ZAT ATM SERVICE

Project Report

Introduction

This report outlines the development and features of ZAT, a simulated Automated Teller Machine (ATM) service implemented in the C programming language. The project aims to demonstrate fundamental programming concepts through the creation of a basic, yet functional, financial transaction system.

System Overview

The ZAT ATM service is designed to cater to different user profiles by supporting two distinct card types: ***Gold*** and ***Platinum***. Each card type comes with predefined financial parameters, including initial balances and transaction limits, to simulate real-world banking scenarios.

Card Types and Specifications

Gold Card:

* Withdrawal Limit: $100,000
* Initial Balance: $150,000
* Authentication: Specific card number (last four digits) and PIN.
* Card Number: 7095
* Card PIN: 1234

Platinum Card:

* Withdrawal Limit: $200,000
* Initial Balance: $250,000
* Authentication: Specific card number (last four digits) and PIN.
* Card Number: 7500
* Card PIN: 1111

Core Functionalities

The ZAT ATM offers a comprehensive suite of banking services, accessible after successful PIN verification:

* ***Fast Cash***: Allows for quick withdrawals of common, predefined amounts.
* ***Withdrawal:*** Enables users to withdraw custom amounts, subject to their card's daily limit and available balance.
* ***Balance Inquiry:*** Provides an immediate display of the user's current account balance.

**** Deposit:*** Facilitates adding funds to the user's account.

* ***Bill Payment***: Simulates the payment of bills, deducting the specified amount from the user's balance.

* ***Change PIN:*** Offers a secure way for users to update their Personal Identification Number.

* ***Exit:*** Terminates the ATM session.

Conclusion:

The ZAT ATM service project serves as an effective learning platform for understanding fundamental programming principles, particularly in the context of a simulated financial system. It successfully delivers essential ATM services, highlighting concepts such as user authentication, transaction processing, and modular program design. This project provides a solid base for further exploration into more complex and secure banking application development.

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