**Scenario**:  
You are tasked with extending the logging capabilities of SSIS to handle the following requirements while leveraging SSIS’s built-in logging framework:

1. **Enhanced Logging with Context**:
   * Implement built-in SSIS logging (e.g., using SSIS Catalog or SQL Server logging).
   * Add custom logic to include:
     + User-defined error codes for specific failures.
2. **Real-Time Monitoring**:
   * Include a process to write logs to both:
     + SQL Server (using default or custom logging).
     + A .txt file for real-time monitoring.
   * Ensure the text file uses the format: PackageName\_YYYYMMDD\_HHMMSS.log.
3. **Automatic Error Email**:
   * When an error occurs in the package:
     + Use an **Event Handler** to retrieve the error details from the built-in logging.
     + Send an email with the error details and a summary of the process status (number of rows processed, start time, end time, etc.).