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const express = require('express');
const db = require('./db'); // Import the database connection module

const app = express();
const port = 3000;

// Middleware to parse JSON bodies
app.use(express.json());

// --- API ENDPOINTS ---

// GET /users – Get all users
app.get('/users', async (req, res) => {
  try {
    const { rows } = await db.query('SELECT * FROM users ORDER BY id ASC');
    res.json(rows);
  } catch (err) {
    console.error(err.message);
    res.status(500).json({ error: 'Internal server error' });
  }
});

// GET /users/:id – Get a specific user
app.get('/users/:id', async (req, res) => {
  const { id } = req.params;
  try {
    const { rows } = await db.query('SELECT * FROM users WHERE id = $1', [id]);
    if (rows.length === 0) {
      return res.status(404).json({ error: 'User not found' });
    }
    res.json(rows[0]);
  } catch (err) {
    console.error(err.message);
    res.status(500).json({ error: 'Internal server error' });
  }
});

// POST /users – Create a new user
app.post('/users', async (req, res) => {
  const { name, email, age } = req.body;
  // Basic validation
  if (!name || !email || !age) {
    return res.status(400).json({ error: 'Name, email, and age are required' });
  }
});

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try {
  const { rows } = await db.query(
    'INSERT INTO users (name, email, age) VALUES ($1, $2, $3) RETURNING *',
    [name, email, age]
  );
  res.status(201).json(rows[0]);
} catch (err) {
  console.error(err.message);
  res.status(500).json({ error: 'Internal server error' });
}
});

// PUT /users/:id – Update a user
app.put('/users/:id', async (req, res) => {
  const { id } = req.params;
  const { name, email, age } = req.body;
  // Basic validation
  if (!name || !email || !age) {
    return res.status(400).json({ error: 'Name, email, and age are required' });
  }
  try {
    const { rows } = await db.query(
      'UPDATE users SET name = $1, email = $2, age = $3 WHERE id = $4 RETURNING *',
      [name, email, age, id]
    );
    if (rows.length === 0) {
      return res.status(404).json({ error: 'User not found' });
    }
    res.json(rows[0]);
  } catch (err) {
    console.error(err.message);
    res.status(500).json({ error: 'Internal server error' });
  }
});

// DELETE /users/:id – Delete a user
app.delete('/users/:id', async (req, res) => {
  const { id } = req.params;
  try {
    const { rowCount } = await db.query('DELETE FROM users WHERE id = $1', [id]);
    if (rowCount === 0) {
      return res.status(404).json({ error: 'User not found' });
    }
    res.json({ message: 'User deleted successfully' });
  }
});

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    } catch (err) {  
      console.error(err.message);  
      res.status(500).json({ error: 'Internal server error' });  
    }  
  });
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// Start the server  
app.listen(port, () => {  
  console.log(`Server is running on http://localhost:${port}`);  
});
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