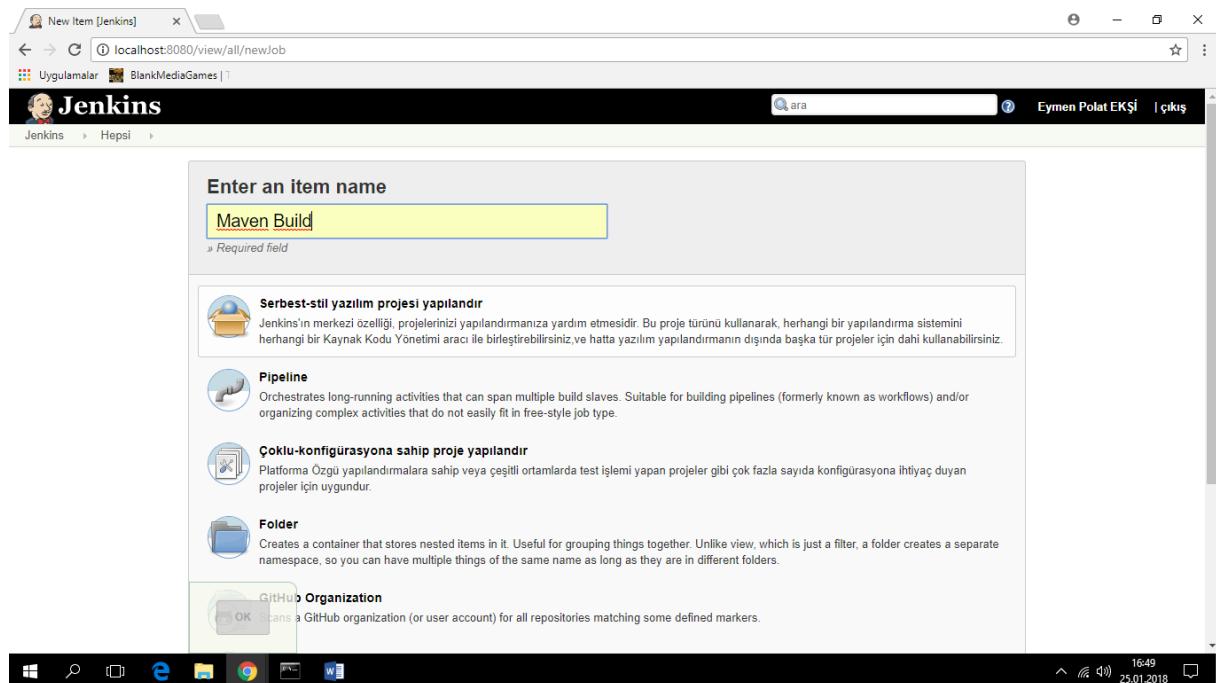
16:44 25.01.2018

The screenshot shows the Jenkins Global Tool Configuration interface. Under the Maven section, a new Maven installation named "Maven 3.5.2" is being added. The "Install automatically" checkbox is checked. Buttons for "Delete Installer" and "Delete Maven" are visible. At the bottom are "Save" and "Apply" buttons.

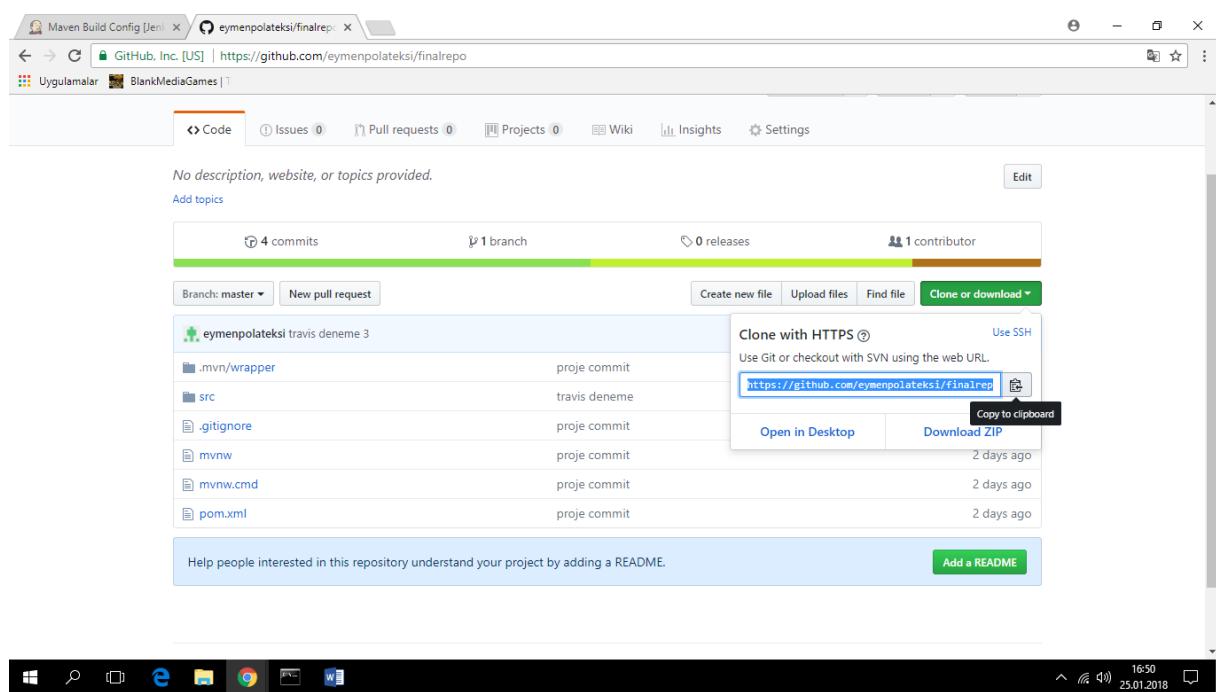
Ardından kaydedilir. Şimdi, projeyi derlemek için:

The screenshot shows the Jenkins Control Center. On the left, there's a sidebar with links like "Yeni Item", "Kişiler", "Yapıllandırma Geçmiş", "Jenkins'i Yönet", "My Views", "Credentials", and "New View". The main area displays a message "Jenkins Hoşgeldiniz!" and a button "Lütfen başlamar için yeni işler oluşturun". Below this are sections for "Yapıllandırma Listesi" and "Yapılandırıcı Durumu". At the bottom, a link "localhost:8080/view/all/newjob" is shown, along with footer information: "Oluşturulmuş sayfa: 25 Oca 2018 16:48:46 EET REST API Jenkins ver. 2.89.3".

İstediğimiz isim verilir ve serbest proje seçilir.



Github repository linki kopyalanır.



Maven Build Config [Jen] eymenpolatelsi/HaberRe... localhost:8080/job/Maven%20Build/configure Uygulamalar BlankMediaGames Jenkins > Maven Build >

**Kaynak Kodu Yönetimi**

**Git**

**Repositories**

Repository URL: <https://github.com/eymenpolatelsi/HaberRepo.git>  
Failed to connect to repository : Error performing command: ls-remote -h https://github.com/eymenpolatelsi/HaberRepo.git HEAD

Credentials: - none - Add

**Branches to build**

Branch Specifier (blank for 'any'): \*/master  
Add Branch

**Git executable**: jgitapache

**Repository tarayıcısı**: (Otomatik)

**Additional Behaviours**: Add

**Subversion**

**Kaydet** **Apply**

Yapilandırma-Tetikleyiciler

22:33 25.01.2018

Maven Build Config [Jen] eymenpolatelsi/HaberRe... localhost:8080/job/Maven%20Build/configure Uygulamalar BlankMediaGames Jenkins > Maven Build >

**General** **Kaynak Kodu Yönetimi** **Yapilandırma-Tetikleyiciler** **Yapilandırma Ortamı** **Yapilandırma** **Yapilandırma-sonrası Aksiyonları**

Delete workspace before build starts  
 Use secret text(s) or file(s)  
 Abort the build if it's stuck  
 Add timestamps to the Console Output  
 With Ant

**Yapilandırma**

Yapilandırma adımı ekle

Ant çalıştır  
En üst seviye Maven hedeflerini çalıştır  
Invoke Gradle script  
Run with timeout  
Set build status to "pending" on GitHub commit  
Shell çalıştır  
Windows batch komutu çalıştır

**Kaydet** **Apply**

Oluşturulmuş sayfa: 25 Oca. 2018 22:30:52 EET REST API Jenkins ver. 2.89.3 22:33 25.01.2018

**HaberRepo / finalProject / pom.xml**

```
51 lines (41 sloc) | 1.4 KB
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4 <modelVersion>4.0.0</modelVersion>
5
6 <groupId>com.eyeneksic</groupId>
7 <artifactId>finalProject</artifactId>
8 <version>0.0.1-SNAPSHOT</version>
9 <packaging>jar</packaging>
10
11 <name>FinalProject</name>
12 <description>Demo project for Spring Boot</description>
13
14 <parent>
15   <groupId>org.springframework.boot</groupId>
16   <artifactId>spring-boot-starter-parent</artifactId>
17   <version>1.5.9.RELEASE</version>
```

**Yapilandırma**

En üst seviye Maven hedeflerini çalıştır

Maven Versiyonu: Maven 3.5.2

Hedefler: install

POM: finalProject/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

# Ayarlamalardan sonra, şimdi yapılandırır seçilir.

The screenshot shows the Jenkins interface for a 'Maven Build' job. On the left, there's a sidebar with links: 'Kontrol Merkezine Dön', 'Durum', 'Değişiklikler', 'Çalışma Alanı', 'Şimdi Yapılandır', 'Proje sil', and 'Konfigürasyon Düzenle'. The main area is titled 'Proje Maven Build' and contains sections for 'Çalışma Alanı' (with a folder icon) and 'Son Değişiklikler' (with a document icon). Below these are 'Yapılardırma Geçmişi' (Build History) and 'Permalinkler' (Permalink). A button 'Projeyi devre dışı bırak' (Disable project) is visible at the top right.

This screenshot shows a Windows taskbar with various icons. A Jenkins notification is visible, indicating a new build has started. The notification text reads: '#1 25.Oca.2018 22:41'. The system tray shows the date and time as 25.01.2018 22:41.

Bu şekilde build edilir.

The screenshot shows the Jenkins interface for build #1 of the 'Maven Build' job. The title is 'Yapılardırma #1 (25.Oca.2018 22:41:10)'. It displays a message 'No changes.' and a note that the build was started by 'Eymen Polat EKİŞİ'. The commit details show a revision: 'b8bd3c82da4d1c2e076d336747e8fded2a5d1bac' with a link to 'refs/remotes/origin/master'. The sidebar on the left includes links for 'Projeye geri dön', 'Durum', 'Değişiklikler', 'Console Output', 'View as plain text', 'Sürüm Bilgisini Düzenle', 'Bu yapılandırmayı sil', 'Git Build Data', and 'No Tags'.

This screenshot shows a Windows taskbar with a Jenkins notification for build #1. The notification text reads: 'Bitti 25.Oca.2018 22:44'. The system tray shows the date and time as 25.01.2018 22:44.

Maven Build #1 Console × HaberRepo/pom.xml at ↗

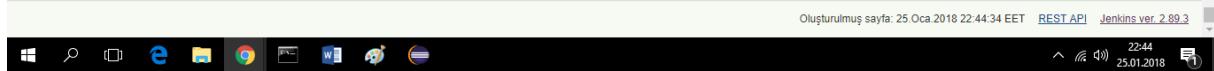
localhost:8080/job/Maven%20Build/1/console

Uygulamalar BlankMediaGames | T

Jenkins > Maven Build > #1

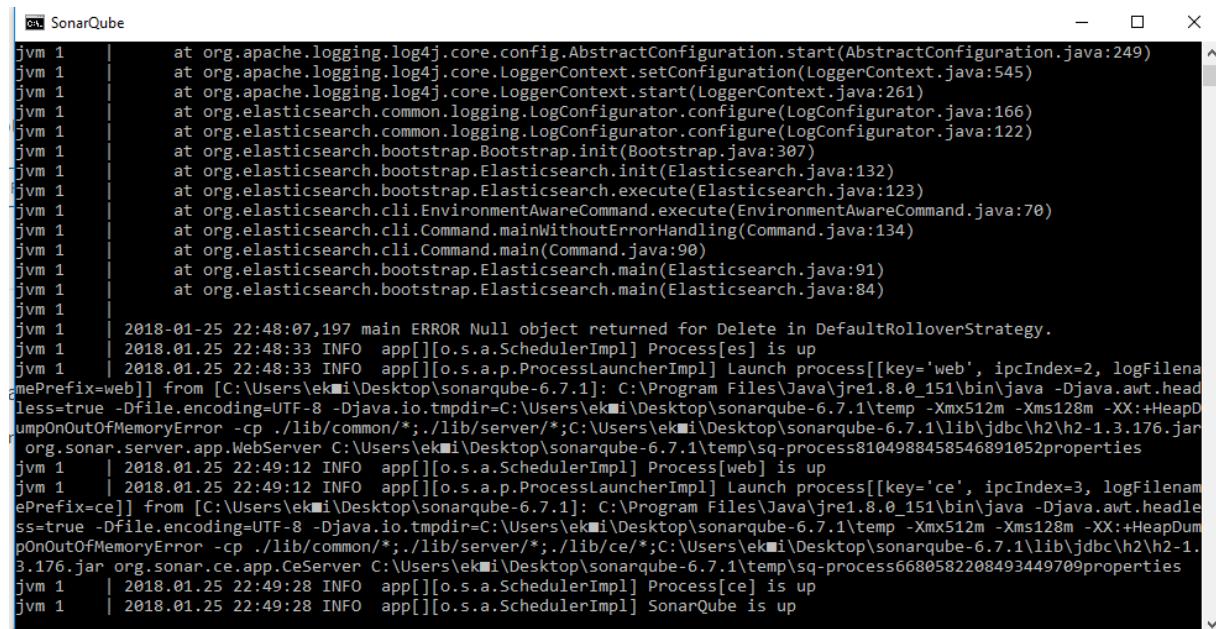
```
Progress (3): 212/233 kB | 221/239 kB | 38 kB
Progress (3): 212/233 kB | 225/239 kB | 38 kB
Progress (3): 212/233 kB | 229/239 kB | 38 kB
Progress (3): 216/233 kB | 229/239 kB | 38 kB
Progress (3): 216/233 kB | 233/239 kB | 38 kB
Progress (3): 221/233 kB | 233/239 kB | 38 kB
Progress (3): 221/233 kB | 237/239 kB | 38 kB
Progress (3): 225/233 kB | 237/239 kB | 38 kB
Progress (3): 225/233 kB | 239 kB | 38 kB
Progress (3): 229/233 kB | 239 kB | 38 kB
Progress (3): 233 kB | 239 kB | 38 kB

Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (239 kB at 551 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 503 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/classworlds/classworlds/1.1-alpha-2/classworlds-1.1-alpha-2.jar (38 kB at 70 kB/s)
[INFO] Installing C:\Users\ekYıl.jenkins\workspace\Maven Build\finalProject\target\finalProject-0.0.1-SNAPSHOT.jar to C:\Users\ekYıl\.m2\repository\com\eymeneksi\finalProject\0.0.1-SNAPSHOT\finalProject-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\ekYıl.jenkins\workspace\Maven Build\finalProject\pom.xml to C:\Users\ekYıl\.m2\repository\com\eymeneksi\finalProject\0.0.1-SNAPSHOT\finalProject-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 57.844 s
[INFO] Finished at: 2018-01-25T22:42:26+03:00
[INFO] Final Memory: 32M/173M
[INFO] -----
Finished: SUCCESS
```

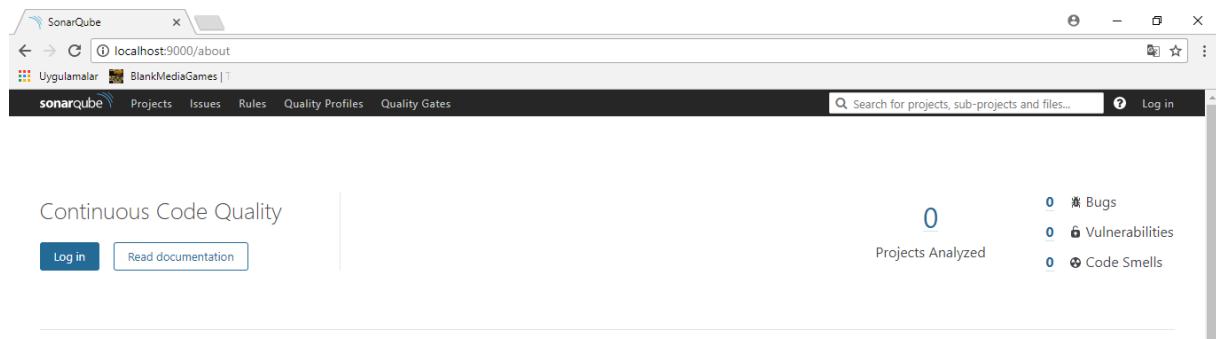


# SonarQube

Kodlarımızı analiz edip kalitesini artırmamıza yardımcı olan araç SonarQube'un kullanımı:



```
SonarQube
jvm 1 |      at org.apache.logging.log4j.core.config.AbstractConfiguration.start(AbstractConfiguration.java:249)
jvm 1 |      at org.apache.logging.log4j.core.LoggerContext.setConfiguration(LoggerContext.java:545)
jvm 1 |      at org.apache.logging.log4j.core.LoggerContext.start(LoggerContext.java:261)
jvm 1 |      at org.elasticsearch.common.logging.LogConfigurator.configure(LogConfigurator.java:166)
jvm 1 |      at org.elasticsearch.common.logging.LogConfigurator.configure(LogConfigurator.java:122)
jvm 1 |      at org.elasticsearch.bootstrap.Bootstrap.init(Bootstrap.java:307)
jvm 1 |      at org.elasticsearch.bootstrap.Elasticsearch.init(Elasticsearch.java:132)
jvm 1 |      at org.elasticsearch.bootstrap.Elasticsearch.execute(Elasticsearch.java:123)
jvm 1 |      at org.elasticsearch.cli.EnvironmentAwareCommand.execute(EnvironmentAwareCommand.java:70)
jvm 1 |      at org.elasticsearch.cli.Command.mainWithoutErrorHandling(Command.java:134)
jvm 1 |      at org.elasticsearch.cli.Command.main(Command.java:90)
jvm 1 |      at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:91)
jvm 1 |      at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:84)
jvm 1 |
jvm 1 | 2018-01-25 22:48:07,197 main ERROR Null object returned for Delete in DefaultRolloverStrategy.
jvm 1 | 2018-01-25 22:48:33 INFO app[] [o.s.a.SchedulerImpl] Process[es] is up
jvm 1 | 2018-01-25 22:48:33 INFO app[] [o.s.a.p.ProcessLauncherImpl] Launch process[[key='web', ipcIndex=2, logFilenamePrefix=web]] from [C:\Users\ekm\Desktop\sonarqube-6.7.1]: C:\Program Files\Java\jre1.8.0_151\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\ekm\Desktop\sonarqube-6.7.1\temp -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -cp ./lib/common/*;./lib/server/*;C:\Users\ekm\Desktop\sonarqube-6.7.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.server.app.WebServer C:\Users\ekm\Desktop\sonarqube-6.7.1\temp\sq-process8104988458546891052properties
jvm 1 | 2018-01-25 22:49:12 INFO app[] [o.s.a.SchedulerImpl] Process[web] is up
jvm 1 | 2018-01-25 22:49:12 INFO app[] [o.s.a.p.ProcessLauncherImpl] Launch process[[key='ce', ipcIndex=3, logFilenamePrefix=ce]] from [C:\Users\ekm\Desktop\sonarqube-6.7.1]: C:\Program Files\Java\jre1.8.0_151\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\ekm\Desktop\sonarqube-6.7.1\temp -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -cp ./lib/common/*;./lib/ce/*;C:\Users\ekm\Desktop\sonarqube-6.7.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.ce.app.CeServer C:\Users\ekm\Desktop\sonarqube-6.7.1\temp\sq-process6680582208493449709properties
jvm 1 | 2018-01-25 22:49:28 INFO app[] [o.s.a.SchedulerImpl] Process[ce] is up
jvm 1 | 2018-01-25 22:49:28 INFO app[] [o.s.a.SchedulerImpl] SonarQube is up
```



Continuous Code Quality

0 Projects Analyzed

0 Bugs  
0 Vulnerabilities  
0 Code Smells



Multi-Language

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.

## SonarQube'dan Jenkins'i tetiklemek için:

The screenshot shows the Jenkins interface for a 'Maven Build' job. On the left, there's a sidebar with links like 'Kontrol Merkezine Dön', 'Durum', 'Değişiklikler', 'Çalışma Alanı', 'Şimdi Yapilandır', 'Proje sil', and 'Konfigürasyonu Düzenle'. The main area is titled 'Proje Maven Build' and contains a 'Çalışma Alanı' section with a folder icon and a 'Son Değişiklikler' section with a document icon. Below these are 'Permalinkler' and a list of recent builds. At the bottom, there are RSS feed links.

The screenshot shows the 'Configure' page for the 'Maven Build' job. It has tabs for 'General', 'Kaynak Kodu Yönetimi', 'Yapilandırma Tetikleyiciler', 'Yapilandırma Ortamı' (which is selected), 'Yapilandırma', and 'Yapilandırma-sonrası Aksiyonlar'. Under 'Yapilandırma Ortamı', there are checkboxes for 'Delete workspace before build starts', 'Use secret text(s) or file(s)', 'Abort the build if it's stuck', 'Add timestamps to the Console Output', and 'With Ant'. Under 'Yapilandırma', there's a configuration for 'En üst seviye Maven hedeflerini çalıştır' with 'Maven Versiyonu' set to 'Maven 3.5.2' and 'Hedefler' set to 'install sonar:sonar'. Under 'Yapilandırma-sonrası Aksiyonlar', there are 'Kaydet' and 'Apply' buttons.

```

[INFO] 5 source files have been analyzed
[INFO] Sensor XML Sensor [xml]
[INFO] Sensor XML Sensor [xml] (done) | time=285ms
[INFO] Sensor Analyzer for "php.ini" files [php]
[INFO] Sensor Analyzer for "php.ini" files [php] (done) | time=39ms
[INFO] Sensor CPD Block Indexer
[INFO] Sensor CPD Block Indexer (done) | time=62ms
[INFO] SCM provider for this project is: git
[INFO] 5 files to be analyzed
[INFO] 5/5 files analyzed
[INFO] 1 file had no CPD blocks
[INFO] Calculating CPD for 2 files
[INFO] CPD calculation finished
[INFO] Analysis report generated in 577ms, dir size=44 KB
[INFO] Analysis reports compressed in 18ms, zip size=17 KB
[INFO] Analysis report uploaded in 1725ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard/index/com.eyemeneksi:finalProject
[INFO] Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=dAlEu5AcyIvX4V0wGUSxq
[INFO] Task total time: 17.738 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:02 min
[INFO] Finished at: 2018-01-25T22:55:51+03:00
[INFO] Final Memory: 41M/367M
[INFO] -----
Finished: SUCCESS

```

Oluşturulmuş sayfa: 25 Oca 2018 22:56:07 EET [BEST API](#) Jenkins ver. 2.89.3

22:56 25.01.2018

## Başarıyla analiz edildi. Konsolda verilen SonarQube linkine tıklayarak bakılabilir:

The screenshot shows the SonarQube dashboard for the 'finalProject' project. The top navigation bar includes links for Projects, Issues, Rules, Quality Profiles, and Quality Gates. The main content area displays various metrics and status indicators:

- Quality Gate:** Passed
- Bugs:** 0 (A)
- Vulnerabilities:** 1 (B)
- Code Smells:** 31min (A)
- Debt:** 4
- Coverage:** 0.0%
- Unit Tests:** 1

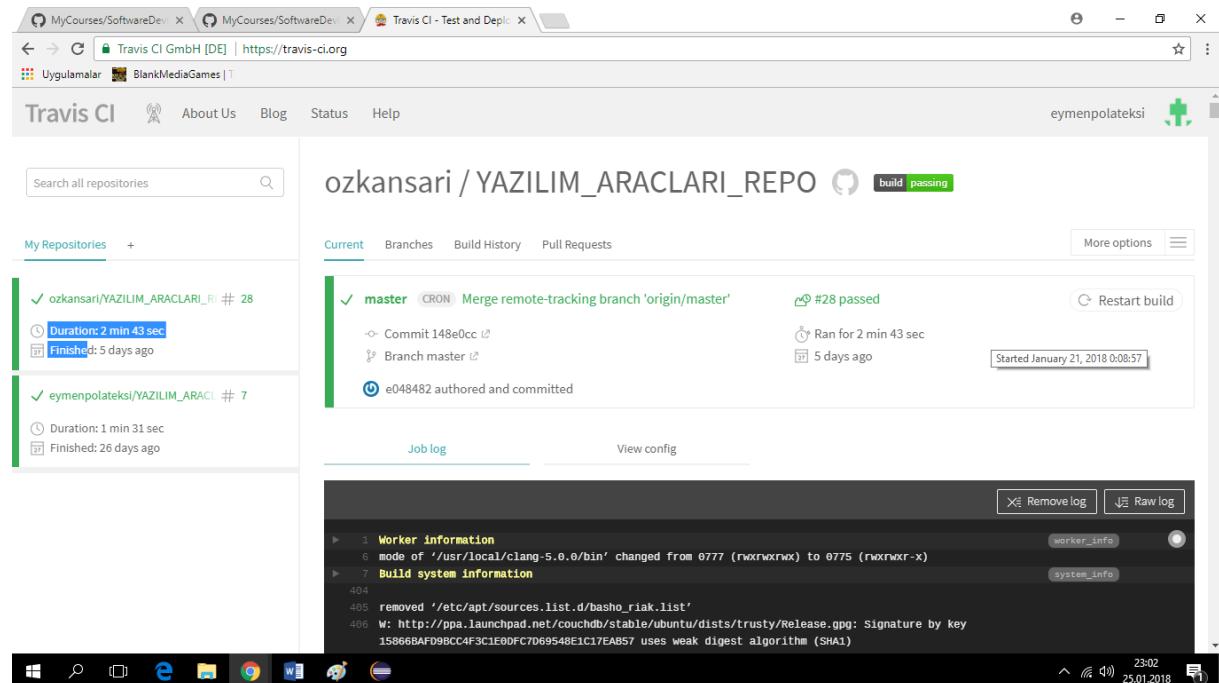
On the right side, there are detailed sections for Lines of Code (91 Java, 41 XML), Activity (January 25, 2018, 0.0.1-SNAPSHOT), Quality Gate (SonarQube way), Quality Profiles (Java: Sonar way, XML: Sonar way), Home, Sources, and a Key field containing 'com.eyemeneksi:finalProject'.

January 25, 2018, 10:55 PM Version 0.0.1-SNAPSHOT

22:57 25.01.2018

## TRAVIS CI

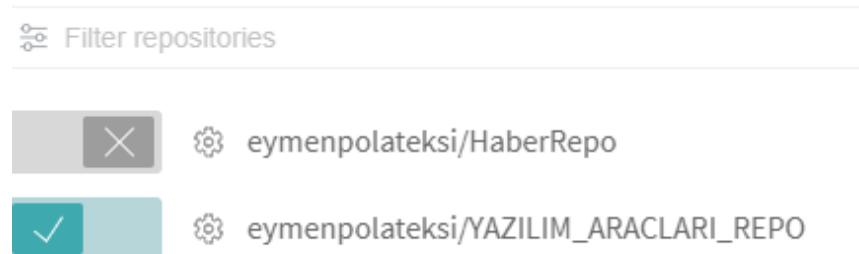
Travis CI'da projeyi build etmek projemizin bulunduğu Github hesabıyla entegre edilir.



The screenshot shows the Travis CI dashboard for the repository 'ozkansari / YAZILIM\_ARACLARI\_REPO'. The dashboard displays two recent builds:

- Build #28 (Passed):** Master branch, CRON merge remote-tracking branch 'origin/master'. Duration: 2 min 43 sec, Started January 21, 2018 0:08:57. Details: Commit 148e0cc, Branch master, e048482 authored and committed.
- Build #7 (Passed):** ozkansari/YAZILIM\_ARACLARI\_REPO, Duration: 1 min 31 sec, Finished: 5 days ago.

The 'Job log' section shows the build output with sections for Worker information and Build system information. The log ends with a warning about a weak digest algorithm (SHA1) for a GPG key.



A modal dialog box titled 'Filter repositories' is open, listing two repositories:

- eymenpolateksi/HaberRepo** (unchecked)
- eymenpolateksi/YAZILIM\_ARACLARI\_REPO** (checked)

Repository'mizin erişime açılması gerekiyor.

eyemenpolateksi

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

- Flick the repository switch on
- Add .travis.yml file to your repository
- Trigger your first build with a git push

Filter repositories

- eymenpolateksi/HaberRepo
- eymenpolateksi/YAZILIM\_ARACLARI\_REPO



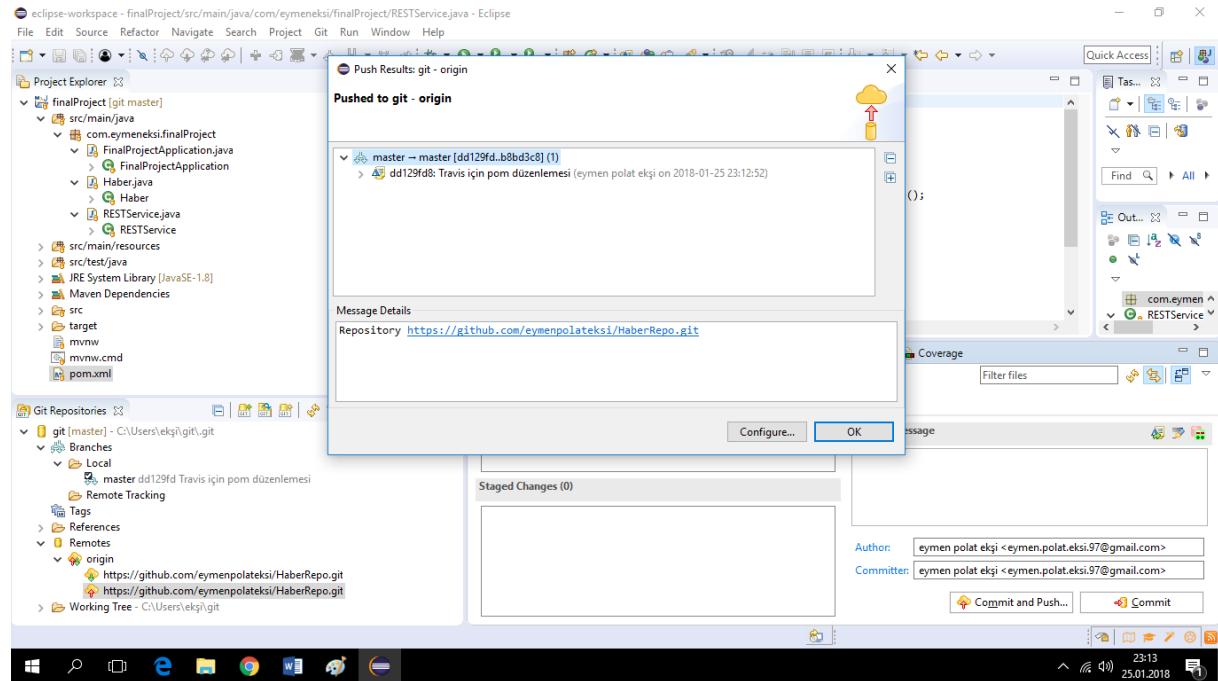
Daha sonra, projemizdeki pom.xml dosyasına aşağıdaki plugin'leri ekliyoruz:

```

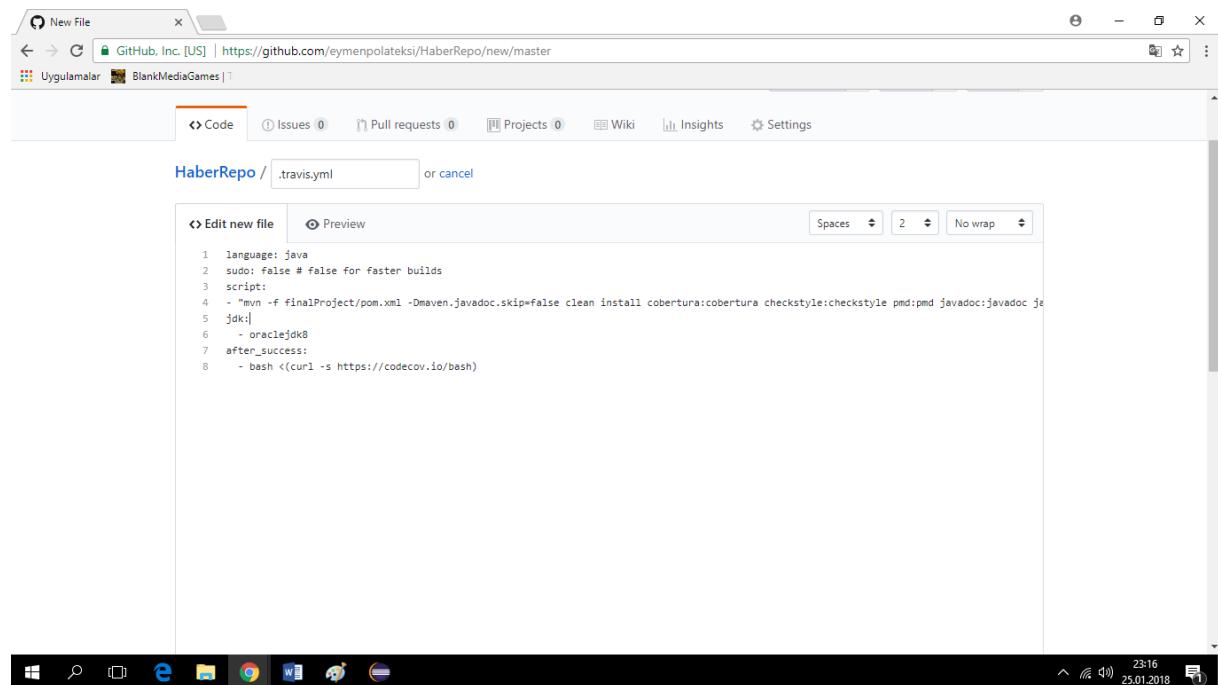
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
</dependency>
<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
        </plugin>
        <plugin>
            <groupId>org.codehaus.mojo</groupId>
            <artifactId>cobertura-maven-plugin</artifactId>
            <version>2.7</version>
            <configuration>
                <formats>
                    <format>html</format>
                    <format>xml</format>
                </formats>
                <check />
            </configuration>
        </plugin>
    </plugins>
</build>

```

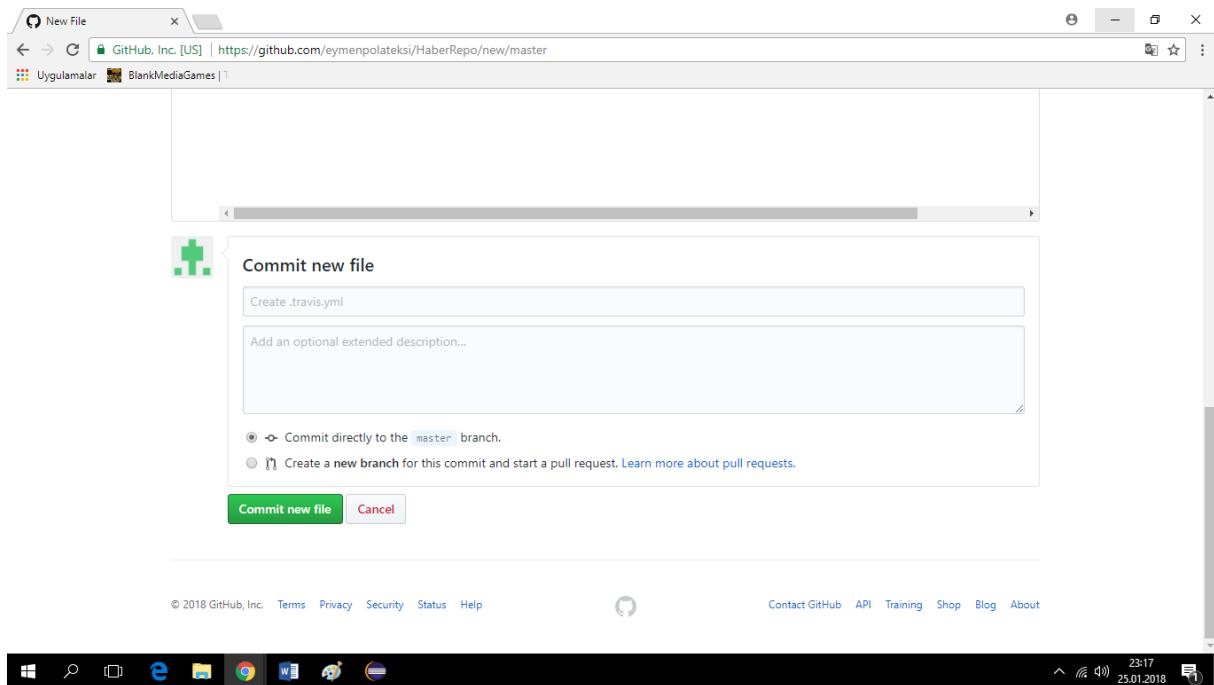
## Ve Github'a commitliyoruz:



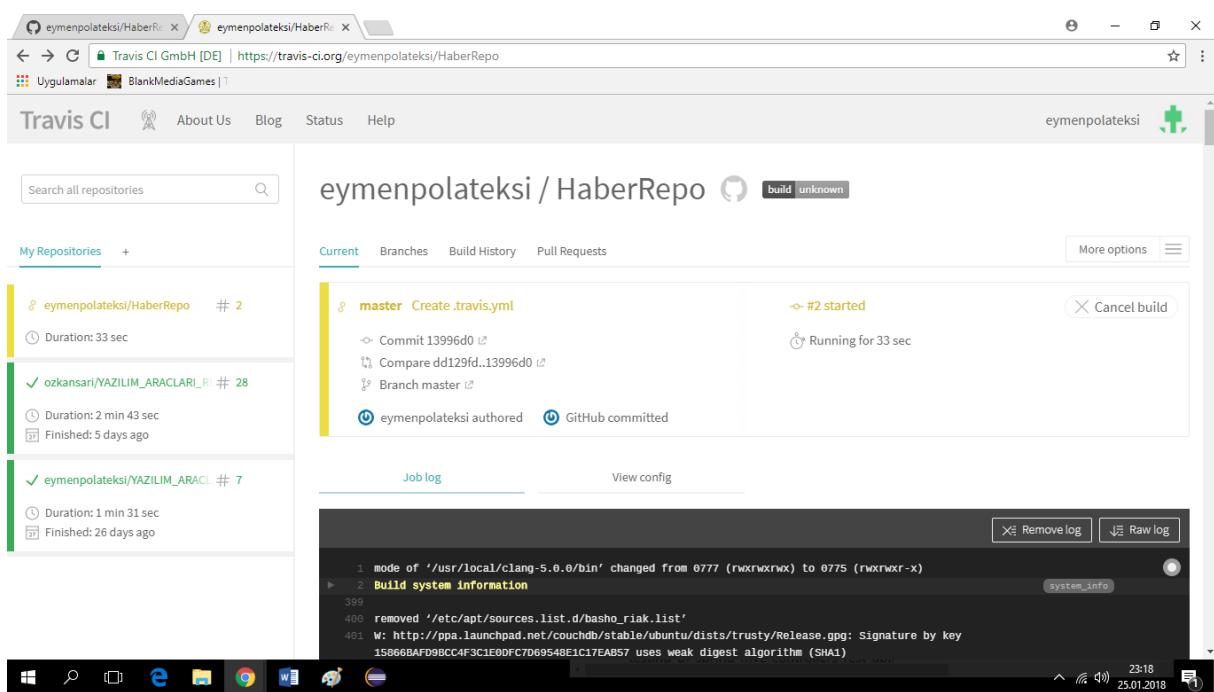
Travis'de projemizi build edebilmek için; projemize Github'da bir “travis.yml” dosyası ekliyoruz:



Commit'liyoruz:



Ve proje kendiliğinden Travis CI'da build ediliyor.



# Ve proje başarıyla build edildi:

The screenshot shows the Travis CI interface for the repository 'eyemenpolateksi / HaberRepo'. The master branch is listed with a green checkmark and the status '#2 passed'. The job log shows the following output:

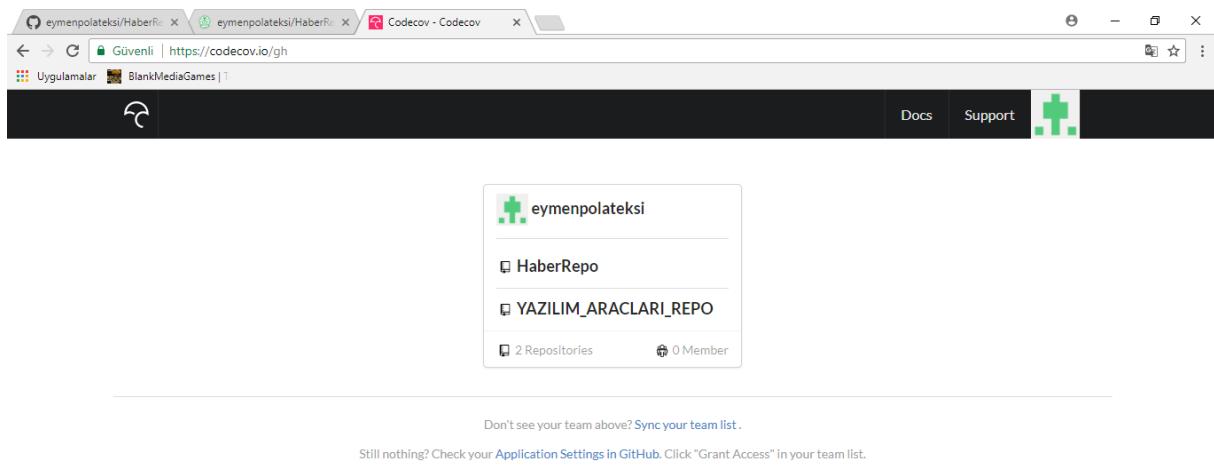
```
1 mode of '/usr/local/clang-5.0.0/bin' changed from 0777 (rwxrwxrwx) to 0775 (rwxrwxr-x)
2 Build system information
399
400 removed '/etc/apt/sources.list.d/basho_riak.list'
401 W: http://ppa.launchpad.net/couchdb/stable/ubuntu/dists/trusty/Release.gpg: signature by key
15866BAFD9BCC4F3C1E0DFC7069548E1C17EA057 uses weak digest algorithm (SHA1)
```

The screenshot shows the Travis CI interface for the repository 'eyemenpolateksi / HaberRepo'. The master branch is listed with a green checkmark and the status '#2 passed'. The job log shows a detailed Maven build log with success messages:

```
at 1.0 MB/s)
6979 downloading from central: http://repo.maven.apache.org/maven2/org/webjars/webjars-locator/0.32-1/webjars-locator-0.32-1.pom
6980 downloaded from central: http://repo.maven.apache.org/maven2/org/webjars/webjars-locator/0.32-1/webjars-locator-0.32-1.pom
(5.6 kB at 1.4 MB/s)
6981 Downloading from central: http://repo.maven.apache.org/maven2/org/xerial/sqlite-jdbc/3.15.1/sqlite-jdbc-3.15.1.pom
6982 downloaded from central: http://repo.maven.apache.org/maven2/org/xerial/sqlite-jdbc/3.15.1/sqlite-jdbc-3.15.1.pom (6.1 kB at
1.5 MB/s)
6983 Downloading from central: http://repo.maven.apache.org/maven2/redis/clients/jedis/2.9.0/jedis-2.9.0.pom
6984 downloaded from central: http://repo.maven.apache.org/maven2/redis/clients/jedis/2.9.0/jedis-2.9.0.pom (5.9 kB at 1.5 MB/s)
6985 Downloading from central: http://repo.maven.apache.org/maven2/wsdl4j/wsdl4j/1.6.3/wsdl4j-1.6.3.pom
6986 downloaded from central: http://repo.maven.apache.org/maven2/wsdl4j/wsdl4j/1.6.3/wsdl4j-1.6.3.pom (1.1 kB at 378 kB/s)
6987 [INFO] Generating "About" report --- maven-project-info-reports-plugin:2.9:index
6988 [INFO] Generating "Licenses" report --- maven-project-info-reports-plugin:2.9:license
6989 [INFO] Generating "Plugin Management" report --- maven-project-info-reports-plugin:2.9:plugin-management
6990 [INFO] Generating "Plugins" report --- maven-project-info-reports-plugin:2.9:plugins
6991 [INFO] Generating "Team" report --- maven-project-info-reports-plugin:2.9:project-team
6992 [INFO] Generating "Source Code Management" report --- maven-project-info-reports-plugin:2.9:scm
6993 [INFO] Generating "Summary" report --- maven-project-info-reports-plugin:2.9:summary
6994 [INFO] -----
6995 [INFO] BUILD SUCCESS
6996 [INFO] -----
6997 [INFO] Total time: 01:26 min
6998 [INFO] Finished at: 2018-01-25T20:19:24Z
6999 [INFO] Final Memory: 79M/902M
7000 [INFO] -----
7001
7002
7003 The command "mvn -f finalProject/pom.xml -Dmaven.javadoc.skip=false clean install cobertura:cobertura checkstyle:checkstyle
pmd:pmd javadoc:javadoc javadoc:aggregate site" exited with 0.
7004 $ bash <curl -s https://codecov.io/bash>
7040
7041 Done. Your build exited with 0.
```

## CODECOV.IO

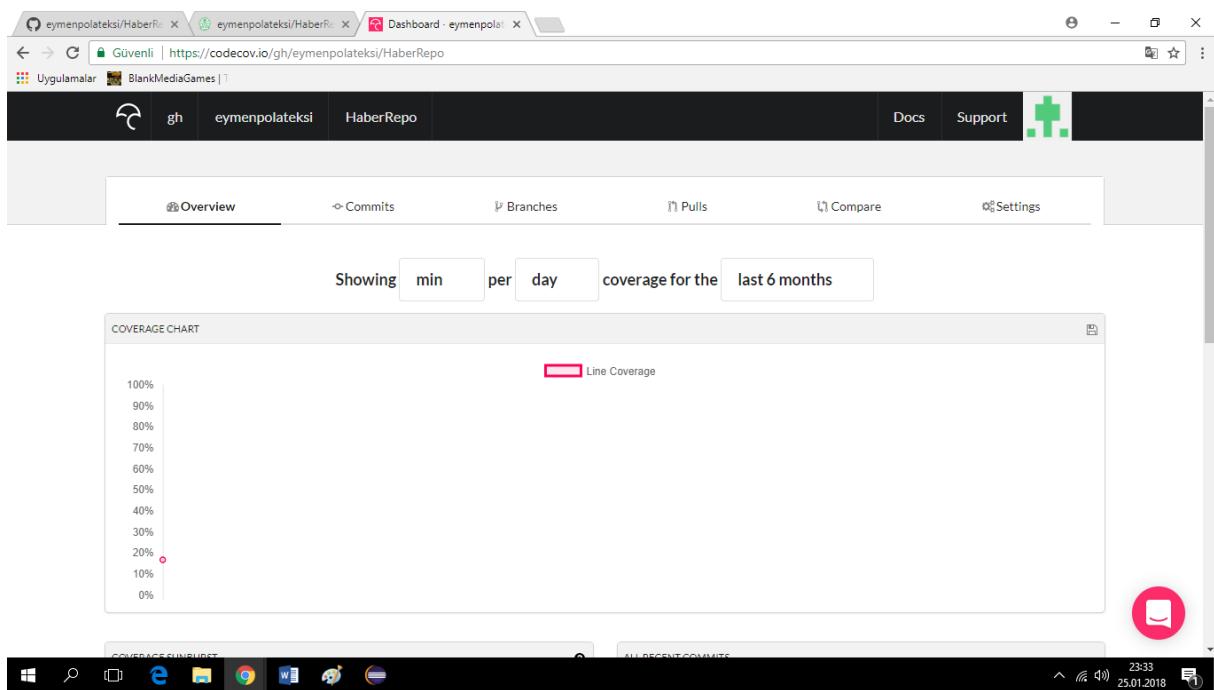
Codecov.io sitesine gidip, Github hesabıyla giriş yapılır. Alakalı repository(HaberRepo) seçilir:



The screenshot shows the Codecov.io dashboard for the 'HaberRepo' repository. At the top, there's a navigation bar with links for 'Docs' and 'Support'. Below the navigation bar, the repository details are displayed: 'eyemenpolateksi' (username), 'HaberRepo' (repository name), and 'YAZILIM\_ARACLARI\_REPO' (another repository). It also shows '2 Repositories' and '0 Member'. A message at the bottom says 'Don't see your team above? Sync your team list.' and 'Still nothing? Check your Application Settings in GitHub. Click "Grant Access" in your team list.'



Ve kodumuzun ortalaması gözükmüyor:



The screenshot shows the 'Overview' tab of the Codecov dashboard for the 'HaberRepo' repository. It features a 'Coverage Chart' with a red line indicating 'Line Coverage' at approximately 10%. Below the chart, there are buttons for 'Showing min per day coverage for the last 6 months'. At the bottom of the dashboard, there's a 'COVERAGE SUBREPORT' section and a 'ALL RECENT COMMITS' link. The bottom of the screen shows the Windows taskbar with various pinned icons.

Güvenli | https://codecov.io/gh/eyemenpolatksi/HaberRepo

Uygulamalar BlankMediaGames

COVERAGE SUNBURST

ALL RECENT COMMITS

| File              | Line | Branch | Commit | Author | Time Ago       | CI Status                  |
|-------------------|------|--------|--------|--------|----------------|----------------------------|
| Create.travis.yml | 18   | 3      | 0      | 15     | 16 minutes ago | master 13996d0 ✓ CI Passed |

Browse Report

View all recent commits

Files

Coverage

finalProject/src/main/java/com/eymeneksi/finalProject 18 3 0 15 16.66%

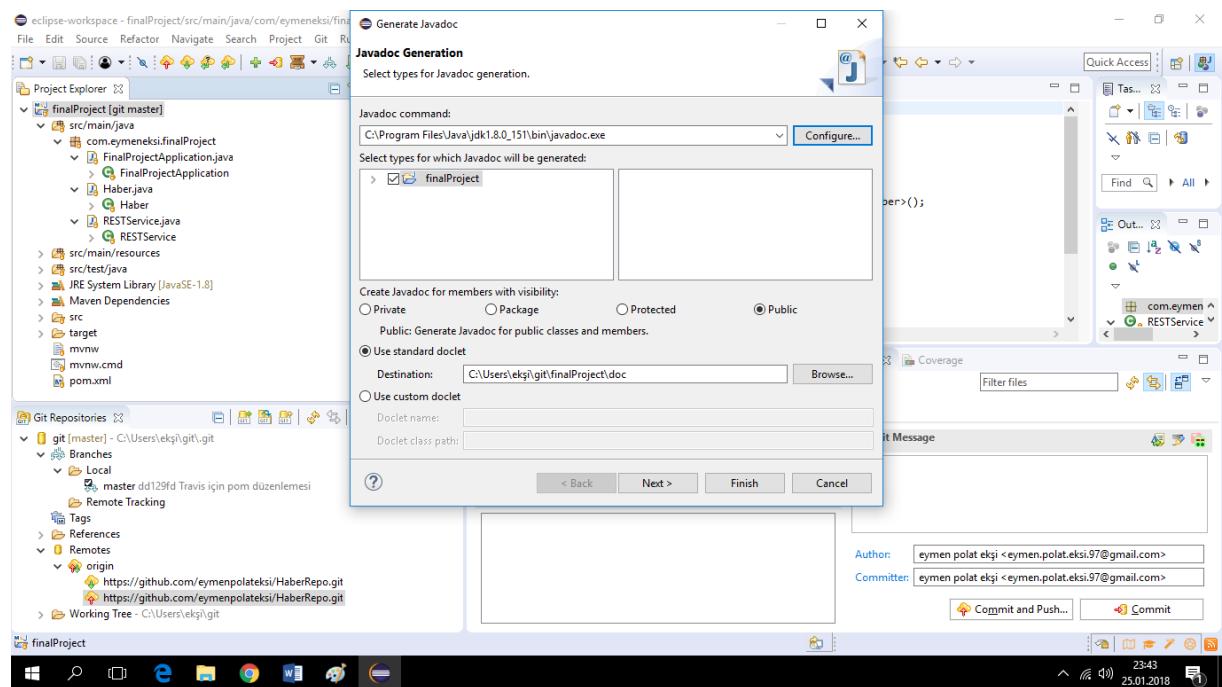
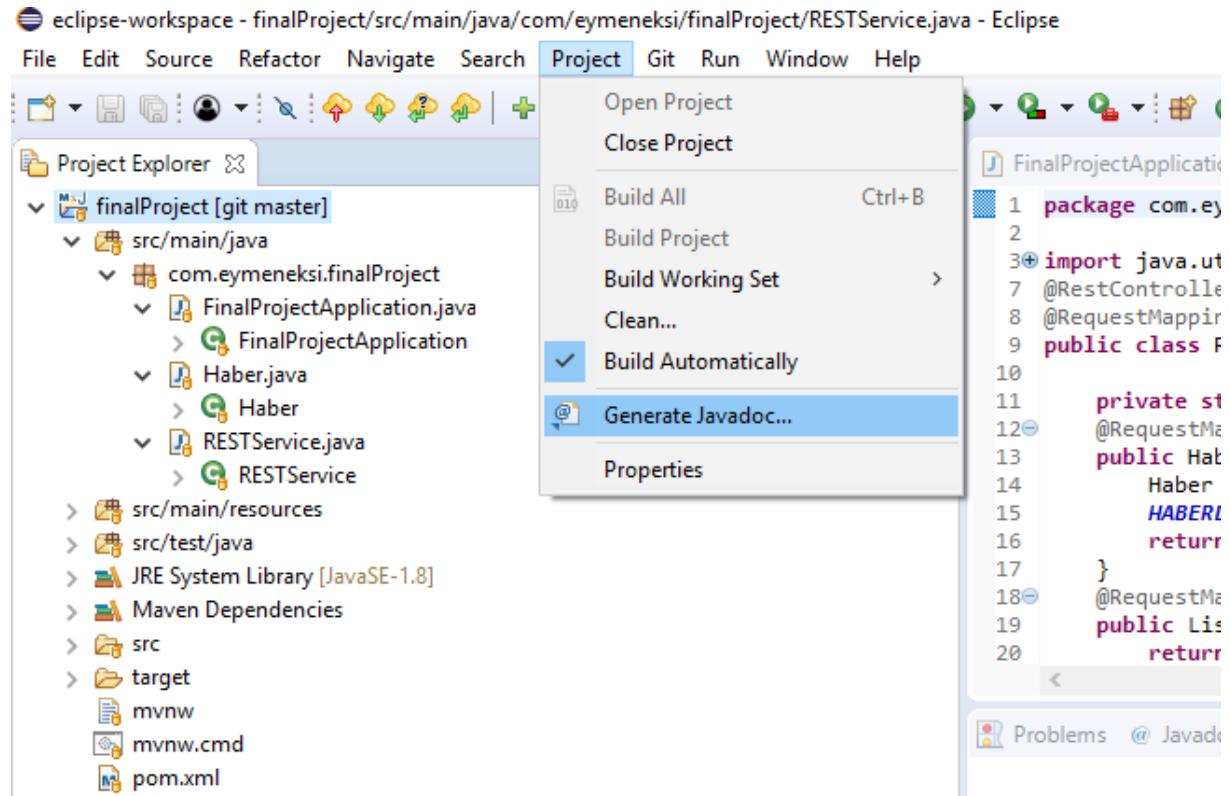
Project Totals (3 files) 18 3 0 15 16.66%

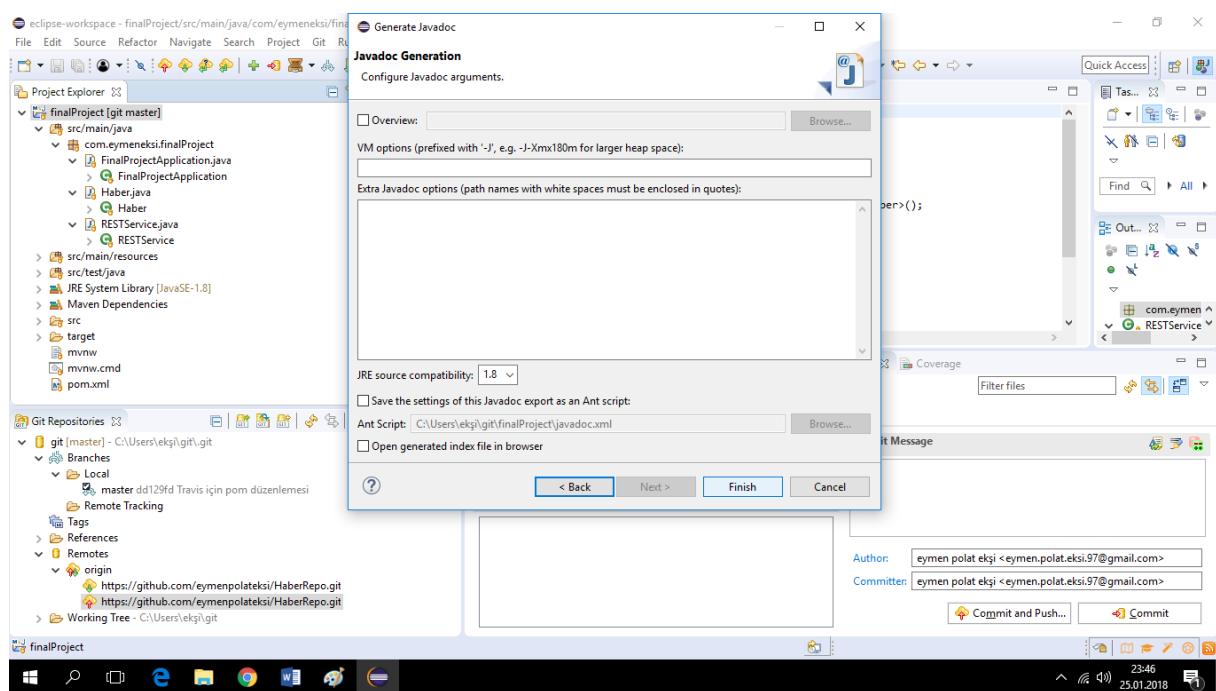
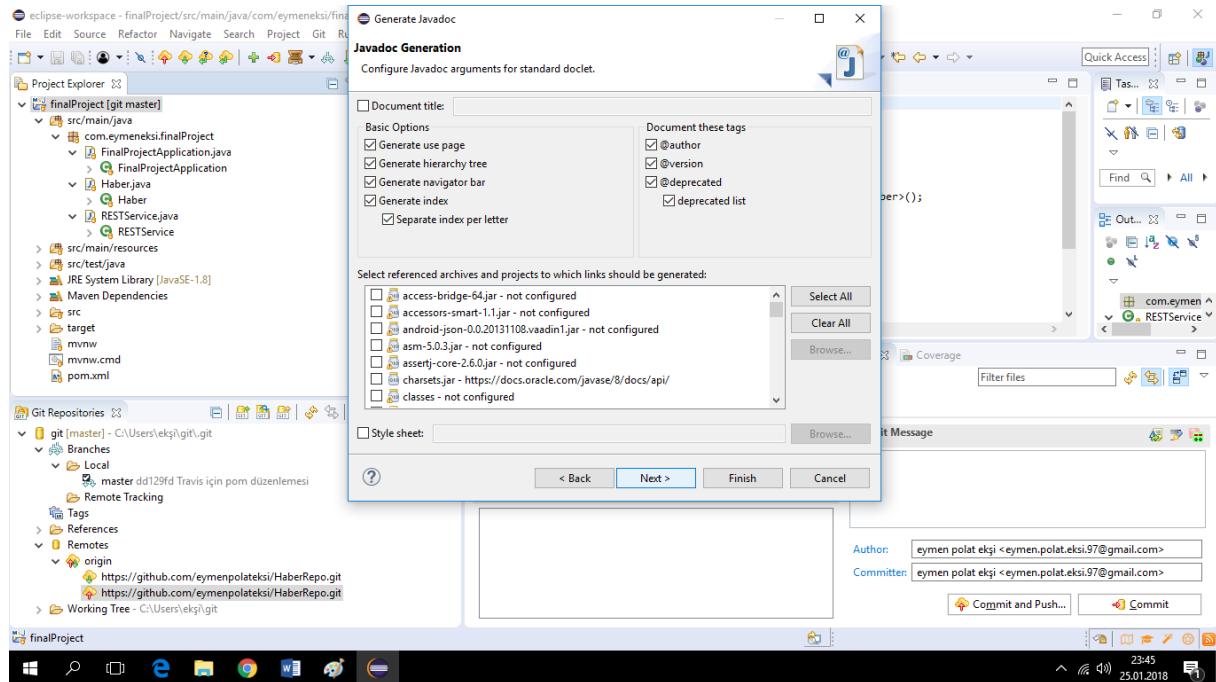
23:34 25.01.2018

# JAVADOC

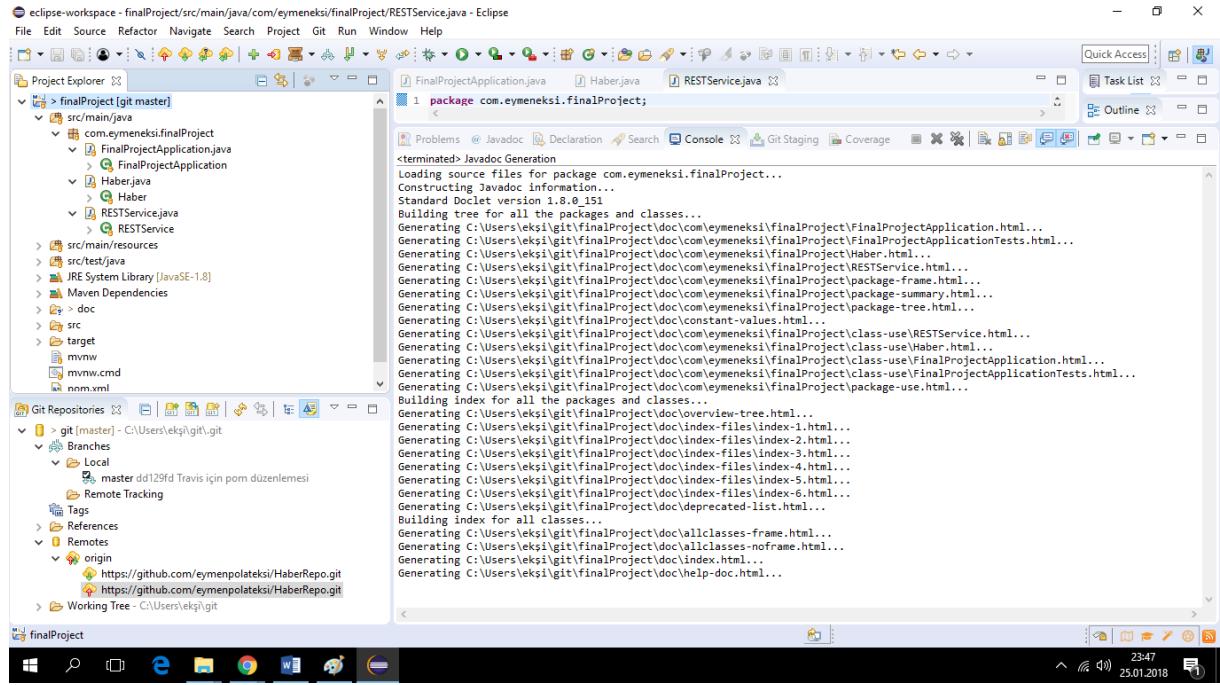
Javadoc dökümanları, kodu okumamızda kolaylık sağlar.

Javadoc oluşturmak için:

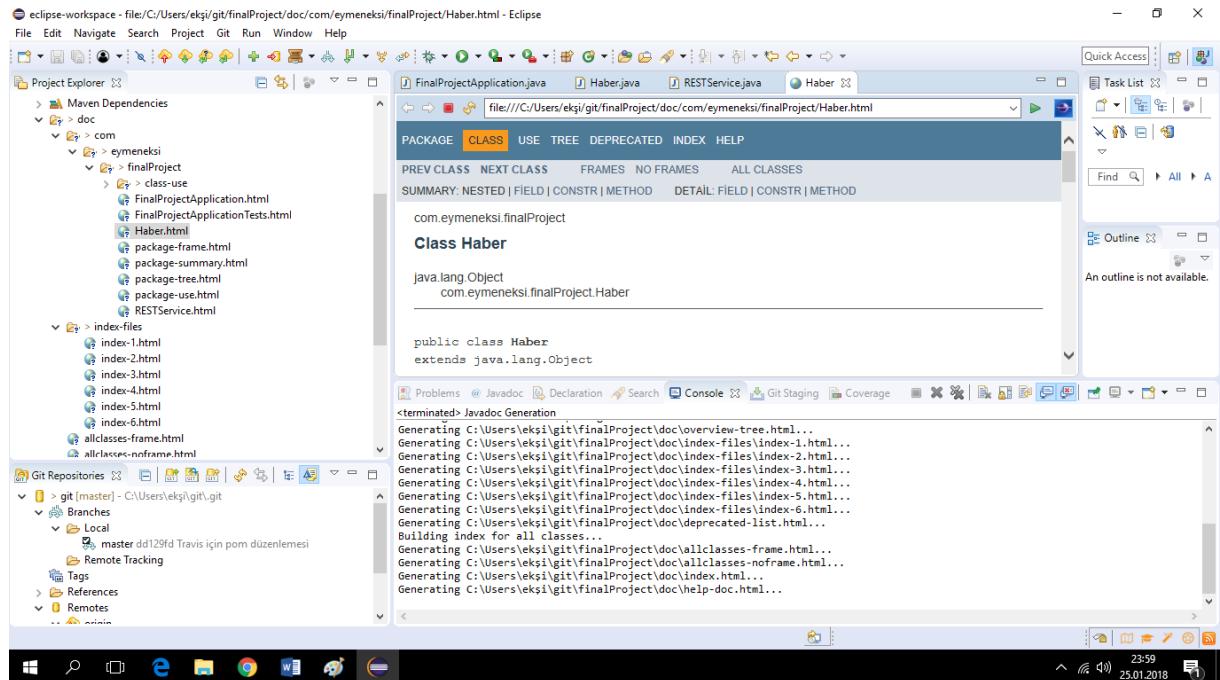




Finish dedikten sonra Javadoc, çalışmaya ve kaynak kodumuzu almaya başlar:

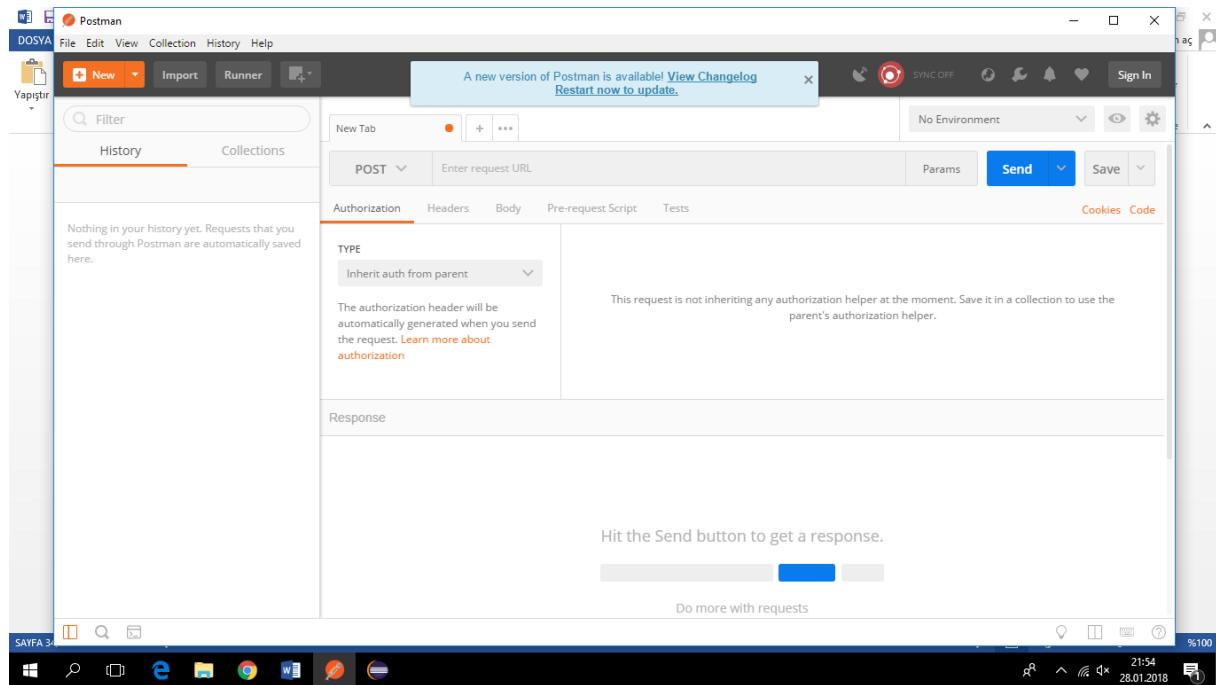


Ve javadoc dökümanları html dosyası olarak projeye eklendi:

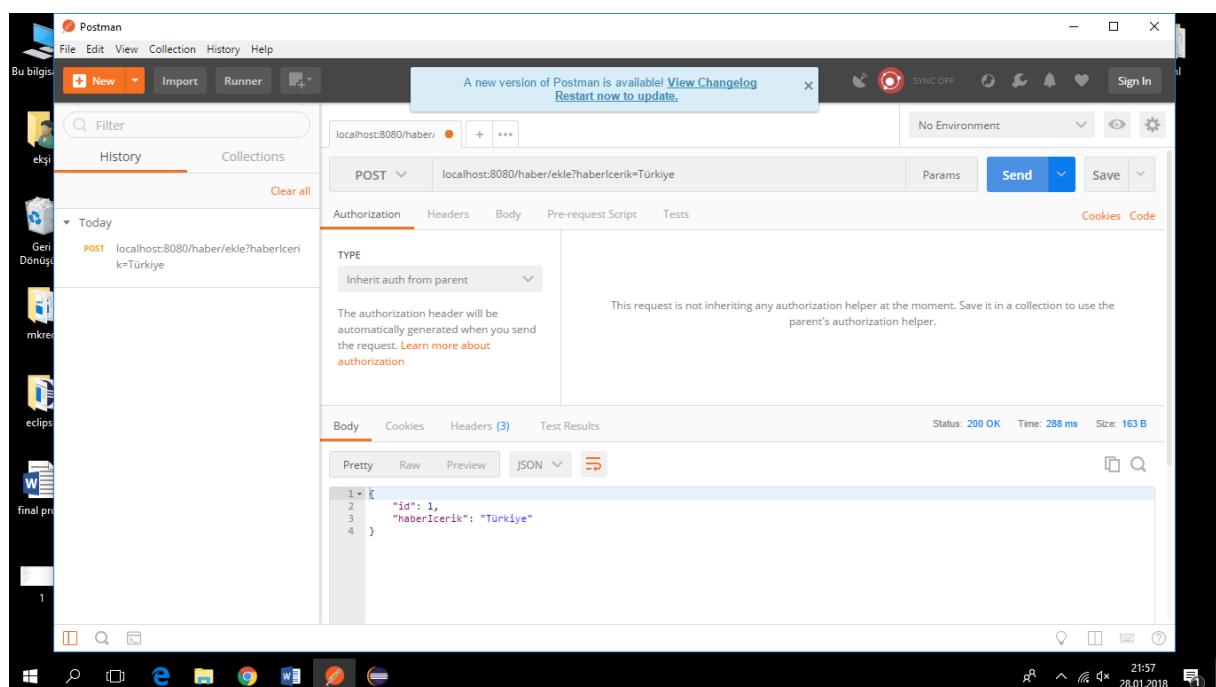


# POSTMAN

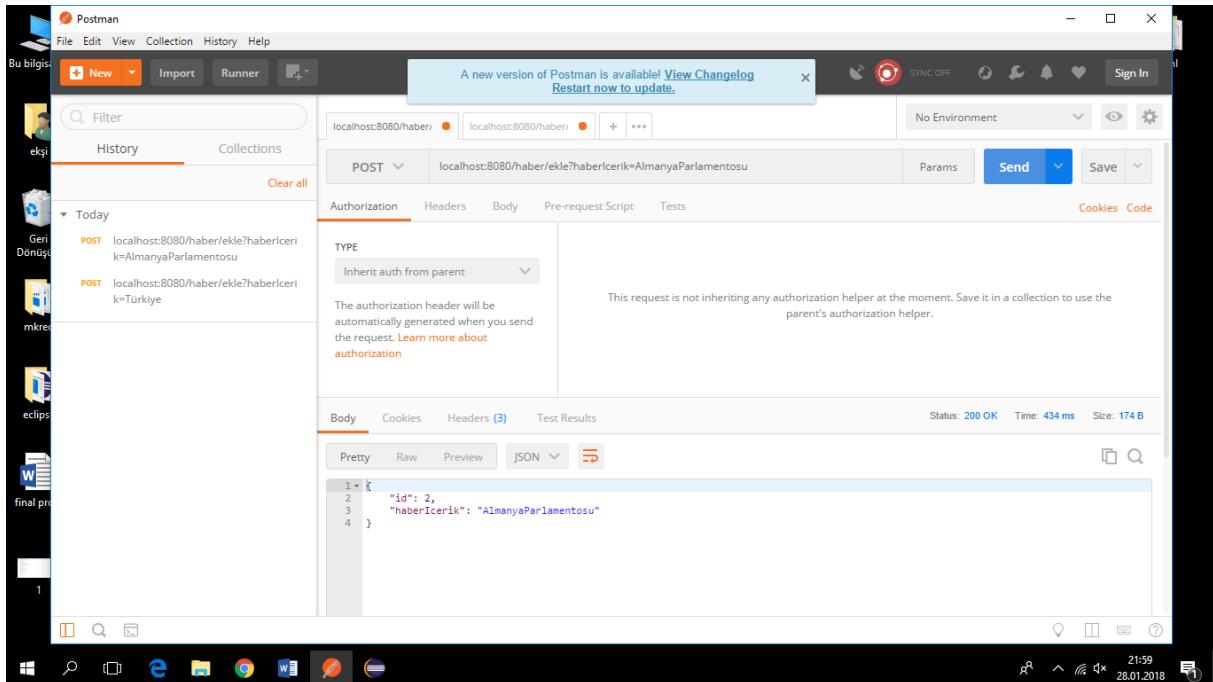
<https://www.getpostman.com/> adresinden indirilir.



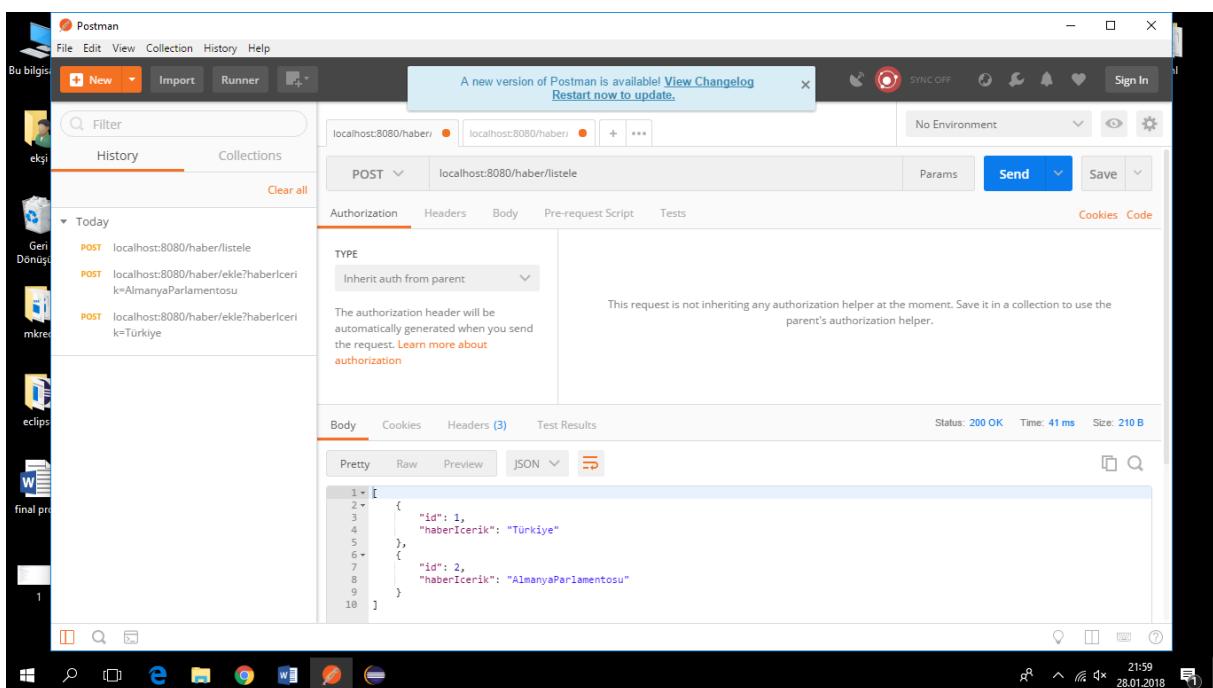
Post'u seçerek; ekle, liste ve sil metodları test edilecek.



Gönder tıklandığı zaman body kısmında oluşturulan haber gözüktü.



Listele de düzgün çalışıyor.



Sil komutunu uygulayınca body kısmı boş gözükmüyör.  
Listeledikten sonra silip silinmediğini göreceğim.

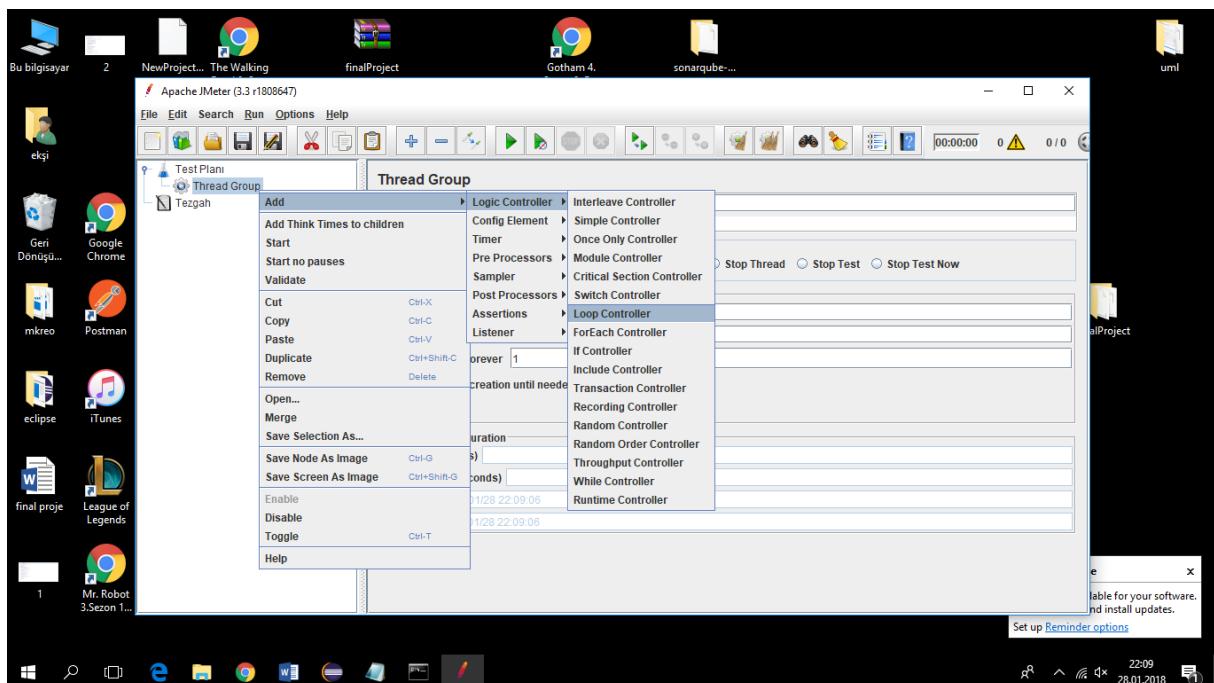
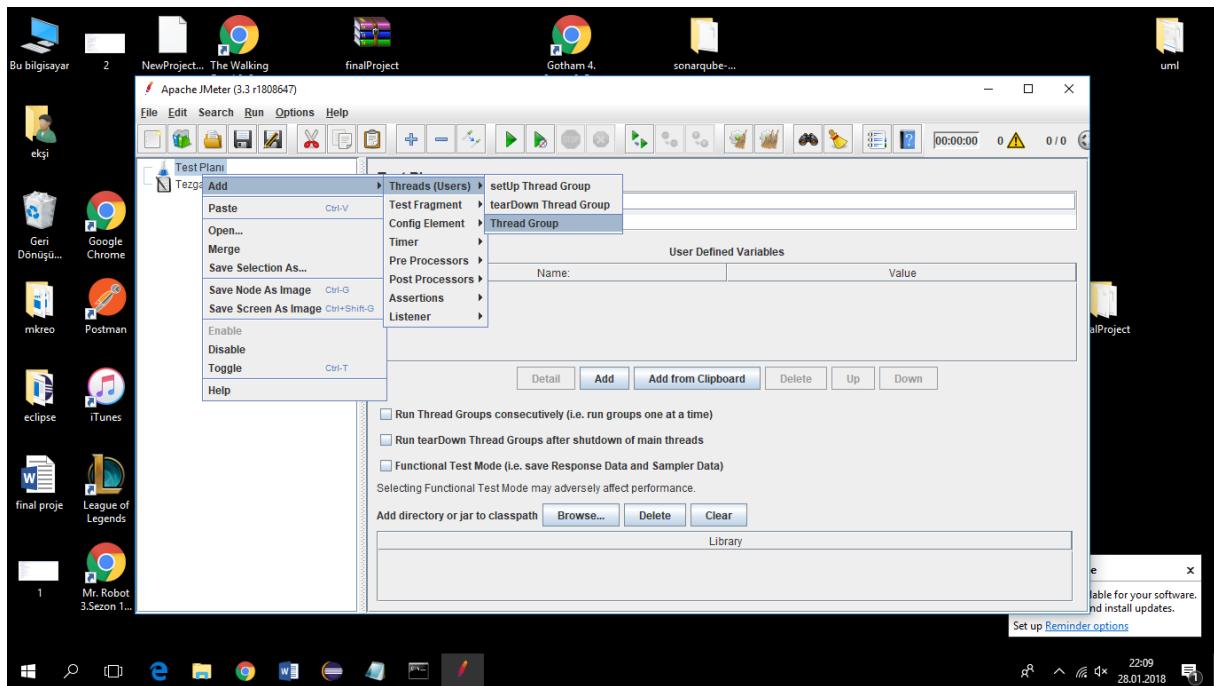
The screenshot shows the Postman application interface. In the center, there's a request configuration window for a DELETE operation. The URL is set to `localhost:8080/haber/sil?id=1`. The 'Body' tab is selected, showing a JSON object with one item: `[{"id": 2, "haberIcerik": "AlmanyaParlamentosu"}]`. Below the body, the status bar indicates a `200 OK` response with a time of `58 ms` and a size of `75 B`.

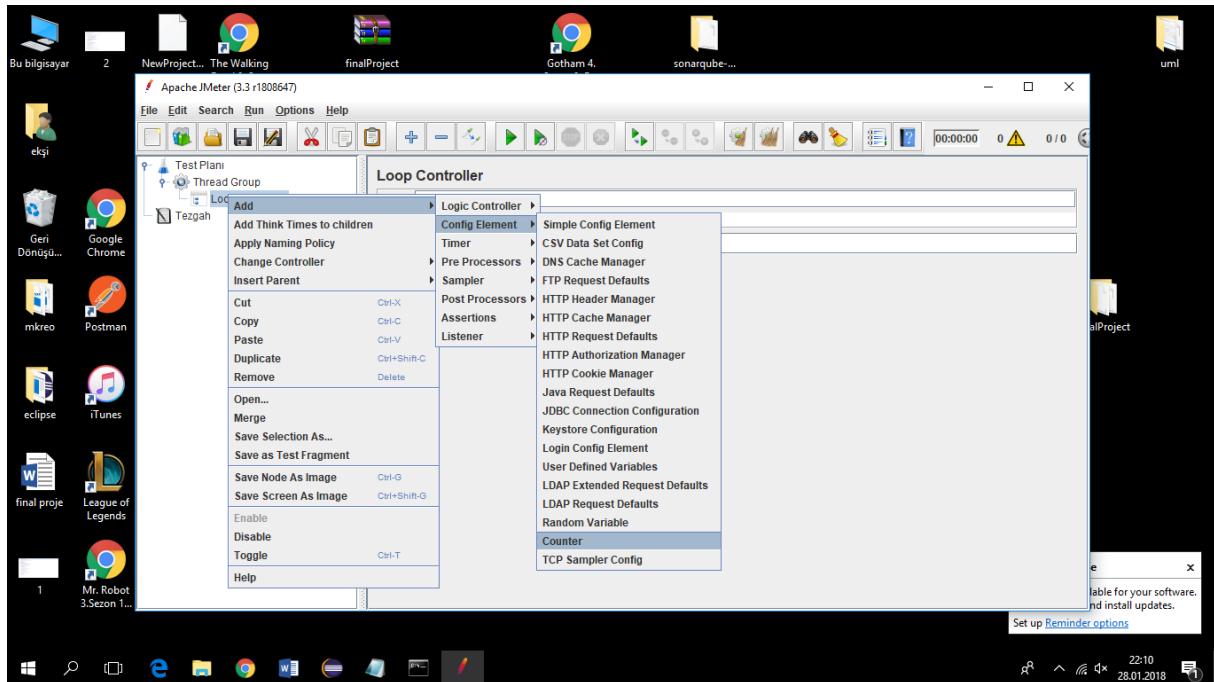
Listeleyince id'si 1 olan haberin silinmiş olduğunu gördüm.

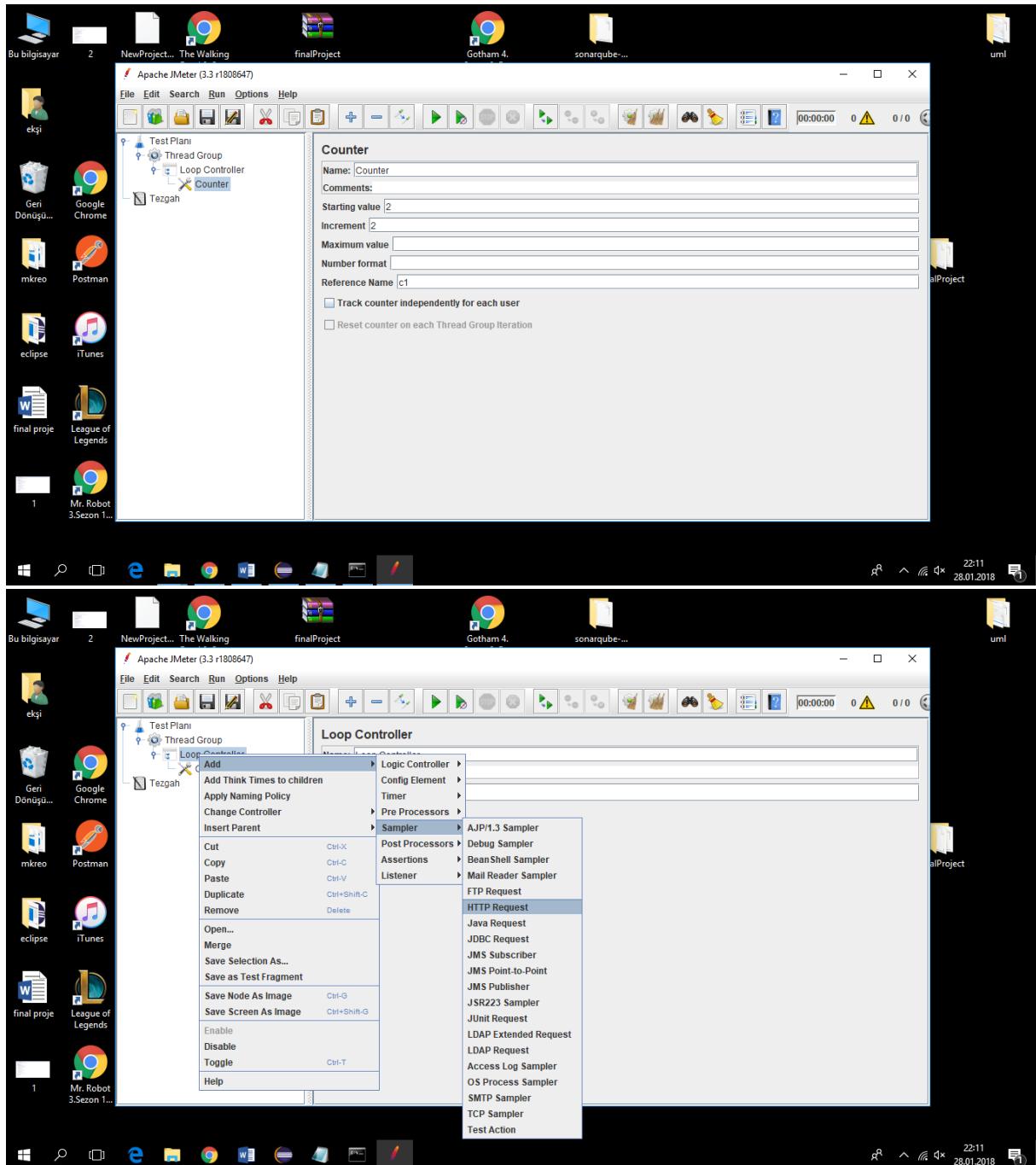
This screenshot shows the same Postman interface after the deletion. A new GET request is listed under the 'History' tab, with the URL `localhost:8080/haber/listele`. The 'Body' tab shows the response, which is a JSON array containing only one item: `[{"id": 2, "haberIcerik": "AlmanyaParlamentosu"}]`. The status bar at the bottom shows a `200 OK` response with a time of `55 ms` and a size of `176 B`.

## JMETER

C:\Users\ekşi\Desktop\apache-jmeter-3.3\bin\jmeter.bat  
yolu takip edilerek Apache JMeter programı açılır.







haberEkle.jmx (C:\Users\ekgi\Desktop\apache-jmeter-3.3\bin\haberEkle.jmx) - Apache JMeter (3.3 r1808647)

File Edit Search Run Options Help

Test Plan

- Thread Group
  - Loop Controller
    - Counter
    - haberEkle
    - haberListele
    - haberSil
- View Results Tree

Tezgah

HTTP Request

Name: haberEkle  
Comments:localhost:8080/haber/ekle?haberCerik=Türkçe

Basic Advanced

Web Server  
Protocol [http]: http Server Name or IP: localhost Port Number: 8080

HTTP Request  
Method: GET Path: /haber/ekle  
 Redirect Automatically  Follow Redirects  Use KeepAlive  Use multipart/form-data for POST  Browser-compatible headers

Parameters Body Data Files Upload

Send Parameters With the Request:

| Name:      | Value        | Encode?                  | Include Equals?                     |
|------------|--------------|--------------------------|-------------------------------------|
| haberCerik | haber_\${c1} | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Detail Add Add from Clipboard Delete Up Down

16:42 30.01.2018

haberEkle.jmx (C:\Users\ekgi\Desktop\apache-jmeter-3.3\bin\haberEkle.jmx) - Apache JMeter (3.3 r1808647)

File Edit Search Run Options Help

Test Plan

- Thread Group
  - Loop Controller
    - Counter
    - haberEkle
    - haberListele
    - haberSil
- View Results Tree

Tezgah

HTTP Request

Name: haberSil  
Comments:localhost:8080/haber/sil?id=1

Basic Advanced

Web Server  
Protocol [http]: http Server Name or IP: localhost Port Number: 8080

HTTP Request  
Method: GET Path: /haber/sil  
 Redirect Automatically  Follow Redirects  Use KeepAlive  Use multipart/form-data for POST  Browser-compatible headers

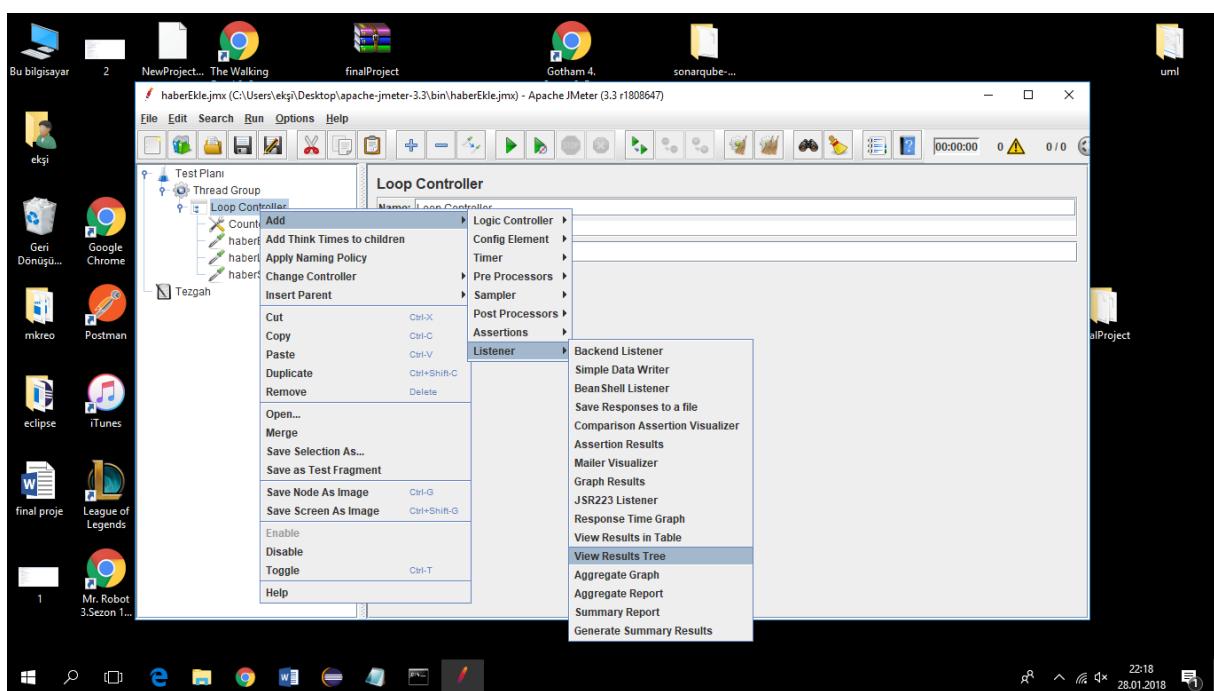
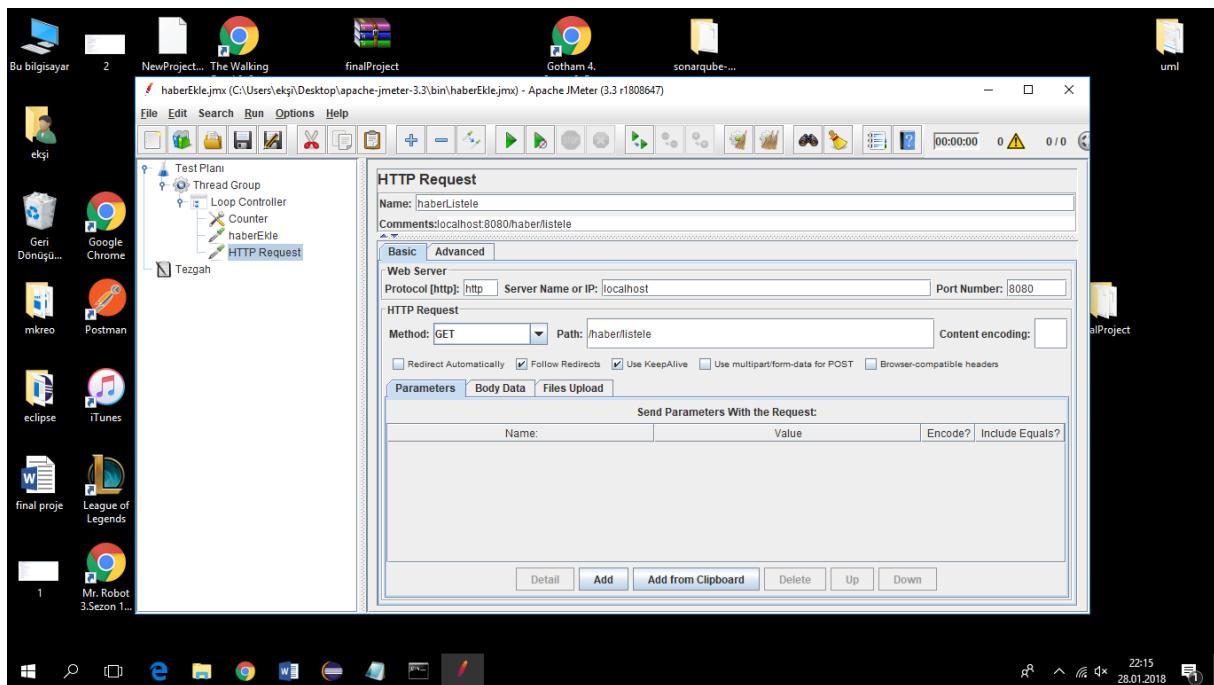
Parameters Body Data Files Upload

Send Parameters With the Request:

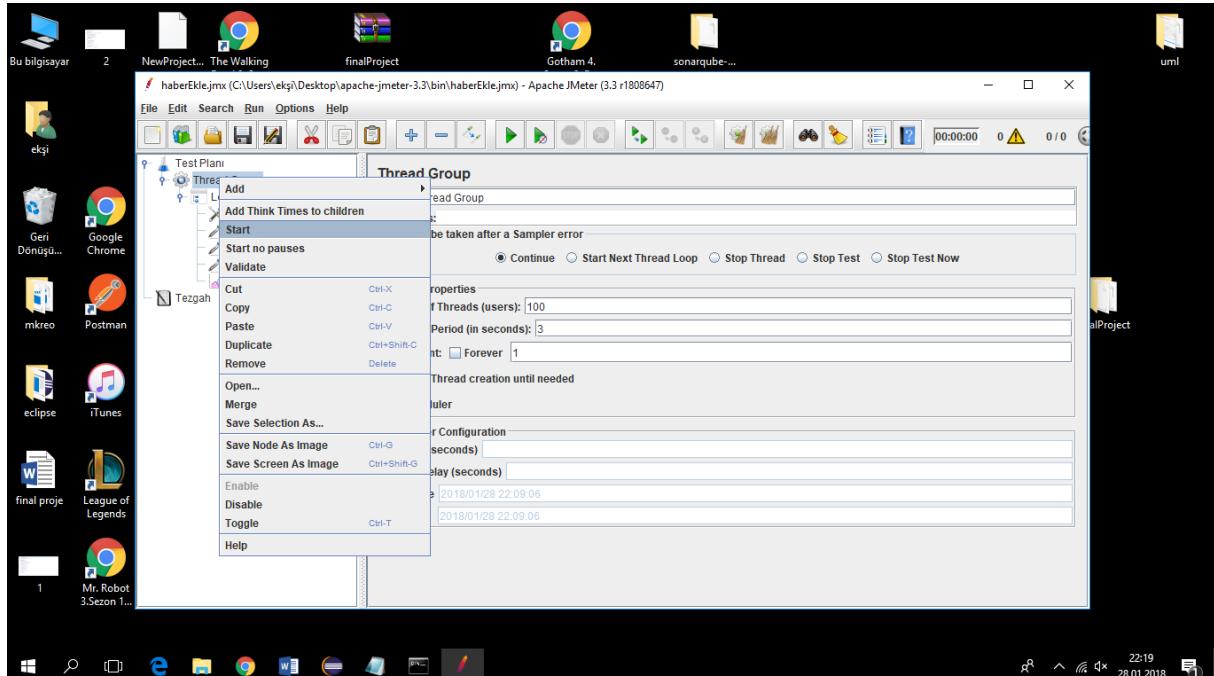
| Name: | Value | Encode?                  | Include Equals?                     |
|-------|-------|--------------------------|-------------------------------------|
| id    | {c1}  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Detail Add Add from Clipboard Delete Up Down

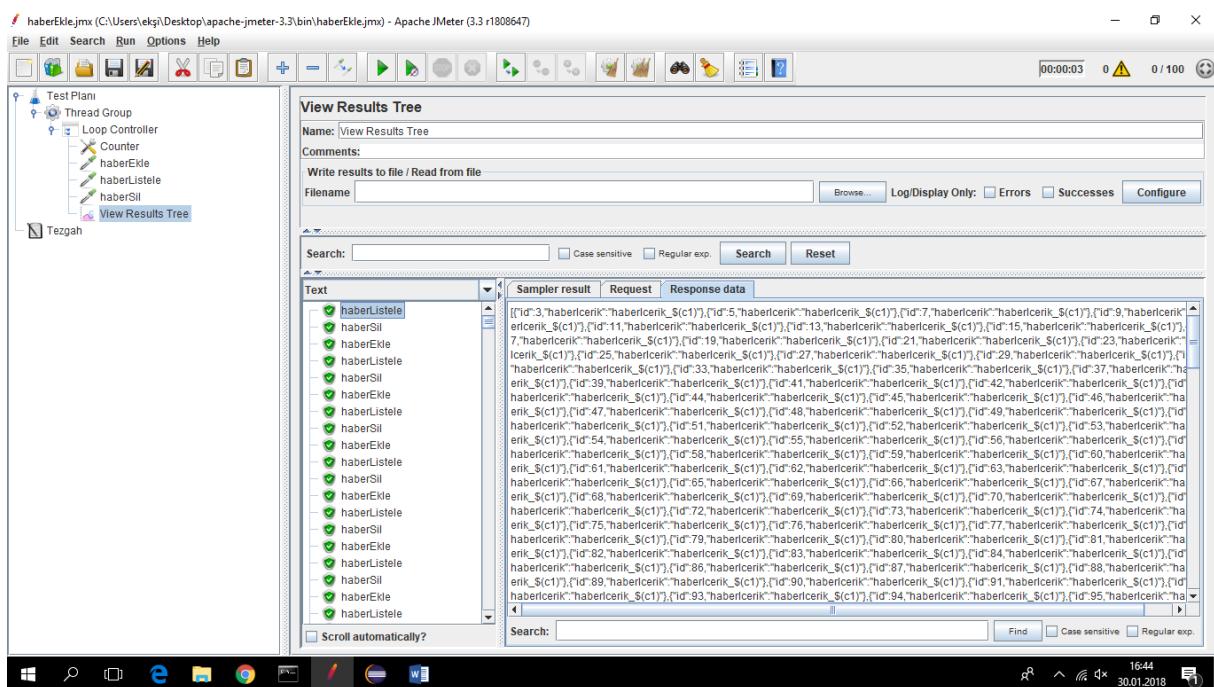
16:42 30.01.2018



Gerekli ayarlamalar yapıldıktan sonra test işlemi başlatılır.



Test sonucu başarılı:



haberEkle.jmx (C:\Users\ekg\Desktop\apache-jmeter-3.3\bin\haberEkle.jmx) - Apache JMeter (3.3 r1808647)

File Edit Search Run Options Help

Test Plan

Thread Group

Loop Controller

Counter

haberEkle

haberListele

haberSil

View Results Tree

Tezgah

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

Search:  Case sensitive  Regular exp

Text  Sampler result  Request  Response data

GET http://localhost:8080/haber/sil?id=42

GET data:

[no cookies]

Request Headers:

Connection: keep-alive  
Host: localhost:8080  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0\_151)

Raw  HTTP

16:44 30.01.2018

haberEkle.jmx (C:\Users\ekg\Desktop\apache-jmeter-3.3\bin\haberEkle.jmx) - Apache JMeter (3.3 r1808647)

File Edit Search Run Options Help

Test Plan

Thread Group

Loop Controller

Counter

haberEkle

haberListele

haberSil

View Results Tree

Tezgah

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only:  Errors  Successes

Search:  Case sensitive  Regular exp

Text  Sampler result  Request  Response data

GET http://localhost:8080/haber/sil?id=42

GET data:

[no cookies]

Request Headers:

Connection: keep-alive  
Host: localhost:8080  
User-Agent: Apache-HttpClient/4.5.3 (Java/1.8.0\_151)

Raw  HTTP

16:44 30.01.2018

