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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'))
        )
    """)

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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", "2025-04-01", "未定"),
        ("Scroll", "SCR", "📜", "L2", "Ethereum L2", "未確認・有力", "中", "2025-04-01", "未定"),
        ("ZKsync", "ZK", "⚡", "L2", "Ethereum L2", "配布済み（追加あり？）", "低", "未定", "未定"),
        ("Hyperliquid", "HYPE", "🌊", "DeFi", "独自チェーン", "配布済み・高額実績", "低", "未定", "未定"),
        ("Monad", "MON", "🟪", "L1", "新規L1", "テストネット中", "高", "2025-05-01", "未定"),
        ("Berachain", "BERA", "🐻", "L1", "EVM L1", "メインネット間近", "高", "2025-02-01", "未定")
    ]
    for d in seed_data:
        cur.execute("""INSERT INTO airdrops (name, symbol, logo, category, chain, status, points, done_at, 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), ("NF", 0, 20) ],
        "Scroll": [ ("Scrollにブリッジ (ETH)", 1, 20), ("DEXでスワップ1回以上", 0, 20), ("NF", 0, 20) ],
        "ZKsync": [ ("ZKsyncでブリッジ", 1, 10), ("SyncSwapでスワップ", 1, 20), ("NF", 0, 20) ],
        "Hyperliquid": [ ("パーペチュアル取引を実行", 0, 30), ("累計取引量$10,000以上", 0, 20), ("NF", 0, 20) ],
        "Monad": [ ("テストネットに参加", 0, 20), ("テストネットで取引", 0, 25), ("Dis", 0, 20) ],
        "Berachain": [ ("テストネット参加済み", 1, 15), ("BGTをステーク", 0, 30), ("BEX (1", 0, 20) ]
    }

    for name, tasks in tasks_seed.items():
        aid = cur.execute("SELECT id FROM airdrops WHERE name=?", (name,)).fetchone()[0]
        for label, done, pts in tasks:

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        cur.execute("INSERT INTO tasks(airdrop_id,label,done,points) VALU

# 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(?,?)", (m

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' TH")
    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, deadl
        VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)
    """, (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()
    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(?,?,?)",
    con.commit()
    row = con.execute("SELECT * FROM tasks WHERE id=?", (cur.lastrowid,)).fetchon
    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=?", (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 '2020%'").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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