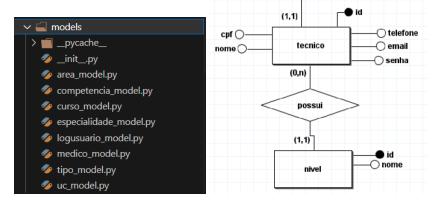
Manual do Programador

Projeto Integrador - SENAC

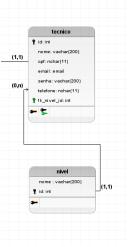
Exemplo: Alpha InfoSystem

Passo 1. Escolha uma entidade forte (não tem PK) no diagrama



```
from app import db #SQLAlchemy - Migrate:Migrar Classe para Tabela

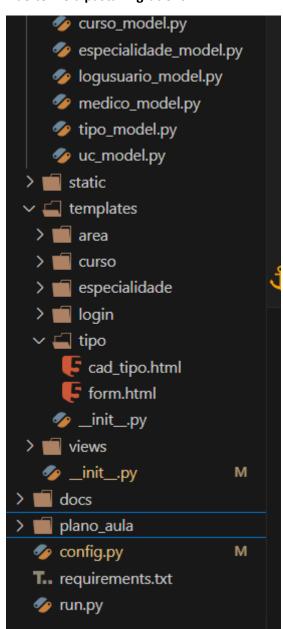
class Nivel(db.Model):
    __tablename__ = "nivel"
    #id = db.Column(tipo,chave,auto)
    id = db.Column(db.Integer,primary_key=True,autoincrement=True)
    nome = db.Column(db.String(200))
```



Camada Model – OK

```
| SQLFHe3' SQLFHe4' SQLFHe5' S
```

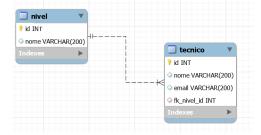
Não tenho a pasta migrations



```
.venv) C:\Users\romulo.leite\Desktop\projetobase>flask db init
Creating directory 'C:\\Users\\romulo.leite\\Desktop\\projetobase\\migrations'
Creating directory 'C:\\Users\\romulo.leite\\Desktop\\projetobase\\migrations\\
Generating C:\Users\romulo.leite\Desktop\projetobase\migrations\alembic.ini ...
Generating C:\Users\romulo.leite\Desktop\projetobase\migrations\env.py ...
Generating C:\Users\romulo.leite\Desktop\projetobase\migrations\README ...
Generating C:\Users\romulo.leite\Desktop\projetobase\migrations\script.py.mako
 (.venv) C:\Users\romulo.leite\Desktop\projetobase>flask db migrate -m "iniciando alpha infosystem"
 INFO [alembic.runtime.migration] Context impl MySQLImpl.
      [alembic.runtime.migration] Will assume non-transactional DDL.
      [alembic.autogenerate.compare] Detected added table 'area
 INFO
      [alembic.autogenerate.compare] Detected added table 'competencia'
 INFO
      [alembic.autogenerate.compare] Detected added table 'curso
 TNFO
      [alembic.autogenerate.compare] Detected added table 'especialidade'
 INFO
       [alembic.autogenerate.compare] Detected added table 'log_usuario'
 INFO
       [alembic.autogenerate.compare] Detected added table 'nivel
 INFO
       [alembic.autogenerate.compare] Detected added table
      [alembic.autogenerate.compare] Detected added table 'unidadecompetencia'
      [alembic.autogenerate.compare] Detected added table 'medico'
       [alembic.autogenerate.compare] Detected added table 'tecnico'
(.venv) C:\Users\romulo.leite\Desktop\projetobase>flask db upgrade
INFO [alembic.runtime.migration] Context impl MySQLImpl.
     [alembic.runtime.migration] Will assume non-transactional DDL.
INFO [alembic.runtime.migration] Running upgrade -> bdd4ac043f3b, iniciando alpha infosystem
                             SQL File 4*
              SQL File 3*
                                            SQL File 5*
                                                           SQL File 6*
                                                                          SQL File 7*
                                                                                        SQL

√ √ √ 0 | № | ○ ○ ○ / 1 | Limit to 1000 rows

                                                                       - | 🏡 | 🥩 🔍
             CREATE DATABASE projetobase;
             USE projetobase;
             show tables;
                                             Export: Wrap Cell Content: $\overline{A}$
   Result Grid | Filter Rows:
       Tables_in_projetobase
      alembic version
      area
      competencia
      curso
      especialidade
      log_usuario
      medico
      nivel
      tecnico
      unidadecompetencia
```



Etapa Model Finalizada

Front-End

- HTML
- CSS
- Java Script

HTML+CSS+JavaScript = Bootstrap

localhost/cadnivel



```
∨ PROJETOBASE

                                   ☐ ☐ app > templates > nivel >  form_nivel.html >  html >  body
                                                                    <!DOCTYPE html> <!--inicio do html
<html lang="en">
<head>
         logusuario_model.py
         medico_model.py
                                                                     (nead)

(meta charset="UTF-8")

(meta http-equiv="X-UA-Compatible" content="IE=edge")

(meta name="viewport" content="width=device=width, initial=scale=1.0")

(!--inclusão de bootstrap usando jinja2--)

(link rel="stylesheet" href="{{url_for('static',filename='css/bootstrap.css')}}")

(title>Cadastro do Curso</title>
(/head)
         tipo_model.py
         uc_model.py
    > css
                                                                          y/

<header class="bg-primary text-white text-center py-4 mb-5">
<div class="container">
<hi class="display-4">Alpha InfoSystem</hl>
<hi><hi><adatro de Tipos</h6>
</display-4">(display-4")</a>

     > 🔳 js
    > 🔳 area
                                                                        </header>
<form method="post"> <!--Metodo Post é para enviar-->
     > 💼 curso
     > 🔳 especialidade
                                                                            > 🔳 login
          form_nivel.html
      ∨ 🗐 tipo

[F cad_tipo.html
          form.html
                                                                                {% endif %}
         __init__.py
    > iii views
       __init__.py
                                                                        {% if request.method == 'POST' %}
   > 🔳 docs
                                                                         // Limpa o campo de texto após o envio do formulário document.getElementById("{{ form.nome.id }}").value = "";
  > iii migrations
   > 🔳 plano_aula
                                                                        {% endif %}
      config.py
```

Formulário com Jinja 2

Camada form (validação de formulários)

Rota – camada view

```
from app import app
    from flask import render_template #renderização
    from app.forms import nivel_form
    from app.models.alpha import nivel_model
    from app import db
    @app.route("/cadnivel", methods=["POST", "GET"])
    def cadastrar_nivel():
          form = nivel_form.NivelForm()
           if form.validate_on_submit():
10
            nome = form.nome.data #capturando o conteúdo validado
11
            nivel = nivel_model.Nivel(nome=nome)
12
           try:
               #adicionar na sessão
               db.session.add(nivel)
15
               #salvar a sessão
              db.session.commit()
            except:
              print("nivel não cadastrado")
           return render_template("nivel/form_nivel.html",form=form)
```

Alpha InfoSystem

Cadastro de Niveis

nome

cadastrar