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## Application Summary

This application is a comprehensive credit card management system designed for financial institutions, operating within a CICS environment on a mainframe system. Its key features include:

1. **Account and Card Management:** Users can view, update, and manage detailed account and credit card information, including transactions, cardholder details, and account balances.
2. **User Authentication and Administration:** The system implements secure sign-on processes and user role management, with separate interfaces for regular users and administrators.
3. **Transaction Processing:** The application supports adding, viewing, and processing credit card transactions, including daily batch processing and handling of rejections.
4. **Reporting and Statements:** Users can generate various reports, including transaction reports and account statements, in both plain text and HTML formats.
5. **Billing and Interest Calculation:** The system handles online bill payments and calculates interest charges for credit card accounts.
6. **Data Management:** The application utilizes VSAM files for efficient data storage and retrieval, with features like alternate indexing for improved performance.
7. **Security and Data Integrity:** The system includes validation checks and secure database interactions to maintain data accuracy and protect sensitive information.

Overall, this application streamlines credit card operations for financial institutions, providing a secure and efficient platform for managing accounts, processing transactions, and serving customers within a mainframe environment.

## Summary of each file

File Name	One sentence summary
cbl/CBACT01C	This program sequentially reads account records from an indexed file (ACCTFILE) and displays detailed account information for each record, likely for auditing, reporting, or data verification purposes within a card management system.
cbl/COSGN00C	This program manages the sign-on process for a credit card demonstration application by authenticating users, determining their roles, and directing them to appropriate menus while ensuring secure access and proper routing within the CICS environment.
cbl/COUSR03C	This program, COUSR03C, is part of the CardDemo credit card management system and is designed to delete user records from the USRSEC file in a CICS COBOL environment, allowing administrators to search for users, display their information, and remove their accounts upon confirmation.

File Name	One sentence summary
cbl/COCRDSLC	This program processes credit card detail requests within a credit card management system, allowing authorized users to view card information by inputting an account number and card number, validating the input, retrieving data from the CARDDAT file, and displaying relevant card details through a CICS interface.
cbl/COCRDUPC	This program manages credit card information updates within a financial services system, allowing authorized users to view and modify card details such as cardholder name, status, and expiration date while ensuring data integrity through validation checks and database interactions.
cbl/COMEN01C	This program serves as the main menu interface for regular users in a credit card management system, displaying options, processing user selections, and routing to appropriate programs while maintaining access control and session management within the CardDemo application.
cbl/COUSR01C.cob	This program, COUSR01C, is part of the CardDemo credit card management system and is responsible for adding new Regular or Admin users to the USRSEC file in a CICS COBOL environment by collecting and validating user information through a CICS screen interface.
cbl/COTRN02C	This program adds new credit card transactions to the TRANSACT file in a credit card processing system by receiving and validating user input, generating a unique transaction ID, creating a transaction record, and writing it to the file while managing screen interactions and error handling.
cbl/COCRDLIC	This program lists and manages credit card information within a financial institution's system, allowing users to view and potentially update card details based on their access level, account number, and card number filters.
cbl/COTRN01C	This program allows users to view detailed information about specific credit card transactions by inputting a transaction ID, retrieving data from the TRANSACT file, and displaying it

File Name	One sentence summary
	on screen within a CICS COBOL environment as part of the CardDemo application's transaction management system.
cbl/CORPT00C	This program generates and submits transaction reports for printing by creating a batch job from a CICS environment, allowing users to select report types and date ranges within a credit card transaction reporting system.
cbl/CBACT02C	This program sequentially reads and displays card data records from an indexed file (CARDFILE-FILE) as part of a card management system, likely for a financial institution or credit card company.
cbl/COUSR00C	This program lists and manages user accounts from the USRSEC file in a CICS environment as part of the CardDemo credit card management system, providing functionality for displaying, searching, navigating, and selecting users for further actions.
cbl/COUSR02C	This program, COUSR02C, is part of the CardDemo credit card management system and is designed to update user information in the USRSEC file within a CICS environment, allowing for modifications to user details such as names, passwords, and user types.
cbl/CBTRN02C	This program processes daily credit card transactions by validating, updating account balances, categorizing transactions, and handling rejections within a credit card processing system.
cbl/CBACT03C	This program sequentially reads and displays account cross-reference data from an indexed file as part of a card management system within the CardDemo application.
cbl/CSUTLDTC	This program validates dates using the CEEDAYS API, checking input against specified formats and returning detailed validation results, serving as a standalone utility for date processing within a larger system.

File Name	One sentence summary
cbl/COACTUPC	This program manages credit card account updates within a financial services system, allowing users to view, modify, and validate account and customer information while updating relevant master files.
cbl/CBSTM03B	This program is a COBOL subroutine that manages file operations for four indexed files (TRNX-FILE, XREF-FILE, CUST-FILE, and ACCT-FILE) within a card transaction processing system, supporting various operations like OPEN, CLOSE, READ, and WRITE to facilitate transaction report generation.
cbl/COACTVWC	This program handles the Account View functionality in a credit card management system, allowing users to search for and display detailed account and customer information, while performing data validation and error handling within the CICS environment.
cbl/CBTRN01C	This program processes daily credit card transactions by verifying card numbers against a cross-reference file, retrieving account information, and handling errors within the CardDemo application's batch processing system.
cbl/COTRN00C.cob	This program, COTRN00C, is part of a credit card transaction management system that lists, displays, and allows users to navigate and select transactions from the TRANSACT file within the CardDemo application.
cbl/CBCUS01C	This program reads customer records sequentially from an indexed file and displays them, serving as part of a customer data management system for a card demo application.
cbl/COBIL00C.cob	This program handles online bill payment functionality for a credit card application, allowing users to view their account balance, make full payments, and record transactions while updating account information in the relevant files.
cbl/COADM01C	This program serves as the administrative menu interface for the CardDemo credit card management system, displaying

File Name	One sentence summary
	options and processing user selections to navigate to various administrative functions within the application.
cbl/CBTRN03C.cob	This program generates a detailed credit card transaction report for a specified date range, processing transaction records, cross-referencing account information, and calculating totals within the CardDemo application's reporting workflow.
cbl/CBSTM03A	This program generates account statements in both plain text and HTML formats by processing transaction data, customer information, and account details within a credit card or banking system context.
cbl/CBACT04C.cob	This program calculates and applies interest charges for credit card accounts by processing transaction category balances, determining appropriate interest rates, generating interest transactions, and updating account balances within a credit card processing system.
jcl/READCARD	This program executes CBACT02C to read and process data from a Card Master VSAM file, utilizing a single-step JCL job structure with specified input/output definitions and job parameters.
jcl/REPTFILE	This program defines a Generation Data Group (GDG) named AWS.M2.CARDDEMO.TRANREPT with a limit of 10 generations, likely for storing transaction reports in a card demo application on a mainframe system.
jcl/READCUST	This program reads and processes customer data from a VSAM KSDS file using the CBCUS01C program, executed through a single-step JCL job named READCUST.
jcl/READACCT	This program executes CBACT01C to read and process account data from a VSAM file in a mainframe environment, likely as part of a larger customer account management system.
jcl/TRANIDX	This program creates and builds an Alternate Index (AIX) for a VSAM dataset to enhance data access and retrieval efficiency in a mainframe system, specifically for a transaction processing application.

File Name	One sentence summary
jcl/TCATBALF	This program creates and populates a Transaction Category Balance VSAM file for a card demo application by deleting any existing file, defining a new one, and copying data from a flat file to the newly created VSAM file.
jcl/TRANCATG	This program creates and populates a Transaction Category VSAM file for a card demo application by deleting any existing file, defining a new VSAM file with specific parameters, and copying data from a flat file to the newly created VSAM file.
jcl/TRANFILE	This program sets up and refreshes a Transaction Master VSAM file for a card demo application by closing existing files, creating a new VSAM file with an alternate index, populating it with data, and reopening the files in the CICS region.
jcl/OPENFIL	This program executes SDSF to issue CEMT commands that open five specific files (TRANSACTION, CCXREF, ACCTDAT, CXACAIX, and USRSEC) in the CICS/SAWSA CICS region.
jcl/DALYREJS	This program creates a Generation Data Group (GDG) named AWS.M2.CARDDemo.DALYREJS for storing daily rejection data, with a limit of 5 generations and automatic deletion of the oldest generation when the limit is reached.
jcl/READXREF.jcl	This program executes CBACT03C to read and process data from a Cross Reference (XREF) master VSAM file as part of a card demo application within a mainframe system.
jcl/DEFCUST	This program defines and creates a VSAM Customer Data File by deleting any existing file and then defining a new VSAM cluster for storing customer data within a mainframe system.
jcl/TRANBKP	This program performs essential maintenance on a transaction master file by creating a backup, deleting the existing VSAM file, and defining a new VSAM file to ensure data integrity and proper system functioning.

File Name	One sentence summary
jcl/COMBTRAN	This program combines and processes transaction data by merging current transaction files with system-generated transactions, sorting them, and loading the consolidated data into a VSAM KSDS master file for maintaining an up-to-date record in the card demo system.
jcl/ACCTFILE	This program manages an Account Data VSAM file by deleting an existing file, defining a new one, and copying data from a flat file to the newly created VSAM file, ensuring up-to-date and properly structured data for the card demo application.
jcl/TRANREPT	This program generates a credit card transaction report by unloading data from a VSAM file, filtering and sorting transactions within a specified date range, and producing a formatted report using custom processing logic.
jcl/TRANTYPE	This program sets up a Transaction Type VSAM file for a card demo application by deleting any existing file, defining a new one, and populating it with data from a flat file.
jcl/XREFFILE	This program sets up and maintains a VSAM file structure for a card demo application by creating, populating, and indexing the necessary data files through a series of JCL steps using IDCAMS utility.
jcl/CBADMCDJ	This program creates and configures essential CICS resources for the Card Demo application using the DFHCSDUP utility, defining libraries, mapsets, programs, and transactions within a specific group named CARDDemo.
jcl/DEFGDGB	This program defines multiple Generation Data Group (GDG) bases for the CARDDemo project, setting up data management structures within a mainframe system to support various types of card transaction data, reports, and backups.
jcl/CREASTMT	This program processes credit card transaction data to create statements and generate reports in both text



File Name	One sentence summary
	and HTML formats within a mainframe system, utilizing various file management and data processing steps.
jcl/CUSTFILE	This program refreshes a customer file for a card demo application by closing existing files, recreating a VSAM file with updated data, and reopening the files in the CICS region.
jcl/PRTCATBL	This program prints the Transaction Category Balance File by unloading data from a VSAM KSDS, sorting and filtering the records, and generating a formatted report of transaction category balances.
jcl/CLOSEFIL	This program executes a JCL script that uses SDSF to issue CEMT commands for closing five specific files in the CICS/ESA CICS region.
jcl/DISCGRP	This program creates and populates a Disclosure Group VSAM file for a card demo application by deleting any existing file, defining a new one, and copying data from a flat file to the newly created VSAM file.
jcl/POSTTRAN	This program processes daily transaction files, creates transaction category balances, and updates a transaction master VSAM file as part of a card demo application in a mainframe environment, likely for a financial or banking system.
jcl/INTCALC.jcl	This program executes a JCL job named "INTEREST CALCULATOR" that runs a credit card system's interest and fee calculation process, utilizing multiple input files to compute financial calculations and generate a transaction output file.
jcl/DUSRSECJ	This program creates and populates a VSAM file for user security in a card demo application by deleting existing files, creating a new physical sequential file with user data, defining a new VSAM KSDS file, and copying the data from the sequential file to the VSAM file.
jcl/CARDFILE	This program manages and manipulates card data within a mainframe system by closing and reopening files, deleting and defining VSAM files, copying data from a flat file, and creating and building an alternate index for efficient data access.

File Name	One sentence summary
cpy/CVTRA02Y.jcl	This program defines a COBOL data structure for a disclosure group record, including key fields for account group ID, transaction type, and category, likely used for processing or storing disclosure group information in a larger COBOL application.