



T.C.

ÇUKUROVA ÜNİVERSİTESİ

MÜHENDİSLİK-MİMARLIK FAKÜLTESİ

STAJ DEFTERİ

ÖĞRENCİNİN	Bölümü	Bilgisayar Mühendisliği	
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	Adı, Soyadı	ÖRNEK İSİM	
	Okula Girdiği Yıl	2016	
	Bu Çalışmayı Kaçinci Devre Pratik Çalışması Olarak Yaptığı	1. DEVRE <input type="checkbox"/>	2. DEVRE <input checked="" type="checkbox"/>
Pratik Çalışmaya Başladığı Tarih	10.08.2020		
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<p>İşyeri veya Firmanın Adı ve Adresi</p> <p>İşyeri veya Firmanın adına defteri</p> <p>Tastik eden işyeri amirinin</p> <p>Ünvanı : Bil. Mtb. / Şirket Orası</p> <p>Adı : Mehmet YILDIRIM</p> <p>Diploma No : 12345678</p> <p>Oda Sicil No :</p>	<p>Yukarıda ismi yazılı ve fotoğrafı yapıştırılmış olan öğrencinin iş yerinizde iş günü Pratik Çalışma yaptırdan ve bu defteri kendisinin tanzim ettiğini beyan ve tastik ederim/201..</p>
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PRATİK ÇALIŞMALARI İNCELEME KOMİSYONUNUN KANAATİ

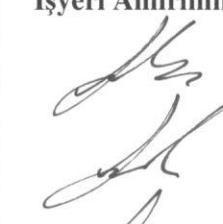
Yapılan pratik çalışma iş günlük devre çalışması olarak kabul		<u>Edilmişdir</u>
		<u>Edilmemiştir</u>
Tarih/..../201..	İsim ve İmza :	
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	İsim ve İmza :	

Bu belge Ç.Ü. Bilgisayar Mühendisliği bölümünden Arş. Gör. Dr. Barış ATA tarafından onaylanmıştır.

Doğrulama kodu: xxxxxxx

Doğrulama linki: <http://ceng.cu.edu.tr/belge.php>

PRATİK ÇALIŞMANIN GÜNLERE DAĞILMA ÇİZELGESİ

Öğrencinin Çalıştığı Günler Toplam İş Günü	Günlük Çalışma Saati Toplam Saat	Öğrencinin Çalıştığı Konular	
		İşyeri Amirinin İmzası	Öğrencinin Çalıştığı Konular
28/06/2021	9		General Information meeting about the company
29/06/2021	9		Assignment of trainings and Java Practice
30/06/2021	9		Java Practice
01/07/2021	9		Git & Github Tutorial
02/07/2021	9		AngularJS Tutorial
05/07/2021	9		Spring Framework
06/07/2021	9		Spring Framework
07/07/2021	9		Junit5 & Docker Tutorial
08/07/2021	9		Introduction To Ozdilek project
09/07/2021	9		Introduction to SAP Hybris
12/07/2021	9		Installation of the project
13/07/2021	9		Installation of the project
14/07/2021	9		Bug Fixes
26/07/2021	9		Bug Fixes
27/07/2021	9		Bug Fixes
28/07/2021	9		Bug Fixes
29/07/2021	9		Bug Fixes
30/07/2021	9		Bug Fixes
02/08/2021	9		Bug Fixes
03/08/2021	9		Bug Fixes


 İnomera Arge ve Bilişim Hizmetleri A.Ş.
 Rumeli Hisarı Mah. Bebek Yolu Sk

2/5106 Sarıyer/İST Tel: (0212) 287 01 66
 Sarıyer VD: 478 050 85 60

On our first day, a meeting was held for us to meet other interns and to be informed about the company. They also talked about what kind of process awaits us at this meeting.

Inomera

Inomera was established in 2008 to produce world-class software products and develop projects. Inomera works with valuable companies such as Turkcell, Vodafone, CK. Having a solid engineering in the fields of Java and mobile technology, and a deep experience in retail and telecommunication sectors, Inomera is also the Hybris (Commerce Cloud) business partner of SAP. Developing ready-made e-commerce solutions on the SAP Hybris platform, Inomera was deemed worthy of the SAP Partner Excellence Award for Fastest Implementation of Packaging Strategy in 2018. Inomera operates as an R&D centre and has a continuous growth momentum since its establishment. Inomera, one of the leading, dynamic and fastest developing technology companies in Deloitte Technology Fast50 and Deloitte EMEA Fast 500 in 2014, was also included in the Deloitte Technology Fast50 list in 2018 and 2019.

Their business partners:



intertech



It also has clients from many large companies. Some of them are Özدilek, Turkcell, Karaca, Koton, Starbucks, Enerjisa, LC Waikiki, FLO, n11.com, Avasar etc.

Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
1	Konusu : General Information meeting about the company	28/06/2021	Inomera Arge ve Ustası Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk 2 / 5 105 Şişli / IST Tel: (0212) 287 01 66 Faks: 478 050 85 60

Trainings through UDEMY were assigned by Inomera to help us prepare for the projects. They assigned us GitHub, Java, Spring Framework, Spring Core, Spring Boot, AngularJS, JUnit 5 and Docker tutorials.

I started with Java training. I actually had a basic Java background, but it was a pretty good tutorial to practice again. I watched this training for 2 days and tried to write the codes in the training myself.

To briefly summarize the course content, use of variables, loops, conditions, Arrays, Classes and Objects, Constructors, Inheritance, Packages, Interfaces, Public, Private, Protected, Polymorphism, Encapsulation, Casting, Using Generics, Reading Files, Exceptions, Enum Types, Recursion, Collections topics were mentioned. I'll put some code examples below.

Reading Files With File Reader:

```
FileReader fr = new FileReader(file);
br = new BufferedReader(fr);
String line;
while( (line = br.readLine()) != null ) {
    System.out.println(line);
}
```

Getting User Input:

```
Scanner input = new Scanner(System.in);
System.out.println("Enter a floating point value: ");
double value = input.nextDouble();
System.out.println("You entered: " + value);
```

Methods:

```
void speak() {
    for(int i=0; i<3; i++) {
        System.out.println("My name is: " + name + " and I am " + age + " years old ");
    }
}
void sayHello() {
    System.out.println("Hello there!");
}
```

Sayfa No	Çalışmanın	KONTROL
2	Konusu : Assignment of trainings and Java practice	Inomera Arge ve Bilişim Hizmetleri A.Ş Rumeli Hisarı Mah. Bebek Yolu Sk 29/06/2021 2 / 5 105 Sarıyer/İstanbul Tel: (0212) 287 01 66 Sarıyer V.D. 478 050 85 60

Handling Exceptions:

```
try {
    FileReader fr = new FileReader(file);

    System.out.println("Continuing ....");
} catch (FileNotFoundException e) {
    System.out.println("File not found: " + file.toString());
}
System.out.println("Finished.");
```

Enum:

```
public enum Animal {
    CAT("Fergus"), DOG("Fido"), MOUSE("Jerry");

    private String name;
    Animal(String name) {
        this.name = name;
    }
    public String getName() {
        return name;
    }
    public String toString() {
        return "This animal is called: " + name;
    }
}
```

Recursive:

```
private static int factorial(int value) {
    if(value == 1) {
        return 1;
    }
    return factorial(value - 1) * value;
}
```

Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
3	Konusu : Java Practice	30/06/2021	Inno Era Arge ve Bilişim Hizmetleri A.Ş Rumeli Hisarı Mah. Bilek Yolu Sk 2/5 105 Sarıyer /İstanbul Tel: (0212) 287 01 66 Saray V: 0537 78 050 85 60

I continued my education with Github training. It was a pretty comprehensive GitHub tutorial. I will add my notes below. I tried it all by typing it myself in the console.

For Git:

```
1. git init
2. git status (kontrol etmek için)
3. git add filename.uzanti // git add . -> dersen bütün fileları alır
//dosya silersek git add . yaparsak tekrar yenilemeliyiz!!!
Silmek için :
git rm filename.uzanti (eğer silmezse git rm -f filename.uzanti -f -> force) #Dosyayı da siler
Eğer dosyayı silmek istemiyorsak sadece gitten çıkarmak istiyorsak :
git rm --cached file.txt
Yollamak istediğimizde:
1. git commit
2. git config --global user.email "baleynad@gmail.com"
3. git config --global user.name "bsrdrk"
4.git commit -m "Initial commit" ////////////////////////////////////////////////////////////////// mesaj için sonra mesajı yazıyoruz
5. git log ////////////////////////////////////////////////////////////////// kontrol için
git log --oneline // tek satırsa görmek için

///// eğer geçmişteki bir commite gitmek istiyorsak
git log dierek commit numarasını alıp
git checkout commitnumb -> şeklinde yapabiliriz
/// son commite gitmek istersek
git checkout master
/// eski dönmek için
git revert commitnumb // resete göre güvenli
/// geçmiş dönüyor ve siliyor son commitleri yanı seçtiğimiz commite kadar alıyor// soft mixed hard
git reset commitnumb
/// gitignore için * yorum için # koyarak yorum yazabiliyoruz
echo $null >> .gitignore -> dierek önce oluşturuyoruz
daha sonra bu dosyanın içine gelip ignore etmek istediğimiz dosyaları : filename.uzanti şeklinde
yazıyoruz.
git rm -r --cached . // hepsini cache'e taşıyoruz
hepsini ignore etmek için Foldername/* şeklinde kullanabiliriz
///// Branch oluşturmak için
# git branch branchname -> şeklinde oluşturulabilir YA DA
# git checkout -b branchname -> böyle oluşturursak oluşturup bu dala geçer
///// Branchları listelemek için
# git branch -a -> bulunan branch yeşil olur
// Branch silmek için
# git branch -d branchname
/// merge için
# git merge branchname -> bulunan branch ile adı verilen branch mergelenir
```

For Github:

```
# Github'ta repository oluşturuyoruz
# terminalde dosyaya gidiyoruz
## git init -> başlattık
## git remote add origin URLfromGithubRepo
## git remote -v -> yapıtlaklara bakabiliriz ve linkleri alabiliriz (fetch and push)

///// locale alıyoruz
# git pull origin master
/// pushlamak için
# git push -u origin master

/// branch silmek için
# git push origin --delete err01
```

Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
4	Konusu : Git & Github Tutorial	01/07/2021	Inomera Argeve Bilgi Hizmetleri A.Ş Rumeli Mah. Marmara Bebek Yolu Sk 2/5 10530 İstanb.İST Tel: (0212) 287 01 66 Faks: 0212 287 01 66 E-posta: info@nomera.com.tr Web: www.nomera.com.tr

Angular tutorial was entry level. Introducing Angular, we briefly touched on its features and then made a small grocery list application. Topics such as adding items to the list, updating the list, deleting items from the list, and routing were discussed. I will put a few examples from inside the application.

Angular is a development platform, built on TypeScript. Angular is an application design framework and development platform for creating efficient and sophisticated single-page apps.

There are 2 controllers and a service in our Grocery List application.

GroceryListItemController

HomeController

GroceryService

Loop in Angular order by date:

```
<ul class="list-group">
  <li ng-repeat="item in groceryItems | orderBy: '-date'" class="list-group-item text-center clearfix">
    <tb-grocery-item></tb-grocery-item>
  </li>
</ul>
```

Calling the function:

```
<button type="button" class="btn btn-sm btn-danger pull-right" ng-click="removeItem(item)">
  <span class="glyphicon glyphicon-trash"></span>
</button>
```

Conditions:

```
<button type="button" class="btn btn-sm btn-success pull-left" ng-click="markCompleted(item)">
  <span class="glyphicon" ng-class="item.completed ? 'glyphicon-check' : 'glyphicon-unchecked'></span>
</button>
```

Routing:

```
var app = angular.module('groceryListApp', ["ngRoute"]);

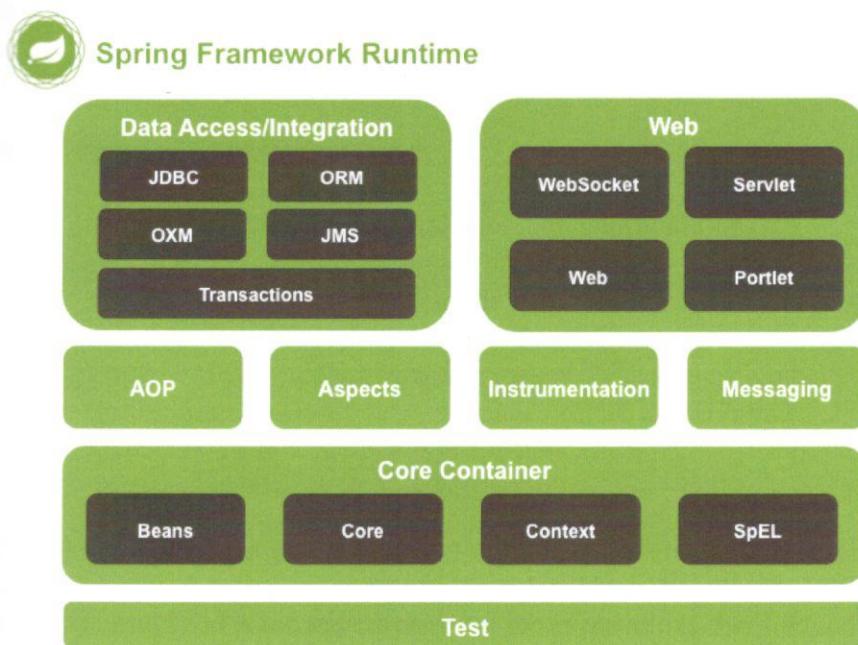
app.config(function($routeProvider){
  $routeProvider
    .when("/",{
      templateUrl: "views/groceryList.html",
      controller: "HomeController"
    })
    .when("/addItem",{
      templateUrl: "views/addItem.html",
      controller: "GroceryListItemController"
    })
    .when('/addItem/edit/:id',{
      templateUrl: 'views/addItem.html',
      controller: 'GroceryListItemController'
    })
    .otherwise({
      redirectTo: "/"
    })
});
```

Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
5	Konusu : AngularJS Tutorial	02/07/2021	 Inomera Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. İshak Yolu Sk 2/5 105 Sarıyer /İstanbul Tel: (0212) 287 01 67 Sarıyer /İstanbul 478 050 85 60 

Spring Framework took me 2 days to work.

We can think of Spring as a "frameworks of framework" because it supports the use of frameworks such as Struts, Hibernate, Tapestry, EJB, JSF.

The following image actually explains the Spring Framework quite nicely.



Core Container

Core and Beans modules in Core Container provide Inversion of Control (IoC) and Dependency Injection(DI), the most basic feature of Spring Framework. DI is expressed as removing dependencies. IoC is the transfer of control from the application to the framework (Spring).

AOP(Aspect Oriented Programming)

It saves us from nested and repetitive code blocks and makes the code cleaner, more flexible, manageable and understandable.

Data Access/Integration

This layer allows to interact with the database. (JDBC,ORM)

Sayfa No	Çalışmanın Konusu :Spring Framework	Yapıldığı Tarih 05/07/2021	KONTROL <i>inomera</i> Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk 2/5 106 Şenyeri / T: (0212) 287 01 66 S: (0212) 28 050 85 60
6			

Web(MVC/Remoting)

This layer contains Web, Web-Servlet and Web-Portlet modules. These modules enable web application creation.

Test

This layer provides testing with JUnit.

Advantages of Spring framework

- Spring supports both xml and annotation configurations.
- Flexible
- It is more productive because the spring application can integrate with other Spring-based applications.
- The use of dependency injection makes the easy development of JavaEE.
- Spring framework provides templates for JDBC, Hibernate, JPA etc. technologies. So there is no need to write too much code.

In order to be able to test it myself, I organized a web application with the features I chose from <https://start.spring.io/> and downloaded it. Then I downloaded SpringToolSuite4 to make it easier. And I did some experiments on the applications that I edited and created in order to understand spring.

```
ProductCont... IndexControl... SpringmvcApp... SpringmvcApp... Springcore1A... Spr
1 package com.naturalprogrammer.springcore1.controllers;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @Controller
6 public class GreetingController {
7
8     private HelloWorldService helloWorldService;
9     @Autowired
10    public void setHelloWorldService(HelloWorldService helloWorldService) {
11        this.helloWorldService = helloWorldService;
12    }
13
14    public String sayHello() {
15        String greeting = helloWorldService.getGreeting();
16        System.out.println(greeting);
17        return greeting;
18    }
19
20
21
22
23
24 }
```

Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
7	Konusu : Spring Framework	06/07/2021	 Inomera Arge ve Bülüm Hizmetleri AŞ Rumeli Hisarı Mah. Çubuk Yolu Sk. 2/5 106. Sarıyer / İST Tel: (0212) 287 01 86 Sangır VD: 478 050 85 60

I continued my education with docker and JUnit5. It was an introductory course.

Junit5

Junit is a framework for unit testing. Advantages are:

- Separate tests from code, no need for main() methods.
- Keep a growing library of tests.

We write it by prefixing it with @Test. For example:

```
public class AssertEqualsTheory{  
    @Test  
    public void myTestMethod(){  
        assertEquals(2,2); //it returns true  
        System.out.println("here");  
    }  
}
```

Test methods such as assertNotEqual(), assertTrue(), assertFalse(), @BeforeAll, @AfterAll are also mentioned in this course.

Docker

Docker is a software platform that allows you to quickly build, test, and deploy your applications. Docker works by providing a standard way to run your code. Docker is an operating system for containers. Similar to how a virtual machine virtualizes the server hardware (eliminating the need to directly manage it), containers virtualize a server's operating system. Docker is installed on every server and provides simple commands you can use to build, start, or stop containers. Some of my notes:

```
<<<Genel Bilgi>>>  
  
Genel bilgi olarak FROM komutu ile bir base image dosyasını referans olarak belirliyoruz. ENV komutu ile genel değişkenlerin atamasını yapıyoruz, RUN komutu ile container ile birlikte build zamanında yapılması gereken tüm işlemleri tanımlıyoruz. EXPOSE ile sanal docker network'inde kullanılacak portları tanımlayıp en son olarak CMD komutunda container çalıştırıldığında işleme alınacak komutları tanımlıyoruz.  
  
<<<>>>  
docker image pull nginx:latest  
docker image -->>> içindeki imageleri gösteriyor  
docker container run -itd --name web-server-nginx -p 8080:80 nginx:latest  
docker ps -a -->>> listelemek için containerları  
  
docker build -t img_from . -->>> dockerfile yazdıktan sonra  
docker images -->>> diyerek bakabiliriz  
docker run -itd --name cont_run-env imgname -->>>  
  
docker exec -it cont_run-env bash  
///Search repo  
docker search python:3.6  
///Search yaparken filtre koymak  
docker search --filter "is-official=true" registry
```

Sayfa No	Çalışmanın İsmi	Yapıldığı Tarihi	KONTROL
8	Konusu : Junit5 & Docker Tutorial	İnomera Rumeli Hisarı Mah. 3. Çubuk Yolu Sk. 2/5 106 Sarıyer İSTANBUL (0212) 287 01 66 Sarıyer V.Ş. 478 050 85 60	

We were informed about the project we will be working on. It was explained which technologies were used in this project.

OZDILEK PROJECT

Ozdilek project is an e-commerce web application created using the SAP Hybris. In this project, sales are made in two parts, namely Market and Store. Many transactions such as purchase, cancellation, return can be made. There is also Customer Support and Backoffice. Companies can manage to start, cancel and return orders from Customer Support. These features come thanks to SAP. If we want, we can also customize and add the features we want.

Sipariş Numarası	Müşteri	Oluşturulma Tarih/Saat	Mağaza	Satış Yeri	Statü	Zaman Aralığı
00020000	Büşra - baleynad@gmail.com	4 Agu 2021 17:42:29	Gecit Store	Web	IN_PROGRESS	Gecit-05.08.2021-10:00-12:30
00017000	Büşra - baleynad@gmail.com	30 Tem 2021 13:59:35	Gecit Store	Web	WAIT_FOR_CANCEL	Gecit-02.08.2021-13:00-15:30
00015003	Büşra - baleynad@gmail.com	27 Tem 2021 11:49:08	Gecit Store	Web	READY	Gecit-30.07.2021-13:00-15:30
00015003	Büşra - baleynad@gmail.com	27 Tem 2021 11:49:08	Gecit Store	Web	CANCELLED	Gecit-30.07.2021-13:00-15:30
00015000	Büşra - baleynad@gmail.com	27 Tem 2021 11:44:00	Gecit Store	Web	READY	Gecit-30.07.2021-13:00-15:30
00015000	Büşra - baleynad@gmail.com	27 Tem 2021 11:44:00	Gecit Store	Web	CANCELLED	Gecit-30.07.2021-13:00-15:30

For example, I can view the status, Store, Place of Sale, Delivery Date of an order placed by users on the Customer Support screen. I can also view an order in more detail by clicking on it. I can also make changes to it.

The screenshot shows the SAP Hybris Customer Support interface. At the top, it displays the order number "00020000 - Wed Aug 04 17:42:29 EET 2021 - 98.6 - IN_PROGRESS". Below this, there are tabs for ORDER DETAILS, CONSIGNMENTS, PAYMENT TRANSACTIONS, ORDER HISTORY, and FRAUD REPORT. The ORDER DETAILS tab is selected. Under ORDER INFORMATION, it shows the customer information: "Büşra - baleynad@gmail.com" and "Created Date/Time: 4 Agu 21 17:42:29". The Order Status is "IN_PROGRESS" and the Delivery Mode is "free-standard-shipping". The Billing Address and Shipping Address both show placeholder text "aaaaaaa, BUR...". Under LINE DETAILS, there is a table with four entries, each showing a product code, name, currency (TRY), item price, quantity, and total price. The products listed are Levrek (400/600 Gr Kg), Taft Saç Spreyi 250 ML No 5. Power Kaşmir Dokunuşu, Nivea Hair Style Saç Spreyi Hacim Verici 250ML, and Mini Sofra.

Sayfa No	Çalışmanın Yapıldığı Tarih	KONTROL
9	Konusu : Introduction To Ozdilek project	Arge ve Bilişim Hizmetleri A.Ş Rumeli Hisarı Mah. Bebek Yolu Sk. 2 / 5 106 Şariyer / İST / Tel: (0212) 287 01 66 Sipariş No: 478 050 85 60

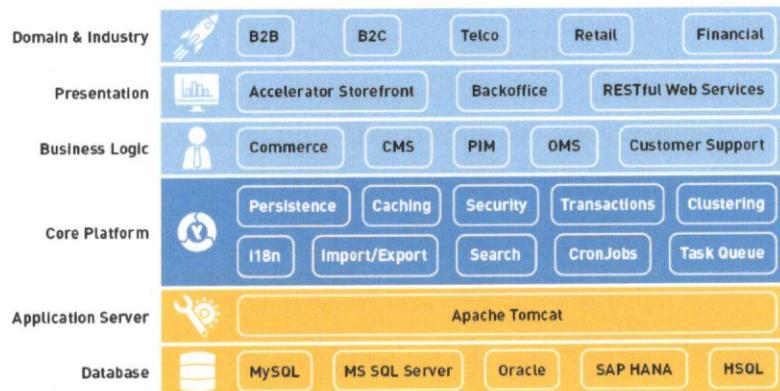
SAP Hybris

Hybris is an e-commerce platform that enables its consumers to sell effectively in both B2B and B2C markets. In recent years, the Hybris platform has evolved significantly and now positions itself as an “omnichannel commerce solution that assists customer engagement.” Hybris core is an e-commerce platform, but several features stand out that allow you to develop a complete omnichannel solution on it.

Hybris is a Java-based application and is typically hosted as part of a 3-tier architecture consisting of web, application and database tiers. Hybris works well in a virtualized environment that provides control over server resources.

Customizing and integrating enterprise software with core business systems has often been challenging. Hybris sets itself apart by being easy to use and deploy. With the support of SAP, Hybris offers the perfect front-end platform to compliment enterprise ERP. When it comes to a modern e-commerce platform for midsize enterprise workloads, Hybris has all the equipment to lead the way.

Hybris Architecture



From a business perspective, SAP Hybris Commerce is divided into individual packages such as Commerce, Content, Channel and Orders. These packages are bundles of features combined for a specific range of functionality. All these packages are based on the more basic functionality provided by the Hybris Platform. While the Hybris Platform can run without any packages, no packages can be run without the Hybris Platform. Packages contain individual modules, also called extensions. Extensions are written by Hybris or your project's implementation partner. Extensions written by Hybris provide standardized functionality and are supported by SAP. If you write an extension, you have to maintain them yourself, but you are free to implement any business functionality you need. Extensions that are part of the Hybris Platform are also called core extensions. On top of these core extensions, the platform includes several Hybris software such as the build framework and pre-packaged third-party software such as Apache Tomcat.

Sayfa No	Çalışmanın Konusu : Introduction to SAP Hybris	Yapıldığı Tarih 09/07/2021	KONTROL Inomera
10			Inomera Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Sebahat Yolu Sk. 2/5 106 Şariyer/İST. Tel: (0212) 287 01 66 Satiyel: 0534 478 050 85 60

The installation of the project took 2 days. First we installed Java 11. We then downloaded the SAP Hybris version 1905. Then we were given access permissions to the project from Bitbucket by our administrator. I ran the following commands in order for install the Ozdilek project.

```
git init  
git remote add origin https://bsrdrk@bitbucket.org/path  
git fetch --all  
git reset --hard origin/development
```

Then I went to bin/platform and ran the *setantenv.bat* command. I ran the *ant clean all* command right after, but we got an error here. Since the operating system of the computers used in the company is MacOS and my computer's operating system is Windows, we could not understand this error before. But later we realized that there was a problem because the language of my computer's operating system was Turkish. To solve this error, we added the following to Control Panel -> System and Security -> System -> Advanced System Settings -> Environment Variables:

JAVA_HOME	C:\Program Files\Java\jdk-11.0.11
JAVA_TOOL_OPTIONS	-Dfile.encoding=UTF-8 -Duser.language=en -Duser.language=US

Then, after setting the tomcat paths in the project according to my own computer, I ran the following commands and got the server up.

```
ant clean all  
ant initialize  
hybrisserver.bat
```

Then I did the necessary setups to install the frontend. They asked us to install NodeJS, AngularJS and yarn.

```
npm install -g @angular/cli  
npm install --global yarn
```

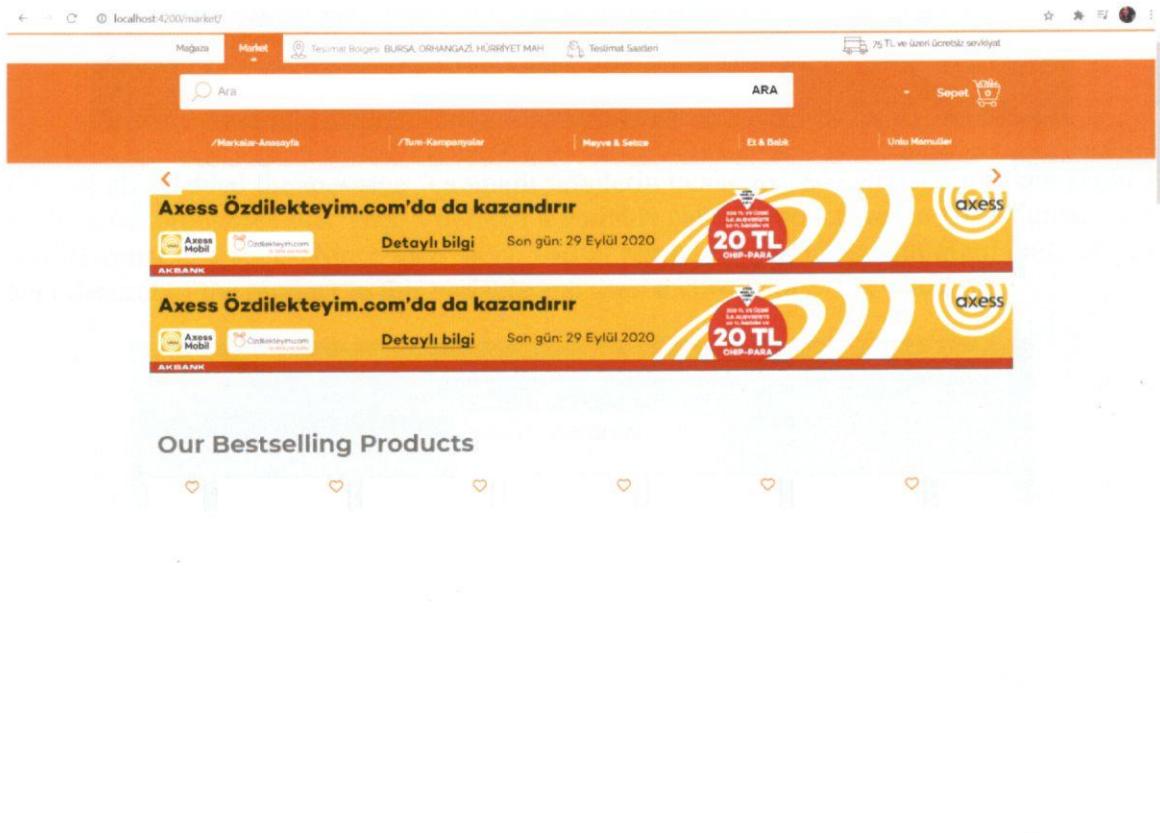
Sayfa No	Çalışmanın	Yapıldığı Tarih	KONTROL
11	Konusu : Installation of the project	12/07/2021	Inomera Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk 2/5 106 Sarıyer / İST. Tel: (0212) 287 01 66 Sarıyer VİB: 278050 85 60

After making the necessary installations, I ran the `yarn install` command and downloaded the frontend. It gave a small error here too, but we solved it faster. Our project works on localhost as follows.

Backoffice -> localhost:9002/backoffice
Hybris Administration Console ->localhost:9002
Frontend->localhost:4200

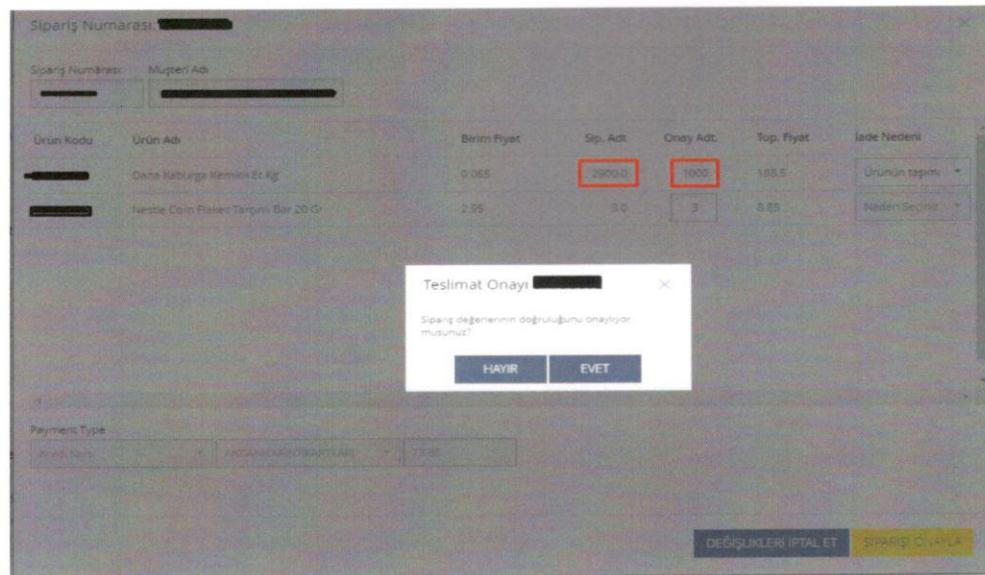
I ran one impex from the Hybris Administration Console and then went to the backoffice and gave it the name of the second and last impex it needed to run, and got it all running. This took a while.

I downloaded IntelliJ IDEA Ultimate. Then I registered with my school email address. We write the backend of our project using IntelliJ IDEA and the frontend using Visual Studio Code.

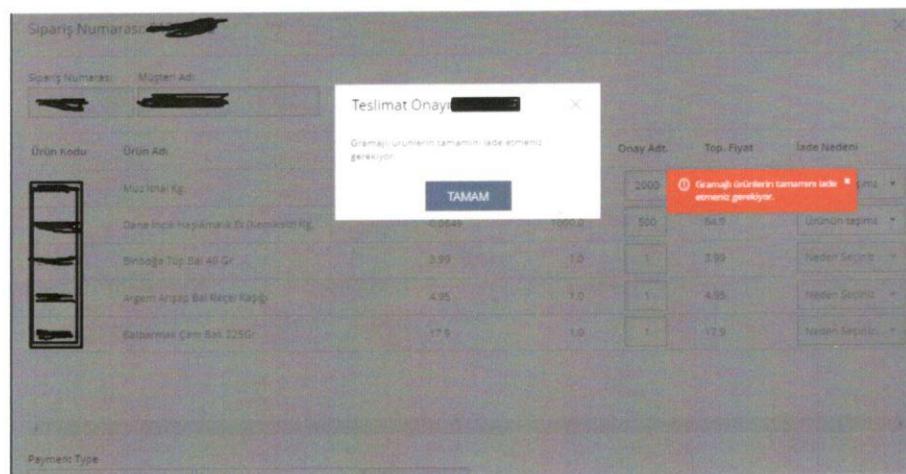


Sayfa No	Çalışmanın Konusu : Installation of the project	Yapıldığı Tarih 13/07/2021	KONTROL  Inomera Arge ve BKS. Uzmanları A.Ş. Rumeii Hisarı Mah. 1. Blok Yolu Sk. 2 / 5 106 Şişli / İSTANBUL (0212) 287 01 66 Savcilar M.D. 478 050 85 60
12			

The problem is the same amount of product must be returned when receiving returns on weighted products. However, in the backoffice, refund approval could also be made for partial refunds. For example, if the product is 1 kilogram, the return of 500 grams should not be allowed, and the whole must be returned.



First of all, I added the message "Gramajlı ürünlerin tamamını iade etmeniz gerekmektedir." to the label properties file. Then I defined a variable called `productUnit` to the required class and its getter and setter. Since there is no partial refund for products with gram units only, I kept the unit of the product in this variable and used this variable while checking.



Sayfa No	Çalışmanın Konusu : Bug Fixes	Yapıldığı Tarih 14/07/2021	KONTROL <i>Inomer</i>
13		İra Arge ve Bilisim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bosphorus Sk 106 Sanayi IST 34340 (0212) 287 01 66 Sarıyer VİZYON 050 85 60	

The problem is "repeatable" button should appear for canceled products on the market order detail page.

I solved the problem by removing the previously made check in the order detail populator.

```

53 53+
54  -     if (OrderStatus.CANCELLED.equals(source.getStatus())) {
55  -         target.setRepeatable(false);
56  -     } else {
57  -         target.setRepeatable(true);
58  -
54 +
55 +     target.setRepeatable(false);
56 +

```

Sipariş Detayları

Sipariş Numarası: [REDACTED] Ürün Sayısı: 3 Sipariş Tarihi: 8 Temmuz 2021 Perşembe 17:03

Teslimat Tarihi ve Saati: 11.07.2021 / 10:00 - 12:30

TEKRAR AL

Sayfa No	Çalışmanın Konusu : Bug Fixes	Yapıldığı Tarih 26/07/2021	KONTROL <i>inomera</i> inomera Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bektaş Yolu Sk 2/5 106 Sarıyer / İST / (0212) 287 01 66 Sarıyer / İD: 478 050 85 50
14			

For orders whose payment is selected as wire transfer, the status of the order appears as "Received" when viewing the order, but it should appear as "Payment Awaiting".

First of all, I wrote the necessary messages in the required properties files.

```
11 -  
11 + order.detail.status.waitingpayment.pcs=\u0130\u00e7in \u00d6deme bekleniyor
```

I then added the necessary controls. If the payment option is selected as remittance, but the remittance has not been made yet, then I have corrected it to say "Ödeme Bekleniyor", and if the remittance has been received, "Alındı".

```
204 -  
205 -    }else if (DistributedPriceStatus.READY.equals(dpm.getStatus())){  
206 -        if (!ozdOrderStrategies.isReadyStatusForOrder(dpm.getOrderEntry().getOrder())){  
207 -            if (orderDetailsMap.containsKey(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITING_PCS))){  
208 -                if (DistributedPriceStatus.READY.equals(dpm.getStatus())){  
209 -                    if (OrderStatus.WAIT_FOR_SEND_PAYMENT_LOG.equals(dpm.getOrderEntry().getOrder().getStatus())) {  
210 -                        if (orderDetailsMap.containsKey(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITINGPAYMENT_PCS))) {  
211 -                            quantity = orderDetailsMap.get(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITINGPAYMENT_PCS));  
212 -                            if (dpm.getOrderEntry().getUnit().getCode().equals(PIECES)){  
213 -                                orderDetailsMap.put(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITINGPAYMENT_PCS), quantity + dpm.getQuantity());  
214 -                            }else {  
215 -                                orderDetailsMap.put(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITINGPAYMENT_PCS), quantity + 1);  
216 -                            }  
217 -                        }else if (!ozdOrderStrategies.isReadyStatusForOrder(dpm.getOrderEntry().getOrder())){  
218 -                            if (orderDetailsMap.containsKey(localization.getLocalizedString(OzdilekFacadesConstants.ORDER_DETAIL_STATUS_WAITING_PCS))){  
219 -  
220 -                                if(ConsignmentStatus.READY.equals(consignment.getStatus())){  
221 -                                    if (OrderStatus.WAIT_FOR_SEND_PAYMENT_LOG.equals(consignment.getOrder().getStatus())) {  
222 -                                        return Localization.getLocalizedString(CONSIGNMENT_WAIT_FOR_PAYMENT_DISPLAY);  
223 -                                    }  
224 -                                }  
225 -                            }  
226 -                        }  
227 -                    }  
228 -                }  
229 -            }  
230 -        }  
231 -    }  
232 -}
```

Sayfa No	Çalışmanın Konusu : Bug Fixes	Yapıldığı Tarih 27/07/2021	KONTROL Inome Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu SK 2 / 5 105 Sarıyer / İSTANBUL (0212) 287 01 66 Sarıyer Yolu 105 050 85 60
15			

The problem is when the product quantity is entered for weighted products, if a missing or excessive amount is entered, an explanation text is required in the backoffice. In the desired development, if 0 is entered because only the weighted product cannot be found, an explanation is required.

Ürün Kodu	Ürün Adı	Birim Fiyat	Sip. Adeti	Top. İskonto	Onay Adeti	İskonto	Top. Fiyat	İskonto Açıklaması	İptal Nedeni
██████	Levrek (400/600 Gr) Kg	0.0299	1000.0	0.0	900	0	29.9	İskonto Açıklam	
██████	Taft Saç Spreyi 250 Ml No 5 Power Kaşmir Dokunuşu	18.95	1.0	0.0	1	0	18.95	İskonto Açıklam	

For example, if they have 900 grams of sea bass, this should not be considered a cancellation, so there is no need to enter a reason for cancellation. If they do not have any sea bass left, then they can enter a reason for cancellation by typing 0 in the "Confirmation Quantity" section. It should be like this only for weight products. For example, if 3 pieces of hair spray were requested and 2 pieces were approved, then 1 piece would be canceled and the reason for cancellation must be entered here.

Therefore, if it is a weight product and the approval number is entered incompletely (For example, 1 kilo sea bass but 900 grams is entered), I corrected the cancellation reason label as readonly, if it is a weight product and the approval number is 0, then the reason for cancellation is written.

Sayfa No	Çalışmanın Konusu	Yapıldığı Tarih	KONTROL
16	Konusu : Bug Fixes	28/07/2021	İnomer Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk. 2/5 106 Sarıyer / İstanbul (0212) 287 01 66 Sarıyer İDO 478 050 85 60 

When the user wants to return or exchange in the store section, "Other" must be added to the reason for returning the order.

First, I added the Other option to the common.properties and local.properties file.
Then I added it to the ozdilekcore-items.xml file.

I also added it to the CancelReason list under the Facades files.

```
for (String reasonsCode : reasonsCodes) {
    try {
        RefundReason reason = RefundReason.valueOf(reasonsCode);
        if (reason != null) {
            ReasonData reasonData = new ReasonData();
            reasonData.setCode(reason.getCode());
            reasonData.setName(enumerationService.getEnumerationName(reason, i18NService.getCurrentLocale()));
            reasons.add(reasonData);
        }
    } catch (Exception e) {
        LOG.error("Reason Not Found! Reason Code: " + reasonsCode);
    }
}
```

Finally, I added Other to the reason impex file. After this fix, if users cancel or return something, the "Other" option is among the reasons.

Sayfa No	Çalışmanın Kontrol
17	Konusu : Bug Fixes Yapıldığı Tarih : 29/07/2021 nomera Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Babek Yolu Sk. 2/5 106 Sarıyer/İstanbul Tel: (0212) 287 01 66 Sarıyer İD: 478 050 85 60

The problem is the prices of the weighted products were displayed in grams in the Customer Support backoffice. However, since this was thought to cause confusion, prices were requested to be displayed in kilograms. For example, if the kilogram of the product is 69 TL, it appears as 0.069 in the Customer Support backoffice.

Birim Fiyat	Sipariş Adeti	Toplam Fiyat
0.0259	400.0	10.35
0.0299	2400.0	71.79
0.02895	6800.0	199.51
0.02995	9000.0	269.22
33.9	1.0	33.86

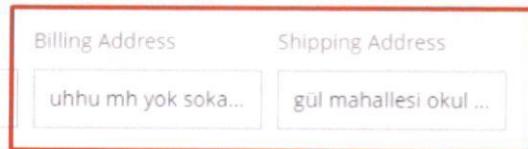
While solving this, I didn't want to change the unit price because we are calculating in grams, so I first checked whether the unit of the product is grams where there are indications. Then I used unit price * 1000 for gram units.

```

if(SalesUnit.GRAM.getCode().equalsIgnoreCase(entry.getUnit().getCode())){
    orderEntryApproveDto.setUnitPrice(productValuesStrategy.getFormattedPrice(entry.getUnit(), dpm.getBasePrice()) * 1000);
} else{
    orderEntryApproveDto.setUnitPrice(productValuesStrategy.getFormattedPrice(entry.getUnit(), dpm.getBasePrice()));
}
    
```

Sayfa No	Çalışmanın Konusu : Bug Fixes	Yapıldığı Tarih 30/07/2021	KONTROL <i>inomera</i> Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk 2/5 106 Sarıyer/İstanbul Tel: (0212) 287 01 66 Sarıyer/İstanbul Tel: 478 050 85 60
18			

Billing Address does not appear on the Consignment screen in store orders, but it appears as follows in grocery shopping. In store shopping, only the Shipping Address appears. But they want the billing address to appear as well.



First I created an AttributeHandler for the Billing Address. I implemented this class from DynamicAttributeHandler. Here we return the payment address of the user. Then I added this AtributeHandler as bean.

I also added to config.xml file:

```
<editorArea:attribute qualifier="billingDisplayAddress" readonly="true"/>
```

Then I added to ozdilekfulfilmentprocess-items.xml file :

```
<attribute qualifier="billingDisplayAddress" type="Address">
    <modifiers read="true" write="false"/>
    <persistence type="dynamic" attributeHandler="billingDisplayAddressAttributeHandler"/>
</attribute>
```

In addition, some of the nomenclatures were in Turkish and some in English. I added the Turkish versions of the expressions on the consignment screen to the backoffice local file and added both Turkish and English for billing addresses.

After performing these operations, the expressions on the Consignment screen are now in a more beautiful language (For example, "Invoice Address" if Turkish is selected, "Shipping Address" if English is selected). In addition, the Billing Address for the store has been added to the Consignment screen.

Sayfa No	Çalışmanın Kontrol
19	Konusu : Bug Fixes
	Yapıldığı Tarih 02/08/2021

The problem is the order with wait_for_cancel status appears as preparing status on the order detail page on the frontend.

First of all, I wrote the necessary messages in the required properties files. For example:

```
order.detail.status.waitforcancel.pcs=\u0130ptal Onay\u0131 Bekleniyor
```

Then I did the necessary checks. If the status of the order was Wait_for_cancel, it would enter the else condition directly because this condition was not added before, and therefore it would appear as "Preparing". Because the code structurally checks for an error first, with conditions, and then considers it as preparing if it does not find an error. That's why I added a "Waiting for Cancellation Confirmation" message above if the status is wait_for_cancel.

İptal Onayı Bekleniyor. (5)

Ürün	Adet / Kg	Toplam Fiyat
 Denk Sıvı Sabun Aroma-Terapi 400ML Alternatif İstiyorum	1	2,50 TL
 Mini Sofra Alternatif İstiyorum	1	5,95 TL
 Taft Saç Spreyi 250 ML No 5 Power Kasmir Dokunuşu Alternatif İstiyorum	1	18,95 TL
 Levrek (400/600 Gr) Kg Alternatif İstiyorum	1,0	29,90 TL

Sayfa No	Çalışmanın Konusu : Bug Fixes	Yapıldığı Tarih 03/08/2021	inor KONTROL
20			Arge ve Bilişim Hizmetleri A.Ş. Rumeli Hisarı Mah. Bebek Yolu Sk 2/5 106 Sarıyer, İstanbul (0312) 287 01 66 Sarıyer (0312) 78 050 85 60