System Design Analysis

1System Analysis

The process of logging in and booking via online banking system:

When running file Main, the Home menu is displayed with 3 options offered to users:

* Option 1: sign-in then users can choose to execute the following functions:

+ Balance Display

+ Money Transfer

+ Mobile Top-up

+ Money Saving

+ Payment

+ Online Borrowing

+ Transaction History Display

+ Quit from the program

* Option 2: booking
* Option 3: quit from the program

May add diagram (flow)

2System design

Add image of object, class, method + relationships

|  |  |
| --- | --- |
|  | Parent class |
|  | Child class |
|  | Child class extends parent class |
|  | Show relationship |
|  |  |

|  |  |  |
| --- | --- | --- |
| **JavaCore Final Assignment** | **Type:** | **Long Assignment** |
| **Slot(s):** | **3** |

Title

Create a Java console program to illustrate the process of logging in and booking via online banking system.

System Design Analysis

This program demonstrate 3 main options (sign-in, booking, quit) offered to end-users (including admin and customers (called “User”).

Create three classes with three kinds of candidate: Experience, Fresher, Intern

All Candidates have common attributes: Candidate Id, First Name, Last Name, Birth Date, Address, Phone, Email and Candidate type. There are three value of candidate type:

- 0: for Experience

- 1: for Fresher candidate

- 2: for Intern candidate

However, each kind of candidate has addition different attributes:

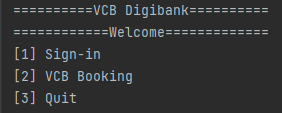
- Experience candidate: year of experience (ExpInYear), Professional Skill (ProSkill).

- Fresher candidate has addition attributes: graduated time (Graduation\_date), Rank of Graduation (Graduation\_rank) and university where student graduated (Education)

- Intern candidate: Majors, Semester, University name

1. Main Screen as below:

When running file Main, the Home menu is displayed with 3 options offered to users:



(Please choose 1 to sign in, 2 to book, and 3 to quit from the program).

2. Function details:

* 1. Option 1: sign-in

This main function enables users to choose the following sub-functions:

+ Balance Display

+ Money Transfer

+ Mobile Top-up

+ Money Saving

+ Payment

+ Online Borrowing

+ Transaction History Display

+ Quit from the program

2.2. Option 2: booking

2.3. Option 3: quit

Guidelines

|  |  |  |
| --- | --- | --- |
| **Slot** | **Member** | **Task** |
| **1** | Vu Hoang Dung | * Code Framework Design * Write the following functions:   + Balance Display  + Money Transfer  + Mobile Top-up  + Payment  +Transaction History Display  +Booking (Main function)   * Draw diagrams illustrating flow and relationships between object, class, method * Review final code |
| **2** | Van Dung | * Write the “Money Saving” function * Draw diagrams illustrating flow and relationships between object, class, method |
| **3** | Tran Thu Hong | * Write the “Online Borrowing” function * Write description document |