User Stories

Export Trigger

As a command-line user  
I want to trigger an export operation via a CLI command  
So that I can generate an ADMLOD export file for Products and Product Groups using mock data  
Business Context: Simulates how a distributor or data steward initiates a batch export to DTN.  
Acceptance Criteria:

* CLI accepts export command
* Export file is generated in /MockFiles
* Log confirms operation start and completion

ADMLOD File Generation

As a developer  
I want to generate an ADMLOD-compliant export file from mock Products and Product Groups  
So that the file structure matches DTN requirements and can be used for demonstration or testing  
Business Context: Ensures product data is formatted correctly before integration.  
Acceptance Criteria:

* File includes header, export command, and MERGE lines
* Format matches ADMLOD specification
* File saved to /MockFiles/adm\_export.txt

FTP Upload Simulation

As a developer or tester  
I want to simulate an FTP upload by writing the export file to a local directory and logging the action  
So that I can demonstrate the integration flow without connecting to a real FTP server  
Business Context: Mimics file transfer behavior for UAT and sandbox testing.  
Acceptance Criteria:

* File is written locally
* Upload action is logged
* FTP failure can be simulated via CLI flag

Mock DTN Response Parsing

As a user  
I want to parse a mock DTN response file after the simulated upload  
So that I can see which export commands would succeed or fail in a real scenario  
Business Context: Helps validate business rule enforcement and error handling.  
Acceptance Criteria:

* Response file is parsed
* Success and error counts are displayed
* Log includes parsing results

Error Scenario Simulation

As a tester  
I want to simulate error scenarios (e.g., missing fields, FTP failure, invalid command format)  
So that I can verify that the prototype handles and logs errors appropriately  
Business Context: Ensures robustness and readiness for edge cases.  
Acceptance Criteria:

* Errors are triggered via mock data or CLI flags
* Errors are categorized (validation, FTP, parsing)
* Logs include severity and correlation ID

Logging

As a stakeholder  
I want to see a log of all actions and errors in the console and optionally in a log file  
So that I can review the prototype’s behavior and troubleshoot issues  
Business Context: Supports auditability and stakeholder review.  
Acceptance Criteria:

* Logs include timestamps, severity, and correlation ID
* Console and file logging are supported
* Log file path can be specified via CLI

CLI Options

As a command-line user  
I want to specify options (e.g., which mock response file to use, log file location)  
So that I can control the prototype’s behavior for different test scenarios  
Business Context: Enables flexible testing and scenario simulation.  
Acceptance Criteria:

* CLI supports --success, --error, and --logfile flags
* Invalid options are handled gracefully
* Help message is shown for missing/invalid input

Review Output

As a stakeholder or QA  
I want to review the generated export file and the parsed response output  
So that I can confirm the prototype meets the business and technical requirements  
Business Context: Ensures outputs are usable and meet acceptance criteria.  
Acceptance Criteria:

* Export file matches ADMLOD format
* Response output matches mock file
* Logs and files are accessible for review

Mock Data & Response Configuration

As a QA or developer  
I want to customize mock product data and DTN response files  
So that I can simulate different business scenarios and edge cases  
Business Context: Enables extensibility and supports future test coverage.  
Acceptance Criteria:

* Mock data can be edited in MockData.cs or external files
* Response files can be swapped or modified
* Changes are reflected in export and parsing behavior