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const fs = require('fs');
const path = require('path');
const puppeteer = require('puppeteer');

const inputDir = './'; // change to your target directory
const outputDir = './pdfs';

if (!fs.existsSync(outputDir)) {
  fs.mkdirSync(outputDir);
}

// Function to recursively get all files from directory and subdirectories
function getAllFiles(dirPath, arrayOfFiles) {
  const files = fs.readdirSync(dirPath);

  arrayOfFiles = arrayOfFiles || [];

  files.forEach(file => {
    const fullPath = path.join(dirPath, file);

    if (fs.statSync(fullPath).isDirectory()) {
      // Skip node_modules directory
      if (file !== 'node_modules') {
        arrayOfFiles = getAllFiles(fullPath, arrayOfFiles);
      }
    } else {
      arrayOfFiles.push(fullPath);
    }
  });

  return arrayOfFiles;
}

// Function to ensure output directory structure exists
function ensureDirectoryExists(filePath) {
  const dirname = path.dirname(filePath);
  if (!fs.existsSync(dirname)) {
    fs.mkdirSync(dirname, { recursive: true });
  }
}

(async () => {
  const browser = await puppeteer.launch();
  const page = await browser.newPage();

  // Get all files recursively
  const allFiles = getAllFiles(inputDir);

  for (const fullPath of allFiles) {
    const ext = path.extname(fullPath);
    const relativePath = path.relative(inputDir, fullPath);
    const baseName = path.basename(fullPath, ext);
    const relativeDir = path.dirname(relativePath);

    // Create output path maintaining directory structure
    const outputPath = path.join(outputDir, relativeDir, `${baseName}.pdf`);

    // Process .html files
    if (ext === '.html') {
      const fileUrl = 'file://' + path.resolve(fullPath);
      await page.goto(fileUrl, { waitUntil: 'networkidle0' });

      ensureDirectoryExists(outputPath);
      await page.pdf({
        path: outputPath,
        format: 'A4'
      });
      console.log(`Converted ${relativePath} to PDF`);
    }

    // Process .js files by wrapping them in a simple HTML template
    if (ext === '.js') {
      const code = fs.readFileSync(fullPath, 'utf-8');
      const htmlContent = `
        <html>
          <head>
            <style>
              body { font-family: monospace; white-space: pre-wrap; margin: 40px; }
            </style>
          </head>
      `;
    }
  }
})();

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        <body>
          <pre>${code.replace(/</g, '<').replace(/>/g, '>')}</pre>
        </body>
      </html>
    `;
    await page.setContent(htmlContent, { waitUntil: 'networkidle0' });

    ensureDirectoryExists(outputPath);
    await page.pdf({
      path: outputPath,
      format: 'A4'
    });
    console.log(`Converted ${relativePath} to PDF`);
  }
}

await browser.close();
console.log('All files processed successfully!');
})();

```