**Example Code Snippets**

**1. Mock Data**

C#

public static class MockData

{

public static List<string> GetProductGroups() => new List<string>

{

"DIESEL",

"GASOLINE",

"ETHANOL"

};

public static List<(string Code, string Name, string Family)> GetProducts() => new List<(string, string, string)>

{

("D01", "Diesel #1", "D"),

("G01", "Gasoline Regular", "G"),

("E01", "Ethanol 95", "E")

};

}

Show more lines

**2. ADMLOD Export File Generator**

C#

public static class AdmLodFileGenerator

{

public static string GenerateExportFile()

{

var sb = new StringBuilder();

sb.AppendLine("VERSION;2.4;");

sb.AppendLine("EXPORT;PGRP;;Y;");

foreach (var group in MockData.GetProductGroups())

sb.AppendLine($"MERGE;PGRP;{group};");

foreach (var product in MockData.GetProducts())

sb.AppendLine($"MERGE;PRODUCT;{product.Code};{product.Name};{product.Family};");

return sb.ToString();

}

}

Show less

Code block expanded

**3. FTP Client Mock**

C#

public static class FtpClientMock

{

public static void Upload(string fileContent, string fileName)

{

// Simulate FTP upload by writing to local directory

File.WriteAllText($"MockFiles/{fileName}", fileContent);

Logger.Log($"[FTP] Uploaded {fileName} to MockFiles/");

}

}

Show more lines

**4. Response Parser**

C#

public static class ResponseParser

{

public static void Parse(string responseFile)

{

var lines = File.ReadAllLines(responseFile);

foreach (var line in lines)

{

if (line.Contains("Success"))

Logger.Log($"[SUCCESS] {line}");

else if (line.Contains("Error"))

Logger.Log($"[ERROR] {line}");

else

Logger.Log($"[INFO] {line}");

}

}

}

Show more lines

**5. Logger**

C#

public static class Logger

{

public static void Log(string message)

{

Console.WriteLine($"{DateTime.Now:HH:mm:ss} {message}");

// Optionally write to a log file

// File.AppendAllText("log.txt", $"{DateTime.Now:HH:mm:ss} {message}\n");

}

}

Show more lines

**6. Program.cs (Main Flow)**

C#

class Program

{

static void Main(string[] args)

{

Logger.Log("Starting ADMLOD Export Prototype...");

// 1. Generate export file

var exportContent = AdmLodFileGenerator.GenerateExportFile();

Logger.Log("ADMLOD export file generated.");

// 2. Simulate FTP upload

try

{

FtpClientMock.Upload(exportContent, "adm\_export.txt");

}

catch (Exception ex)

{

Logger.Log($"[FTP ERROR] {ex.Message}");

return;

}

// 3. Simulate DTN response (choose success or error file)

string responseFile = "MockFiles/adm\_response\_success.txt"; // or adm\_response\_error.txt

ResponseParser.Parse(responseFile);

Logger.Log("Prototype run complete.");

}

}

Show more lines

**Error Simulation**

* To simulate errors, provide a mock response file (adm\_response\_error.txt) with lines containing "Error" (e.g., missing field, invalid command).
* To simulate FTP failure, throw an exception in FtpClientMock.Upload.