

**LAPORAN PRAKTIKUM**  
**TEKNOLOGI CLOUD COMPUTING**  
**PERTEMUAN KE – 05**



Disusun Oleh :

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2021/2022

# BAB I

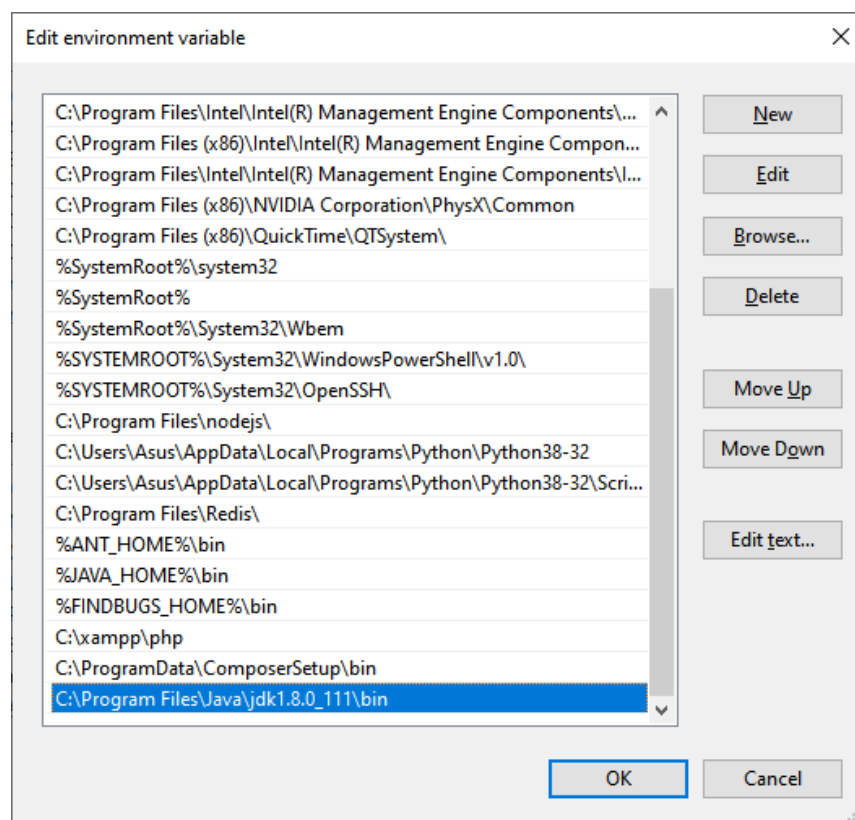
## Business Process As A Service

### PEMBAHASAN

#### Latihan

##### 1. Menginstall apache forbiz

- ✚ Sebelum menginstall apache ofbiz , terlebih dahulu kita melakukan installasi Java, dalam hal ini saya sudah pernah menginstall Java dan sudah memasukkan pathnya dalam environment variable.



- ✚ Kemudian klik OK untuk menyimpan perubahan.
- ✚ Setelah proses installasi Java berhasil, langkah berikutnya adalah menginstall "Greadle". Untuk mendownload greadle dapat dilakukan melalui link ini <https://services.gradle.org/distributions>
- ✚ Berikutnya yaitu menyiapkan tempat untuk mengekstrak file distribusi dan menyimpan file library ke lokasi yang sama seperti Java. Dengan cara :  
Klik kanan pada This PC/Properties/System/Advanced system settings/Environment Variabel.

✕

Edit System Variable

Variable name: ANT\_HOME

Variable value: C:\apache-ofbiz-13.07.03

Browse Directory... Browse File... OK Cancel

✚ Menyiapkan GRADLE\_HOME dan PATH

✕

Edit System Variable

Variable name: GRADLE\_HOME

Variable value: C:\gradle-7.4.1

Browse Directory... Browse File... OK Cancel

✕

Edit environment variable

C:\Program Files\Intel\Intel(R) Management Engine Components\...  
C:\Program Files (x86)\Intel\Intel(R) Management Engine Compon...  
C:\Program Files\Intel\Intel(R) Management Engine Components\l...  
C:\Program Files (x86)\NVIDIA Corporation\PhysX\Common  
C:\Program Files (x86)\QuickTime\QTSystem\  
%SystemRoot%\system32  
%SystemRoot%  
%SystemRoot%\System32\Wbem  
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\  
%SYSTEMROOT%\System32\OpenSSH\  
C:\Program Files\nodejs\  
C:\Users\Asus\AppData\Local\Programs\Python\Python38-32  
C:\Users\Asus\AppData\Local\Programs\Python\Python38-32\Scri...  
C:\Program Files\Redis\  
%ANT\_HOME%\bin  
%JAVA\_HOME%\bin  
%FINDBUGS\_HOME%\bin  
C:\xampp\php  
C:\ProgramData\ComposerSetup\bin  
%GRADLE\_HOME%\bin

New  
Edit  
Browse...  
Delete  
Move Up  
Move Down  
Edit text...

OK Cancel

✚ Jika Java dan Gradle sudah terinstall maka selanjutnya mendownload dan mengextract file Apache Ofbiz , untuk proses instalasi Apache Ofbiz dengan cara :

- a. Membuka CMD dan masuk pada directory Apache Ofbiz
- b. Setelah itu ketikkan dir

```
C:\Users\Asus>cd C:\apache-ofbiz-13.07.03

C:\apache-ofbiz-13.07.03>dir
Volume in drive C has no label.
Volume Serial Number is BA47-1EC9

Directory of C:\apache-ofbiz-13.07.03

29/03/2016  11.09    <DIR>          .
29/03/2016  11.09    <DIR>          ..
24/03/2016  13.16             18.080 .classpath
26/11/2012  21.08             883 .gitignore
15/11/2012  17.50             285 .hgignore
14/11/2013  14.03             509 .project
16/04/2012  08.13             1.189 .xmlcatalog.xml
27/03/2013  18.01             1.372 ant
29/03/2013  06.58             1.157 ant.bat
14/04/2009  23.01             5.984 APACHE2_HEADER
29/03/2016  11.09    <DIR>          applications
30/11/2015  06.40             76.182 build.xml
16/11/2014  14.46             6.717 common.xml
29/03/2016  11.09    <DIR>          framework
29/03/2016  11.09    <DIR>          hot-deploy
26/08/2015  21.38             2.404 ivy.xml
29/03/2016  11.09    <DIR>          lib
24/03/2016  13.16             144.684 LICENSE
10/02/2016  16.17             9.505 macros.xml
19/03/2014  09.15             17.174 NOTICE
27/05/2012  18.00             5.964 OPTIONAL_LIBRARIES
14/01/2015  23.51             3.588 README
29/03/2016  11.09             7 revision.txt
29/03/2016  11.09    <DIR>          runtime
29/03/2016  11.09    <DIR>          specialpurpose
29/03/2016  11.09    <DIR>          themes
29/03/2016  11.09    <DIR>          tools
                17 File(s)                295.684 bytes
                10 Dir(s)            256.212.992 bytes free
C:\apache-ofbiz-13.07.03>
```

Activate Windows  
Go to Settings to activate Windows.

- c. Dan ant load-demo untuk mengisi data ke database demo

```
C:\apache-ofbiz-13.07.03>ant.bat load-demo

C:\apache-ofbiz-13.07.03>ECHO OFF

C:\apache-ofbiz-13.07.03>"C:\Program Files\Java\jdk1.8.0_111\bin\java" -jar framework/base/lib/ant-1.9.0-ant-launcher.jar -lib framework/base/lib/ant load-demo
Buildfile: C:\apache-ofbiz-13.07.03\build.xml

dir-init:
    [mkdir] Created dir: C:\apache-ofbiz-13.07.03\runtime\logs\test-results
    [mkdir] Created dir: C:\apache-ofbiz-13.07.03\runtime\data\derby

copy-derby-props:

ofbiz-init:

build:
    [echo] [build] ===== Start Building (Compile) =====

build-framework:

init:
    [I] 00034 of 14778 from file:/C:/apache-ofbiz-13.07.03/specialpurpose/ecommerce/data/DemoPopularCategoriesData.xml
    [java] 2022-03-24 22:06:59,358 |main |EntityDataLoadContainer
    [I] 00012 of 14790 from file:/C:/apache-ofbiz-13.07.03/specialpurpose/ecommerce/data/DemoContentAltUrl.xml
    [java] 2022-03-24 22:06:59,358 |main |EntityDataLoadContainer
    [I] ===== Finished the data load with 14790 rows changed.
    [java] 2022-03-24 22:06:59,358 |main |ContainerLoader
    [I] Started container dataload-container
    [java] 2022-03-24 22:06:59,360 |main |ContainerLoader
    [I] Shutting down containers
    [java] 2022-03-24 22:06:59,360 |main |ContainerLoader
    [I] Stopping container dataload-container
    [java] 2022-03-24 22:06:59,360 |main |ContainerLoader
    [I] Stopped container dataload-container
    [java] 2022-03-24 22:06:59,360 |main |ContainerLoader
    [I] Stopping container service-container
    [java] 2022-03-24 22:06:59,455 |main |JobPoller
    [I] Shutting down JobPoller.
    [java] 2022-03-24 22:06:59,457 |main |JobPoller
    [I] JobPoller shutdown completed.
    [java] 2022-03-24 22:06:59,457 |main |ServiceContainer
    [I] Removing from cache dispatcher: entity-default
    [java] 2022-03-24 22:06:59,457 |main |ServiceDispatcher
    [I] De-Registering dispatcher: entity-default
    [java] 2022-03-24 22:06:59,458 |main |ServiceDispatcher
    [I] Shutting down the service engine...
    [java] 2022-03-24 22:06:59,458 |main |ContainerLoader
    [I] Stopped container service-container
    [java] 2022-03-24 22:06:59,458 |main |ContainerLoader
    [I] Stopping container classloader-container
    [java] 2022-03-24 22:06:59,458 |main |ContainerLoader
    [I] Stopped container classloader-container
    [java] 2022-03-24 22:06:59,458 |main |ContainerLoader
    [I] Stopping container component-container
    [java] 2022-03-24 22:06:59,458 |main |ContainerLoader
    [I] Stopped container component-container
    [java] Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=512M; support was removed in 8.0

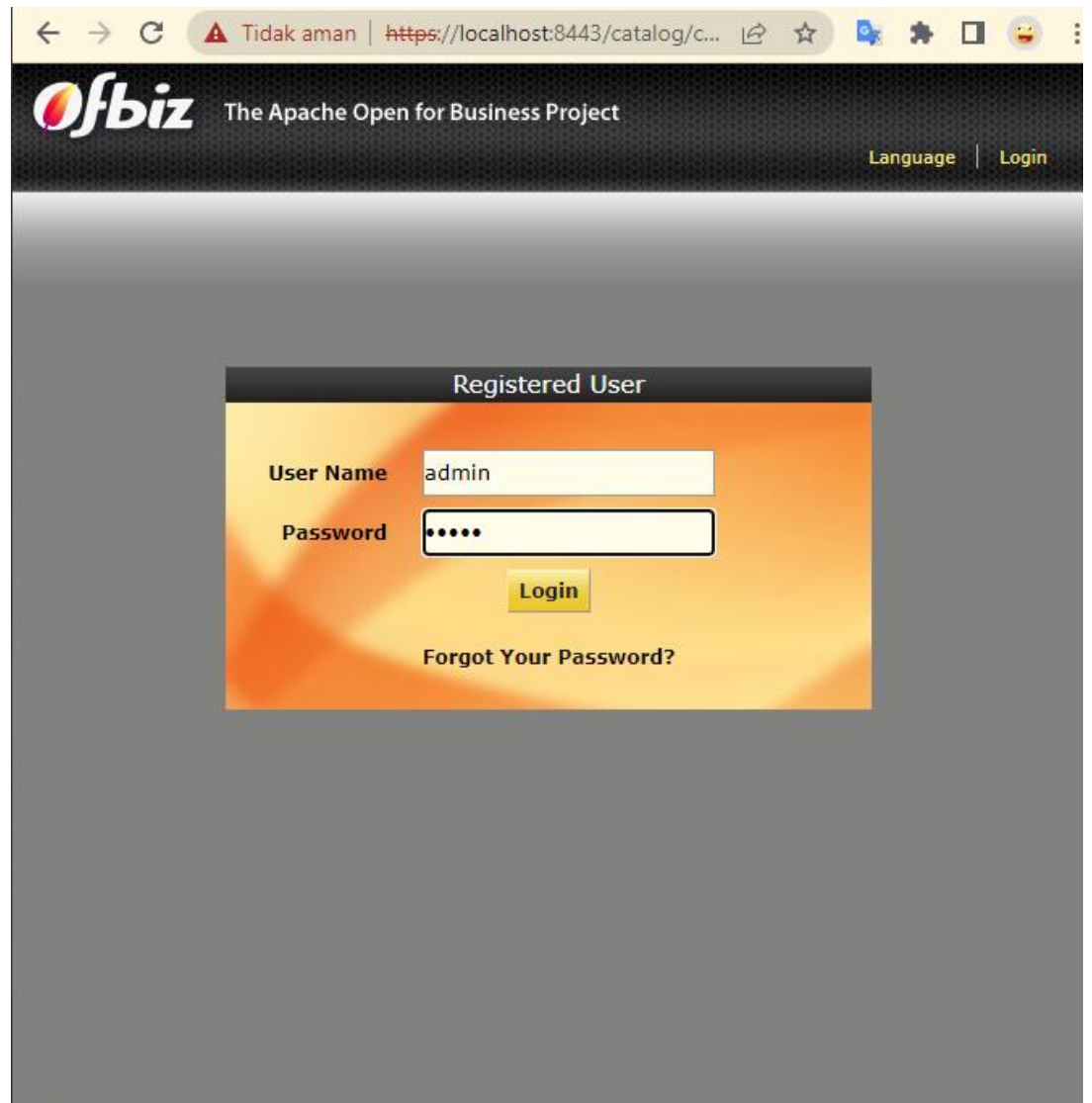
BUILD SUCCESSFUL
Total time: 29 minutes 42 seconds
C:\apache-ofbiz-13.07.03>
```

- d. Setelah proses selesai, maka jalankan Apache Ofbiz dengan perintah ant.bat start dan apache ofbiz telah selesai di install.

```
Total time: 29 minutes 42 seconds
C:\apache-ofbiz-13.07.03>ant.bat start

[I] Processing failed order re-auth(s)
[java] 2022-03-24 22:11:42,404 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/retryFailedAuthNsfs] finished in [97] milliseconds
[java] 2022-03-24 22:11:42,422 |OFBiz-JobQueue-1 |PersistedServiceJob
[I] Job [Re-Try Failed Auths] Id [8001] -- Next runtime: Fri Mar 25 00:00:00
ICT 2022
[java] 2022-03-24 22:11:42,447 |OFBiz-JobQueue-1 |PaymentGatewayServices
[I] Processing failed order re-auth(s)
[java] 2022-03-24 22:11:42,452 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/retryFailedAuths] finished in [28] milliseconds
[java] 2022-03-24 22:11:42,468 |OFBiz-JobQueue-1 |PersistedServiceJob
[I] Job [Extend expired Subscriptions] Id [8005] -- Next runtime: Fri Mar 25
00:00:00 ICT 2022
[java] 2022-03-24 22:11:42,819 |OFBiz-JobQueue-1 |UtilProperties
[I] ResourceBundle OrderUiLabels (en) created in 0.278s with 970 properties
[java] 2022-03-24 22:11:42,821 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/runSubscriptionAutoReorders] finished in [352] mill
iseconds
[java] 2022-03-24 22:11:42,836 |OFBiz-JobQueue-1 |PersistedServiceJob
[I] Job [Run Auto-Reorders] Id [8003] -- Next runtime: Fri Mar 25 00:00:00 I
CT 2022
[java] 2022-03-24 22:11:42,864 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/runShoppingListAutoReorder] finished in [28] millis
econds
[java] 2022-03-24 22:11:42,883 |OFBiz-JobQueue-1 |PersistedServiceJob
[W] Persisted Job [8500] references a RecurrenceInfo, recommend using Tempora
lExpression instead
[java] 2022-03-24 22:11:42,899 |OFBiz-JobQueue-1 |PersistedServiceJob
[I] Job [Generate Invoice template] Id [8500] -- Next runtime: Thu Apr 14 22
:00:00 ICT 2022
[java] 2022-03-24 22:11:43,120 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/autoGenerateInvoiceFromExistingInvoice] finished in
[171] milliseconds
[java] 2022-03-24 22:11:43,154 |OFBiz-JobQueue-1 |PersistedServiceJob
[I] Job [Cancels all orders after date] Id [8006] -- Next runtime: Fri Mar 2
5 00:00:00 ICT 2022
[java] 2022-03-24 22:11:43,429 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/cancelAllBackOrders] finished in [275] milliseconds
[java] 2022-03-24 22:11:45,033 |OFBiz-JobQueue-1 |ServiceDispatcher
[T] Sync service [default/autoFinAccountReconciliation] finished in [4382] mi
lliseconds
```

- e. Selanjutnya menjalankan Apache Ofbiz yang telah selesai di install dengan mengetikkan url : <https://127.0.0.1:8443/catalog/control/main> di web browser, dengan memasukkan :  
Username : admin  
Password : forbiz  
jika berhasil maka akan tampil seperti gambar di bawah ini :



Tidak aman

https://localhost:8443/catalog/c...

☆

ofbiz

The Apache Open for Business Project

Applications

Catalog Manager

- Your Company Name Here

Language

Visual Themes

Logout

?

THE PRIVILEGED ADMINISTRATOR

Search Products

Keywords:

Category ID:

No Contains ☐ Any ☒ All ☐

Find

Category ID:

Advanced Search

-Product Jump-

Browse Catalogs/Categories

Demo Catalog [DemoCatalog]

Test Catalog [TestCatalog]

Google Catalog [GoogleCatalog]

Rental Catalog [RentalCatalog]

Products from this category

No category specified.

Catalog Administration Main Page

Edit Catalog with Catalog ID:  
 Edit Catalog

OR: Create New Catalog

Edit Category with Category ID:  
 Edit Category

OR: Create New Category

Edit Product with Product ID:  
 Edit Product

OR: Create New Product

OR: Quick Create Virtual from Variants

Find Product with ID Value:  
 Find Product

Auto Create Keywords for All Products

Fast Load Catalog into Cache

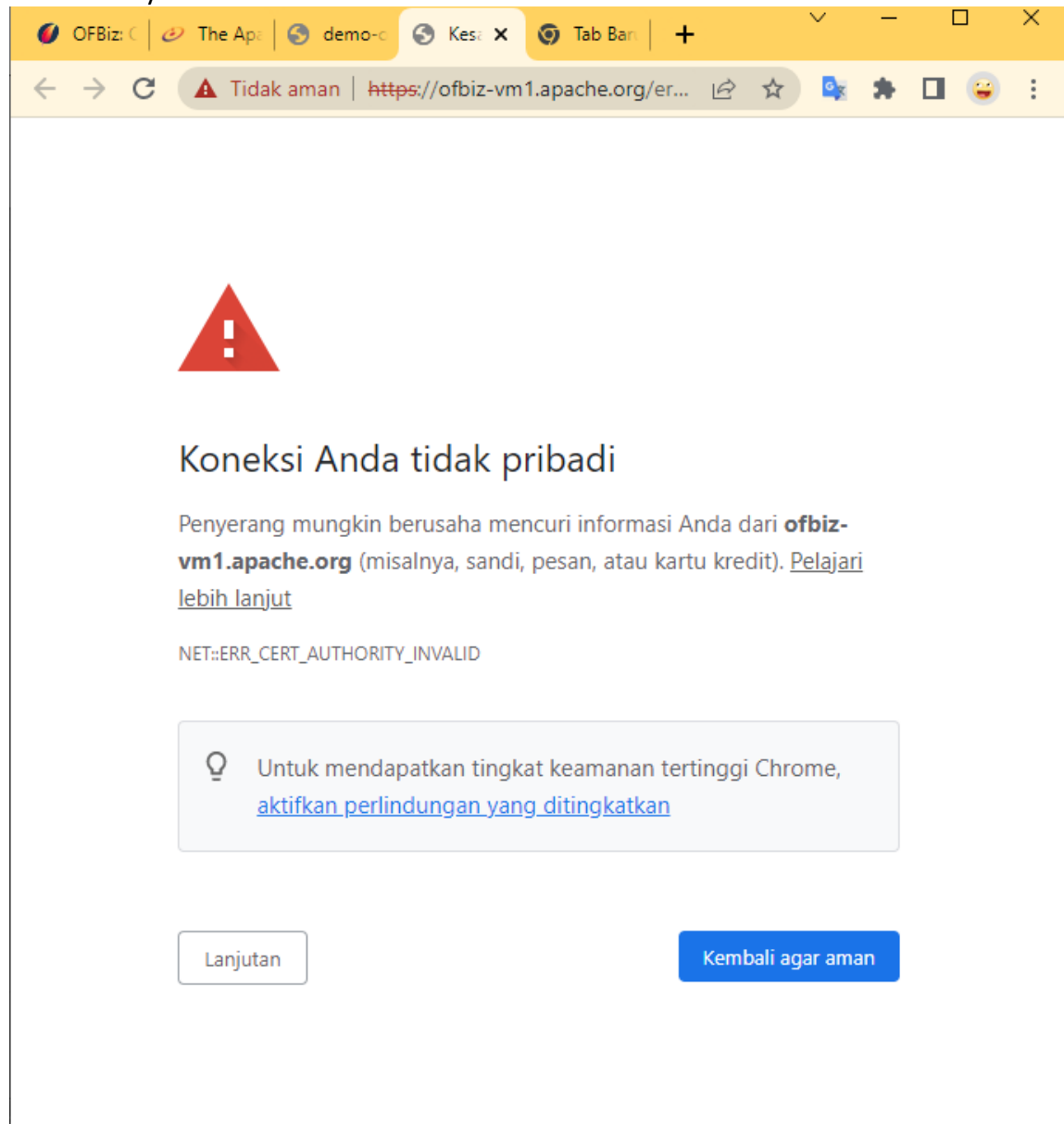


## Tugas

1. Dengan menggunakan fasilitas demo, pilihlah E-Commerce webstore atau backend ERP. Setelah itu, buatlah panduan dasar pemakaiannya. Anda bebas memilih tema (misal - panduan berbelanja di Webstore E-Commerce). Gunakan kreativitas anda.

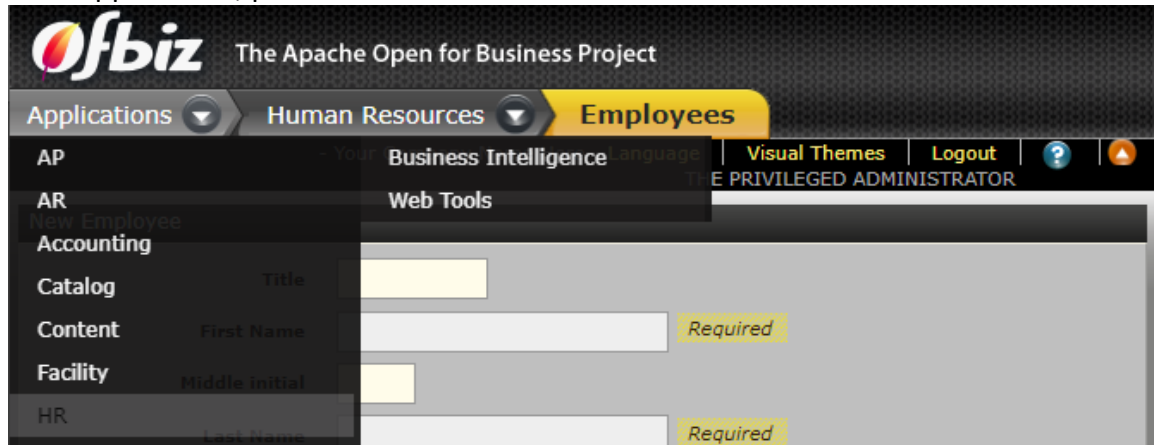
Uraian :

Pada saat membuka fasilitas demo dan memilih Backend Management (ERP) Applications, pilihan demo tersebut tidak dapat dibuka begitupun dengan pilihan demo lainnya.



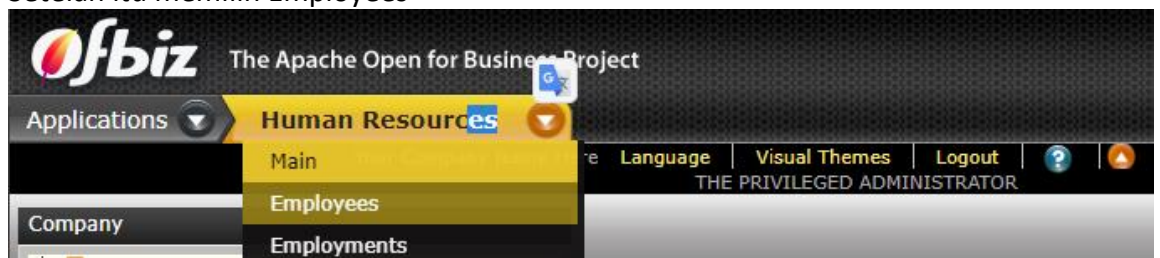
Oleh karena itu, saya memanfaatkan penggunaan Ofbiz dengan memberikan contoh memasukkan data pegawai. Berikut langkah-langkahnya :

- a. Pada applications, pilih HR



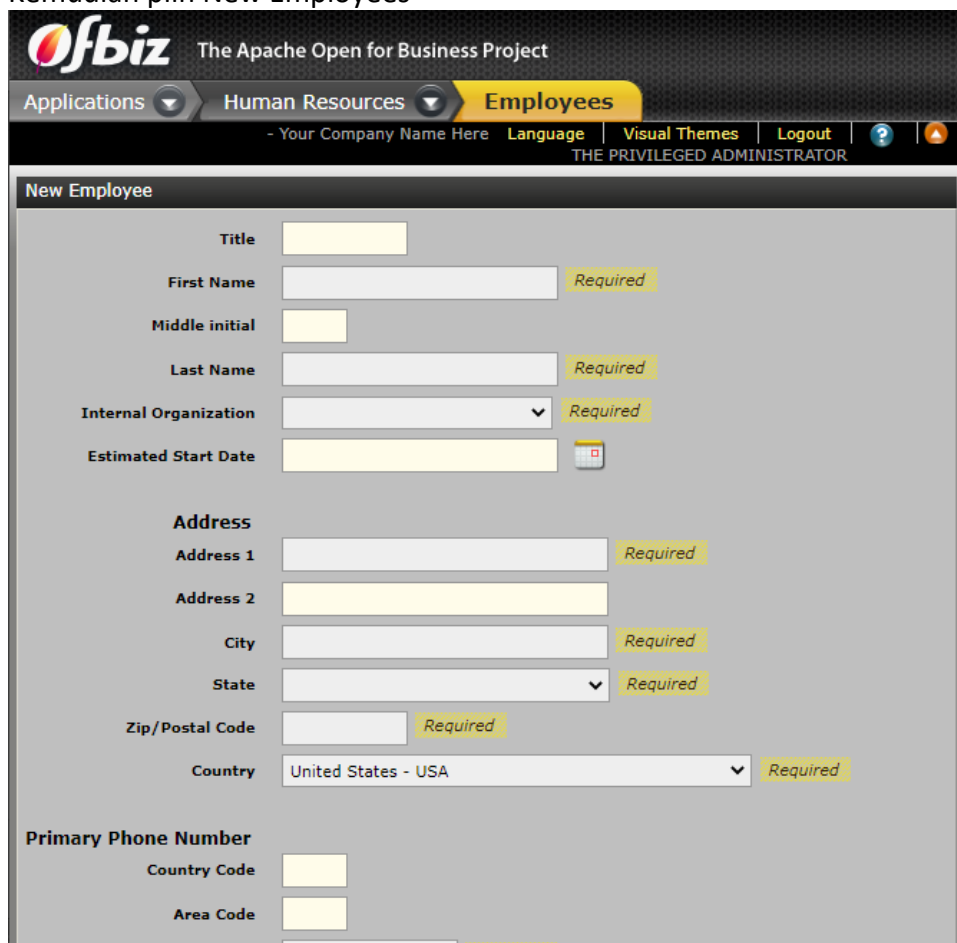
The screenshot shows the ofbiz application interface. The top navigation bar includes 'Applications', 'Human Resources', and 'Employees'. The 'Employees' menu is expanded, showing options like 'New Employee', 'Accounting', 'Catalog', 'Content', 'Facility', and 'HR'. The 'HR' option is highlighted. The background shows a form with fields for 'Title', 'First Name', 'Middle Initial', and 'Last Name', with 'Required' labels next to the 'First Name' and 'Last Name' fields.

- b. Setelah itu memilih Employees



The screenshot shows the ofbiz application interface. The top navigation bar includes 'Applications', 'Human Resources', and 'Employees'. The 'Employees' menu is expanded, showing options like 'Main', 'Employees', and 'Employments'. The 'Employees' option is highlighted. The background shows a form with fields for 'Title', 'First Name', 'Middle Initial', and 'Last Name', with 'Required' labels next to the 'First Name' and 'Last Name' fields.

- c. Kemudian pilih New Employees



The screenshot shows the ofbiz application interface. The top navigation bar includes 'Applications', 'Human Resources', and 'Employees'. The 'Employees' menu is expanded, showing options like 'Main', 'Employees', and 'Employments'. The 'Employees' option is highlighted. The background shows a form with fields for 'Title', 'First Name', 'Middle Initial', 'Last Name', 'Internal Organization', 'Estimated Start Date', 'Address', 'City', 'State', 'Zip/Postal Code', 'Country', 'Primary Phone Number', 'Country Code', and 'Area Code'. The 'Required' label is present next to several fields: 'First Name', 'Last Name', 'Internal Organization', 'Address 1', 'City', 'State', 'Zip/Postal Code', and 'Country'.

d. Mulai memasukkan data pada kolom-kolom required dan save

Tidak aman | <https://localhost:8443/humanres...>

**Title**

**First Name**  Required

**Middle initial**

**Last Name**  Required

**Internal Organization**  Required

**Estimated Start Date**

**Address**

**Address 1**  Required

**Address 2**

**City**  Required

**State**  Required

**Zip/Postal Code**  Required

**Country**  Required

**Primary Phone Number**

**Country Code**

**Area Code**

**Phone Number**  Required

**ext**

**E-Mail Address**


**Email**

**Save**

- e. Maka akan menampilkan data pegawai yang baru saja di inputkan

← → ↻ ⚠ Tidak aman | https://localhost:8443/humanres... ☆ ⚙ 📱 😊 ⋮


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 The Apache Open for Business Project

Applications ▾ Human Resources ▾ **Employees**

- Your Company Name Here Language Visual Themes Logout ? 🔒

THE PRIVILEGED ADMINISTRATOR

 **The following occurred:**  
Email Address successfully created.

PROFILE EMPLOYMENTS EMPLOYEE POSITION SKILLS QUALIFICATIONS TRAINING LEAVE

PAYROLL HISTORY

The Profile of Ara Widhi [10000]

Show Old

Personal Information		Update
Party Id	10000	
Name	Ara Widhi	
Comments		
External Id		
Status ID	Enabled	

Contact Information		Create New
Contact Type	Contact Information	Soliciti OK?
	<b>General Correspondence Address</b>	
	<b>Primary Address</b>	
	Jl Janti, Banguntapan,Bantul,Yogyakarta ( ) Yogyakarta, 995881 Indonesia (Updated: 2022-03-24 23:48:04.712)	
<b>Postal Address</b>		
	<b>Primary Phone Number</b>	

Current Employment information	
Company	[]
Position	[]
Salary	

User Name(s)	Create New
No UserLogin(s) found for this party.	

Party Attribute(s)	Create New
No party attributes found.	

Party Content	
No Content	
<b>Attach Content</b>	
Pilih File	Tidak ada file yang dipilih
Select Purpose	▼

## **BAB II**

### **DAFTAR PUSTAKA**

<https://github.com/oldstager/academic/blob/main/praktikum/tcc/minggu-05.md>