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const express = require('express');
const cors = require('cors');
const rateLimit = require('express-rate-limit');
const fs = require('fs');
const path = require('path');
require('dotenv').config();

const app = express();
const PORT = process.env.PORT || 3000;

// — ALLOWED ORIGINS —————
const ALLOWED_ORIGINS = (process.env.ALLOWED_ORIGINS || 'http://localhost:8080')
  .split(',')
  .map(o => o.trim());

// — CORS —————
app.use(cors({
  origin: function (origin, callback) {
    if (!origin) return callback(null, false);
    if (ALLOWED_ORIGINS.includes(origin)) return callback(null, true);
    return callback(new Error('Not allowed by CORS'));
  },
  methods: ['GET', 'POST'],
  credentials: false,
}));

app.use(express.json({ limit: '10kb' }));

// — RATE LIMITING —————
const limiter = rateLimit({
  windowMs: 60 * 1000,
  max: 30,
  message: { error: 'Too many requests, slow down.' },
  standardHeaders: true,
  legacyHeaders: false,
});
app.use('/api/', limiter);

// — LOGGER HELPER —————
const LOG_FILE = process.env.LOG_FILE || path.join(__dirname, 'deployments.log');
function writeLog(entry) {
  const line = JSON.stringify(entry) + '\n';
  fs.appendFile(LOG_FILE, line, (err) => {
    if (err) console.error('[logger] Failed to write log:', err.message);
  });
}
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    });

    console.log('[log]', JSON.stringify(entry));
}

// — HEALTH CHECK —————
app.get('/', (req, res) => {
    res.json({ status: 'ok', service: 'SolMint API', version: '1.0.0' });
});

// — GET CONFIG —————
app.get('/api/config', (req, res) => {
    const origin = req.headers.origin || req.headers.referer || '';
    const allowed = ALLOWED_ORIGINS.some(o => origin.startsWith(o));
    if (!allowed) return res.status(403).json({ error: 'Forbidden' });

    if (!process.env.OWNER_WALLET) {
        console.error('[config] OWNER_WALLET not set in environment!');
        return res.status(500).json({ error: 'Server not configured' });
    }

    res.json({
        feeAddress: process.env.OWNER_WALLET,
        network: process.env.NETWORK || 'mainnet',
        baseFee: parseFloat(process.env.BASE_FEE || '0.2'),
        optionFees: {
            'revoke-mint': parseFloat(process.env.FEE_REVOKEMINT || '0.1'),
            'revoke-freeze': parseFloat(process.env.FEE_REVOKEFREEZE || '0.1'),
            'immutable': parseFloat(process.env.FEE_IMMUTABLE || '0.1'),
            'update-auth': parseFloat(process.env.FEE_UPDATE_AUTH || '0.1'),
            'tax': parseFloat(process.env.FEE_TAX || '0.2'),
            'lpburn': parseFloat(process.env.FEE_LPBURN || '0.1'),
            'creator': parseFloat(process.env.FEE_CREATOR || '0.1'),
        },
    });
});

// — LOG DEPLOYMENT —————
app.post('/api/log', (req, res) => {
    const origin = req.headers.origin || '';
    const allowed = ALLOWED_ORIGINS.some(o => origin.startsWith(o));
    if (!allowed) return res.status(403).json({ error: 'Forbidden' });

    const { mintAddress, network, options } = req.body || {};
    // Validate mint address format
    if (!mintAddress || !/^[1-9A-HJ-NP-Za-km-z]{32,44}$/.test(mintAddress)) {
        return res.status(400).json({ error: 'Invalid mint address' });
    }
});

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}

const safeNetwork = ['mainnet', 'devnet'].includes(network) ? network : 'unknow
const VALID_OPTIONS = ['revoke-mint', 'revoke-freeze', 'immutable', 'update-aut
const safeOptions = Array.isArray(options)
  ? options.filter(o => VALID_OPTIONS.includes(o))
  : [];

writeLog({
  ts: new Date().toISOString(),
  mintAddress,
  network: safeNetwork,
  options: safeOptions,
  ip: req.ip,
}) ;

res.json({ ok: true });
}) ;

// — 404 —————
app.use((req, res) => res.status(404).json({ error: 'Not found' }));

// — ERROR HANDLER —————
app.use((err, req, res, next) => {
  if (err.message === 'Not allowed by CORS') {
    return res.status(403).json({ error: 'Origin not allowed' });
  }
  console.error(err);
  res.status(500).json({ error: 'Internal server error' });
}) ;

app.listen(PORT, () => {
  console.log(`✅ SolMint API running on port ${PORT}`);
  console.log(`  Allowed origins: ${ALLOWED_ORIGINS.join(', ')}`);
  console.log(`  Owner wallet: ${process.env.OWNER_WALLET ? '***SET***' : '⚠️'}`);
  console.log(`  Network: ${process.env.NETWORK || 'mainnet'}`);
}) ;

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