Arquivo: `icon_loader.py`

```python
# config/icon_loader.py
from pathlib import Path
from PyQt6.QtGui import QIcon
from paths import ICONS_DIR
import logging

# Configuração de logging
logging.basicConfig(level=logging.WARNING)
logger = logging.getLogger(__name__)

# Cache para ícones
_icon_cache = {}

def load_icon(icon_name):
    """Carrega e armazena em cache os ícones como QIcon. Verifica se o arquivo existe antes de carregar."""
    if icon_name not in _icon_cache:
        icon_path = ICONS_DIR / icon_name
        if icon_path.exists():
            _icon_cache[icon_name] = QIcon(str(icon_path))
        else:
            logger.warning(f"Ícone '{icon_name}' não encontrado em {icon_path}")
            _icon_cache[icon_name] = QIcon()  # Retorna um ícone vazio em caso de falha
    return _icon_cache[icon_name]

# Funções específicas para carregar ícones usados frequentemente
def load_icons():
    return {
        "api_azul": load_icon("API_azul.png"),
        "statistics_azul": load_icon("statistics_azul.png"),
        "pdf_button": load_icon("pdf_button.png"),
        "pdf_button_blue": load_icon("pdf_button_blue.png"),
        "planning": load_icon("planning.png"),
        "info": load_icon("info.png"),
        "360-degrees": load_icon("360-degrees.png"),
        "loading-arrow": load_icon("loading-arrow.png"),
        "plan_dispensa": load_icon("plan_dispensa.png"),
        "plan_dispensa_blue": load_icon("plan_dispensa_blue.png"),
        "contrato": load_icon("contrato.png"),
        "contrato_blue": load_icon("contrato_blue.png"),
        "priority": load_icon("priority.png"),
        "head_skull": load_icon("head_skull.png"),
        "danger": load_icon("danger.png"),
        "like": load_icon("like.png"),
        "assinatura": load_icon("assinatura.png"),
        "delivered": load_icon("delivered.png"),
        "json": load_icon("json.png"),
        "rotate": load_icon("rotate.png"),
        "reckoning": load_icon("reckoning.png"),
        "comments": load_icon("comments.png"),
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"delete_comment": load_icon("delete_comment.png"),
"add_comment": load_icon("add_comment.png"),
"brasil": load_icon("brasil.png"),
"arquivo": load_icon("arquivo.png"),
"api": load_icon("api.png"),
"api_button": load_icon("api_button.png"),
"sign": load_icon("sign.png"),
"init": load_icon("init.png"),
"checkmark": load_icon("checkmark.png"),
"dash": load_icon("dash.png"),
"dash_hover": load_icon("dash_hover.png"),
"init_hover": load_icon("init_hover.png"),
"dispensa": load_icon("dispensa.png"),
"price-tag": load_icon("price-tag.png"),
"dispensa_hover": load_icon("dispensa_hover.png"),
"ata": load_icon("ata.png"),
"ata_hover": load_icon("ata_hover.png"),
"plan": load_icon("plan.png"),
"plan_hover": load_icon("plan_hover.png"),
"contract": load_icon("contract.png"),
"contract_hover": load_icon("contract_hover.png"),
"config": load_icon("config.png"),
"config_hover": load_icon("config_hover.png"),
"confirm": load_icon("confirm.png"),
"business": load_icon("business.png"),
"aproved": load_icon("aproved.png"),
"session": load_icon("session.png"),
"deal": load_icon("deal.png"),
"agu": load_icon("agu.png"),
"emenda_parlamentar": load_icon("emenda_parlamentar.png"),
"verify_menu": load_icon("verify_menu.png"),
"archive": load_icon("archive.png"),
"plus": load_icon("plus.png"),
"save_to_drive": load_icon("save_to_drive.png"),
"loading": load_icon("loading.png"),
"delete": load_icon("delete.png"),
"data-server": load_icon("data-server.png"),
"performance": load_icon("performance.png"),
"excel": load_icon("excel.png"),
"calendar": load_icon("calendar.png"),
"report": load_icon("report.png"),
"signature": load_icon("signature.png"),
"website_menu": load_icon("website_menu.png"),
"automation": load_icon("automation.png"),
"pdf": load_icon("pdf.png"),
"management": load_icon("management.png"),
"edit": load_icon("management.png"),
"image-processing": load_icon("image-processing.png"),
"brasil_2": load_icon("brasil_2.png"),
"prioridade": load_icon("prioridade.png"),
"link": load_icon("link.png"),
"excel_down": load_icon("excel_down.png"),
"excel_up": load_icon("excel_up.png"),
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"brace": load_icon("brace.png"),
"timer": load_icon("timer.png"),
"folder_v": load_icon("folder_v.png"),
"folder_x": load_icon("folder_x.png"),
"magnifying-glass": load_icon("magnifying-glass.png"),
"loading_table": load_icon("loading_table.png"),
"table": load_icon("table.png"),
"copy": load_icon("copy.png"),
"copy_1": load_icon("copy_1.png"),
"grid": load_icon("grid.png"),
"efetivo": load_icon("efetivo.png"),
"dash_titulo": load_icon("dash_titulo.png"),
"create-folder": load_icon("create-folder.png"),
"zip-folder": load_icon("zip-folder.png"),
"template": load_icon("template.png"),
"cancel": load_icon("cancel.png"),
"open-folder": load_icon("open-folder.png"),
"browser": load_icon("browser.png"),
"open_icon": load_icon("open_icon.png"),
"refresh": load_icon("refresh.png"),
"confirm_green": load_icon("confirm_green.png"),
"checked": load_icon("checked.png"),
"test": load_icon("testing.png"),
"excel_down": load_icon("excel_down.png"),
"excel_up": load_icon("excel_up.png"),
"mensagem": load_icon("mensagem.png"),
"time": load_icon("time.png"),
"check": load_icon("check.png"),
"processing": load_icon("processing.png"),
"page": load_icon("page.png"),
"stats": load_icon("stats.png"),
"layers": load_icon("layers.png"),
"list-check": load_icon("list-check.png"),
"features": load_icon("features.png"),
"star": load_icon("star.png"),
"result": load_icon("result.png"),
"add-folder": load_icon("add-folder.png"),
"alert": load_icon("alert.png"),
"tr": load_icon("star.png"),
"homolog": load_icon("result.png"),
"process": load_icon("process.png"),
"homolog": load_icon("result.png"),
"economy": load_icon("economy.png"),
"statistics": load_icon("statistics.png"),
"sicaf": load_icon("sicaf.png"),
"jigsaw": load_icon("jigsaw.png"),
"sapiens": load_icon("sapiens.png"),
"montagem": load_icon("montagem.png"),
"calendario": load_icon("calendario.png"),
"calendario-cor": load_icon("calendario-cor.png"),

        }
```