

Project Report: Odoo Education Management

1. Project Overview

The project is a Dockerized Odoo 17 application with a custom module named `tp_gestion_emplois` designed for school timetable management.

Project Structure

```
odoo-docker/
├── addons/
│   └── tp_gestion_emplois/      # Custom module
├── config/                      # Odoo configuration
└── docker-compose.yml            # Container orchestration
```

2. Infrastructure

The application runs on Docker containers defined in `docker-compose.yml`.

- **Web Service:**

- Image: `odoo:17.0`
- Port: 8069
- Mounts:
 - `addons` -> `/mnt/extr-addons`
 - `config` -> `/etc/odoo`
- Dependencies: db service

- **DB Service:**

- Image: `postgres:16`
- Database: `odoo_db`
- User/Pass: `odoo/odoo`
- Volume: `odoo-db-data` for persistence

3. Custom Module: `tp_gestion_emplois`

This module provides functionality to manage educational sessions (Emploi du Temps).

Module Manifest

- **Name:** `tp_gestion_emplois`
- **Category:** Education
- **Description:** Module pour la gestion des emplois du temps scolaire.
- **Dependencies:** base

Data Model (tp.emploi)

Defined in `models/emploi.py`.

Field Name	Type	Description
name	Char	Matière (Required)
professeur	Char	Professeur
salle	Char	Salle
date	Date	Date du cours
heure_debut	Float	Heure de début
statut	Selection	Programmé, Réalisé, Annulé (Default: Programmé)
description	Text	Remarques

User Interface

Defined in `views/emploi_views.xml`.

Menus

- **Root Menu:** "Emplois du Temps"
- **Sub Menu:** "Gestion des Séances" (Opens the list view of sessions)

Views

1. **List View (Tree):** Displays the following columns:

- Matière
- Professeur
- Date
- Heure de début
- Salle
- Statut

2. **Form View:** Allows creating and editing sessions with grouped fields:

- **Header:** Basic info (Matière, Professeur, Salle)
- **Details:** Scheduling (Date, Heure, Statut)
- **Footer:** Description/Remarques

4. Usage

To verify the application:

1. Navigate to `http://localhost:8069`.
2. Log in as admin.
3. Install `tp_gestion_emplois` from the Apps menu.
4. Access "Emplois du Temps" from the main menu grid.
5. Create and manage course schedules.

5. Usage

Docker.

The screenshot shows the Docker Desktop application window. On the left, a sidebar menu includes 'Containers' (selected), 'Images', 'Volumes', 'Kubernetes', 'Builds', 'MCP Toolkit', 'Docker Hub', 'Docker Scout', and 'Extensions'. The main area displays a table of running containers:

Name	Container ID	Image	Port(s)	CPU (%)	Last std	Actions
odoo-docker	-	-	-	0.02%	18 min	[actions]
web-1	bc642bc16131	odoo:17.0	8069-8069	0.02%	18 min	[actions]
db-1	2083226e4ee7	postgres:11	-	0%	18 min	[actions]

At the bottom, system status shows 'Engine running', resource usage (RAM 0.99 GB, CPU 0.00%), and disk usage (Disk: 4.51 GB used / limit 265.30 GB). A footer bar indicates version v4.55.0.

Login.

The screenshot shows the Odoo login interface. It features a logo placeholder 'Your logo' at the top. Below it is a form with fields for 'Email' (containing 'admin') and 'Password' (containing '*****'). A 'Log in' button is centered below the password field. At the bottom of the form, there is a link 'Log in as superuser'. At the very bottom of the page, there are links for 'Manage Databases' and 'Powered by Odoo'.

Apps.

The screenshot shows the Odoo Apps module interface. On the left, there are two navigation panes: 'APPS' (with 'All' selected) and 'CATEGORIES' (with 'All' selected). In the main content area, a search bar at the top right contains 'Module' and 'tp'. Below it, a list shows the 'tp_gestion_emploi' app, which is highlighted with a green cube icon. A 'Module Info' button is visible next to the app name.

Emploi du Temps.

The screenshot shows the 'Gestion des Séances' page. At the top, there are tabs for 'Emplois du Temps' and 'Gestion des Séances'. A search bar is at the top right. Below, a table lists five scheduled classes:

Matière	Professeur	Date du cours	Heure de début	Salle	Statut
Maths	lamouini	01/03/2026	10:00	sc43	Programmé
Physics	aboud	01/05/2026	08:30	sc11	Programmé
Computer Science	Abtappen	12/31/2025	16:00	lab22	Réalisé
Lamouini Science	Lamouini Ostora	12/29/2025	14:00	sc80	Annulé

Gestion.

The screenshot shows the 'Gestion' page for a scheduled class. At the top, there are tabs for 'Emplois du Temps' and 'Gestion des Séances'. A search bar is at the top right. Below, a table provides detailed information for a Maths class:

Matière	Maths	Date du cours	01/03/2026
Professeur	lamouini	Heure de début	10:00
Salle	sc43	Statut	Programmé
Remarques	good game		