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"""
エアドロップ追跡 API サーバー
起動: uvicorn main:app --reload --port 8000
"""

from fastapi import FastAPI, HTTPException
from fastapi.middleware.cors import CORSMiddleware
from pydantic import BaseModel
from typing import Optional
import sqlite3, json, os
from datetime import datetime

app = FastAPI(title="Airdrop Tracker API")

app.add_middleware(
    CORSMiddleware,
    allow_origins=["http://localhost:3000", "http://localhost:5173"],
    allow_methods=["*"],
    allow_headers=["*"],
)

DB_PATH = "airdrop.db"

# ----- DB初期化 -----
def init_db():
    con = sqlite3.connect(DB_PATH)
    cur = con.cursor()
    cur.executescript("""
        CREATE TABLE IF NOT EXISTS airdrops (
            id          INTEGER PRIMARY KEY AUTOINCREMENT,
            name        TEXT NOT NULL,
            symbol      TEXT,
            logo        TEXT,
            category    TEXT,
            chain       TEXT,
            status      TEXT,
            urgency     TEXT,
            deadline    TEXT,
            estimated_value TEXT,
            difficulty  INTEGER DEFAULT 1,
            description TEXT,
            twitter     TEXT,
            confirmed   INTEGER DEFAULT 0,
            created_at  TEXT DEFAULT (datetime('now')),
            updated_at  TEXT DEFAULT (datetime('now'))
    """)

if __name__ == "__main__":
    init_db()
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);

CREATE TABLE IF NOT EXISTS tasks (
    id          INTEGER PRIMARY KEY AUTOINCREMENT,
    airdrop_id  INTEGER NOT NULL,
    label        TEXT NOT NULL,
    done         INTEGER DEFAULT 0,
    points       INTEGER DEFAULT 10,
    done_at      TEXT,
    FOREIGN KEY (airdrop_id) REFERENCES airdrops(id) ON DELETE CASCADE
);

CREATE TABLE IF NOT EXISTS notifications (
    id          INTEGER PRIMARY KEY AUTOINCREMENT,
    message     TEXT NOT NULL,
    type        TEXT DEFAULT 'info',
    read        INTEGER DEFAULT 0,
    created_at  TEXT DEFAULT (datetime('now'))
);

""")

# 初期データ（初回のみ）
count = cur.execute("SELECT COUNT(*) FROM airdrops").fetchone()[0]
if count == 0:
    seed_data = [
        ("LayerZero", "ZRO", "🌐", "インフラ", "マルチチェーン", "確認済み", "高", "2025-01-01"),
        ("Scroll", "SCR", "📜", "L2", "Ethereum L2", "未確認・有力", "中", "2025-04-01"),
        ("ZKsync", "ZK", "⚡", "L2", "Ethereum L2", "配布済み（追加あり？）", "低", "未定"),
        ("Hyperliquid", "HYPE", "🌐", "DeFi", "独自チェーン", "配布済み・高額実績", "低"),
        ("Monad", "MON", "🔮", "L1", "新規L1", "テストネット中", "高", "2025-05-01"),
        ("Berachain", "BERA", "🐻", "L1", "EVM L1", "メインネット間近", "高", "2025-02-28")
    ]
    for d in seed_data:
        cur.execute("""INSERT INTO airdrops(name,symbol,logo,category,chain,stage,description,created_at)
VALUES(?,?,?,?,?,?,?,?,?,?)""", d)

tasks_seed = {
    "LayerZero": [ ("ブリッジを5回以上実行", 1, 20), ("3チェーン以上で操作", 1, 15), ("複数のDEXで取引", 1, 10) ],
    "Scroll": [ ("Scrollにブリッジ (ETH)", 1, 20), ("DEXでスワップ1回以上", 0, 2) ],
    "ZKsync": [ ("ZKsyncでブリッジ", 1, 10), ("SyncSwapでスワップ", 1, 20), ("NFT取引", 1, 15) ],
    "Hyperliquid": [ ("パーカーチュアル取引を実行", 0, 30), ("累計取引量$10,000以上", 0, 25) ],
    "Monad": [ ("テストネットに参加", 0, 20), ("テストネットで取引", 0, 25), ("DApp開発", 0, 15) ],
    "Berachain": [ ("テストネット参加済み", 1, 15), ("BGTをステーク", 0, 30), ("BEX (BETX) 取引", 0, 20) ]
}

for name, tasks in tasks_seed.items():
    aid = cur.execute("SELECT id FROM airdrops WHERE name=?", (name,)).fetchone()
    for label, done, pts in tasks:
        cur.execute("INSERT INTO tasks(airdrop_id, label, done, points) VALUES(?, ?, ?, ?)", (aid, label, done, pts))

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        cur.execute("INSERT INTO tasks(airdrop_id,label,done,points) VALUES(?, ?, ?, ?)", (airdrop_id, label, False, 0))

    # 初期通知
    notifs = [
        ("Berachain メインネット間近！タスク完了を急いで", "urgent"),
        ("LayerZero 締め切りまで24日", "warning"),
        ("Monad テストネット開始！参加可能になりました", "info"),
    ]
    for msg, t in notifs:
        cur.execute("INSERT INTO notifications(message,type) VALUES(?,?)", (msg, t))

    con.commit()
    con.close()

init_db()

# ----- ヘルパー -----
def get_con():
    con = sqlite3.connect(DB_PATH)
    con.row_factory = sqlite3.Row
    con.execute("PRAGMA foreign_keys = ON")
    return con

def row_to_dict(row):
    return dict(row) if row else None

# ----- モデル -----
class AirdropCreate(BaseModel):
    name: str
    symbol: Optional[str] = ""
    logo: Optional[str] = "🎁"
    category: Optional[str] = "DeFi"
    chain: Optional[str] = ""
    status: Optional[str] = "未確認"
    urgency: Optional[str] = "中"
    deadline: Optional[str] = "未定"
    estimated_value: Optional[str] = "未定"
    difficulty: Optional[int] = 1
    description: Optional[str] = ""
    twitter: Optional[str] = ""
    confirmed: Optional[bool] = False

class AirdropUpdate(AirdropCreate):
    pass

class TaskCreate(BaseModel):
    label: str

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points: Optional[int] = 10

class TaskUpdate(BaseModel):
    done: Optional[bool] = None
    label: Optional[str] = None
    points: Optional[int] = None

# ----- エンドポイント -----
@app.get("/")
def root():
    return {"status": "ok", "message": "Airdrop Tracker API"}

# -- Airdrops --
@app.get("/airdrops")
def list_airdrops():
    con = get_con()
    rows = con.execute("SELECT * FROM airdrops ORDER BY CASE urgency WHEN '高' THEN 1 WHEN '中' THEN 2 WHEN '低' THEN 3 ELSE 4 END")
    result = []
    for row in rows:
        a = row_to_dict(row)
        tasks = con.execute("SELECT * FROM tasks WHERE airdrop_id=?", (a["id"],))
        a["tasks"] = [row_to_dict(t) for t in tasks]
        a["confirmed"] = bool(a["confirmed"])
        result.append(a)
    con.close()
    return result

@app.post("/airdrops", status_code=201)
def create_airdrop(data: AirdropCreate):
    con = get_con()
    cur = con.execute("""
        INSERT INTO airdrops(name,symbol,logo,category,chain,status,urgency,deadline,estimated_value,difficulty,description)
        VALUES(?,?,?,?,?,?,?,?,?,?,?,?)
    """, (data.name,data.symbol,data.logo,data.category,data.chain,data.status,data.urgency,data.deadline,data.estimated_value,data.difficulty,data.description))
    con.commit()
    new_id = cur.lastrowid
    row = con.execute("SELECT * FROM airdrops WHERE id=?", (new_id,)).fetchone()
    result = row_to_dict(row)
    result["tasks"] = []
    con.close()
    return result

@app.put("/airdrops/{aid}")
def update_airdrop(aid: int, data: AirdropUpdate):
    con = get_con()

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    con.execute("""
        UPDATE airdrops SET name=?,symbol=?,logo=?,category=?,chain=?,status=?,ur
        deadline=?,estimated_value=?,difficulty=?,description=?,twitter=?,confirm
        WHERE id=?
    """, (data.name,data.symbol,data.logo,data.category,data.chain,data.status,da
        data.deadline,data.estimated_value,data.difficulty,data.description,dat
    con.commit()
    con.close()
    return {"ok": True}

@app.delete("/airdrops/{aid}")
def delete_airdrop(aid: int):
    con = get_con()
    con.execute("DELETE FROM airdrops WHERE id=?", (aid,))
    con.commit()
    con.close()
    return {"ok": True}

# -- Tasks --
@app.post("/airdrops/{aid}/tasks", status_code=201)
def add_task(aid: int, data: TaskCreate):
    con = get_con()
    cur = con.execute("INSERT INTO tasks(airdrop_id,label,points) VALUES(?, ?, ?)", data)
    con.commit()
    row = con.execute("SELECT * FROM tasks WHERE id=?", (cur.lastrowid,)).fetchone()
    con.close()
    return row_to_dict(row)

@app.patch("/tasks/{tid}")
def update_task(tid: int, data: TaskUpdate):
    con = get_con()
    if data.done is not None:
        done_at = datetime.now().isoformat() if data.done else None
        con.execute("UPDATE tasks SET done=?, done_at=? WHERE id=?", (int(data.do
    if data.label is not None:
        con.execute("UPDATE tasks SET label=? WHERE id=?", (data.label, tid))
    if data.points is not None:
        con.execute("UPDATE tasks SET points=? WHERE id=?", (data.points, tid))
    con.commit()
    row = con.execute("SELECT * FROM tasks WHERE id=?", (tid,)).fetchone()
    con.close()
    return row_to_dict(row)

@app.delete("/tasks/{tid}")
def delete_task(tid: int):
    con = get_con()
    con.execute("DELETE FROM tasks WHERE id=?", (tid,))

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        con.commit()
        con.close()
        return {"ok": True}

# -- Notifications --
@app.get("/notifications")
def list_notifications():
    con = get_con()
    rows = con.execute("SELECT * FROM notifications ORDER BY created_at DESC LIMIT 10")
    con.close()
    return [row_to_dict(r) for r in rows]

@app.patch("/notifications/{nid}/read")
def mark_read(nid: int):
    con = get_con()
    con.execute("UPDATE notifications SET read=1 WHERE id=?".format(nid))
    con.commit()
    con.close()
    return {"ok": True}

# -- Stats --
@app.get("/stats")
def get_stats():
    con = get_con()
    total = con.execute("SELECT COUNT(*) FROM airdrops").fetchone()[0]
    active = con.execute("SELECT COUNT(*) FROM airdrops WHERE deadline NOT LIKE '%-%-%'").fetchone()[0]
    urgent = con.execute("SELECT COUNT(*) FROM airdrops WHERE urgency='高'").fetchone()[0]
    tasks_total = con.execute("SELECT COUNT(*) FROM tasks").fetchone()[0]
    tasks_done = con.execute("SELECT COUNT(*) FROM tasks WHERE done=1").fetchone()[0]
    avg_progress = round(tasks_done / tasks_total * 100) if tasks_total > 0 else 0
    con.close()
    return {"total": total, "active": active, "urgent": urgent, "avg_progress": avg_progress}
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