



## Export de l'Architecture, du Code et de la Structure de la Base de Données


### 1. Architecture du Projet

#### Code

 `__init__.py`


 `app.py`


 `base_sql.py`

 `extensions.py`


#### instance


#### models


 `__init__.py`


 `models.py`


#### routes


 `__init__.py`


 `activities.py`

 `roles.py`

 `roles_view.py`


 `skills.py`

 `softskills.py`










 `tasks.py`

#### templates


 `activities_list.html`

 `activity_competencies.html`


 `activity_connections.html`


-  activity\_header.html
-  activity\_softskills.html
-  activity\_tasks.html
-  competency\_modal.html
-  display\_list.html
-  roles\_modal.html
-  roles\_view.html
-  skills\_section.html
-  translate\_softskills\_modal.html

-  tools.py


-  ui\_routes.py

-  scripts


-  \_\_init\_\_.py

-  extract\_visio.py


-  Dox projet

-  export\_code.py

-  migrations

-  env.py

-  versions


-  37f4fdd5526b\_migration\_initiale\_avec\_la\_nouvelle\_.py

-  static

-  js

-  competencies.js


-  main.js

 roles.js

 softskills.js

 tasks.js

 tools.js

 translate\_softskills.js

 optiq.css

## 2. Code Source

### export\_code.py

```
import os
from docx import Document
import pydotplus as pydot

# --- IMPORTANT : Adapter ces imports si votre projet est organisé différemment ---
# Ici, on suppose que votre instance SQLAlchemy se trouve dans Code/extensions.py
# et que vos modèles sont définis dans Code/models/models.py (utilisant db.Model).
from Code.extensions import db
import Code.models.models # Ceci permet d'enregistrer vos modèles
# -----

# Création du document Word
doc = Document()
doc.add_heading("Export de l'Architecture, du Code et de la Structure de la Base de
Données", level=1)

# -----
# 1. Architecture du Projet (structure des dossiers et fichiers)
# -----
doc.add_heading("1. Architecture du Projet", level=2)
root_dir = os.getcwd()
excluded_dirs = {"Archives", "Venv", "__pycache__", ".git"}

def add_architecture(path, indent=""):
    try:
        items = sorted(os.listdir(path))
    except Exception as e:
        doc.add_paragraph(f"{indent}Erreur en listant {path}: {e}")
        return
    for item in items:
```

```

# Ignorer les fichiers cachés
if item.startswith("."):
    continue
full_path = os.path.join(path, item)
if os.path.isdir(full_path) and item not in excluded_dirs:
    doc.add_paragraph(f'{indent} 📁 {item}')
    add_architecture(full_path, indent + " ")
elif os.path.isfile(full_path) and item.endswith((" .py", ".js", ".html", ".css")):
    doc.add_paragraph(f'{indent} 📄 {item}')

```

```

add_architecture(root_dir)

```

```

# -----
# 2. Code Source (contenu des fichiers de code utiles)
# -----
doc.add_heading("2. Code Source", level=2)
for folder, _, files in os.walk(root_dir):
    if any(excl in folder for excl in excluded_dirs):
        continue # Ignorer certains dossiers
    for file in files:
        if file.endswith((" .py", ".js", ".html", ".css")):
            file_path = os.path.join(folder, file)
            doc.add_heading(f'{file}', level=3)
            try:
                with open(file_path, "r", encoding="utf-8") as f:
                    code = f.read()
                    doc.add_paragraph(code)
            except Exception as e:
                doc.add_paragraph(f" ❌ Erreur de lecture pour {file}: {e}")

```

```

# -----
# 3. Structure de la Base de Données (texte)
# -----
doc.add_heading("3. Structure de la Base de Données (Texte)", level=2)
metadata = db.Model.metadata # Récupère la métadonnée globale de vos modèles

```

```

for table in metadata.sorted_tables:
    doc.add_heading(f"Table: {table.name}", level=3)
    for column in table.columns:
        doc.add_paragraph(f"• {column.name} ({column.type})")

```

```

# -----
# 4. Diagramme Visuel de la Base de Données (avec relations entre tables)

```

```

# -----
doc.add_heading("4. Diagramme Visuel de la Base de Données", level=2)

def create_schema_graph(metadata):
    """
    Crée un diagramme relationnel (ERD) où chaque table est un seul noeud
    listant ses colonnes, et où les foreign keys relient les tables entre elles.
    """
    graph = pydot.Dot(graph_type="digraph", rankdir="LR")

    # Dictionnaire pour référencer les noeuds par nom de table
    table_nodes = {}

    # 1 Créer un noeud "record" pour chaque table
    for table in metadata.tables.values():
        # Label : { tableName | col1 : type1\ncol2 : type2\n... }
        label = f'{{ {table.name} | '
        cols = [f'{col.name} : {col.type}' for col in table.columns]
        # \l force un saut de ligne "left-justified"
        label += "\\l".join(cols) + "\\l}"

        node = pydot.Node(
            table.name,
            shape="record",
            label=label,
            style="filled",
            fillcolor="lightblue"
        )
        graph.add_node(node)
        table_nodes[table.name] = node

    # 2 Ajouter des arêtes pour chaque Foreign Key
    for table in metadata.tables.values():
        for fk in table.foreign_keys:
            referencing_node = table_nodes[table.name]
            referenced_node = table_nodes[fk.column.table.name]
            # Indiquer la colonne qui fait la FK
            edge_label = f'{fk.parent.name} → {fk.column.name}'

            edge = pydot.Edge(
                referencing_node,
                referenced_node,
                label=edge_label,

```

```

        color="blue",
        arrowsize="0.8"
    )
    graph.add_edge(edge)

    return graph

graph = create_schema_graph(metadata)
diagram_path = os.path.join(root_dir, "database_schema.png")

try:
    graph.write_png(diagram_path)
    doc.add_paragraph(f"Diagramme généré : {diagram_path}")
except Exception as e:
    doc.add_paragraph(f"❌ Erreur lors de la génération du diagramme : {e}")

# -----
# Sauvegarde du document Word
# -----
output_path = os.path.join(root_dir, "export_code.docx")
doc.save(output_path)
print(f"✅ Export terminé ! Fichier généré : {output_path}")

```

#### app.py

```

# Code/app.py
import os
import sys
from dotenv import load_dotenv

load_dotenv()

current_dir = os.path.dirname(os.path.abspath(__file__))
parent_dir = os.path.dirname(current_dir)
if current_dir not in sys.path:
    sys.path.insert(0, current_dir)
if parent_dir not in sys.path:
    sys.path.insert(0, parent_dir)

from flask import Flask
from flask_migrate import Migrate
from Code.extensions import db

```

```

def create_app():
    static_folder = os.path.join(parent_dir, 'static')
    app = Flask(__name__, static_folder=static_folder)

    instance_path = os.path.join(os.path.dirname(__file__), 'instance')
    if not os.path.exists(instance_path):
        os.makedirs(instance_path)
    db_path = os.path.join(instance_path, 'optiq.db')
    app.config['SQLALCHEMY_DATABASE_URI'] = f"sqlite:////{db_path}"
    app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False

    db.init_app(app)
    migrate = Migrate(app, db)

    # Enregistrement des blueprints existants
    from Code.routes.activities import activities_bp
    app.register_blueprint(activities_bp)
    from Code.routes.tools import tools_bp
    app.register_blueprint(tools_bp)
    from Code.routes.skills import skills_bp
    app.register_blueprint(skills_bp)
    from Code.routes.softskills import softskills_bp
    app.register_blueprint(softskills_bp)
    from Code.routes.roles import roles_bp
    app.register_blueprint(roles_bp)

    # Enregistrement du blueprint pour la vue des rôles
    from Code.routes.roles_view import roles_view_bp
    app.register_blueprint(roles_view_bp)

    @app.route('/')
    def home():
        return "Bienvenue sur mon application Flask !"

    @app.route('/test_skills')
    def test_skills():
        return app.send_static_file('test_skills.html')

    return app

app = create_app()

if __name__ == '__main__':

```

```
app.run(debug=True)
```

#### base\_sql.py

```
import os
import sys
from flask import Flask
from sqlalchemy import inspect

# Détection du répertoire actuel et du projet
current_dir = os.path.dirname(os.path.abspath(__file__))
project_root = os.path.dirname(current_dir) # Ajustement ici

# Ajout des chemins au sys.path
sys.path.insert(0, os.path.join(project_root, "Code"))
sys.path.insert(0, project_root)

print("DEBUG: Structure des chemins sys.path :")
for path in sys.path:
    print(f" - {path}")

# Vérification des fichiers critiques
critical_files = [
    {"name": "extensions.py", "path": os.path.join(project_root, "Code", "extensions.py")},
    {"name": "models.py", "path": os.path.join(project_root, "Code", "models", "models.py")}
]

print("DEBUG: Vérification des fichiers critiques...")
for file in critical_files:
    exists = os.path.exists(file["path"])
    print(f" - {file['name']} : {'Présent' if exists else 'Manquant'} (Path : {file['path']})")

if any(not os.path.exists(file["path"]) for file in critical_files):
    print("ERREUR : Fichiers critiques manquants.")
    sys.exit(1)

# Tentative d'import des modules
try:
    from extensions import db
    from models.models import Activity, Data, Connection
    print("DEBUG: Import des modules réussi.")
except ImportError as e:
    print(f"ERREUR : Import des modules échoué : {e}")
    sys.exit(1)
```

```

def create_app():
    app = Flask(__name__)
    app.config['SQLALCHEMY_DATABASE_URI'] = f"sqlite:///{{os.path.join(project_root,
'Code', 'instance', 'optiq.db')}}"
    app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
    db.init_app(app)
    return app

def inspect_tables():
    """Inspecte la structure des tables dans la base."""
    inspector = inspect(db.engine)
    for table_name in inspector.get_table_names():
        print(f"Table: {table_name}")
        for column in inspector.get_columns(table_name):
            print(f" Column: {column['name']} ({{column['type']}})")

if __name__ == "__main__":
    app = create_app()
    with app.app_context():
        inspect_tables()

try:
    from models.models import Activity, Data, Connection
    print("DEBUG : Import réussi pour Activity, Data, Connection.")
except ImportError as e:
    print(f"ERREUR : Import échoué : {e}")
    sys.exit(1)

```

#### [extensions.py](#)

```

from flask_sqlalchemy import SQLAlchemy

```

```

db = SQLAlchemy()

```

#### [\\_\\_init\\_\\_.py](#)

```

# Code Module initialisé

```

#### [models.py](#)

```

from Code.extensions import db

```

```

# Table d'association entre Task et Tool

```

```

task_tools = db.Table(

```

```

'task_tools',
db.Column('task_id', db.Integer, db.ForeignKey('tasks.id'), primary_key=True),
db.Column('tool_id', db.Integer, db.ForeignKey('tools.id'), primary_key=True)
)

class Activities(db.Model):
    __tablename__ = 'activities'

    id = db.Column(db.Integer, primary_key=True)
    # Identifiant stable provenant de Visio (pour éviter de recréer/supprimer l'activité à
    # chaque fois)
    shape_id = db.Column(db.String(50), unique=True, index=True, nullable=True)
    name = db.Column(db.String(200), nullable=False)
    description = db.Column(db.Text, nullable=True)
    is_result = db.Column(db.Boolean, nullable=False, default=False)

    # Relation avec les tâches (ordonnées par 'order')
    tasks = db.relationship(
        'Task',
        backref='activity',
        lazy=True,
        order_by='Task.order',
        cascade="all, delete-orphan"
    )

    # Relation avec les compétences validées
    competencies = db.relationship(
        'Competency',
        backref='activity',
        lazy=True,
        cascade="all, delete-orphan"
    )

    # Relation avec les habiletés socio-cognitives (softskills)
    softskills = db.relationship(
        'Softskill',
        backref='activity',
        lazy=True,
        cascade="all, delete-orphan"
    )

class Data(db.Model):
    __tablename__ = 'data'

```

```

id = db.Column(db.Integer, primary_key=True)
# Permet de faire des mises à jour partielles sur les Data
shape_id = db.Column(db.String(50), unique=True, index=True, nullable=True)
name = db.Column(db.String(255), nullable=False)
type = db.Column(db.String(50), nullable=False)
description = db.Column(db.Text, nullable=True)
layer = db.Column(db.String(50), nullable=True)

class Task(db.Model):
    __tablename__ = 'tasks'

    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(255), nullable=False)
    description = db.Column(db.Text, nullable=True)
    order = db.Column(db.Integer, nullable=True)
    activity_id = db.Column(db.Integer, db.ForeignKey('activities.id'), nullable=False)

    # Relation Many-to-Many avec Tool
    tools = db.relationship(
        'Tool',
        secondary=task_tools,
        lazy='subquery',
        backref=db.backref('tasks', lazy=True)
    )

class Tool(db.Model):
    __tablename__ = 'tools'

    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(255), nullable=False, unique=True)
    description = db.Column(db.Text, nullable=True)

class Competency(db.Model):
    __tablename__ = 'competencies'

    id = db.Column(db.Integer, primary_key=True)
    description = db.Column(db.Text, nullable=False)
    activity_id = db.Column(db.Integer, db.ForeignKey('activities.id'), nullable=False)

class Softskill(db.Model):
    __tablename__ = 'softskills'

```

```

id = db.Column(db.Integer, primary_key=True)
habilete = db.Column(db.String(255), nullable=False)
# Stocke le niveau sous forme de chaîne ("1", "2", "3" ou "4")
niveau = db.Column(db.String(10), nullable=False)
activity_id = db.Column(db.Integer, db.ForeignKey('activities.id'), nullable=False)

# --- Gestion des rôles ---
class Role(db.Model):
    __tablename__ = 'roles'
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(100), unique=True, nullable=False)

    def __repr__(self):
        return f"<Role {self.name}>"

# Table d'association pour les rôles affectés aux activités.
activity_roles = db.Table('activity_roles',
    db.Column('activity_id', db.Integer, db.ForeignKey('activities.id'), primary_key=True),
    db.Column('role_id', db.Integer, db.ForeignKey('roles.id'), primary_key=True),
    db.Column('status', db.String(50), nullable=False) # Par exemple "Garant"
)

# Table d'association pour les rôles affectés aux tâches.
task_roles = db.Table('task_roles',
    db.Column('task_id', db.Integer, db.ForeignKey('tasks.id'), primary_key=True),
    db.Column('role_id', db.Integer, db.ForeignKey('roles.id'), primary_key=True),
    db.Column('status', db.String(50), nullable=False) # Par exemple "Réalisateur",
    "Approbateur", etc.
)

# --- Nouvelle table pour les liaisons (Links) ---
class Link(db.Model):
    __tablename__ = 'links'
    id = db.Column(db.Integer, primary_key=True)
    # Si la source est une activité
    source_activity_id = db.Column(db.Integer, db.ForeignKey('activities.id'), nullable=True)
    # Si la source est un Data
    source_data_id = db.Column(db.Integer, db.ForeignKey('data.id'), nullable=True)
    # Si la cible est une activité
    target_activity_id = db.Column(db.Integer, db.ForeignKey('activities.id'), nullable=True)
    # Si la cible est un Data
    target_data_id = db.Column(db.Integer, db.ForeignKey('data.id'), nullable=True)
    type = db.Column(db.String(50), nullable=False) # Ex: "nourrissante", "déclenchante",

```

"Retour", etc.

```
description = db.Column(db.Text, nullable=True)
```

```
@property
```

```
def source_id(self):
```

```
    return self.source_activity_id if self.source_activity_id is not None else  
self.source_data_id
```

```
@property
```

```
def target_id(self):
```

```
    return self.target_activity_id if self.target_activity_id is not None else self.target_data_id
```

### `__init__.py`

```
# Code/models/__init__.py
```

```
from .models import (
```

```
    Activities,
```

```
    Data,
```

```
    Link,
```

```
    Task,
```

```
    Tool,
```

```
    Competency,
```

```
    Softskill,
```

```
    Role,
```

```
    task_tools,
```

```
    activity_roles,
```

```
    task_roles
```

```
)
```

### `activities.py`

```
# Code/routes/activities.py
```

```
import os
```

```
import io
```

```
import contextlib
```

```
from flask import Blueprint, jsonify, request, render_template
```

```
from sqlalchemy import text # <-- pour la requête brute du Garant
```

```
from Code.extensions import db
```

```
from Code.models.models import Activities, Data, Link, Task, Tool, Competency, Softskill
```

```
from Code.scripts.extract_visio import process_visio_file, print_summary
```

```
activities_bp = Blueprint('activities', __name__, url_prefix='/activities',
```

```
template_folder='templates')
```

```

def resolve_return_activity_name(data_record):
    if data_record and data_record.type and data_record.type.lower() == 'retour':
        act = Activities.query.filter_by(name=data_record.name).first()
        if act:
            return act.name
    if data_record and data_record.name:
        return data_record.name
    return "[Nom non renseigné]"

```

```

def resolve_data_name_for_incoming(link):
    if link.type and link.type.lower() == 'input':
        data_record = Data.query.get(link.source_id)
        if data_record:
            return resolve_return_activity_name(data_record)
    if link.description:
        return link.description
    return "[Nom non renseigné]"

```

```

def resolve_data_name_for_outgoing(link):
    if link.type and link.type.lower() == 'output':
        data_record = Data.query.get(link.target_id)
        if data_record:
            return resolve_return_activity_name(data_record)
    if link.description:
        return link.description
    return "[Nom non renseigné]"

```

```

def resolve_activity_name(record_id):
    act = Activities.query.get(record_id)
    if act:
        return act.name
    data_record = Data.query.get(record_id)
    if data_record:
        if data_record.type and data_record.type.lower() == 'retour':
            linked_act = Activities.query.filter_by(name=data_record.name).first()
            if linked_act:
                return linked_act.name
        if data_record.name:
            return data_record.name
    return "[Activité inconnue]"

```

# AJOUT MINIMAL : récupérer le Garant

```

def get_garant_role(activity_id):
    """
    Retourne le rôle Garant associé à l'activité (status='Garant'), ou None.
    """
    result = db.session.execute(
        text("SELECT r.id, r.name FROM activity_roles ar JOIN roles r ON ar.role_id = r.id "
            "WHERE ar.activity_id = :aid AND ar.status = 'Garant'"),
        {"aid": activity_id}
    ).fetchone()
    if result:
        return {"id": result[0], "name": result[1]}
    return None

@activities_bp.route('/', methods=['GET'])
def get_activities():
    try:
        activities = Activities.query.all()
        data = []
        for a in activities:
            data.append({
                "id": a.id,
                "name": a.name,
                "description": a.description or ""
            })
        return jsonify(data), 200
    except Exception as e:
        return jsonify({"error": str(e)}), 500

@activities_bp.route('/', methods=['POST'])
def create_activity():
    data = request.get_json()
    if not data or 'name' not in data:
        return jsonify({"error": "Invalid input. 'name' is required."}), 400
    try:
        new_activity = Activities(name=data['name'], description=data.get('description'))
        db.session.add(new_activity)
        db.session.commit()
        return jsonify({
            "id": new_activity.id,
            "name": new_activity.name,
            "description": new_activity.description or ""
        }), 201
    except Exception as e:

```

```

        db.session.rollback()
        return jsonify({"error": str(e)}), 500

@activities_bp.route('/<int:activity_id>/tasks/add', methods=['POST'])
def add_task_to_activity(activity_id):
    data = request.get_json()
    if not data or 'name' not in data:
        return jsonify({"error": "Invalid input. 'name' is required."}), 400
    try:
        new_task = Task(
            name=data['name'],
            description=data.get('description', ""),
            activity_id=activity_id
        )
        db.session.add(new_task)
        db.session.commit()
        return jsonify({
            "id": new_task.id,
            "name": new_task.name,
            "description": new_task.description or ""
        }), 201
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

@activities_bp.route('/<int:activity_id>/tasks/<int:task_id>', methods=['DELETE'])
def delete_task(activity_id, task_id):
    task = Task.query.filter_by(id=task_id, activity_id=activity_id).first()
    if not task:
        return jsonify({"error": "Task not found for this activity"}), 404
    try:
        db.session.delete(task)
        db.session.commit()
        return jsonify({"message": "Task deleted"}), 200
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

@activities_bp.route('/<int:activity_id>/tasks/<int:task_id>', methods=['PUT'])
def update_task(activity_id, task_id):
    data = request.get_json()
    if not data or 'name' not in data:
        return jsonify({"error": "Invalid input. 'name' is required."}), 400

```

```

task = Task.query.filter_by(id=task_id, activity_id=activity_id).first()
if not task:
    return jsonify({"error": "Task not found for this activity"}), 404
try:
    task.name = data['name']
    task.description = data.get('description', "")
    db.session.commit()
    return jsonify({
        "id": task.id,
        "name": task.name,
        "description": task.description or ""
    }), 200
except Exception as e:
    db.session.rollback()
    return jsonify({"error": str(e)}), 500

@activities_bp.route('/tasks/<int:task_id>/tools/<int:tool_id>', methods=['DELETE'])
def delete_tool_from_task(task_id, tool_id):
    task = Task.query.get(task_id)
    if not task:
        return jsonify({"error": "Task not found"}), 404
    tool = None
    for t in task.tools:
        if t.id == tool_id:
            tool = t
            break
    if not tool:
        return jsonify({"error": "Tool not associated with task"}), 404
    try:
        task.tools.remove(tool)
        db.session.commit()
        return jsonify({"message": "Tool removed from task"}), 200
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

@activities_bp.route('/<int:activity_id>/tasks/reorder', methods=['POST'])
def reorder_tasks(activity_id):
    data = request.get_json()
    new_order = data.get('order')
    if not new_order:
        return jsonify({"error": "order list is required"}), 400
    try:

```

```

    for idx, t_id in enumerate(new_order):
        task = Task.query.filter_by(id=t_id, activity_id=activity_id).first()
        if task:
            task.order = idx
        db.session.commit()
    return jsonify({"message": "Order updated"}), 200
except Exception as e:
    db.session.rollback()
    return jsonify({"error": str(e)}), 500

@activities_bp.route('/<int:activity_id>/details', methods=['GET'])
def get_activity_details(activity_id):
    activity = Activities.query.get(activity_id)
    if not activity:
        return jsonify({"error": "Activité non trouvée"}), 404

    tasks_list = []
    tools_list = []
    for t in activity.tasks:
        tasks_list.append(t.name or "")
        for tool in t.tools:
            if tool.name not in tools_list:
                tools_list.append(tool.name)

    input_data_value = getattr(activity, "input_data", "Aucune donnée d'entrée")
    output_data_value = getattr(activity, "output_data", "Aucune donnée de sortie")
    competencies = [{"id": comp.id, "description": comp.description} for comp in
activity.competencies]
    softskills = [{"id": ss.id, "habilete": ss.habilete, "niveau": ss.niveau} for ss in
activity.softskills]

    activity_data = {
        "id": activity.id,
        "name": activity.name,
        "description": activity.description or "",
        "input_data": input_data_value,
        "output_data": output_data_value,
        "tasks": tasks_list,
        "tools": tools_list,
        "competencies": competencies,
        "softskills": softskills
    }
    return jsonify(activity_data), 200

```

```
@activities_bp.route('/update-cartography', methods=['GET'])
def update_cartography():
```

```
    try:
        vsdx_path = os.path.join("Code", "example.vsdX")
        process_visio_file(vsdx_path)
        summary_output = io.StringIO()
        with contextlib.redirect_stdout(summary_output):
            print_summary()
        summary_text = summary_output.getvalue()
        return jsonify({
            "message": "Cartographie mise à jour (partielle)",
            "summary": summary_text
        }), 200
    except Exception as e:
        return jsonify({"error": str(e)}), 500
```

```
@activities_bp.route('/view', methods=['GET'])
def view_activities():
```

```
    try:
        # Code original : afficher uniquement les activités non marquées comme résultat
        activities = Activities.query.filter_by(is_result=False).all()

        activity_data = []
        for activity in activities:
            # Connexions entrantes
            incoming_links = Link.query.filter(
                (Link.target_activity_id == activity.id) | (Link.target_data_id == activity.id)
            ).all()
            incoming_list = []
            for link in incoming_links:
                data_name = resolve_data_name_for_incoming(link)
                source_name = resolve_activity_name(link.source_id)
                incoming_list.append({
                    'type': link.type,
                    'data_name': data_name,
                    'source_name': source_name
                })

            # Connexions sortantes
            outgoing_links = Link.query.filter(
                (Link.source_activity_id == activity.id) | (Link.source_data_id == activity.id)
            ).all()
```

```

outgoing_list = []
for link in outgoing_links:
    data_name = resolve_data_name_for_outgoing(link)
    target_name = resolve_activity_name(link.target_id)
    outgoing_list.append({
        'type': link.type,
        'data_name': data_name,
        'target_name': target_name
    })

# Tâches
tasks = sorted(activity.tasks, key=lambda x: x.order if x.order is not None else 0)
tasks_list = []
for t in tasks:
    tasks_list.append({
        'id': t.id,
        'name': t.name,
        'description': t.description,
        'order': t.order,
        'tools': [
            {'id': tool.id, 'name': tool.name, 'description': tool.description}
            for tool in t.tools
        ]
    })

# AJOUT MINIMAL : récupérer le Garant
garant = get_garant_role(activity.id)

# On ajoute 'garant' dans la data
activity_data.append({
    'activity': activity,
    'incoming': incoming_list,
    'outgoing': outgoing_list,
    'tasks': tasks_list,
    'garant': garant # <- nouveau
})

return render_template('display_list.html', activity_data=activity_data)
except Exception as e:
    return f"Erreur lors de l'affichage des activités: {e}", 500

def print_summary():
    print("\n--- RÉSUMÉ DES LIENS ---")

```

```

if link_summaries:
    for (data_name, data_type, s_name, t_name) in link_summaries:
        print(f" - '{data_name}' ({data_type}) : {s_name} -> {t_name}")
else:
    print(" Aucun lien créé")
print("--- Fin du résumé ---\n")
if rename_summaries:
    print("--- Renommages détectés ---")
    for (old, new) in rename_summaries:
        print(f" * '{old}' => '{new}'")
    print("--- Fin des renommages ---\n")
print("CONFIRMATION : toutes les opérations ont été effectuées avec succès.")

```

### roles.py

# Code/routes/roles.py

```

from flask import Blueprint, request, jsonify
from sqlalchemy import text
from Code.extensions import db
from Code.models.models import Role

```

```

roles_bp = Blueprint('roles', __name__, url_prefix='/roles')

```

```

@roles_bp.route('/list', methods=['GET'])

```

```

def list_roles():

```

```

    """

```

```

    Retourne la liste de tous les rôles, triés par ordre alphabétique.

```

```

    """

```

```

    roles = Role.query.order_by(Role.name).all()
    data = [{"id": r.id, "name": r.name} for r in roles]
    return jsonify(data), 200

```

```

@roles_bp.route('/garant/activity/<int:activity_id>', methods=['POST'])

```

```

def set_garant_role(activity_id):

```

```

    """

```

```

    Affecte un rôle Garant à une activité.

```

```

    JSON attendu : { "role_name": "<str>" }

```

- Si le rôle n'existe pas, on le crée
- On supprime l'ancien Garant (s'il existe)
- On insère le nouveau (status='Garant')

```

    """

```

```

    data = request.get_json() or {}
    role_name = data.get("role_name", "").strip()

```

```

if not role_name:
    return jsonify({"error": "role_name is required"}), 400

# Vérifier si le rôle existe déjà
existing = Role.query.filter_by(name=role_name).first()
if not existing:
    existing = Role(name=role_name)
    db.session.add(existing)
    db.session.commit()

# Supprimer l'ancien Garant
db.session.execute(
    text("DELETE FROM activity_roles WHERE activity_id=:aid AND status='Garant'"),
    {"aid": activity_id}
)
# Ajouter le nouveau
db.session.execute(
    text("INSERT INTO activity_roles (activity_id, role_id, status) VALUES (:aid, :rid,
'Garant')"),
    {"aid": activity_id, "rid": existing.id}
)
db.session.commit()

return jsonify({
    "message": f"Rôle Garant '{existing.name}' assigné à l'activité {activity_id}",
    "role": {"id": existing.id, "name": existing.name}
}), 200

```

### roles\_view.py

# Code/routes/roles\_view.py

```

from flask import Blueprint, render_template
from sqlalchemy import text
from Code.extensions import db
from Code.models.models import Role

roles_view_bp = Blueprint('roles_view', __name__, url_prefix='/roles_view',
template_folder='templates')

@roles_view_bp.route('/', methods=['GET'])
def view_roles():
    # Récupérer tous les rôles par ordre alphabétique
    roles = Role.query.order_by(Role.name).all()

```

```

roles_data = []
for role in roles:
    # Bloc 1 : Activités où le rôle est Garant
    garant_activities = db.session.execute(
        text("SELECT a.id, a.name, a.description FROM activity_roles ar JOIN activities a ON
ar.activity_id = a.id "
            "WHERE ar.role_id = :rid AND ar.status = 'Garant'"),
        {"rid": role.id}
    ).fetchall()
    block1 = [{"id": row[0], "name": row[1], "description": row[2]} for row in
garant_activities]

    # Bloc 2 : Pour l'instant, on laisse ce bloc vide
    block2 = []

    # Bloc 3 : Compétences associées aux activités où le rôle est Garant
    competencies = db.session.execute(
        text("SELECT c.id, c.description FROM activity_roles ar JOIN competencies c ON
ar.activity_id = c.activity_id "
            "WHERE ar.role_id = :rid AND ar.status = 'Garant'"),
        {"rid": role.id}
    ).fetchall()
    block3 = [{"id": comp[0], "description": comp[1]} for comp in competencies]

    # Bloc 4 : Habiletés socio-cognitives associées aux activités où le rôle est Garant
    softskills = db.session.execute(
        text("SELECT s.habilete, s.niveau FROM activity_roles ar JOIN softskills s ON
ar.activity_id = s.activity_id "
            "WHERE ar.role_id = :rid AND ar.status = 'Garant'"),
        {"rid": role.id}
    ).fetchall()
    hsc_dict = {}
    for habilete, niveau in softskills:
        try:
            niveau_int = int(niveau)
        except:
            niveau_int = 0
        if habilete in hsc_dict:
            if niveau_int > hsc_dict[habilete]:
                hsc_dict[habilete] = niveau_int
        else:
            hsc_dict[habilete] = niveau_int

```

```

block4 = [{"habilete": k, "niveau": str(v)} for k, v in hsc_dict.items()]

roles_data.append({
    "role": {"id": role.id, "name": role.name},
    "block1": block1,
    "block2": block2,
    "block3": block3,
    "block4": block4
})
return render_template("roles_view.html", roles_data=roles_data)

```

### skills.py

```

import os
import openai
import json
from flask import Blueprint, request, jsonify
from Code.extensions import db
from Code.models.models import Competency

skills_bp = Blueprint('skills', __name__, url_prefix='/skills')

@skills_bp.route('/propose', methods=['POST'])
def propose_skills():
    """
    Génère 2 ou 3 propositions de compétences via l'IA (NF X50-124).
    Reçoit en JSON les infos de l'activité (name, input_data, output_data, tasks, tools).
    """
    data = request.get_json() or {}
    activity_name = data.get("name", "Activité sans nom")
    input_data_value = data.get("input_data", "")
    output_data_value = data.get("output_data", "")

    # Extraire la liste de tâches
    tasks_data = data.get("tasks", [])
    if tasks_data and isinstance(tasks_data[0], dict):
        tasks_list = [t.get("name", "") for t in tasks_data]
    else:
        tasks_list = tasks_data if isinstance(tasks_data, list) else []
    tasks_str = ", ".join(tasks_list) if tasks_list else ""

    # Extraire la liste d'outils
    tools_data = data.get("tools", [])
    if tools_data and isinstance(tools_data[0], dict):

```

```

        tools_list = [t.get("name", "") for t in tools_data]
    else:
        tools_list = tools_data if isinstance(tools_data, list) else []
    tools_str = ", ".join(tools_list) if tools_list else ""

    prompt = f"""
    Vous êtes un expert en gestion des compétences selon la norme NF X50-124.
    Proposez 2 ou 3 phrases de compétences pour l'activité suivante :

```

- Nom : {activity\_name}
- Données d'entrée : {input\_data\_value}
- Données de sortie : {output\_data\_value}
- Tâches : {tasks\_str or "Aucune tâche"}
- Outils : {tools\_str or "Aucun outil"}

Contraintes :

- 1) Chaque phrase doit être rédigée en une seule phrase sans utiliser de listes.
- 2) Ne mentionnez pas l'environnement ni le niveau de performance.
- 3) Ne listez pas explicitement "Données, Tâches, Outils".
- 4) Chaque phrase doit commencer par un verbe d'action.
- 5) Générez exactement 2 ou 3 phrases, chacune sur une nouvelle ligne.

"""

```

    openai.api_key = os.getenv("OPENAI_API_KEY")
    if not openai.api_key:
        return jsonify({"error": "Clé OpenAI manquante (OPENAI_API_KEY)."}), 500

    try:
        response = openai.ChatCompletion.create(
            model="gpt-4",
            messages=[
                {"role": "system", "content": "Vous êtes un assistant spécialisé en compétences NF X50-124."},
                {"role": "user", "content": prompt}
            ],
            temperature=0.3,
            max_tokens=400
        )
        raw_text = response['choices'][0]['message']['content'].strip()
        lines = [l.strip() for l in raw_text.split("\n") if l.strip()]
        return jsonify({"proposals": lines}), 200
    except Exception as e:
        return jsonify({"error": str(e)}), 500

```

```

@skills_bp.route('/add', methods=['POST'])
def add_competency():
    """
    Ajoute une compétence dans la table 'competencies'.
    JSON attendu : { "activity_id": <int>, "description": <str> }
    """
    data = request.get_json() or {}
    activity_id = data.get("activity_id")
    description = data.get("description", "").strip()
    if not activity_id or not description:
        return jsonify({"error": "activity_id and description are required"}), 400

    comp = Competency(activity_id=activity_id, description=description)
    try:
        db.session.add(comp)
        db.session.commit()
        return jsonify({
            "id": comp.id,
            "activity_id": comp.activity_id,
            "description": comp.description
        }), 201
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

@skills_bp.route('/<int:competency_id>', methods=['PUT'])
def update_competency(competency_id):
    """
    Met à jour une compétence existante.
    JSON attendu : { "description": <str> }
    """
    data = request.get_json() or {}
    new_desc = data.get("description", "").strip()
    if not new_desc:
        return jsonify({"error": "description is required"}), 400

    comp = Competency.query.get(competency_id)
    if not comp:
        return jsonify({"error": "Competency not found"}), 404

    try:
        comp.description = new_desc

```

```

        db.session.commit()
    return jsonify({
        "id": comp.id,
        "description": comp.description
    }), 200
except Exception as e:
    db.session.rollback()
    return jsonify({"error": str(e)}), 500

@skills_bp.route('/<int:competency_id>', methods=['DELETE'])
def delete_competency(competency_id):
    comp = Competency.query.get(competency_id)
    if not comp:
        return jsonify({"error": "Competency not found"}), 404
    try:
        db.session.delete(comp)
        db.session.commit()
        return jsonify({"message": "Competency deleted"}), 200
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

```

#### softskills.py

```

import os
import openai
import json
from flask import Blueprint, request, jsonify
from Code.extensions import db
from Code.models.models import Softskill

softskills_bp = Blueprint('softskills_bp', __name__, url_prefix='/softskills')

@softskills_bp.route('/propose', methods=['POST'])
def propose_softskills():
    """
    Propose 3-4 habiletés socio-cognitives (HSC) via l'IA, renvoyées en JSON.
    """
    data = request.get_json()
    if not data:
        return jsonify({"error": "Aucune donnée reçue"}), 400

    activity_info = data.get("activity", "")
    competencies_info = data.get("competencies", "")

```

x50\_766\_hsc = ""

Les habiletés socio-cognitives officielles de la norme X50-766 sont :

Relation à soi :

- Auto-évaluation
- Auto-régulation
- Auto-organisation
- Auto-mobilisation

Relation à l'autre :

- Sensibilité sociale
- Adaptation relationnelle
- Coopération

Relation à l'action :

- Raisonnement logique
- Planification
- Arbitrage

Relation au savoir :

- Traitement de l'information
- Synthèse
- Conceptualisation

Relation à la complexité :

- Flexibilité mentale
- Projection
- Approche globale

""

prompt = f""

Voici une activité avec ses compétences existantes :

Activité : {activity\_info}

Compétences existantes : {competencies\_info}

Propose 3 ou 4 habiletés socio-cognitives officielles (norme X50-766) jugées essentielles pour cette activité.

Utilise uniquement la liste suivante (n'invente pas d'autres habiletés) :

{x50\_766\_hsc}

Pour chaque habileté, indique un niveau entre 1 et 4 (1 = Aptitude, 4 = Excellence).

Réponds au format JSON, par exemple :

```
[
  {"habilete": "Auto-évaluation", "niveau": "2"},
  {"habilete": "Planification", "niveau": "3"}
]
```

```

"""
openai.api_key = os.getenv("OPENAI_API_KEY")
if not openai.api_key:
    return jsonify({"error": "Clé OpenAI manquante (OPENAI_API_KEY)."}), 500
try:
    response = openai.ChatCompletion.create(
        model="gpt-4",
        messages=[
            {"role": "system", "content": "Tu es un expert en habiletés socio-cognitives X50-
766."},
            {"role": "user", "content": prompt}
        ],
        temperature=0.2,
        max_tokens=400
    )
    ai_message = response.choices[0].message['content'].strip()
    proposals = json.loads(ai_message)
    return jsonify(proposals)
except Exception as e:
    return jsonify({"error": f"Erreur lors de la récupération des habiletés socio-cognitives : {str(e)}"}), 500

```

```

@softskills_bp.route('/add', methods=['POST'])
def add_softskill():
    """
    Enregistre une softskill (HSC) dans la table 'softskills'.
    JSON attendu : { "activity_id": <int>, "habilete": <str>, "niveau": <str> }
    """
    data = request.get_json() or {}
    activity_id = data.get("activity_id")
    habilete = data.get("habilete", "").strip()
    niveau = data.get("niveau", "").strip()
    if not activity_id or not habilete or not niveau:
        return jsonify({"error": "activity_id, habilete and niveau are required"}), 400
    new_softskill = Softskill(activity_id=activity_id, habilete=habilete, niveau=niveau)
    try:
        db.session.add(new_softskill)
        db.session.commit()
    return jsonify({
        "id": new_softskill.id,
        "activity_id": new_softskill.activity_id,
        "habilete": new_softskill.habilete,
        "niveau": new_softskill.niveau
    })

```

```

    }), 201
except Exception as e:
    db.session.rollback()
    return jsonify({"error": str(e)}), 500

@softskills_bp.route('/translate', methods=['POST'])
def translate_softskills():
    """
    Reçoit un texte libre (user_input) et renvoie une liste d'HSC.
    Pour limiter la réponse à 3 à 5 HSC, le prompt demande explicitement de ne pas proposer
    plus de 5 objets.
    """
    data = request.get_json() or {}
    user_input = data.get("user_input", "").strip()
    if not user_input:
        return jsonify({"error": "Aucune donnée reçue pour la traduction."}), 400

    x50_766_hsc = """
    Les habiletés socio-cognitives officielles de la norme X50-766 sont :
    Relation à soi :
    - Auto-évaluation
    - Auto-régulation
    - Auto-organisation
    - Auto-mobilisation
    Relation à l'autre :
    - Sensibilité sociale
    - Adaptation relationnelle
    - Coopération
    Relation à l'action :
    - Raisonnement logique
    - Planification
    - Arbitrage
    Relation au savoir :
    - Traitement de l'information
    - Synthèse
    - Conceptualisation
    Relation à la complexité :
    - Flexibilité mentale
    - Projection
    - Approche globale
    """

    prompt = f"""

```

Voici un texte libre décrivant des soft skills :

"{user\_input}"

Analyse ce texte dans le contexte de l'activité et des tâches associées, et traduis-le en une liste de 3 à 5 habiletés socio-cognitives issues de la norme X50-766.

Utilise uniquement la liste suivante (n'invente pas d'autres habiletés) :

{x50\_766\_hsc}

Pour chaque habileté, attribue un niveau entre 1 et 4 (1 = Aptitude, 4 = Excellence).

Réponds au format JSON, par exemple :

```
[
  {"habilete": "Auto-évaluation", "niveau": "2"},
  {"habilete": "Planification", "niveau": "3"}
]
```

Ne propose jamais plus de 5 objets dans le tableau.

"""

```
openai.api_key = os.getenv("OPENAI_API_KEY")
if not openai.api_key:
    return jsonify({"error": "Clé OpenAI manquante (OPENAI_API_KEY)."}), 500

try:
    response = openai.ChatCompletion.create(
        model="gpt-4",
        messages=[
            {"role": "system", "content": "Tu es un expert en habiletés socio-cognitives selon la norme X50-766."},
            {"role": "user", "content": prompt}
        ],
        temperature=0.2,
        max_tokens=400
    )
    ai_message = response.choices[0].message['content'].strip()
    proposals = json.loads(ai_message)
    return jsonify({"proposals": proposals})
except Exception as e:
    return jsonify({"error": f"Erreur lors de la traduction des softskills : {str(e)}"}), 500

@softskills_bp.route('/<int:softskill_id>', methods=["PUT"])
def update_softskill(softskill_id):
    data = request.get_json() or {}
    new_habilete = data.get("habilete", "").strip()
```

```

new_niveau = data.get("niveau", "").strip()
if not new_habilete or not new_niveau:
    return jsonify({"error": "habilete and niveau are required"}), 400

ss = Softskill.query.get(softskill_id)
if not ss:
    return jsonify({"error": "Softskill not found"}), 404

try:
    ss.habilete = new_habilete
    ss.niveau = new_niveau
    db.session.commit()
    return jsonify({
        "id": ss.id,
        "habilete": ss.habilete,
        "niveau": ss.niveau
    }), 200
except Exception as e:
    db.session.rollback()
    return jsonify({"error": str(e)}), 500

@softskills_bp.route('/<int:softskill_id>', methods=['DELETE'])
def delete_softskill(softskill_id):
    ss = Softskill.query.get(softskill_id)
    if not ss:
        return jsonify({"error": "Softskill not found"}), 404
    try:
        db.session.delete(ss)
        db.session.commit()
        return jsonify({"message": "Softskill deleted"}), 200
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500

```

#### tasks.py

```

from flask import Blueprint, request, jsonify
from Code.extensions import db
from Code.models.models import Task, Activities

tasks_bp = Blueprint('tasks', __name__, url_prefix='/tasks')

@tasks_bp.route('/add', methods=['POST'])
def add_task():

```

```

"""
Ajoute une tâche associée à une activité.
Expects JSON with keys: activity_id, name, (optionnellement description et order).
"""

data = request.get_json()
if not data or 'activity_id' not in data or 'name' not in data:
    return jsonify({'error': 'Données invalides. "activity_id" et "name" sont requis.'}), 400

activity = Activities.query.get(data['activity_id'])
if not activity:
    return jsonify({'error': 'Activité non trouvée.'}), 404

new_task = Task(
    name=data['name'],
    description=data.get('description', ''),
    order=data.get('order', None),
    activity_id=data['activity_id']
)
db.session.add(new_task)
db.session.commit()

return jsonify({
    'id': new_task.id,
    'name': new_task.name,
    'description': new_task.description,
    'order': new_task.order,
    'activity_id': new_task.activity_id
}), 201

```

### tools.py

```

from flask import Blueprint, request, jsonify
from Code.extensions import db
from Code.models.models import Task, Tool

tools_bp = Blueprint('tools', __name__, url_prefix='/tools')

@tools_bp.route('/add', methods=['POST'])
def add_tools_to_task():
    data = request.get_json()
    if not data or 'task_id' not in data:
        return jsonify({"error": "task_id is required"}), 400
    task = Task.query.get(data['task_id'])
    if not task:

```

```

        return jsonify({"error": "Task not found"}), 404
    added_tools = []
    try:
        if 'existing_tool_ids' in data and isinstance(data['existing_tool_ids'], list):
            for tool_id in data['existing_tool_ids']:
                tool = Tool.query.get(tool_id)
                if tool and tool not in task.tools:
                    task.tools.append(tool)
                    added_tools.append({"id": tool.id, "name": tool.name})
        if 'new_tools' in data and isinstance(data['new_tools'], list):
            for tool_name in data['new_tools']:
                if tool_name:
                    tool = Tool.query.filter(db.func.lower(Tool.name) == tool_name.lower()).first()
                    if not tool:
                        tool = Tool(name=tool_name)
                        db.session.add(tool)
                        db.session.flush() # obtenir l'id
                    if tool not in task.tools:
                        task.tools.append(tool)
                        added_tools.append({"id": tool.id, "name": tool.name})
            db.session.commit()
    except Exception as e:
        db.session.rollback()
        return jsonify({"error": str(e)}), 500
    return jsonify({"task_id": task.id, "added_tools": added_tools}), 200

```

```

@tools_bp.route('/all', methods=['GET'])
def get_all_tools():
    tools = Tool.query.all()
    return jsonify([{'id': tool.id, 'name': tool.name} for tool in tools])

```

### ui\_routes.py

```

from flask import Blueprint, render_template
from Code.models.models import Activities

ui_bp = Blueprint('ui', __name__, url_prefix='/ui')

@ui_bp.route('/activities', methods=['GET'])
def activities():
    # Récupérer toutes les activités depuis la base de données
    activities = Activities.query.all()
    return render_template('ui/activities.html', activities=activities)

```

## `__init__.py`

# Initialisation du module routes

## `activities_list.html`

```
<!DOCTYPE html>
<html lang="fr">
<head>
  <meta charset="UTF-8">
  <title>Liste des activités</title>
  <!-- Font Awesome pour les icônes -->
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.4.0/css/all.min.css">
  <!-- SortableJS pour le drag & drop -->
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/Sortable/1.15.0/Sortable.min.js"></script>
<style>
  body { font-family: Arial, sans-serif; }
  .update-btn {
    background-color: green;
    color: white;
    padding: 10px 15px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    margin-bottom: 20px;
    font-size: 1em;
  }
  .activity-container { border: 1px solid #aaa; margin-bottom: 20px; overflow: hidden; }
  .activity-header {
    background-color: #add8e6;
    padding: 5px;
    font-size: 0.9em;
    cursor: pointer;
    display: flex;
    align-items: center;
  }
  .activity-header h2 { margin: 0; flex-grow: 1; }
  .toggle-icon { font-size: 1em; margin-right: 5px; }
  .activity-details { padding: 5px; display: none; }
  .connections-container {
    display: flex;
    justify-content: space-between;
    flex-wrap: wrap;
  }
```

```

    margin-top: 10px;
}
.connections-container > div { width: 48%; }
.conn-table { width: 100%; border-collapse: collapse; margin-bottom: 10px; }
.conn-table th, .conn-table td { border: 1px solid #ccc; padding: 4px; text-align: left; }
.conn-table th { background-color: #cce5ff; }
/* Mise en forme conditionnelle des données */
.declenchante { font-weight: bold; }
.nourrissante { font-style: italic; }
.tasks-section { margin-top: 10px; }
.task {
    border: 1px solid #ddd;
    padding: 5px;
    margin-bottom: 10px;
    display: flex;
    flex-direction: column;
}
/* Ligne principale de la tâche en deux colonnes */
.task-row {
    display: flex;
    justify-content: space-between;
    align-items: flex-start;
}
.task-left {
    display: flex;
    align-items: center;
    gap: 5px;
    flex: 1;
}
.task-right {
    display: flex;
    flex-direction: column;
    align-items: flex-start;
    gap: 5px;
    max-width: 250px;
}
.task-title { max-width: 45ch; word-wrap: break-word; }
/* Liste des outils : chaque li sur sa propre ligne */
.tools-list ul {
    list-style: none;
    padding: 0;
    margin: 0;
}

```

```

.tools-list li {
  background: #f0f0f0;
  padding: 2px 5px;
  border-radius: 3px;
  margin-bottom: 5px;
  display: block;
}
/* Bouton d'ajout d'outil : affiché dans un li à part */
.add-tool-li {
  background: none;
  border: none;
  padding: 0;
  margin: 0;
  display: block;
}
.edit-task-form {
  display: none;
  margin-top: 5px;
  border: 1px solid #ccc;
  padding: 5px;
  width: 100%;
}
.task-form, .tool-form {
  margin-top: 5px;
  border: 1px solid #ccc;
  padding: 5px;
}
.icon-btn {
  background: none;
  border: none;
  cursor: pointer;
  margin-left: 5px;
}
.icon-btn i { font-size: 1em; }
</style>
</head>
<body>
<button id="update-cartography-button" class="update-btn">
  <i class="fa-solid fa-arrows-rotate"></i> Mettre à jour la cartographie
</button>
<h1>Liste des activités</h1>
<!-- Ligne de test pour vérifier que ce template est bien utilisé -->
<p style="color:red; font-weight:bold;">Test : {{ test_hello }}</p>

```

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{% for item in activity_data %}
<div class="activity-container">
  <div class="activity-header" onclick="toggleDetails('details-{{ item.activity.id }}', this)">
    <span class="toggle-icon" id="icon-{{ item.activity.id }}">▶</span>
    <h2>{{ item.activity.name }}</h2>
  </div>
  <div class="activity-details" id="details-{{ item.activity.id }}">
    <p>{{ item.activity.description or "" }}</p>
    <div class="connections-container">
      <div class="incoming-connections">
        <h3>Connexions entrantes</h3>
        {% if item.incoming and item.incoming|length > 0 %}
        <table class="conn-table">
          <tr>
            <th>Nom de la donnée</th>
            <th>Provenance</th>
          </tr>
          {% for conn in item.incoming %}
          <tr>
            <td>
              {% if conn.type|lower == 'déclenchante' %}
              <span class="declenchante">{{ conn.data_name }}</span>
              {% elif conn.type|lower == 'nourrissante' %}
              <span class="nourrissante">{{ conn.data_name }}</span>
              {% else %}
              {{ conn.data_name }}
            {% endif %}
            </td>
            <td>{{ conn.source_name }}</td>
          </tr>
          {% endfor %}
        </table>
        {% else %}
        <p>Aucune connexion entrante.</p>
        {% endif %}
      </div>
      <div class="outgoing-connections">
        <h3>Connexions sortantes</h3>
        {% if item.outgoing and item.outgoing|length > 0 %}
        <table class="conn-table">
          <tr>
            <th>Nom de la donnée</th>
            <th>Vers</th>

```

```

</tr>
{% for conn in item.outgoing %}
<tr>
<td>
{% if conn.type|lower == 'déclenchante' %}
<span class="declenchante">{{ conn.data_name }}</span>
{% elif conn.type|lower == 'nourrissante' %}
<span class="nourrissante">{{ conn.data_name }}</span>
{% else %}
{{ conn.data_name }}
{% endif %}
</td>
<td>{{ conn.target_name }}</td>
</tr>
{% endfor %}
</table>
{% else %}
<p>Aucune connexion sortante.</p>
{% endif %}
</div>
</div>
<!-- Section des tâches -->
<div class="tasks-section">
<h3>Tâches</h3>
<div id="tasks-container-{{ item.activity.id }}">
{% if item.tasks and item.tasks|length > 0 %}
<ul id="tasks-list-{{ item.activity.id }}">
{% for task in item.tasks %}
<li class="task" id="task-{{ task.id }}" data-task-id="{{ task.id }}">
<div class="task-row">
<!-- Colonne de gauche -->
<div class="task-left">
<i class="fa-solid fa-bars icon-btn" style="cursor: move;"></i>
<span class="task-title">
<strong id="task-name-display-{{ task.id }}">{{ task.name }}</strong>
{% if task.description %}
- <span id="task-desc-display-{{ task.id }}">{{ task.description }}</span>
{% endif %}
</span>
<button class="icon-btn" onclick="deleteTask('{{ item.activity.id }}', '{{ task.id }}')">
<i class="fa-solid fa-trash"></i>
</button>

```

```

        <button class="icon-btn" onclick="showEditTaskForm('{{ item.activity.id }}', '{{
task.id }}', '{{ task.name }}', '{{ task.description | default("") }}')">
            <i class="fa-solid fa-pencil"></i>
        </button>
    </div>
    <!-- Colonne de droite -->
    <div class="task-right">
        <div class="tools-list" id="tools-for-task-{{ task.id }}">
            <ul>
                {% if task.tools and task.tools|length > 0 %}
                {% for tool in task.tools %}
                <li data-tool-id="{{ tool.id }}">
                    <span class="tool-name">{{ tool.name }}</span>
                    <button class="icon-btn" onclick="deleteToolFromTask('{{ task.id }}', '{{
tool.id }}')">
                        <i class="fa-solid fa-trash"></i>
                    </button>
                </li>
                {% endfor %}
                <!-- Bouton "+" dans un li séparé placé après la liste des outils -->
                <li class="add-tool-li">
                    <button class="icon-btn" onclick="showToolForm('{{ task.id }}')">
                        <i class="fa-solid fa-plus"></i>
                    </button>
                </li>
                {% else %}
                <li id="no-tools-msg-{{ task.id }}">
                    Aucun outil associé.
                    <button class="icon-btn" onclick="showToolForm('{{ task.id }}')">
                        <i class="fa-solid fa-plus"></i>
                    </button>
                </li>
                {% endif %}
            </ul>
        </div>
    </div>
    </div>
    <!-- Formulaire d'édition de la tâche, affiché sous la ligne -->
    <div class="edit-task-form" id="edit-task-form-{{ task.id }}">
        <input type="text" id="edit-task-name-{{ task.id }}" placeholder="Nom de la
tâche" />
        <input type="text" id="edit-task-desc-{{ task.id }}" placeholder="Description
(optionnelle)" />

```

```

        <button onclick="submitEditTask('{{ item.activity.id }}', '{{ task.id
    }}}'">Enregistrer</button>
        <button onclick="hideEditTaskForm('{{ task.id }}'">Annuler</button>
    </div>
    <!-- Formulaire d'ajout d'outils (invisible par défaut) -->
    <div id="tool-form-{{ task.id }}" class="tool-form" style="display: none;">
        <div>
            <label for="existing-tools-{{ task.id }}">Outils existants:</label>
            <select id="existing-tools-{{ task.id }}" multiple style="width:
100%;"></select>
        </div>
        <div>
            <label for="new-tools-{{ task.id }}">Nouveaux outils (séparés par des
virgules):</label>
            <input type="text" id="new-tools-{{ task.id }}" placeholder="Ex: Outil1, Outil2"
style="width: 100%;" />
        </div>
        <button onclick="submitTools('{{ task.id }}'">Enregistrer</button>
        <button onclick="hideToolForm('{{ task.id }}'">Annuler</button>
    </div>
</li>
{% endfor %}
</ul>
{% else %}
    <p id="no-tasks-message-{{ item.activity.id }}">Aucune tâche enregistrée.</p>
{% endif %}
</div>
<button onclick="showTaskForm('{{ item.activity.id }}'">
    <i class="fa-solid fa-plus"></i> Ajouter une tâche
</button>
<div id="task-form-{{ item.activity.id }}" class="task-form" style="display:none;">
    <input type="text" id="task-name-{{ item.activity.id }}" placeholder="Nom de la
tâche" />
    <input type="text" id="task-desc-{{ item.activity.id }}" placeholder="Description
(optionnelle)" />
    <button onclick="submitTask('{{ item.activity.id }}'">Enregistrer</button>
    <button onclick="hideTaskForm('{{ item.activity.id }}'">Annuler</button>
</div>
</div>
<!-- Bouton pour proposer des compétences pour cette activité -->
<button onclick="fetchActivityDetailsForSkills('{{ item.activity.id }}'" style="margin-
top:10px; padding:8px 12px; font-size:0.9em;">
    Proposer Compétences

```

```

        </button>
    </div>
</div>
{% endfor %}
<script>
    // Bouton de mise à jour de la cartographie
    document.getElementById('update-cartography-button').addEventListener('click',
function() {
    fetch('/activities/update-cartography')
    .then(function(response) { return response.json(); })
    .then(function(data) {
        alert(data.message + "\n" + data.summary);
        location.reload();
    })
    .catch(function(error) {
        alert("Erreur lors de la mise à jour de la cartographie: " + error.message);
    });
});
function toggleDetails(detailsId, headerElem) {
    var detailsElem = document.getElementById(detailsId);
    var iconElem = headerElem.querySelector('.toggle-icon');
    var currentDisplay = window.getComputedStyle(detailsElem).display;
    if (currentDisplay === "none") {
        detailsElem.style.display = "block";
        iconElem.textContent = "▼";
    } else {
        detailsElem.style.display = "none";
        iconElem.textContent = "►";
    }
}
}
// Gestion du formulaire d'ajout de tâche
function showTaskForm(activityId) {
    document.getElementById('task-form-' + activityId).style.display = 'block';
}
function hideTaskForm(activityId) {
    document.getElementById('task-form-' + activityId).style.display = 'none';
}
function submitTask(activityId) {
    var taskName = document.getElementById('task-name-' + activityId).value;
    var taskDesc = document.getElementById('task-desc-' + activityId).value;
    if (!taskName) {
        alert("Le nom de la tâche est requis.");
        return;
    }

```

```

}
fetch('/activities/' + activityId + '/tasks/add', {
  method: 'POST',
  headers: { 'Content-Type': 'application/json' },
  body: JSON.stringify({ name: taskName, description: taskDesc })
})
.then(function(response) {
  if (response.ok) return response.json();
  throw new Error("Erreur lors de l'ajout de la tâche.");
})
.then(function(data) {
  var tasksList = document.getElementById('tasks-list-' + activityId);
  if (!tasksList) {
    var noTasksMsg = document.getElementById('no-tasks-message-' + activityId);
    if (noTasksMsg) { noTasksMsg.parentNode.removeChild(noTasksMsg); }
    tasksList = document.createElement('ul');
    tasksList.id = 'tasks-list-' + activityId;
    var tasksSection = document.getElementById('task-form-' + activityId).parentNode;
    tasksSection.appendChild(tasksList);
  }
  var li = document.createElement('li');
  li.className = 'task';
  li.id = 'task-' + data.id;
  li.setAttribute('data-task-id', data.id);
  li.innerHTML = '<div class="task-row">' +
    '<div class="task-left">' +
    '<i class="fa-solid fa-bars icon-btn" style="cursor: move;"></i>' +
    '<span class="task-title"><strong id="task-name-display-' + data.id + '">' +
data.name + '</strong>' +
    (data.description ? ' - <span id="task-desc-display-' + data.id + '">' +
data.description + '</span>' : '') +
    '</span>' +
    '<button class="icon-btn" onclick="deleteTask(\' + activityId + '\', \' +
data.id + '\')"><i class="fa-solid fa-trash"></i></button>' +
    '<button class="icon-btn" onclick="showEditTaskForm(\' + activityId + '\', \' +
+ data.id + '\', \' + data.name + '\', \' + data.description + '\')"><i class="fa-solid fa-
pencil"></i></button>' +
    '</div>' +
    '<div class="task-right">' +
    '<div class="tools-list" id="tools-for-task-' + data.id + '">' +
    '<ul>' +
    '<li id="no-tools-msg-' + data.id + '">Aucun outil associé.</li>' +
    '<li class="add-tool-li">' +

```

```

        '<button class="icon-btn" onclick="showToolForm(\' + data.id + '\')"><i
class="fa-solid fa-plus"></i></button>' +
        '</li>' +
        '</ul>' +
        '</div>' +
        '</div>' +
        '</div>' +
        '<div class="edit-task-form" id="edit-task-form-' + data.id + '">' +
        '<input type="text" id="edit-task-name-' + data.id + '" placeholder="Nom de la
tâche" />' +
        '<input type="text" id="edit-task-desc-' + data.id + '"
placeholder="Description (optionnelle)" />' +
        '<button onclick="submitEditTask(\' + activityId + '\', \' + data.id +
'\')">Enregistrer</button>' +
        '<button onclick="hideEditTaskForm(\' + data.id + '\')">Annuler</button>' +
        '</div>' +
        '<div id="tool-form-' + data.id + '" class="tool-form" style="display: none;">' +
        '<div><label for="existing-tools-' + data.id + '">Outils existants:</label>' +
        '<select id="existing-tools-' + data.id + '" multiple style="width:
100%;"></select></div>' +
        '<div><label for="new-tools-' + data.id + '">Nouveaux outils (séparés par des
virgules):</label>' +
        '<input type="text" id="new-tools-' + data.id + '" placeholder="Ex: Outil1,
Outil2" style="width: 100%;" /></div>' +
        '<button onclick="submitTools(\' + data.id + '\')">Enregistrer</button>' +
        '<button onclick="hideToolForm(\' + data.id + '\')">Annuler</button>' +
        '</div>';
        tasksList.appendChild(li);
        document.getElementById('task-name-' + activityId).value = "";
        document.getElementById('task-desc-' + activityId).value = "";
        hideTaskForm(activityId);
    })
    .catch(function(error) {
        alert(error.message);
    });
}
// Suppression d'une tâche
function deleteTask(activityId, taskId) {
    if (!confirm("Confirmez-vous la suppression de cette tâche ?")) return;
    fetch('/activities/' + activityId + '/tasks/' + taskId, { method: 'DELETE' })
    .then(function(response) {
        if (response.ok) return response.json();
        throw new Error("Erreur lors de la suppression de la tâche.");
    });
}

```

```

    })
    .then(function(data) {
        alert(data.message);
        var taskElem = document.getElementById('task-' + taskId);
        if (taskElem) { taskElem.parentNode.removeChild(taskElem); }
    })
    .catch(function(error) {
        alert(error.message);
    });
}

// Fonction pour afficher le formulaire d'édition d'une tâche
function showEditTaskForm(activityId, taskId, name, description) {
    document.getElementById('edit-task-form-' + taskId).style.display = 'block';
    document.getElementById('edit-task-name-' + taskId).value = name;
    document.getElementById('edit-task-desc-' + taskId).value = description;
}

function hideEditTaskForm(taskId) {
    document.getElementById('edit-task-form-' + taskId).style.display = 'none';
}

function submitEditTask(activityId, taskId) {
    var newName = document.getElementById('edit-task-name-' + taskId).value;
    var newDesc = document.getElementById('edit-task-desc-' + taskId).value;
    if (!newName) {
        alert("Le nom de la tâche est requis.");
        return;
    }
    fetch('/activities/' + activityId + '/tasks/' + taskId, {
        method: 'PUT',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ name: newName, description: newDesc })
    }).then(function(response) {
        if (response.ok) return response.json();
        throw new Error("Erreur lors de la mise à jour de la tâche.");
    }).then(function(data) {
        var nameElem = document.getElementById('task-name-display-' + taskId);
        if (nameElem) { nameElem.textContent = data.name; }
        var descElem = document.getElementById('task-desc-display-' + taskId);
        if (descElem) {
            descElem.textContent = data.description;
        } else {
            var taskTitle = document.querySelector('#task-name-display-' +
taskId).parentNode;
            var span = document.createElement('span');

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```

        span.id = 'task-desc-display-' + taskId;
        span.textContent = data.description;
        taskTitle.appendChild(document.createTextNode(" - "));
        taskTitle.appendChild(span);
    }
    hideEditTaskForm(taskId);
}).catch(function(error) {
    alert(error.message);
});
}
// Suppression d'un outil d'une tâche sans recharger la page
function deleteToolFromTask(taskId, toolId) {
    if (!confirm("Confirmez-vous la suppression de cet outil de la tâche ?")) return;
    fetch('/activities/tasks/' + taskId + '/tools/' + toolId, { method: 'DELETE' })
        .then(function(response) {
            if (response.ok) return response.json();
            throw new Error("Erreur lors de la suppression de l'outil.");
        })
        .then(function(data) {
            var toolsContainer = document.getElementById('tools-for-task-' + taskId);
            var ul = toolsContainer.querySelector('ul');
            if (!ul) return;
            var toolElem = ul.querySelector('li[data-tool-id="' + toolId + '"]');
            if (toolElem) {
                toolElem.parentNode.removeChild(toolElem);
            }
            // Vérifier si le bouton "+" existe ; si non, le réinsérer
            var addBtn = ul.querySelector('li.add-tool-li');
            if (!addBtn) {
                var newAddLi = document.createElement('li');
                newAddLi.className = 'add-tool-li';
                newAddLi.innerHTML = '<button class="icon-btn" onclick="showToolForm(\' +
taskId + '\')"><i class="fa-solid fa-plus"></i></button>';
                ul.appendChild(newAddLi);
            }
        })
        .catch(function(error) {
            alert(error.message);
        });
}
// Fonctions pour gérer le formulaire d'ajout d'outils
function showToolForm(taskId) {
    document.getElementById('tool-form-' + taskId).style.display = 'block';
}

```

```

fetch('/tools/all')
.then(function(response) { return response.json(); })
.then(function(data) {
    var selectElem = document.getElementById('existing-tools-' + taskId);
    selectElem.innerHTML = "";
    data.forEach(function(tool) {
        var option = document.createElement('option');
        option.value = tool.id;
        option.text = tool.name;
        selectElem.appendChild(option);
    });
})
.catch(function(error) {
    console.error("Erreur lors du chargement des outils existants:", error);
});
}
function hideToolForm(taskId) {
    document.getElementById('tool-form-' + taskId).style.display = 'none';
}
function submitTools(taskId) {
    var selectElem = document.getElementById('existing-tools-' + taskId);
    var newToolsInput = document.getElementById('new-tools-' + taskId);
    var existingToolIds = Array.from(selectElem.selectedOptions).map(function(option) {
return parseInt(option.value); });
    var newTools = newToolsInput.value.split(",").map(function(item) { return item.trim();
}).filter(function(item) { return item.length > 0; });
    var payload = {
        task_id: parseInt(taskId),
        existing_tool_ids: existingToolIds,
        new_tools: newTools
    };
    fetch('/tools/add', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify(payload)
    })
    .then(function(response) {
        if (response.ok) return response.json();
        return response.json().then(function(err) { throw new Error(err.error || "Erreur lors
de l'ajout des outils."); });
    })
    .then(function(data) {
        var toolsContainer = document.getElementById('tools-for-task-' + taskId);

```

```

var ul = toolsContainer.querySelector('ul');
if (!ul) {
    ul = document.createElement('ul');
    toolsContainer.appendChild(ul);
}
// Retirer le bouton "+" existant s'il est présent
var addBtn = ul.querySelector('li.add-tool-li');
if (addBtn) {
    addBtn.parentNode.removeChild(addBtn);
}
data.added_tools.forEach(function(tool) {
    var li = document.createElement('li');
    li.setAttribute("data-tool-id", tool.id);
    li.innerHTML = tool.name + ' <button class="icon-btn"
onclick="deleteToolFromTask(\' + taskId + '\', \' + tool.id + '\')"><i class="fa-solid fa-
trash"></i></button>';
    ul.appendChild(li);
});
// Réinsérer le bouton "+" en tant que li isolé
var newAddLi = document.createElement('li');
newAddLi.className = 'add-tool-li';
newAddLi.innerHTML = '<button class="icon-btn" onclick="showToolForm(\' +
taskId + '\')"><i class="fa-solid fa-plus"></i></button>';
ul.appendChild(newAddLi);
selectElem.selectedIndex = -1;
newToolsInput.value = "";
hideToolForm(taskId);
})
.catch(function(error) {
    alert(error.message);
});
}
// Initialisation du drag & drop pour réordonner les tâches et sauvegarder l'ordre
document.addEventListener('DOMContentLoaded', function() {
    var taskLists = document.querySelectorAll('[id^="tasks-list-"]');
    taskLists.forEach(function(list) {
        Sortable.create(list, {
            animation: 150,
            handle: '.fa-bars',
            onEnd: function(evt) {
                var list = evt.from;
                var listId = list.getAttribute('id'); // e.g. tasks-list-123
                var activityId = listId.split('-')[2]; // Extrait l'id de l'activité
            }
        });
    });
});

```

```

    var newOrder = [];
    list.querySelectorAll('li.task').forEach(function(taskElem) {
        newOrder.push(taskElem.getAttribute('data-task-id'));
    });
    fetch('/activities/' + activityId + '/tasks/reorder', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ order: newOrder })
    }).then(function(response) {
        if (!response.ok) {
            console.error("Erreur de sauvegarde de l'ordre");
        }
    });
}
});
});
</script>
{% include "skills_section.html" %}
</body>
</html>

```

#### activity\_competencies.html

```
<h3>Compétences</h3>
```

```

<ul id="competencies-list-{{ item.activity.id }}">
    {% for comp in item.activity.competencies %}
        <li data-comp-id="{{ comp.id }}" style="margin-bottom:5px;">
            <span class="validated-skill-text">{{ comp.description }}</span>
            <button onclick="editCompetency(this, {{ comp.id }})" style="margin-left:5px;">
                <i class="fa-solid fa-pencil"></i>
            </button>
            <button onclick="deleteCompetency(this, {{ comp.id }})" style="margin-left:5px;">
                <i class="fa-solid fa-trash"></i>
            </button>
            <!-- Formulaire d'édition local (caché) -->
            <div class="edit-competency-form" id="edit-competency-form-{{ comp.id }}"
style="display:none; margin-top:5px;">
                <label>Description :</label>
                <input type="text" id="edit-competency-desc-{{ comp.id }}" value="{{ comp.description
}}"/>
                <button onclick="submitEditCompetency('{{ comp.id }}')">Enregistrer</button>
                <button onclick="hideEditCompetencyForm('{{ comp.id }}')">Annuler</button>

```

```

    </div>
  </li>
{% endfor %}
</ul>

```

```

<!-- Bouton pour proposer des compétences (ouvre le modal via skills_section.html) -->
<button onclick="fetchActivityDetailsForSkills({{ item.activity.id }})">
  Proposer Compétences
</button>

```

#### activity\_connections.html

```

<p>{{ item.activity.description or "" }}</p>
<div class="connections-container">
  <div class="incoming-connections">
    <h3>Connexions entrantes</h3>
    {% if item.incoming and item.incoming|length > 0 %}
      <table class="conn-table">
        <tr>
          <th>Nom de la donnée</th>
          <th>Provenance</th>
        </tr>
        {% for conn in item.incoming %}
          <tr>
            <td>
              {% if conn.type|lower == 'déclenchante' %}
                <span class="declenchante">{{ conn.data_name }}</span>
              {% elif conn.type|lower == 'nourrissante' %}
                <span class="nourrissante">{{ conn.data_name }}</span>
              {% else %}
                {{ conn.data_name }}
              {% endif %}
            </td>
            <td>{{ conn.source_name }}</td>
          </tr>
        {% endfor %}
      </table>
    {% else %}
      <p>Aucune connexion entrante.</p>
    {% endif %}
  </div>
  <div class="outgoing-connections">
    <h3>Connexions sortantes</h3>
    {% if item.outgoing and item.outgoing|length > 0 %}

```

```

<table class="conn-table">
  <tr>
    <th>Nom de la donnée</th>
    <th>Vers</th>
  </tr>
  {% for conn in item.outgoing %}
    <tr>
      <td>
        {% if conn.type|lower == 'déclenchante' %}
          <span class="declenchante">{{ conn.data_name }}</span>
        {% elif conn.type|lower == 'nourrissante' %}
          <span class="nourrissante">{{ conn.data_name }}</span>
        {% else %}
          {{ conn.data_name }}
        {% endif %}
      </td>
      <td>{{ conn.target_name }}</td>
    </tr>
  {% endfor %}
</table>
{% else %}
  <p>Aucune connexion sortante.</p>
{% endif %}
</div>
</div>

```

#### activity\_header.html

```

<div class="activity-container">
  <div class="activity-header" onclick="toggleDetails('details-{{ item.activity.id }}', this)">
    <span class="toggle-icon" id="icon-{{ item.activity.id }}">▶</span>
    <h2>{{ item.activity.name }}</h2>
  </div>
  <div class="activity-details" id="details-{{ item.activity.id }}">

```

#### activity\_softskills.html

```

<h3>Habilités socio-cognitives</h3>

<div id="softskills-list-{{ activity_id }}">
  {% for ss in item.activity.softskills %}
    <div class="softskill-item" style="margin-bottom:5px;" data-ss-id="{{ ss.id }}">
      <span class="softskill-text">{{ ss.habilete }} (Niveau: <span class="softskill-level">{{
ss.niveau }}</span>)</span>

```

```

        <i class="fas fa-pencil-alt edit-softskill" title="Modifier"></i>
        <i class="fas fa-trash delete-softskill" title="Supprimer"></i>
        <div class="edit-softskill-form" id="edit-softskill-form-{{ ss.id }}" style="display:none;">
            <label>Habilité :</label>
            <input type="text" id="edit-softskill-name-{{ ss.id }}" value="{{ ss.habilete }}" />
            <label>Niveau (1..4) :</label>
            <input type="number" min="1" max="4" id="edit-softskill-level-{{ ss.id }}" value="{{
ss.niveau }}" />
            <button onclick="submitEditSoftskillFromDOM('{{ ss.id }}')">Enregistrer</button>
            <button onclick="hideEditSoftskillForm('{{ ss.id }}')">Annuler</button>
        </div>
    </div>
    {% endfor %}
</div>

```

```

<button class="define-hsc-btn" data-activity-id="{{ activity_id }}">
    Proposer HSC
</button>
<button onclick="openTranslateSoftskillsModal('{{ activity_id }}')">
    Traduire Softskills
</button>

```

```

<div class="softskill-form">
    <label for="softskill-name-{{ activity_id }}">Nom de l'HSC :</label>
    <input type="text" id="softskill-name-{{ activity_id }}" />

    <label for="softskill-level-{{ activity_id }}">Niveau (1..4) :</label>
    <input type="number" min="1" max="4" id="softskill-level-{{ activity_id }}" />

    <button onclick="submitSoftskill('{{ activity_id }}')">Ajouter</button>
</div>

```

#### activity\_tasks.html

```

<!-- activity_tasks.html -->
<div class="tasks-section">
    <h3>Tâches</h3>
    <ul id="tasks-list-{{ item.activity.id }}">
        {% for task in item.tasks %}
        <li class="task" id="task-{{ task.id }}" data-task-id="{{ task.id }}">
            <div class="task-row">
                <div class="task-left">
                    <i class="fa-solid fa-bars icon-btn" style="cursor: move;"></i>
                    <span class="task-title">

```

```

<strong id="task-name-display-{{ task.id }}">{{ task.name }}</strong>
{% if task.description %}
  - <span id="task-desc-display-{{ task.id }}">{{ task.description }}</span>
{% endif %}
</span>
<button class="icon-btn" onclick="deleteTask('{{ item.activity.id }}', '{{ task.id }}')">
  <i class="fa-solid fa-trash"></i>
</button>
<button class="icon-btn" onclick="showEditTaskForm('{{ item.activity.id }}', '{{
task.id }}', '{{ task.name }}', '{{ task.description|default("") }}')">
  <i class="fa-solid fa-pencil"></i>
</button>
</div>
<div class="task-right">
<div class="tools-list" id="tools-for-task-{{ task.id }}">
<ul>
  {% if task.tools and task.tools|length > 0 %}
  {% for tool in task.tools %}
    <li data-tool-id="{{ tool.id }}">
      <span class="tool-name">{{ tool.name }}</span>
      <button class="icon-btn" onclick="deleteToolFromTask('{{ task.id }}', '{{ tool.id
}}}')">
        <i class="fa-solid fa-trash"></i>
      </button>
    </li>
  {% endfor %}
  {% else %}
    <li id="no-tools-msg-{{ task.id }}">Aucun outil associé.</li>
  {% endif %}
  <li class="add-tool-li">
    <button class="icon-btn add-tool-btn" onclick="showToolForm('{{ task.id }}')">
      <i class="fa-solid fa-plus"></i>
    </button>
  </li>
</ul>
</div>
</div>
</div>

<!-- Formulaire d'édition de la tâche -->
<div class="edit-task-form" id="edit-task-form-{{ task.id }}">
  <input type="text" id="edit-task-name-{{ task.id }}" placeholder="Nom de la tâche" />
  <input type="text" id="edit-task-desc-{{ task.id }}" placeholder="Description

```

```

(optionnelle)" />
    <button onclick="submitEditTask('{{ item.activity.id }}', '{{ task.id
}}')">Enregistrer</button>
    <button onclick="hideEditTaskForm('{{ task.id }}')">Annuler</button>
</div>

<!-- Formulaire d'ajout d'outils (invisible par défaut) -->
<div id="tool-form-{{ task.id }}" class="tool-form" style="display: none;">
    <div>
        <label for="existing-tools-{{ task.id }}">Outils existants:</label>
        <select id="existing-tools-{{ task.id }}" multiple style="width: 100%;"></select>
    </div>
    <div>
        <label for="new-tools-{{ task.id }}">Nouveaux outils (séparés par des
virgules):</label>
        <input type="text" id="new-tools-{{ task.id }}" placeholder="Ex: Outil1, Outil2"
style="width: 100%;" />
    </div>
    <button onclick="submitTools('{{ task.id }}')">Enregistrer</button>
    <button onclick="hideToolForm('{{ task.id }}')">Annuler</button>
</div>
</li>
{% endfor %}
</ul>

<!-- Bouton pour ajouter une nouvelle tâche -->
<button onclick="showTaskForm('{{ item.activity.id }}')" style="margin-top:5px;
padding:5px 10px; font-size:0.8em;">
    <i class="fa-solid fa-plus"></i> Ajouter une tâche
</button>

<!-- Formulaire d'ajout de tâche (invisible par défaut) -->
<div id="task-form-{{ item.activity.id }}" class="task-form" style="display:none;">
    <input type="text" id="task-name-{{ item.activity.id }}" placeholder="Nom de la tâche"
/>
    <input type="text" id="task-desc-{{ item.activity.id }}" placeholder="Description
(optionnelle)" />
    <button onclick="submitTask('{{ item.activity.id }}')">Enregistrer</button>
    <button onclick="hideTaskForm('{{ item.activity.id }}')">Annuler</button>
</div>
</div>

```

### competency\_modal.html

```
<div id="competencyModal"
  style="display:none; position:fixed; left:20%; top:20%; width:60%; background:#fff;
    border:1px solid #aaa; padding:10px; z-index:9999;">
  <h4>Propositions de compétences :</h4>
  <ul id="proposalsList" style="list-style:none; padding-left:0;"></ul>
  <div style="margin-top:10px;">
    <button onclick="validateAllSelectedProposals()">Valider les compétences</button>
    <button onclick="closeCompetencyModal()">Annuler</button>
  </div>
</div>
```

```
<script>
```

```
let proposalsGlobal = [];
```

```
let currentActivityId = null;
```

```
function showProposalsModal(proposals, activityId) {
  proposalsGlobal = proposals;
  currentActivityId = activityId;
  const proposalsList = document.getElementById('proposalsList');
  proposalsList.innerHTML = "";
```

```
  proposals.forEach((proposal, index) => {
    const li = document.createElement('li');
    li.style.marginBottom = "5px";
    li.innerHTML = `
      <input type="checkbox" id="proposal-${index}" data-proposal="${proposal}">
      <label for="proposal-${index}">${proposal}</label>
    `;
    proposalsList.appendChild(li);
  });
```

```
  document.getElementById('competencyModal').style.display = "block";
}
```

```
function validateAllSelectedProposals() {
  const proposalsList = document.getElementById('proposalsList');
  const checkboxes = proposalsList.querySelectorAll('input[type="checkbox"]:checked');
  if (checkboxes.length === 0) {
    alert("Veuillez sélectionner au moins une proposition.");
    return;
  }
  let addPromises = [];
```

```

checkboxes.forEach(cb => {
  const text = cb.getAttribute('data-proposal') || "Compétence ?";
  let p = fetch('/skills/add', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({
      activity_id: currentActivityId,
      description: text
    })
  })
  .then(response => response.json())
  .then(data => {
    if (data.error) {
      console.error("Erreur en ajoutant la compétence:", data.error);
    } else {
      // Ajouter dans le DOM
      addCompetencyItemToDOM(currentActivityId, data.id, data.description);
    }
  })
  .catch(error => {
    console.error("Erreur /skills/add:", error);
  });
  addPromises.push(p);
});
Promise.all(addPromises).then(() => {
  closeCompetencyModal();
  alert("Compétences sauvegardées en base.");
});
}

function closeCompetencyModal() {
  document.getElementById('competencyModal').style.display = "none";
}
</script>

```

### display\_list.html

```

<!DOCTYPE html>
<html lang="fr">
<head>
  <meta charset="UTF-8">
  <title>Liste des activités</title>

  <!-- Font Awesome pour les icônes -->

```

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">
```

```
<!-- Feuille de style principale -->
```

```
<link rel="stylesheet" href="/static/optiq.css">
```

```
<!-- SortableJS pour le drag & drop -->
```

```
<script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/Sortable/1.15.0/Sortable.min.js"></script>
```

```
<!-- jQuery nécessaire pour les fonctions -->
```

```
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
```

```
</head>
```

```
<body>
```

```
<!-- Bouton pour mettre à jour la cartographie -->
```

```
<button id="update-cartography-button" class="update-btn">
```

```
<i class="fa-solid fa-arrows-rotate"></i> Mettre à jour la cartographie
```

```
</button>
```

```
<!-- Bouton pour accéder à la vue des rôles -->
```

```
<a href="/roles_view/" style="display:inline-block; margin:10px 0; padding:10px 15px; background:#007BFF; color:#fff; text-decoration:none; border-radius:5px;">
```

```
Voir la vue des rôles
```

```
</a>
```

```
<h1>Liste des activités</h1>
```

```
{% for item in activity_data %}
```

```
<div class="activity-container">
```

```
<!-- En-tête cliquable -->
```

```
<div class="activity-header" onclick="toggleDetails('{{ item.activity.id }}', this)">
```

```
<span class="toggle-icon" id="icon-{{ item.activity.id }}">▶</span>
```

```
<h2>{{ item.activity.name }}</h2>
```

```
</div>
```

```
<!-- Bloc pour afficher le rôle Garant -->
```

```
<div style="margin:5px 0;">
```

```
<span id="activity-garant-{{ item.activity.id }}">
```

```
Garant : {% if item.garant %}{{ item.garant.name }}{% else %}Aucun{% endif %}
```

```
</span>
```

```
<button onclick="openGarantModal('{{ item.activity.id }}'" style="margin-left:10px;">Changer Garant</button>
```

```
</div>
```

```

<!-- Zone de détails (initialement masquée) -->
<div class="activity-details" id="details-{{ item.activity.id }}" style="display:none;">
  <p>{{ item.activity.description or "" }}</p>

  <!-- Connexions entrantes / sortantes -->
  {% include "activity_connections.html" %}

  <!-- Tâches -->
  {% include "activity_tasks.html" %}

  <!-- Compétences validées + bouton "Proposer Compétences" -->
  {% include "activity_competencies.html" %}

  {% set activity_id = item.activity.id %}
  <!-- Habiletés socio-cognitives -->
  {% include "activity_softskills.html" %}
</div>
</div>
{% endfor %}

<!-- Inclusion du modal pour le rôle Garant -->
{% include "roles_modal.html" %}

<!-- Inclusion des modules pour compétences & softskills -->
{% include "translate_softskills_modal.html" %}
{% include "skills_section.html" %}
{% include "competency_modal.html" %}

<!-- Inclusion des fichiers JavaScript -->
<script src="/static/js/tasks.js"></script>
<script src="/static/js/tools.js"></script>
<script src="/static/js/competencies.js"></script>
<script src="/static/js/softskills.js"></script>
<script src="/static/js/translate_softskills.js"></script>
<script src="/static/js/main.js"></script>
<script src="/static/js/roles.js"></script>

<script>
  document.getElementById('update-cartography-button').addEventListener('click',
function() {
  fetch('/activities/update-cartography')
  .then(response => response.json())

```

```

.then(data => {
  let msg = (data.message || "") + "\n" + (data.summary || "");
  alert(msg.trim());
  location.reload();
})
.catch(error => {
  alert("Erreur lors de la mise à jour de la cartographie: " + error.message);
});
});

function toggleDetails(detailsId, headerElem) {
  var detailsElem = document.getElementById(detailsId);
  var iconElem = headerElem.querySelector('.toggle-icon');
  var currentDisplay = window.getComputedStyle(detailsElem).display;
  if (currentDisplay === "none") {
    detailsElem.style.display = "block";
    iconElem.textContent = "▼";
  } else {
    detailsElem.style.display = "none";
    iconElem.textContent = "►";
  }
}
</script>
</body>
</html>

```

### roles\_modal.html

```

<!-- Code/routes/templates/roles_modal.html -->
<div id="garantModal" style="display:none; position: fixed; top:20%; left:30%; width:40%;
background: #fff; border:1px solid #aaa; padding:20px; z-index:9999;">
  <h3>Choisir le rôle Garant</h3>
  <input type="hidden" id="garant-activity-id" value="">
  <label for="garant-role-select">Rôle existant :</label>
  <select id="garant-role-select" style="width:100%;"></select>
  <br/><br/>
  <label for="garant-new-role">Ou saisir un nouveau rôle :</label>
  <input type="text" id="garant-new-role" style="width:100%;" placeholder="Ex: Chef de
projet">
  <br/><br/>
  <button onclick="submitGarantRole()">Valider</button>
  <button onclick="closeGarantModal()">Annuler</button>
</div>

```

## roles\_view.html

```
<!DOCTYPE html>
<html lang="fr">
<head>
  <meta charset="UTF-8">
  <title>Vue des Rôles</title>
  <link rel="stylesheet" href="/static/optiq.css">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">
  <style>
    /* Conteneur global du rôle */
    .role-container {
      border: 1px solid #ccc;
      padding: 10px;
      margin-bottom: 10px;
      background-color: #2ecc71; /* Fond vert pour le rôle */
      color: #fff;
    }
    .role-header {
      cursor: pointer;
      font-size: 1.2em;
      font-weight: bold;
      padding: 5px;
      background-color: #27ae60;
    }
    .toggle-icon {
      margin-right: 5px;
    }
    /* Blocs internes (le header conserve la couleur d'origine) */
    .role-block {
      margin: 5px 0;
      border: 1px solid rgba(255,255,255,0.6);
    }
    .block-1 { background-color: #1e8449; }
    .block-2 { background-color: #27ae60; }
    .block-3 { background-color: #27ae60; }
    .block-4 { background-color: #a9dfbf; }
    .block-header {
      cursor: pointer;
      font-size: 1em;
      font-weight: bold;
      padding: 3px;
      border-bottom: 1px solid rgba(255,255,255,0.6);
    }
```

```

    color: #fff;
}
/* Style commun pour le contenu déployé de tous les blocs */
.block-content {
    display: none;
    background-color: #fff;
    color: #000;
    padding: 10px;
}
/* Bouton Retour */
.back-button {
    display: inline-block;
    margin: 10px 0;
    padding: 10px 15px;
    background-color: #007BFF;
    color: #fff;
    text-decoration: none;
    border-radius: 5px;
}
</style>
</head>
<body>
<!-- Bouton pour revenir à la vue des activités -->
<a href="/activities/view" class="back-button">
    <i class="fa-solid fa-arrow-left"></i> Retour aux activités
</a>

<h1>Vue des Rôles</h1>

{% for item in roles_data %}
<div class="role-container">
    <!-- En-tête du rôle, cliquable pour déplier/replier le conteneur complet -->
    <div class="role-header" onclick="toggleRoleContainer('role-body-{{ item.role.id }}',
this)">
        <span class="toggle-icon" id="role-icon-{{ item.role.id }}">▶</span>
        Rôle : {{ item.role.name }}
    </div>
    <div id="role-body-{{ item.role.id }}" style="display:none;">
        <!-- Bloc 1 : Activités où ce rôle est Garant -->
        <div class="role-block block-1">
            <div class="block-header" onclick="toggleBlock('block1-{{ item.role.id }}', this)">
                <span class="toggle-icon" id="block1-icon-{{ item.role.id }}">▶</span>
                Bloc 1 : Activités où ce rôle est Garant

```

```

</div>
<div id="block1-{{ item.role.id }}" class="block-content">
  {% if item.block1 %}
    <ul>
      {% for act in item.block1 %}
        <li>{{ act.name }} (ID: {{ act.id }}) - {{ act.description }}</li>
      {% endfor %}
    </ul>
  {% else %}
    <p>Aucune activité trouvée.</p>
  {% endif %}
</div>
</div>
<!-- Bloc 2 : Activités/Tâches où ce rôle intervient (non Garant) -->
<div class="role-block block-2">
  <div class="block-header" onclick="toggleBlock('block2-{{ item.role.id }}', this)">
    <span class="toggle-icon" id="block2-icon-{{ item.role.id }}">▶</span>
    Bloc 2 : Activités/Tâches où ce rôle intervient (non Garant)
  </div>
  <div id="block2-{{ item.role.id }}" class="block-content">
    {% if item.block2 %}
      <ul>
        {% for act in item.block2 %}
          <li>{{ act.name }} (ID: {{ act.id }})</li>
        {% endfor %}
      </ul>
    {% else %}
      <p>Aucune donnée pour ce bloc.</p>
    {% endif %}
  </div>
</div>
<!-- Bloc 3 : Compétences associées -->
<div class="role-block block-3">
  <div class="block-header" onclick="toggleBlock('block3-{{ item.role.id }}', this)">
    <span class="toggle-icon" id="block3-icon-{{ item.role.id }}">▶</span>
    Bloc 3 : Compétences associées aux activités Garant
  </div>
  <div id="block3-{{ item.role.id }}" class="block-content">
    {% if item.block3 %}
      <ul>
        {% for comp in item.block3 %}
          <li>{{ comp.description }} (ID: {{ comp.id }})</li>
        {% endfor %}
      </ul>
    </div>
  </div>

```

```

        </ul>
        {% else %}
        <p>Aucune compétence trouvée.</p>
        {% endif %}
    </div>
</div>
<!-- Bloc 4 : Habiletés socio-cognitives -->
<div class="role-block block-4">
    <div class="block-header" onclick="toggleBlock('block4-{{ item.role.id }}', this)">
        <span class="toggle-icon" id="block4-icon-{{ item.role.id }}">▶</span>
        Bloc 4 : Habiletés socio-cognitives
    </div>
    <div id="block4-{{ item.role.id }}" class="block-content">
        {% if item.block4 %}
        <ul>
            {% for hsc in item.block4 %}
            <li>{{ hsc.habilete }} - Niveau: {{ hsc.niveau }}</li>
            {% endfor %}
        </ul>
        {% else %}
        <p>Aucune habileté trouvée.</p>
        {% endif %}
    </div>
</div>
</div>
</div>
{% endfor %}

<script>
function toggleRoleContainer(containerId, headerElem) {
    var container = document.getElementById(containerId);
    var roleId = containerId.split('-')[1];
    var icon = document.getElementById('role-icon-' + roleId);
    if (container.style.display === "none") {
        container.style.display = "block";
        icon.textContent = "▼";
    } else {
        container.style.display = "none";
        icon.textContent = "▶";
    }
}

function toggleBlock(blockId, headerElem) {

```

```

var block = document.getElementById(blockId);
var icon = document.getElementById(blockId.replace('block', 'block-icon'));
if (!icon) {
  icon = headerElem.querySelector('.toggle-icon');
}
if (block.style.display === "none") {
  block.style.display = "block";
  if (icon) { icon.textContent = "▼"; }
} else {
  block.style.display = "none";
  if (icon) { icon.textContent = "►"; }
}
}
</script>
</body>
</html>

```

#### skills\_section.html

```

<script>
function fetchActivityDetailsForSkills(activityId) {
  fetch(`/activities/${activityId}/details`)
    .then(response => response.json())
    .then(data => {
      if (data.error) {
        alert("Erreur : " + data.error);
        return;
      }
      proposeSkills(data);
    })
    .catch(error => {
      alert("Erreur lors de la récupération des données : " + error.message);
    });
}

function proposeSkills(activityData) {
  fetch('/skills/propose', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify(activityData)
  })
    .then(response => response.json())
    .then(data => {
      if (data.error) {

```

```

        alert("Erreur dans la proposition: " + data.error);
        return;
    }
    showProposalsModal(data.proposals, activityData.id);
})
.catch(error => {
    alert("Erreur : " + error.message);
});
}
</script>

```

#### translate\_softskills\_modal.html

```

<div id="translateSoftskillsModal"
    style="display:none; position:fixed; left:20%; top:20%; width:60%; background:#fff;
        border:1px solid #aaa; padding:10px; z-index:9999;">
    <h4>Traduire Softskills</h4>
    <p>Entrez ci-dessous ce que vous considérez comme soft skills :</p>
    <textarea id="translateSoftskillsInput" style="width:100%; height:100px;"></textarea>
    <div style="margin-top:10px;">
        <button onclick="submitSoftskillsTranslation()">Valider</button>
        <button onclick="closeTranslateSoftskillsModal()">Annuler</button>
    </div>
</div>

<script>
function openTranslateSoftskillsModal(activityId) {
    console.log("openTranslateSoftskillsModal - activityId:", activityId);
    window.translateSoftskillsActivityId = activityId;
    document.getElementById('translateSoftskillsModal').style.display = 'block';
}

function closeTranslateSoftskillsModal() {
    console.log("closeTranslateSoftskillsModal");
    document.getElementById('translateSoftskillsModal').style.display = 'none';
    window.translateSoftskillsActivityId = null;
}

function submitSoftskillsTranslation() {
    console.log("submitSoftskillsTranslation triggered");
    const activityId = window.translateSoftskillsActivityId;
    if (!activityId) {
        alert("Identifiant de l'activité introuvable.");
        return;
    }
}

```

```

}
const userInputElem = document.getElementById('translateSoftskillsInput');
const userInput = userInputElem.value.trim();
if (!userInput) {
    alert("Veuillez saisir du texte.");
    return;
}

// Appel /softskills/translate
$.ajax({
    url: '/softskills/translate',
    method: 'POST',
    contentType: 'application/json',
    data: JSON.stringify({ user_input: userInput }),
    success: function(response) {
        console.log("Réponse de /softskills/translate:", response);
        if (!response.proposals) {
            alert("Réponse inattendue : pas de 'proposals' !");
            return;
        }
        let addPromises = [];
        response.proposals.forEach(function(item) {
            let p = $.ajax({
                url: '/softskills/add',
                method: 'POST',
                contentType: 'application/json',
                data: JSON.stringify({
                    activity_id: activityId,
                    habilete: item.habilete,
                    niveau: item.niveau
                }),
                success: function(added) {
                    if (added.error) {
                        console.error("Erreur ajout HSC:", added.error);
                    } else {
                        addSoftskillItemToDOM(activityId, added.habilete, added.niveau, added.id);
                    }
                },
                error: function(err) {
                    console.error("Erreur /softskills/add:", err);
                }
            });
            addPromises.push(p);
        });
    }
});

```

```

});
$.when.apply($, addPromises).then(function() {
    userInputElem.value = "";
    closeTranslateSoftskillsModal();
});
},
error: function() {
    alert("Erreur lors de la traduction des softskills.");
}
});
}
</script>

```

#### [extract\\_visio.py](#)

```

import os
import sys
from vsdx import VisioFile

# Pour pouvoir importer Code.extensions et Code.models.models
sys.path.append(os.path.abspath(os.path.join(os.path.dirname(__file__), '..', '..')))

from Code.extensions import db
from Code.models.models import Activities, Data, Link

# Calques Visio gérés
LAYER_MAPPING = {
    "1": "Activity",    # rectangle normal
    "9": "N link",     # ligne pointillée => nourrissante
    "10": "T link",    # ligne pleine => déclenchante
    "6": "Result",     # drapeau => activité de résultat
    "8": "Return"      # rond => retour
}

# Calques à ignorer
IGNORE_LAYERS = ["légende", "Color"]

# Mappings globaux (shape_id => ID en base)
activity_mapping = {}
data_mapping = {}
return_mapping = {} # retours

# Stocke en mémoire les connecteurs rencontrés : [ { 'data_id':..., 'data_name':...,
'data_type':..., 'from_id':..., 'to_id':... }, ... ]

```

```
connectors_list = []
```

```
# Pour résumé / logs
```

```
link_summaries = [] # liste (data_name, data_type, source_name, target_name)
```

```
rename_summaries = [] # liste (old_name, new_name)
```

```
def create_app():
```

```
    """Exécuter ce script directement (standalone)."""
```

```
    from flask import Flask
```

```
    app = Flask(__name__)
```

```
    instance_path = os.path.abspath(os.path.join("Code", "instance"))
```

```
    if not os.path.exists(instance_path):
```

```
        os.makedirs(instance_path)
```

```
    db_path = os.path.join(instance_path, "optiq.db")
```

```
    app.config["SQLALCHEMY_DATABASE_URI"] = f"sqlite:/// {db_path}"
```

```
    app.config["SQLALCHEMY_TRACK_MODIFICATIONS"] = False
```

```
    db.init_app(app)
```

```
    return app
```

```
def process_visio_file(vsd_path):
```

```
    """
```

```
    1) Parcourt toutes les pages / formes
```

```
    2) Gère creation / maj / suppression de Activities/Data + fusion retours
```

```
    3) Vide la table 'links'
```

```
    4) Reconstitue tous les liens (Link) depuis 'connectors_list'
```

```
    5) Nettoie orphelins
```

```
    6) Affiche un résumé
```

```
    """
```

```
    if not os.path.exists(vsd_path):
```

```
        print(f"ERREUR : Fichier Visio introuvable : {vsd_path}")
```

```
        return
```

```
    print(f"INFO : Démarrage de l'import depuis {vsd_path}")
```

```
    # Réinit
```

```
    activity_mapping.clear()
```

```
    data_mapping.clear()
```

```
    return_mapping.clear()
```

```
    connectors_list.clear()
```

```
    link_summaries.clear()
```

```
    rename_summaries.clear()
```

```

# 1) Parcours du visio
with VisioFile(vsd_path) as visio:
    for page in visio.pages:
        print(f"INFO : Analyse de la page : {page.name}")
        for shape in page.all_shapes:
            process_shape(shape)

# 2) Suppression des activités et data obsolètes
del_act_count = remove_activities_not_in_new_mapping()
del_data_count = remove_data_not_in_new_mapping()

# 3) On vide la table 'links'
Link.query.delete()
db.session.commit()
print("INFO : Table 'links' vidée, on va la reconstruire à partir de connectors_list...")

# 4) Reconstruire la table des liens
rebuild_links_from_connectors()

# 5) Nettoyage final orphelins (optionnel)
cleanup_orphan_links()

# Récap
print("INFO : Import terminé.")
print(f"    Activités ajoutées/mises à jour : {len(activity_mapping)} ; supprimées : {del_act_count}")
print(f"    Data (connecteurs/retours) totaux : {len(data_mapping)+len(return_mapping)} ; supprimés : {del_data_count}")
print_summary()

def process_shape(shape):
    """Oriente selon le calque (Activity, Return, T link, N link, etc.)."""
    layer = get_layer(shape)
    if not layer:
        return
    if layer.lower() in [x.lower() for x in IGNORE_LAYERS]:
        return

    if layer == "Activity":
        add_or_update_activity(shape, is_result=False)
    elif layer == "Result":

```

```

        add_or_update_activity(shape, is_result=True)
    elif layer == "Return":
        add_or_update_return(shape)
    elif layer in ("T link", "N link"):
        store_connector_info(shape, layer)
    else:
        print(f"INFO : Calque '{layer}' non traité => forme '{shape.text or '??'}' ignorée.")

#####
#####
# A) Gestion Activities
#####
#####

def add_or_update_activity(shape, is_result=False):
    key = standardize_id(shape.ID)
    txt = shape.text.strip() if shape.text else ("Résultat sans nom" if is_result else "Activité sans nom")

    fill = get_fill_pattern(shape)
    if fill and fill != "1":
        is_result = True

    act = Activities.query.filter_by(shape_id=key).first()
    if act:
        changed = False
        old_name = act.name
        if old_name != txt:
            act.name = txt
            rename_summaries.append((old_name, txt))
            changed = True
        if act.is_result != is_result:
            act.is_result = is_result
            changed = True
        if changed:
            print(f"INFO : Activity (ID={act.id}) maj => name='{txt}', is_result={is_result}")
        else:
            print(f"INFO : Activity (ID={act.id}) déjà existante, pas de modif.")
    else:
        new_a = Activities(name=txt, is_result=is_result, shape_id=key)
        db.session.add(new_a)
        db.session.flush()

```

```

        print(f"INFO : Activity créée => '{txt}' (ID={new_a.id}, shape_id={key},
is_result={is_result})")
        act = new_a

```

```

activity_mapping[key] = act.id
db.session.commit()

```

```

def remove_activities_not_in_new_mapping():
    existing_acts = Activities.query.filter(Activities.shape_id.isnot(None)).all()
    count = 0
    for act in existing_acts:
        if act.shape_id not in activity_mapping:
            print(f"INFO : Suppression Activity '{act.name}' (ID={act.id},
shape_id={act.shape_id})")
            db.session.delete(act)
            count += 1
    db.session.commit()
    return count

```

```

#####
#####
# B) Gestion Data / Retours
#####
#####

```

```

def add_or_update_return(shape):
    """
    Gère une forme 'Return' => Data(type='Retour').
    1) Crée/MAJ
    2) Fusion si d'autres Retours ont le même nom
    """
    key = standardize_id(shape.ID)
    txt = shape.text.strip() or "Retour sans nom"

    d = Data.query.filter_by(shape_id=key, type="Retour").first()
    if d:
        old = d.name
        if old != txt:
            d.name = txt
            rename_summaries.append((old, txt))
            db.session.commit()

```

```

        print(f"INFO : Return (ID={d.id}) renommé '{old}' => '{txt}'")
    else:
        d = Data(name=txt, type="Retour", shape_id=key)
        db.session.add(d)
        db.session.flush()
        print(f"INFO : Return créé => '{txt}' (ID={d.id}, shape_id={key})")

    return_mapping[key] = d.id
    db.session.commit()

# Fusion
unify_retours(d)

def unify_retours(d):
    """Si d'autres Data(type='Retour') ont le même .name, on supprime (sauf d)."""
    keeper_id = d.id
    duplicates = Data.query.filter(
        Data.type == "Retour",
        Data.name == d.name,
        Data.id != keeper_id
    ).all()
    for dupe in duplicates:
        print(f"INFO : Fusion retours => supprime Return ID={dupe.id}
shape_id={dupe.shape_id}")
        db.session.delete(dupe)
    db.session.commit()

def store_connector_info(shape, layer):
    """
    Au lieu de créer direct le link, on stocke en mémoire :
    - data (type déclenchante/nourrissante)
    - shape_id => data en base
    - from_id / to_id
    """
    key = standardize_id(shape.ID)
    txt = shape.text.strip() or "Donnée sans nom"
    data_type = "déclenchante" if layer == "T link" else "nourrissante"

    d = Data.query.filter_by(shape_id=key, type=data_type).first()
    if d:
        old = d.name

```

```

        if old != txt:
            d.name = txt
            rename_summaries.append((old, txt))
            db.session.commit()
            print(f"INFO : Connector rename: (ID={d.id}) '{old}' => '{txt}'")
        else:
            d = Data(name=txt, type=data_type, shape_id=key, layer=layer)
            db.session.add(d)
            db.session.flush()
            print(f"INFO : Connector créé => '{txt}' (ID={d.id}, shape_id={key})")

data_mapping[key] = d.id
db.session.commit()

# On récupère from_id / to_id sans créer de link
conns = analyze_connections(shape)
from_id = conns.get("from_id")
to_id = conns.get("to_id")

connectors_list.append({
    "data_id": d.id,
    "data_name": d.name,
    "data_type": data_type,
    "from_raw": from_id,
    "to_raw": to_id
})

def remove_data_not_in_new_mapping():
    existing_data = Data.query.filter(Data.shape_id.isnot(None)).all()
    count = 0
    for d in existing_data:
        sid = d.shape_id
        if sid not in data_mapping and sid not in return_mapping:
            print(f"INFO : Suppression data '{d.name}' (ID={d.id}, type={d.type},
shape_id={sid})")
            db.session.delete(d)
            count += 1
    db.session.commit()
    return count

#####

```

```
#####
# C) Reconstruction des liens
#####
#####
```

```
def rebuild_links_from_connectors():
    """
    Pour chaque connecteur stocké dans connectors_list, on crée un unique Link
    (source=..., target=..., description=data_name) si from/to pointent vers
    des entités valides (Activity ou Data).
    """
    for c in connectors_list:
        data_id = c["data_id"]
        data_name = c["data_name"]
        data_type = c["data_type"]
        from_raw = c["from_raw"]
        to_raw = c["to_raw"]

        if not from_raw or not to_raw or (from_raw == to_raw):
            print(f"INFO : Connecteur partiel/boucle => '{data_name}', on ignore.")
            continue

        (skind, sid) = resolve_visio_id(from_raw)
        (tkind, tid) = resolve_visio_id(to_raw)

        if not sid or not tid or sid == tid:
            print(f"INFO : Connecteur impossible => '{data_name}' => on ignore")
            continue

        create_single_link(data_id, data_name, data_type, skind, sid, tkind, tid)

def create_single_link(data_id, data_name, data_type, skind, sid, tkind, tid):
    """
    Crée un Link (description=data_name) reliant
    source(activity/data) => target(activity/data),
    si le lien n'existe pas déjà.
    """
    s_name = get_entity_name(sid, skind)
    t_name = get_entity_name(tid, tkind)

    new_link = Link(type=data_type, description=data_name)
```

```

if skind == 'activity':
    new_link.source_activity_id = sid
else:
    new_link.source_data_id = sid

if tkind == 'activity':
    new_link.target_activity_id = tid
else:
    new_link.target_data_id = tid

# Vérif duplication
q = Link.query.filter_by(type=data_type, description=data_name)
if new_link.source_activity_id:
    q = q.filter_by(source_activity_id=new_link.source_activity_id)
else:
    q = q.filter_by(source_data_id=new_link.source_data_id)

if new_link.target_activity_id:
    q = q.filter_by(target_activity_id=new_link.target_activity_id)
else:
    q = q.filter_by(target_data_id=new_link.target_data_id)

if q.first():
    print(f"INFO : Lien déjà existant => {s_name} -> {t_name} (data='{data_name}') => on
ignore")
    return

db.session.add(new_link)
db.session.flush()

link_summaries.append((data_name, data_type, s_name, t_name))
print(f"INFO : Lien créé => {s_name} -> {t_name} (data='{data_name}')")

#####
#####
# D) Nettoyage final + Récap
#####
#####

def cleanup_orphan_links():
    """
    En théorie, si on reconstruit tout, plus grand-chose orphelin.

```

Mais on fait un check final si un lien pointe sur un ID inexistant.

```
"""
```

```
all_links = Link.query.all()
removed = 0
for lk in all_links:
    remove_this = False
    if lk.source_activity_id and not Activities.query.get(lk.source_activity_id):
        remove_this = True
    if lk.source_data_id and not Data.query.get(lk.source_data_id):
        remove_this = True
    if lk.target_activity_id and not Activities.query.get(lk.target_activity_id):
        remove_this = True
    if lk.target_data_id and not Data.query.get(lk.target_data_id):
        remove_this = True
    if remove_this:
        print(f"INFO : Suppression lien orphelin ID={lk.id}, desc='{lk.description}'")
        db.session.delete(lk)
        removed += 1

if removed > 0:
    db.session.commit()
    print(f"INFO : {removed} lien(s) orphelin(s) supprimé(s).")
```

```
def get_entity_name(eid, kind):
    """Renvoie le .name de l'activité ou du data pour logs."""
    if not eid:
        return "???"
    if kind == 'activity':
        a = Activities.query.get(eid)
        return a.name if a else "activité_inconnue"
    elif kind == 'data':
        dd = Data.query.get(eid)
        return dd.name if dd else "data_inconnue"
    return "inconnu"
```

```
def get_layer(shape):
    cell = shape.xml.find("./{*}Cell[@N='LayerMember']")
    if cell is not None:
        val = cell.get("V")
        return LAYER_MAPPING.get(val, val)
    return None
```

```
def get_fill_pattern(shape):
    cell = shape.xml.find("./{*}Cell[@N='FillPattern']")
    if cell is not None:
        return cell.get("V")
    return None
```

```
def analyze_connections(shape):
    """Retourne {'from_id':..., 'to_id':...}"""
    conns = {"from_id": None, "to_id": None}
    for cell in shape.xml.findall("./{*}Cell"):
        n = cell.get("N")
        f = cell.get("F")
        if n == "BeginX":
            conns["from_id"] = extract_shape_id(f)
        elif n == "EndX":
            conns["to_id"] = extract_shape_id(f)
    return conns
```

```
def extract_shape_id(f_val):
    if f_val and "Sheet." in f_val:
        try:
            return int(f_val.split("Sheet.")[1].split("!")[0])
        except:
            return None
    return None
```

```
def resolve_visio_id(raw_id):
    """
    Convertit l'int 'raw_id' en (kind, db_id).
    S'il s'agit d'un Return, on tente d'associer l'activité correspondante si possible.
    """
    if not raw_id:
        return (None, None)
    key = str(raw_id).lower() # plus simple qu'un standardize_id

    # 1) Activity
    if key in activity_mapping:
        return ('activity', activity_mapping[key])
```

```

# 2) Data normal
if key in data_mapping:
    return ('data', data_mapping[key])

# 3) Data 'Return'
if key in return_mapping:
    d_id = return_mapping[key]
    d = Data.query.get(d_id)
    if d and d.type.lower() == "retour":
        # Chercher activity portant le même name
        same_act = Activities.query.filter_by(name=d.name).first()
        if same_act:
            return ('activity', same_act.id)
    return ('data', d_id)

return (None, None)

```

```

def standardize_id(visio_id):
    """Convertit shape.ID en string stable (p.ex "10")."""
    try:
        return str(int(visio_id)).strip().lower()
    except:
        return str(visio_id).strip().lower()

```

```

def print_summary():
    print("\n--- RÉSUMÉ DES LIENS CRÉÉS ---")
    if link_summaries:
        for (data_name, data_type, s_name, t_name) in link_summaries:
            print(f" - '{data_name}' ({data_type}) : {s_name} -> {t_name}")
    else:
        print(" Aucun lien créé")
    print("--- Fin du résumé ---\n")

    if rename_summaries:
        print("--- Renommages détectés ---")
        for (old, new) in rename_summaries:
            print(f" * '{old}' => '{new}'")
        print("--- Fin des renommages ---\n")

```

```

print("CONFIRMATION : toutes les opérations ont été effectuées avec succès.")

```

```

def remove_activities_not_in_new_mapping():
    existing_acts = Activities.query.filter(Activities.shape_id.isnot(None)).all()
    count = 0
    for act in existing_acts:
        if act.shape_id not in activity_mapping:
            print(f"INFO : Suppression Activity '{act.name}' ID={act.id}, shape_id={act.shape_id}")
            db.session.delete(act)
            count += 1
    db.session.commit()
    return count

```

```

def remove_data_not_in_new_mapping():
    existing_data = Data.query.filter(Data.shape_id.isnot(None)).all()
    count = 0
    for d in existing_data:
        if d.shape_id not in data_mapping and d.shape_id not in return_mapping:
            print(f"INFO : Suppression Data '{d.name}' ID={d.id}, shape_id={d.shape_id}")
            db.session.delete(d)
            count += 1
    db.session.commit()
    return count

```

```

if __name__ == "__main__":
    from flask import Flask
    app = create_app()
    with app.app_context():
        vsdx_path = os.path.join("Code", "example.vsdX") # adapter si besoin
        process_visio_file(vsdx_path)

```

[\\_\\_init\\_\\_.py](#)

[env.py](#)

```

import logging
from logging.config import fileConfig

from flask import current_app

from alembic import context

```

```

# this is the Alembic Config object, which provides
# access to the values within the .ini file in use.
config = context.config

# Interpret the config file for Python logging.
# This line sets up loggers basically.
fileConfig(config.config_file_name)
logger = logging.getLogger('alembic.env')

def get_engine():
    try:
        # this works with Flask-SQLAlchemy<3 and Alchemical
        return current_app.extensions['migrate'].db.get_engine()
    except (TypeError, AttributeError):
        # this works with Flask-SQLAlchemy>=3
        return current_app.extensions['migrate'].db.engine

def get_engine_url():
    try:
        return get_engine().url.render_as_string(hide_password=False).replace(
            '%', '%%')
    except AttributeError:
        return str(get_engine().url).replace('%', '%%')

# add your model's MetaData object here
# for 'autogenerate' support
# from myapp import mymodel
# target_metadata = mymodel.Base.metadata
config.set_main_option('sqlalchemy.url', get_engine_url())
target_db = current_app.extensions['migrate'].db

# other values from the config, defined by the needs of env.py,
# can be acquired:
# my_important_option = config.get_main_option("my_important_option")
# ... etc.

def get_metadata():
    if hasattr(target_db, 'metadatas'):

```

```
    return target_db.metadataas[None]
return target_db.metadata
```

```
def run_migrations_offline():
```

```
    """Run migrations in 'offline' mode.
```

This configures the context with just a URL and not an Engine, though an Engine is acceptable here as well. By skipping the Engine creation we don't even need a DBAPI to be available.

Calls to `context.execute()` here emit the given string to the script output.

```
    """
```

```
    url = config.get_main_option("sqlalchemy.url")
    context.configure(
        url=url, target_metadata=get_metadata(), literal_binds=True
    )
```

```
    with context.begin_transaction():
        context.run_migrations()
```

```
def run_migrations_online():
```

```
    """Run migrations in 'online' mode.
```

In this scenario we need to create an Engine and associate a connection with the context.

```
    """
```

```
# this callback is used to prevent an auto-migration from being generated
# when there are no changes to the schema
# reference: http://alembic.zzzcomputing.com/en/latest/cookbook.html
```

```
def process_revision_directives(context, revision, directives):
```

```
    if getattr(config.cmd_opts, 'autogenerate', False):
```

```
        script = directives[0]
```

```
        if script.upgrade_ops.is_empty():
```

```
            directives[:] = []
```

```
            logger.info('No changes in schema detected.')
```

```

conf_args = current_app.extensions['migrate'].configure_args
if conf_args.get("process_revision_directives") is None:
    conf_args["process_revision_directives"] = process_revision_directives

connectable = get_engine()

with connectable.connect() as connection:
    context.configure(
        connection=connection,
        target_metadata=get_metadata(),
        **conf_args
    )

    with context.begin_transaction():
        context.run_migrations()

if context.is_offline_mode():
    run_migrations_offline()
else:
    run_migrations_online()

```

### 37f4fdd5526b\_migration\_initiale\_avec\_la\_nouvelle\_.py

"""Migration initiale avec la nouvelle table Link

Revision ID: 37f4fdd5526b

Revises:

Create Date: 2025-02-25 19:45:51.119227

"""

```

from alembic import op
import sqlalchemy as sa

```

# revision identifiers, used by Alembic.

revision = '37f4fdd5526b'

down\_revision = None

branch\_labels = None

depends\_on = None

```

def upgrade():

```

```

    # ### commands auto generated by Alembic - please adjust! ###

```

```

op.create_table('activities',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('shape_id', sa.String(length=50), nullable=True),
sa.Column('name', sa.String(length=200), nullable=False),
sa.Column('description', sa.Text(), nullable=True),
sa.Column('is_result', sa.Boolean(), nullable=False),
sa.PrimaryKeyConstraint('id')
)
with op.batch_alter_table('activities', schema=None) as batch_op:
    batch_op.create_index(batch_op.f('ix_activities_shape_id'), ['shape_id'], unique=True)

```

```

op.create_table('data',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('shape_id', sa.String(length=50), nullable=True),
sa.Column('name', sa.String(length=255), nullable=False),
sa.Column('type', sa.String(length=50), nullable=False),
sa.Column('description', sa.Text(), nullable=True),
sa.Column('layer', sa.String(length=50), nullable=True),
sa.PrimaryKeyConstraint('id')
)
with op.batch_alter_table('data', schema=None) as batch_op:
    batch_op.create_index(batch_op.f('ix_data_shape_id'), ['shape_id'], unique=True)

```

```

op.create_table('roles',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('name', sa.String(length=100), nullable=False),
sa.PrimaryKeyConstraint('id'),
sa.UniqueConstraint('name')
)
op.create_table('tools',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('name', sa.String(length=255), nullable=False),
sa.Column('description', sa.Text(), nullable=True),
sa.PrimaryKeyConstraint('id'),
sa.UniqueConstraint('name')
)
op.create_table('activity_roles',
sa.Column('activity_id', sa.Integer(), nullable=False),
sa.Column('role_id', sa.Integer(), nullable=False),
sa.Column('status', sa.String(length=50), nullable=False),
sa.ForeignKeyConstraint(['activity_id'], ['activities.id'], ),
sa.ForeignKeyConstraint(['role_id'], ['roles.id'], ),
sa.PrimaryKeyConstraint('activity_id', 'role_id')

```

```

)
op.create_table('competencies',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('description', sa.Text(), nullable=False),
sa.Column('activity_id', sa.Integer(), nullable=False),
sa.ForeignKeyConstraint(['activity_id'], ['activities.id'], ),
sa.PrimaryKeyConstraint('id')
)
op.create_table('links',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('source_activity_id', sa.Integer(), nullable=True),
sa.Column('source_data_id', sa.Integer(), nullable=True),
sa.Column('target_activity_id', sa.Integer(), nullable=True),
sa.Column('target_data_id', sa.Integer(), nullable=True),
sa.Column('type', sa.String(length=50), nullable=False),
sa.Column('description', sa.Text(), nullable=True),
sa.ForeignKeyConstraint(['source_activity_id'], ['activities.id'], ),
sa.ForeignKeyConstraint(['source_data_id'], ['data.id'], ),
sa.ForeignKeyConstraint(['target_activity_id'], ['activities.id'], ),
sa.ForeignKeyConstraint(['target_data_id'], ['data.id'], ),
sa.PrimaryKeyConstraint('id')
)
op.create_table('softskills',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('habilete', sa.String(length=255), nullable=False),
sa.Column('niveau', sa.String(length=10), nullable=False),
sa.Column('activity_id', sa.Integer(), nullable=False),
sa.ForeignKeyConstraint(['activity_id'], ['activities.id'], ),
sa.PrimaryKeyConstraint('id')
)
op.create_table('tasks',
sa.Column('id', sa.Integer(), nullable=False),
sa.Column('name', sa.String(length=255), nullable=False),
sa.Column('description', sa.Text(), nullable=True),
sa.Column('order', sa.Integer(), nullable=True),
sa.Column('activity_id', sa.Integer(), nullable=False),
sa.ForeignKeyConstraint(['activity_id'], ['activities.id'], ),
sa.PrimaryKeyConstraint('id')
)
op.create_table('task_roles',
sa.Column('task_id', sa.Integer(), nullable=False),
sa.Column('role_id', sa.Integer(), nullable=False),
sa.Column('status', sa.String(length=50), nullable=False),

```

```

sa.ForeignKeyConstraint(['role_id'], ['roles.id'], ),
sa.ForeignKeyConstraint(['task_id'], ['tasks.id'], ),
sa.PrimaryKeyConstraint('task_id', 'role_id')
)
op.create_table('task_tools',
sa.Column('task_id', sa.Integer(), nullable=False),
sa.Column('tool_id', sa.Integer(), nullable=False),
sa.ForeignKeyConstraint(['task_id'], ['tasks.id'], ),
sa.ForeignKeyConstraint(['tool_id'], ['tools.id'], ),
sa.PrimaryKeyConstraint('task_id', 'tool_id')
)
# ### end Alembic commands ###

```

```

def downgrade():
    # ### commands auto generated by Alembic - please adjust! ###
    op.drop_table('task_tools')
    op.drop_table('task_roles')
    op.drop_table('tasks')
    op.drop_table('softskills')
    op.drop_table('links')
    op.drop_table('competencies')
    op.drop_table('activity_roles')
    op.drop_table('tools')
    op.drop_table('roles')
    with op.batch_alter_table('data', schema=None) as batch_op:
        batch_op.drop_index(batch_op.f('ix_data_shape_id'))

    op.drop_table('data')
    with op.batch_alter_table('activities', schema=None) as batch_op:
        batch_op.drop_index(batch_op.f('ix_activities_shape_id'))

    op.drop_table('activities')
    # ### end Alembic commands ###

```

#### optiq.css

```

/* ===== Reprise complète du style de la dernière version fonctionnelle ===== */

/* Corps de page */
body {
    font-family: Arial, sans-serif;
}

```

```
/* Bouton de mise à jour de la cartographie */  
.update-btn {  
  background-color: green;  
  color: white;  
  padding: 10px 15px;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
  margin-bottom: 20px;  
  font-size: 1em;  
}
```

```
/* Conteneur principal de chaque activité */  
.activity-container {  
  border: 1px solid #aaa;  
  margin-bottom: 20px;  
  overflow: hidden;  
}
```

```
/* En-tête de l'activité, police réduite */  
.activity-header {  
  background-color: #add8e6;  
  padding: 5px;  
  font-size: 0.8em; /* police un peu réduite */  
  cursor: pointer;  
  display: flex;  
  align-items: center;  
}  
.activity-header h2 {  
  margin: 0;  
  flex-grow: 1;  
  font-size: 1em;  
}  
.toggle-icon {  
  font-size: 1em;  
  margin-right: 5px;  
}
```

```
/* Détails de l'activité masqués par défaut */  
.activity-details {  
  padding: 5px;  
  display: none;  
}
```

```
/* Connexions entrantes/sortantes : conteneur + titres */
.connections-container {
  display: flex;
  justify-content: space-between;
  flex-wrap: wrap;
  margin-top: 10px;
}
.connections-container > div {
  width: 48%;
}
/* Titre plus petit pour "Connexions entrantes" et "Connexions sortantes" */
.connections-container h3 {
  font-size: 0.9em;
  margin: 0 0 5px 0;
}
```

```
/* Tableau de connexions */
.conn-table {
  width: 100%;
  border-collapse: collapse;
  margin-bottom: 10px;
}
.conn-table th,
.conn-table td {
  border: 1px solid #ccc;
  padding: 4px;
  text-align: left;
}
.conn-table th {
  background-color: #cce5ff;
}
```

```
/* Mise en forme conditionnelle : déclenchante/nourrissante */
.declenchante {
  font-weight: bold;
}
.nourrissante {
  font-style: italic;
}
```

```
/* Section Tâches */
.tasks-section {
```

```
    margin-top: 10px;
}
.tasks-section h3 {
    font-size: 0.9em;
    margin-bottom: 5px;
}
```

```
/* Conteneur de chaque tâche */
.task {
    border: 1px solid #ddd;
    padding: 5px;
    margin-bottom: 10px;
    display: flex;
    flex-direction: column;
}
```

```
/* Ligne principale de la tâche */
.task-row {
    display: flex;
    justify-content: space-between;
    align-items: flex-start;
}
.task-left {
    display: flex;
    align-items: center;
    gap: 5px;
    flex: 1;
}
.task-right {
    display: flex;
    flex-direction: column;
    align-items: flex-start;
    gap: 5px;
    max-width: 250px;
}
```

```
/* Titre de la tâche (nom + description) */
.task-title {
    max-width: 45ch;
    word-wrap: break-word;
}
```

```
/* Liste des outils : inline-block pour les aligner sur une ligne, text-align: left */
```

```

.tools-list ul {
  list-style: none;
  padding: 0;
  margin: 0;
  text-align: left;
}
.tools-list li {
  background: #f0f0f0;
  padding: 2px 5px;
  border-radius: 3px;
  margin-bottom: 5px;
  display: inline-block; /* pour aligner sur une ligne */
  margin-right: 5px;
}

/* Bouton d'ajout d'outil : stylé plus petit, mieux aligné */
.add-tool-btn {
  width: 24px;
  height: 24px;
  border: 1px solid #ccc;
  background-color: #fafafa;
  display: inline-flex;
  align-items: center;
  justify-content: center;
  vertical-align: middle;
  margin: 0;
  padding: 0;
}

/* Formulaire d'édition de tâche */
.edit-task-form {
  display: none;
  margin-top: 5px;
  border: 1px solid #ccc;
  padding: 5px;
  width: 100%;
}

/* Formulaires d'ajout de tâche / d'outils */
.task-form,
.tool-form {
  margin-top: 5px;
  border: 1px solid #ccc;

```

```
padding: 5px;
}

/* Boutons icônes (poubelle, crayon, etc.) */
.icon-btn {
  background: none;
  border: none;
  cursor: pointer;
  margin-left: 5px;
}
.icon-btn i {
  font-size: 1em;
}
```

### competencies.js

```
// static/js/competencies.js

/**
 * Ajoute une compétence dans le DOM (après /skills/add).
 */
function addCompetencyItemToDOM(activityId, compId, description) {
  const container = document.getElementById(`competencies-list-${activityId}`);
  if (!container) return;
  const li = document.createElement('li');
  li.setAttribute('data-comp-id', compId);
  li.style.marginBottom = "5px";
  li.innerHTML = `
    <span class="validated-skill-text">${description}</span>
    <button onclick="editCompetency(this, ${compId})" style="margin-left:5px;">
      <i class="fa-solid fa-pencil"></i>
    </button>
    <button onclick="deleteCompetency(this, ${compId})" style="margin-left:5px;">
      <i class="fa-solid fa-trash"></i>
    </button>
    <div class="edit-competency-form" id="edit-competency-form-${compId}"
  style="display:none; margin-top:5px;">
    <label>Description :</label>
    <input type="text" id="edit-competency-desc-${compId}" value="${description}" />
    <button onclick="submitEditCompetency('${compId}')">Enregistrer</button>
    <button onclick="hideEditCompetencyForm('${compId}')">Annuler</button>
  </div>
  `;
  container.appendChild(li);
}
```

```

}

// Ouvre le formulaire d'édition
function editCompetency(buttonElem, compId) {
  document.getElementById(`edit-competency-form-${compId}`).style.display = "block";
}

// Ferme le formulaire d'édition
function hideEditCompetencyForm(compId) {
  document.getElementById(`edit-competency-form-${compId}`).style.display = "none";
}

// Soumet la mise à jour (PUT /skills/<compId>)
function submitEditCompetency(compId) {
  const newDesc = document.getElementById(`edit-competency-desc-${compId}`).value.trim();
  if (!newDesc) {
    alert("Veuillez saisir une description.");
    return;
  }
  fetch(`/skills/${compId}`, {
    method: 'PUT',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ description: newDesc })
  })
  .then(res => res.json())
  .then(data => {
    if (data.error) {
      alert("Erreur : " + data.error);
    } else {
      // On met à jour le texte dans le DOM
      const li = document.querySelector(`li[data-comp-id='${compId}']`);
      if (li) {
        li.querySelector('.validated-skill-text').textContent = data.description;
        hideEditCompetencyForm(compId);
        alert("Compétence mise à jour en base.");
      }
    }
  })
  .catch(err => {
    alert("Erreur lors de la mise à jour : " + err.message);
  });
}

```

```
// Supprime une compétence (DELETE /skills/<compId>)
function deleteCompetency(buttonElem, compId) {
  if (!confirm("Confirmez-vous la suppression de cette compétence ?")) return;
  fetch(`/skills/${compId}`, { method: 'DELETE' })
    .then(res => res.json())
    .then(data => {
      if (data.error) {
        alert("Erreur : " + data.error);
      } else {
        const li = buttonElem.parentNode;
        li.parentNode.removeChild(li);
        alert("Compétence supprimée.");
      }
    })
    .catch(err => {
      alert("Erreur lors de la suppression : " + err.message);
    });
}
```

#### main.js

```
// main.js - Fonctions globales
```

```
// Fonction pour ouvrir/fermer les activités
function toggleDetails(detailsId, headerElem) {
  console.log("toggleDetails called with detailsId =", detailsId);
  const detailsElem = document.getElementById(detailsId);
  const iconElem = headerElem.querySelector('.toggle-icon');
  const currentDisplay = window.getComputedStyle(detailsElem).display;
  if (currentDisplay === "none") {
    detailsElem.style.display = "block";
    iconElem.textContent = "▼";
  } else {
    detailsElem.style.display = "none";
    iconElem.textContent = "►";
  }
}
console.log("toggleDetails loaded in main.js");
```

```
// Fonctions globales pour récupérer les informations d'une activité
function getActivityDetails(activityId) {
  const detailsElem = document.getElementById('details-' + activityId);
  return detailsElem ? detailsElem.innerText : "";
}
```

```
}
```

```
function getCompetenciesData(activityId) {  
  const compElem = document.getElementById('competencies-' + activityId);  
  return compElem ? compElem.innerText : "";  
}
```

### roles.js

```
// static/js/roles.js
```

```
function openGarantModal(activityId) {  
  document.getElementById('garantModal').style.display = 'block';  
  document.getElementById('garant-activity-id').value = activityId;
```

```
  // Charger la liste des rôles
```

```
  let selectElem = document.getElementById('garant-role-select');  
  selectElem.innerHTML = "";
```

```
  fetch('/roles/list')
```

```
  .then(response => response.json())
```

```
  .then(data => {
```

```
    data.forEach(r => {
```

```
      let opt = document.createElement('option');
```

```
      opt.value = r.name;
```

```
      opt.textContent = r.name;
```

```
      selectElem.appendChild(opt);
```

```
    });
```

```
  })
```

```
  .catch(err => {
```

```
    alert("Erreur lors du chargement des rôles: " + err.message);
```

```
  });
```

```
}
```

```
function closeGarantModal() {
```

```
  document.getElementById('garantModal').style.display = 'none';
```

```
}
```

```
function submitGarantRole() {
```

```
  let activityId = document.getElementById('garant-activity-id').value;
```

```
  let selectElem = document.getElementById('garant-role-select');
```

```
  let newRoleInput = document.getElementById('garant-new-role').value.trim();
```

```
  let roleName = newRoleInput || selectElem.value;
```

```

if(!roleName) {
    alert("Veuillez sélectionner ou saisir un rôle.");
    return;
}

fetch('/roles/garant/activity/' + activityId, {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ role_name: roleName })
})
.then(r => r.json())
.then(data => {
    if(data.error) {
        alert("Erreur: " + data.error);
    } else {
        // Mettre à jour l'affichage
        let garantSpan = document.getElementById('activity-garant-' + activityId);
        garantSpan.textContent = "Garant : " + data.role.name;
        closeGarantModal();
    }
})
.catch(err => {
    alert("Erreur lors de l'enregistrement du rôle: " + err.message);
});
}

```

#### softskills.js

```
// static/js/softskills.js
```

```

function getActivityDetails(activityId) {
    const detailsElem = document.getElementById('details-' + activityId);
    return detailsElem ? detailsElem.innerText : "";
}

function getCompetenciesData(activityId) {
    const compElem = document.getElementById('competencies-list-' + activityId);
    if (!compElem) return "";
    let items = [];
    compElem.querySelectorAll('li').forEach(li => items.push(li.textContent.trim()));
    return items.join(", ");
}

function translateLevelToText(level) {

```

```

switch(level) {
  case "1": return "Aptitude";
  case "2": return "Acquisition";
  case "3": return "Maîtrise";
  case "4": return "Excellence";
  default: return "Inconnu";
}
}

// Bouton "Proposer HSC"
$(document).on('click', '.define-hsc-btn', function() {
  const activityId = $(this).data('activity-id');
  console.log("Proposer HSC pour activityId =", activityId);
  proposeSoftskills(activityId);
});

function proposeSoftskills(activityId) {
  const activityData = getActivityDetails(activityId);
  const competenciesData = getCompetenciesData(activityId);
  fetch('/softskills/propose', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({
      activity: activityData,
      competencies: competenciesData
    })
  })
  .then(res => res.json())
  .then(data => {
    console.log("Réponse /softskills/propose:", data);
    if (data.error) {
      alert(data.error);
      return;
    }
  })
  let addPromises = [];
  data.forEach(item => {
    let p = fetch('/softskills/add', {
      method: 'POST',
      headers: { 'Content-Type': 'application/json' },
      body: JSON.stringify({
        activity_id: activityId,
        habilete: item.habilete,
        niveau: item.niveau
      })
    })
    addPromises.push(p);
  });
  Promise.all(addPromises).then(() => {
    console.log("Tous les habiletes ont été ajoutées");
  });
}

```

```

    })
  })
  .then(r => r.json())
  .then(added => {
    if (!added.error) {
      addSoftskillItemToDOM(activityId, added.habilete, added.niveau, added.id);
    } else {
      console.error("Erreur ajout HSC:", added.error);
    }
  })
  .catch(err => console.error("Erreur fetch /softskills/add:", err));
  addPromises.push(p);
});
return Promise.all(addPromises);
})
.catch(err => {
  alert("Erreur lors de la proposition HSC : " + err.message);
  console.error(err);
});
}

```

// AJOUT MANUEL

```

function submitSoftskill(activityId) {
  console.log("submitSoftskill pour activityId =", activityId);
  const nameInput = document.getElementById('softskill-name-' + activityId);
  const levelInput = document.getElementById('softskill-level-' + activityId);
  const hscName = nameInput.value.trim();
  const hscLevel = levelInput.value.trim();
  if(!hscName) {
    alert("Veuillez saisir un nom d'habileté.");
    return;
  }
  if(!["1", "2", "3", "4"].includes(hscLevel)) {
    alert("Le niveau doit être 1, 2, 3 ou 4.");
    return;
  }
  fetch('/softskills/add', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({
      activity_id: activityId,
      habilete: hscName,
      niveau: hscLevel
    })
  })
  .then(r => r.json())
  .then(added => {
    if (!added.error) {
      addSoftskillItemToDOM(activityId, added.habilete, added.niveau, added.id);
    } else {
      console.error("Erreur ajout HSC:", added.error);
    }
  })
  .catch(err => console.error("Erreur fetch /softskills/add:", err));
}

```

```

    })
  })
  .then(res => res.json())
  .then(data => {
    if (data.error) {
      alert("Erreur : " + data.error);
    } else {
      addSoftskillItemToDOM(activityId, data.habilete, data.niveau, data.id);
      nameInput.value = "";
      levelInput.value = "";
      alert("Habilité sauvegardée en base.");
    }
  })
  .catch(err => {
    alert("Erreur lors de l'ajout : " + err.message);
    console.error(err);
  });
}

```

```

// Ajoute une HSC dans le DOM
function addSoftskillItemToDOM(activityId, hscName, hscLevel, dbId) {
  console.log("Ajout DOM HSC:", { activityId, hscName, hscLevel, dbId });
  const container = document.getElementById('softskills-list-' + activityId);
  if (!container) {
    console.error("Conteneur #softskills-list-" + activityId + " introuvable.");
    return;
  }
  const levelLabel = translateLevelToText(hscLevel);
  const div = document.createElement('div');
  div.className = 'softskill-item';
  div.style.marginBottom = '5px';
  div.setAttribute('data-ss-id', dbId);
  div.innerHTML = `
    <span class="softskill-text">${hscName} (Niveau: <span class="softskill-
level">${levelLabel}</span></span>
    <i class="fas fa-pencil-alt edit-softskill" title="Modifier"></i>
    <i class="fas fa-trash delete-softskill" title="Supprimer"></i>
    <div class="edit-softskill-form" id="edit-softskill-form-${dbId}" style="display:none;">
    <label>Habilité :</label>
    <input type="text" id="edit-softskill-name-${dbId}" value="${hscName}" />
    <label>Niveau (1.4) :</label>
    <input type="number" min="1" max="4" id="edit-softskill-level-${dbId}"
value="${hscLevel}" />

```

```

        <button onclick="submitEditSoftskillFromDOM('${dbId}')">Enregistrer</button>
        <button onclick="hideEditSoftskillForm('${dbId}')">Annuler</button>
    </div>
`;
    container.appendChild(div);
}

// Edition
$(document).on('click', '.edit-softskill', function() {
    const itemElem = $(this).closest('.softskill-item');
    const dbId = itemElem.data('ss-id');
    console.log("Edition HSC dbId =", dbId);
    document.getElementById(`edit-softskill-form-${dbId}`).style.display = 'block';
});

function hideEditSoftskillForm(dbId) {
    document.getElementById(`edit-softskill-form-${dbId}`).style.display = 'none';
}

function submitEditSoftskillFromDOM(dbId) {
    console.log("submitEditSoftskillFromDOM dbId =", dbId);
    const newName = document.getElementById(`edit-softskill-name-${dbId}`).value.trim();
    const newLevel = document.getElementById(`edit-softskill-level-${dbId}`).value.trim();
    if(!newName) {
        alert("Veuillez saisir un nom d'habileté.");
        return;
    }
    if(!["1", "2", "3", "4"].includes(newLevel)) {
        alert("Le niveau doit être 1, 2, 3 ou 4.");
        return;
    }
    fetch(`/softskills/${dbId}`, {
        method: 'PUT',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ habilete: newName, niveau: newLevel })
    })
    .then(res => res.json())
    .then(data => {
        console.log("Réponse PUT /softskills:", data);
        if (data.error) {
            alert("Erreur : " + data.error);
        } else {
            const itemElem = document.querySelector(`.softskill-item[data-ss-id='${dbId}']`);

```

```

    if (itemElem) {
        const textElem = itemElem.querySelector('.softskill-text');
        const levelLabel = translateLevelToText(data.niveau);
        textElem.innerHTML = `${data.habileté} (Niveau: <span class="softskill-
level">${levelLabel}</span>)`;
        hideEditSoftskillForm(dbId);
        alert("HSC mise à jour en base.");
    }
}
})
.catch(err => {
    alert("Erreur lors de la mise à jour : " + err.message);
    console.error(err);
});
}

```

```

// Suppression
$(document).on('click', '.delete-softskill', function() {
    const itemElem = $(this).closest('.softskill-item');
    const dbId = itemElem.data('ss-id');
    console.log("deleteSoftskill dbId =", dbId);
    if(!confirm("Voulez-vous supprimer cette habileté ?")) return;
    fetch(`/softskills/${dbId}`, { method: 'DELETE' })
    .then(res => res.json())
    .then(data => {
        if (data.error) {
            alert("Erreur : " + data.error);
        } else {
            itemElem.remove();
            alert("HSC supprimée.");
        }
    })
    .catch(err => {
        alert("Erreur lors de la suppression : " + err.message);
        console.error(err);
    });
});

```

### tasks.js

```

/* tasks.js - Gestion des tâches */

```

```

// Affiche le formulaire d'ajout d'une tâche pour une activité donnée
function showTaskForm(activityId) {

```

```

    document.getElementById('task-form-' + activityId).style.display = 'block';
}

// Cache le formulaire d'ajout d'une tâche pour une activité donnée
function hideTaskForm(activityId) {
    document.getElementById('task-form-' + activityId).style.display = 'none';
}

// Soumet une nouvelle tâche pour une activité
function submitTask(activityId) {
    const taskName = document.getElementById('task-name-' + activityId).value;
    const taskDesc = document.getElementById('task-desc-' + activityId).value;
    if (!taskName) {
        alert("Le nom de la tâche est requis.");
        return;
    }
    fetch('/activities/' + activityId + '/tasks/add', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ name: taskName, description: taskDesc })
    })
    .then(response => {
        if (response.ok) return response.json();
        throw new Error("Erreur lors de l'ajout de la tâche.");
    })
    .then(data => {
        let tasksList = document.getElementById('tasks-list-' + activityId);
        if (!tasksList) {
            tasksList = document.createElement('ul');
            tasksList.id = 'tasks-list-' + activityId;
            const tasksSection = document.getElementById('task-form-' + activityId).parentNode;
            tasksSection.insertBefore(tasksList, tasksSection.firstChild);
        }
        const li = document.createElement('li');
        li.className = 'task';
        li.id = 'task-' + data.id;
        li.setAttribute('data-task-id', data.id);
        li.innerHTML = `
            <div class="task-row">
            <div class="task-left">
                <i class="fa-solid fa-bars icon-btn" style="cursor: move;"></i>
                <span class="task-title">
                    <strong id="task-name-display-${data.id}">${data.name}</strong>

```

```

    ${data.description ? ' - ' : ''} <span id="task-desc-display-${data.id}"> + data.description
+ '</span>' : ''}
    </span>
    <button class="icon-btn" onclick="deleteTask('${activityId}', '${data.id}')">
    <i class="fa-solid fa-trash"></i>
    </button>
    <button class="icon-btn" onclick="showEditTaskForm('${activityId}', '${data.id}',
'${data.name}', '${data.description || ''}')">
    <i class="fa-solid fa-pencil"></i>
    </button>
</div>
<div class="task-right">
<div class="tools-list" id="tools-for-task-${data.id}">
    <ul>
    <li id="no-tools-msg-${data.id}">Aucun outil associé.</li>
    <li class="add-tool-li">
    <button class="icon-btn add-tool-btn" onclick="showToolForm('${data.id}')">
    <i class="fa-solid fa-plus"></i>
    </button>
    </li>
    </ul>
    </div>
</div>
<div class="edit-task-form" id="edit-task-form-${data.id}">
    <input type="text" id="edit-task-name-${data.id}" placeholder="Nom de la tâche" />
    <input type="text" id="edit-task-desc-${data.id}" placeholder="Description
(optionnelle)" />
    <button onclick="submitEditTask('${activityId}', '${data.id}')">Enregistrer</button>
    <button onclick="hideEditTaskForm('${data.id}')">Annuler</button>
</div>
<div id="tool-form-${data.id}" class="tool-form" style="display: none;">
<div>
    <label for="existing-tools-${data.id}">Outils existants:</label>
    <select id="existing-tools-${data.id}" multiple style="width: 100%;"></select>
</div>
<div>
    <label for="new-tools-${data.id}">Nouveaux outils (séparés par des virgules):</label>
    <input type="text" id="new-tools-${data.id}" placeholder="Ex: Outil1, Outil2"
style="width: 100%;" />
</div>
    <button onclick="submitTools('${data.id}')">Enregistrer</button>
    <button onclick="hideToolForm('${data.id}')">Annuler</button>

```

```

    </div>
`;
tasksList.appendChild(li);
document.getElementById('task-name-' + activityId).value = "";
document.getElementById('task-desc-' + activityId).value = "";
hideTaskForm(activityId);
})
.catch(error => {
    alert(error.message);
});
}

// Supprime une tâche donnée
function deleteTask(activityId, taskId) {
    if (!confirm("Confirmez-vous la suppression de cette tâche ?")) return;
    fetch(`/activities/${activityId}/tasks/${taskId}`, { method: 'DELETE' })
    .then(response => response.json())
    .then(data => {
        const taskElem = document.getElementById('task-' + taskId);
        if (taskElem) {
            taskElem.parentNode.removeChild(taskElem);
        }
    })
    .catch(error => {
        alert(error.message);
    });
}

// Affiche le formulaire d'édition d'une tâche
function showEditTaskForm(activityId, taskId, name, description) {
    document.getElementById('edit-task-form-' + taskId).style.display = 'block';
    document.getElementById('edit-task-name-' + taskId).value = name;
    document.getElementById('edit-task-desc-' + taskId).value = description;
}

// Cache le formulaire d'édition d'une tâche
function hideEditTaskForm(taskId) {
    document.getElementById('edit-task-form-' + taskId).style.display = 'none';
}

// Soumet les modifications d'une tâche
function submitEditTask(activityId, taskId) {
    const newName = document.getElementById('edit-task-name-' + taskId).value;

```

```

const newDesc = document.getElementById('edit-task-desc-' + taskId).value;
if (!newName) {
  alert("Le nom de la tâche est requis.");
  return;
}
fetch(`/activities/${activityId}/tasks/${taskId}`, {
  method: 'PUT',
  headers: { 'Content-Type': 'application/json' },
  body: JSON.stringify({ name: newName, description: newDesc })
})
.then(response => response.json())
.then(data => {
  const nameElem = document.getElementById('task-name-display-' + taskId);
  if (nameElem) {
    nameElem.textContent = data.name;
  }
  const descElem = document.getElementById('task-desc-display-' + taskId);
  if (descElem) {
    descElem.textContent = data.description;
  } else if (data.description) {
    const taskTitle = document.querySelector('#task-name-display-' + taskId).parentNode;
    const span = document.createElement('span');
    span.id = 'task-desc-display-' + taskId;
    span.textContent = data.description;
    taskTitle.appendChild(document.createTextNode(" - "));
    taskTitle.appendChild(span);
  }
  hideEditTaskForm(taskId);
})
.catch(error => {
  alert(error.message);
});
}

```

```

/* --- DRAG & DROP POUR LES TÂCHES --- */
document.addEventListener('DOMContentLoaded', function() {
  const taskLists = document.querySelectorAll('[id^="tasks-list-"]');
  taskLists.forEach(list => {
    Sortable.create(list, {
      animation: 150,
      handle: '.fa-bars',
      onEnd: function(evt) {
        const listId = list.getAttribute('id'); // ex: tasks-list-123

```

```

const activityId = listId.split('-')[2]; // ex: 123
console.log("Reorder tasks for activityId=", activityId);
let newOrder = [];
list.querySelectorAll('li.task').forEach(taskElem => {
  newOrder.push(taskElem.getAttribute('data-task-id'));
});
fetch('/activities/' + activityId + '/tasks/reorder', {
  method: 'POST',
  headers: { 'Content-Type': 'application/json' },
  body: JSON.stringify({ order: newOrder })
}).then(function(response) {
  if (!response.ok) {
    console.error("Erreur de sauvegarde de l'ordre");
  }
});
}
});
});
});

```

#### tools.js

// tools.js - Gestion des outils

```

function showToolForm(taskId) {
  document.getElementById('tool-form-' + taskId).style.display = 'block';
  fetch('/tools/all')
  .then(response => response.json())
  .then(data => {
    const selectElem = document.getElementById('existing-tools-' + taskId);
    selectElem.innerHTML = "";
    data.forEach(tool => {
      const option = document.createElement('option');
      option.value = tool.id;
      option.text = tool.name;
      selectElem.appendChild(option);
    });
  })
  .catch(error => {
    alert("Erreur lors du chargement des outils existants: " + error.message);
  });
}

function hideToolForm(taskId) {

```

```

    document.getElementById('tool-form-' + taskId).style.display = 'none';
}

function submitTools(taskId) {
    const selectElem = document.getElementById('existing-tools-' + taskId);
    const newToolsInput = document.getElementById('new-tools-' + taskId);
    const existingToolIds = Array.from(selectElem.selectedOptions).map(opt =>
parseInt(opt.value));
    const newTools = newToolsInput.value.split(",").map(item => item.trim()).filter(item =>
item.length > 0);
    const payload = {
        task_id: parseInt(taskId),
        existing_tool_ids: existingToolIds,
        new_tools: newTools
    };
    fetch('/tools/add', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify(payload)
    })
    .then(response => response.json())
    .then(data => {
        const noToolsMsg = document.getElementById('no-tools-msg-' + taskId);
        if (noToolsMsg) {
            noToolsMsg.parentNode.removeChild(noToolsMsg);
        }
        const toolsContainer = document.getElementById('tools-for-task-' + taskId);
        let ul = toolsContainer.querySelector('ul');
        if (!ul) {
            ul = document.createElement('ul');
            toolsContainer.appendChild(ul);
        }
        let addBtn = ul.querySelector('li.add-tool-li');
        if (addBtn) {
            addBtn.parentNode.removeChild(addBtn);
        }
        data.added_tools.forEach(tool => {
            const li = document.createElement('li');
            li.setAttribute("data-tool-id", tool.id);
            li.innerHTML = tool.name + ` <button class="icon-btn"
onclick="deleteToolFromTask('${taskId}', '${tool.id}')">
                <i class="fa-solid fa-trash"></i></button>`;
            ul.appendChild(li);
        });
    });
}

```

```

});
const newAddLi = document.createElement('li');
newAddLi.className = 'add-tool-li';
newAddLi.innerHTML = `<button class="icon-btn add-tool-btn"
onclick="showToolForm('${taskId}')">
    <i class="fa-solid fa-plus"></i>
</button>`;
ul.appendChild(newAddLi);
selectElem.selectedIndex = -1;
newToolsInput.value = "";
hideToolForm(taskId);
})
.catch(error => {
    alert(error.message);
});
}

function deleteToolFromTask(taskId, toolId) {
    if (!confirm("Confirmez-vous la suppression de cet outil ?")) return;
    fetch(`/activities/tasks/${taskId}/tools/${toolId}`, { method: 'DELETE' })
    .then(response => response.json())
    .then(data => {
        const toolsContainer = document.getElementById('tools-for-task-' + taskId);
        const ul = toolsContainer.querySelector('ul');
        if (!ul) return;
        const realToolElem = ul.querySelector(`li[data-tool-id="${toolId}"]`);
        if (realToolElem) {
            realToolElem.parentNode.removeChild(realToolElem);
        }
        let addBtn = ul.querySelector('li.add-tool-li');
        if (!addBtn) {
            const newAddLi = document.createElement('li');
            newAddLi.className = 'add-tool-li';
            newAddLi.innerHTML = `<button class="icon-btn add-tool-btn"
onclick="showToolForm('${taskId}')">
                <i class="fa-solid fa-plus"></i>
            </button>`;
            ul.appendChild(newAddLi);
        }
    })
    .catch(error => {
        alert(error.message);
    });
}

```

```
}
```

### `translate_softskills.js`

```
// translate_softskills.js - Gestion de la traduction des softskills en HSC
```

```
function openTranslateSoftskillsModal(activityId) {  
    window.translateSoftskillsActivityId = activityId;  
    document.getElementById('translateSoftskillsModal').style.display = 'block';  
}
```

```
function closeTranslateSoftskillsModal() {  
    document.getElementById('translateSoftskillsModal').style.display = 'none';  
    window.translateSoftskillsActivityId = null;  
}
```

```
// Soumet le texte entré pour traduction et ajoute les HSC traduites en base
```

```
function submitSoftskillsTranslation() {  
    const activityId = window.translateSoftskillsActivityId;  
    if (!activityId) {  
        alert("Identifiant de l'activité introuvable.");  
        return;  
    }  
    const userInputElem = document.getElementById('translateSoftskillsInput');  
    const userInput = userInputElem.value.trim();  
    if (!userInput) {  
        alert("Veuillez saisir du texte.");  
        return;  
    }  
}
```

```
// 1) Appel /softskills/translate pour obtenir un objet { "proposals": [...] }  
$.ajax({  
    url: '/softskills/translate',  
    method: 'POST',  
    contentType: 'application/json',  
    data: JSON.stringify({ user_input: userInput }),  
    success: function(response) {  
        // 'response' est un objet : { "proposals": [ { "habilete": "...", "niveau": "...", ... } ], ... }  
        if (!response.proposals) {  
            alert("Réponse inattendue : pas de 'proposals' ?");  
            return;  
        }  
        let addPromises = [];  
        // 2) Pour chaque proposition, on fait un POST /softskills/add
```

```

response.proposals.forEach(function(item) {
  let p = $.ajax({
    url: '/softskills/add',
    method: 'POST',
    contentType: 'application/json',
    data: JSON.stringify({
      activity_id: activityId,
      habilete: item.habilete,
      niveau: item.niveau
    }),
    success: function(added) {
      // 3) On insère la HSC dans le DOM
      if (added.error) {
        console.error("Erreur ajout HSC:", added.error);
      } else {
        addSoftskillItemToDOM(activityId, added.habilete, added.niveau, added.id);
      }
    },
    error: function(err) {
      console.error("Erreur /softskills/add:", err);
    }
  });
  addPromises.push(p);
});

// Quand toutes les requêtes sont terminées
$.when.apply($, addPromises).then(function() {
  userInputElem.value = "";
  closeTranslateSoftskillsModal();
});
},
error: function() {
  alert("Erreur lors de la traduction des softskills.");
}
});
}

// Événement pour un bouton .translate-softskills-btn (facultatif)
$(document).on('click', '.translate-softskills-btn', function() {
  const activityId = $(this).data('activity-id');
  openTranslateSoftskillsModal(activityId);
});

```

### 3. Structure de la Base de Données (Texte)

#### Table: activities

- id (INTEGER)
- shape\_id (VARCHAR(50))
- name (VARCHAR(200))
- description (TEXT)
- is\_result (BOOLEAN)

#### Table: data

- id (INTEGER)
- shape\_id (VARCHAR(50))
- name (VARCHAR(255))
- type (VARCHAR(50))
- description (TEXT)
- layer (VARCHAR(50))

#### Table: roles

- id (INTEGER)
- name (VARCHAR(100))

#### Table: tools

- id (INTEGER)
- name (VARCHAR(255))
- description (TEXT)

#### Table: activity\_roles

- activity\_id (INTEGER)
- role\_id (INTEGER)
- status (VARCHAR(50))

#### Table: competencies

- id (INTEGER)
- description (TEXT)

- activity\_id (INTEGER)

**Table: links**

- id (INTEGER)
- source\_activity\_id (INTEGER)
- source\_data\_id (INTEGER)
- target\_activity\_id (INTEGER)
- target\_data\_id (INTEGER)
- type (VARCHAR(50))
- description (TEXT)

**Table: softskills**

- id (INTEGER)
- habilete (VARCHAR(255))
- niveau (VARCHAR(10))
- activity\_id (INTEGER)

**Table: tasks**

- id (INTEGER)
- name (VARCHAR(255))
- description (TEXT)
- order (INTEGER)
- activity\_id (INTEGER)

**Table: task\_roles**

- task\_id (INTEGER)
- role\_id (INTEGER)
- status (VARCHAR(50))

**Table: task\_tools**

- task\_id (INTEGER)
- tool\_id (INTEGER)

#### 4. Diagramme Visuel de la Base de Données

Diagramme généré : C:\Users\Hubert.AFDEC\OneDrive -  
A.F.D.E.C\Documents\DevOPTIQ\_Recup\ProjetOPTIQ\database\_schema.png