

# odoo Development

Muhammad Nasser



Day 4





# PROJECT:

Basic Structure

Basic Fields

DATA FILES

BASIC VIEWS

BASIC MODELS

Method decorators

ORM methods

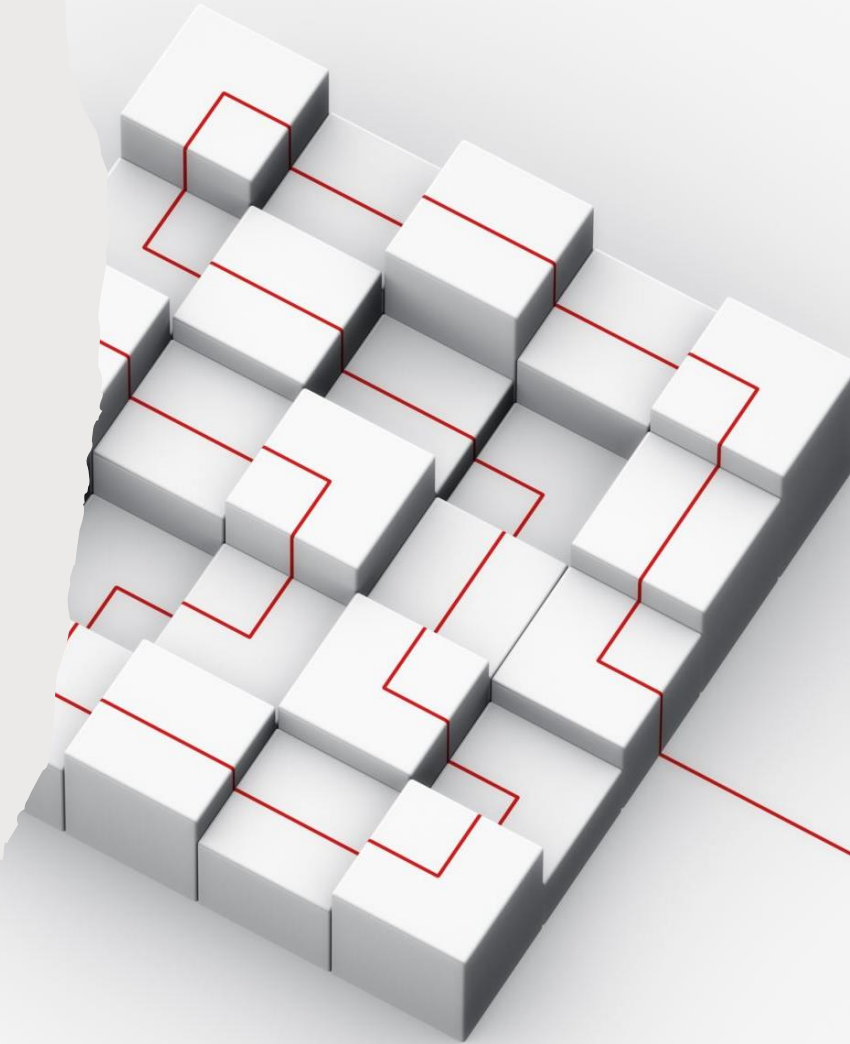
Search domain

Record(set) operations

Inheritance and extension

# INHERITANCE AND EXTENSION

1. **Python Inheritance**
2. **Model Inheritance**
3. **View Inheritance**





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Error Management

# ERROR MANAGEMENT

`odoo.exceptions.AccessDenied(message='Access Denied')[source]`

When you try to log with a wrong password.

`odoo.exceptions.AccessError(message)[source]`

When you try to read a record that you are not allowed to.

`odoo.exceptions.CacheMiss(record, field)[source]`

When you try to read a value in a flushed cache.

`odoo.exceptions.MissingError(message)`

When you try to write on a deleted record.

`odoo.exceptions.UserError(message)[source]`

When the user tries to do something that has no sense given the current state of a record.

`odoo.exceptions.ValidationError(message)`

When you try to create a new user with a login which already exist in the db.



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QWeb Reports

# QWEB REPORTS

- Reports are written in HTML/QWeb
- Reports are declared using a **report action**, and a **Report template** for the action to use.
- If useful or necessary, it is possible to specify a **Paper Format** for the report.





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Security in Odoo

# SECURITY IN ODOO

## Access Rights

to an entire model for a given set of operations.

## Record Rules

Record rules are *conditions* which must be satisfied in order for an operation to be allowed. Record rules are evaluated record-by-record, following access rights.





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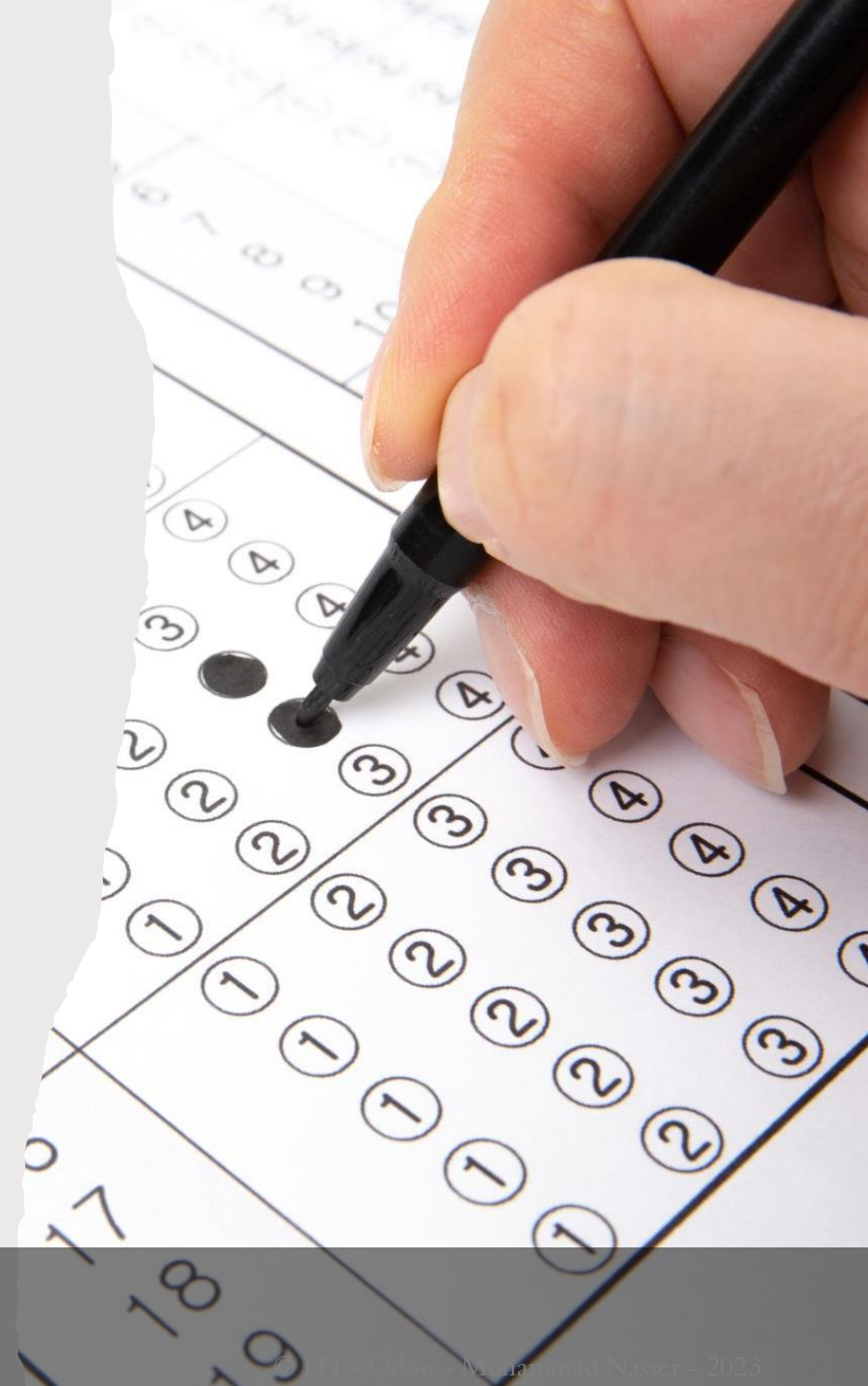
QWeb Reports

Security in Odoo

Testing Odoo

# UNIT TEST

- Create unit test
- How to run it? --test-enable





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Translations



# TRANSLATIONS

I18n





## AGENDA :

Basics

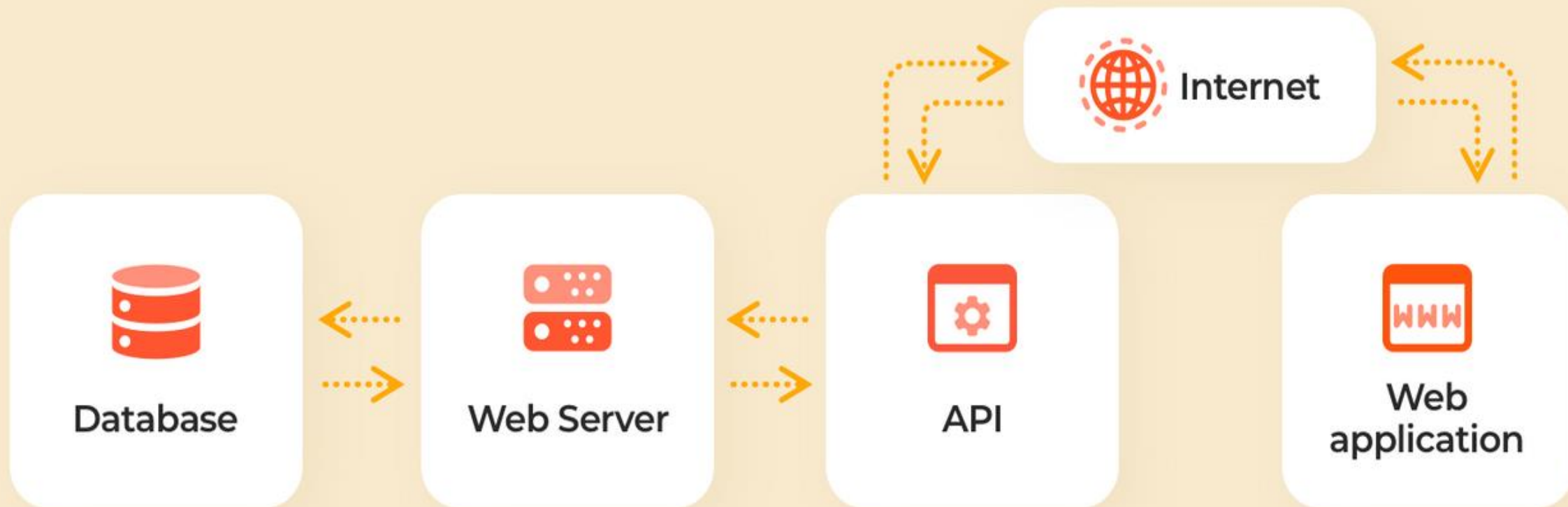


Project



RESTful APIS

# What is an API?





# REST-FULL APIS

## 3. CRUD operation as a RESTful APIs ?



CREATE



READ



UPDATE



DELETE

---

C

R

U

D

## OTHER RESOURCES:



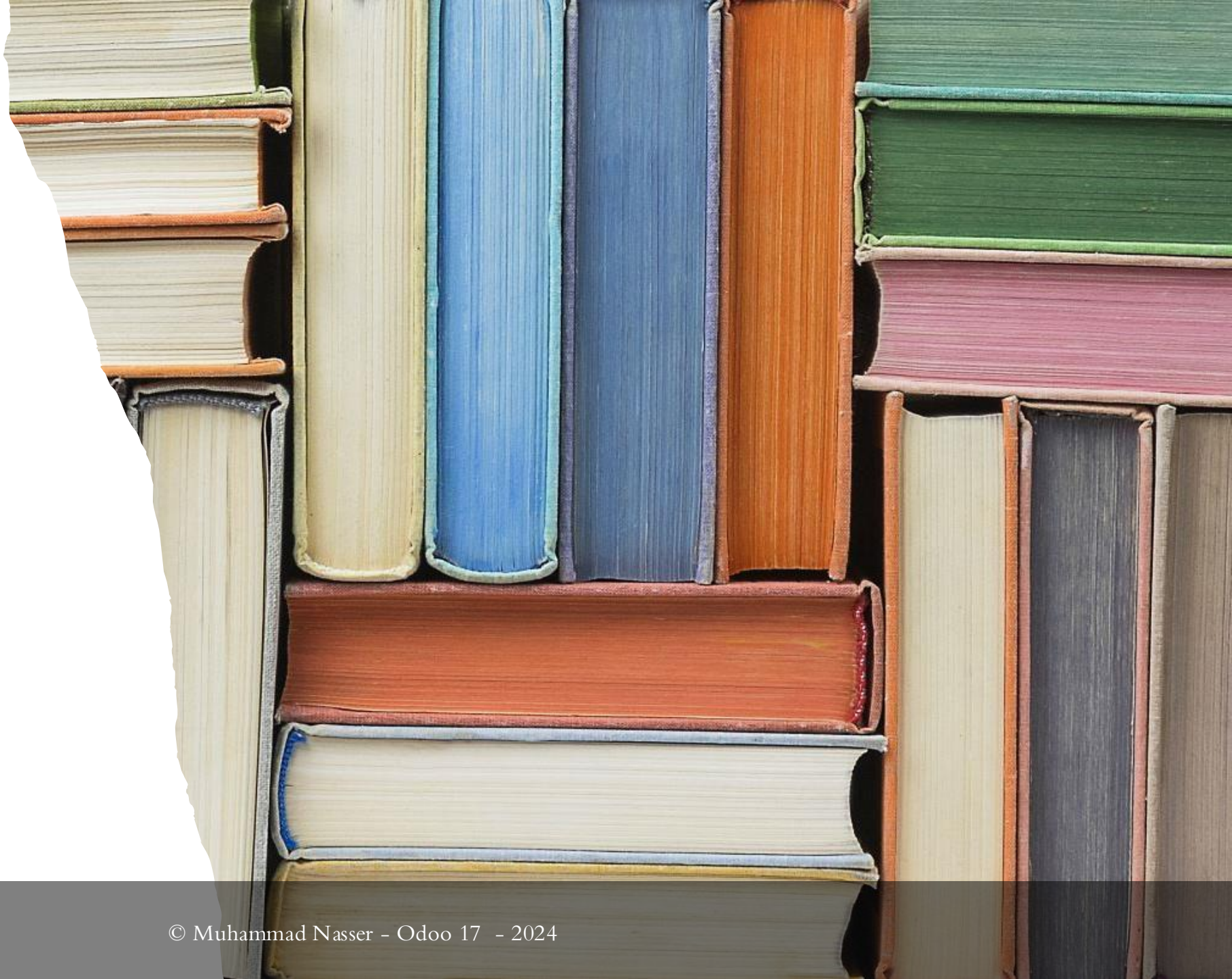


# RESOURCES:

<https://www.odoo.com/documentation/17.0/developer.html>

<https://www.cybrosys.com/odoo/odoo-books/odoo-16-development/>

<https://www.packtpub.com/product/odoo-development-essentials/9781784392796>



# REVIEW





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Gitlab: <https://gitlab.com/muhammed-nasser>

LinkedIn: <https://www.linkedin.com/in/alazaly>

Facebook: <https://www.facebook.com/muhammed.nasser.alazaly>



```
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.name))  
mirror_ob.select = 0  
= bpy.context.selected_objects  
data.objects[one.name].select  
print("please select exactly one object")  
-- OPERATOR CLASSES --
```

THANK YOU!