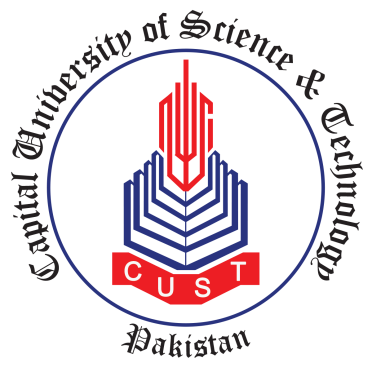
**CAPITAL UNIVERSITY OF SCIENCE & TECHNOLOGY, ISLAMABAD**



**Assignment #01**

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**Section 1**

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# Case Study:

This system will be designed to improve Bakery Management system. Now a days no one has time to maintain the record and save it manually. This system will help for maintain the record and save it easily.

The purpose of this document is to provide the staff which manage the system record easily and access it by single click. They do not have to maintain it manually and save it physically. Everyone is busy now a days, no one has time to search the record register or paper by paper. As well as the record history such as (Sale, purchase, expense etc.) will be saved on this system so every time when manager want to access it, he can get access on this record easily and generate reports by single click. The software includes maintaining the record of employee sale purchase expense etc.

And it well also maintain the security of data and software interfaces such as (Admin, sale, reports etc.)

This system will reduce staff extra hard work. Staff doesn’t have to maintain the record manually. It will save a lot of time.

# Functions:

## Login (String Username, String password);

This function verifies the username and password entered by the user. And if the username and Password doesn’t match with the username and Password which save in the database then the system will ask enter again then user will re-enter the username and password till he enters the correct username and password.

## Get Reports (int Account No., Date date);

In this function the user will generate the report. He will enter account number or select date for the number. Then the system will generate the report of specific account or date.

## Register Employee (String name, String password, int emp\_id);

This function allows Admin to register the employee in the system. He will have to enter name, password and emp\_id of employee. Then he will get registered in the system.

# Black box Testing:

## Worst BVA:

## Function 1:

Total cases = 5 ^ 1 = 5

Min: 0

Min+1: 1

Normal: 50000

Max -1: 99998

Max: 1000

|  |  |  |
| --- | --- | --- |
| **Case** | **pin** | **Expected output** |
| 1 | 0 | Invalid |
| 2 | 24324 | Valid |
| 3 | 34643 | Valid |
| 4 | 59786 | Valid |
| 5 | 99999 | Invalid |

## Function 2:

Total cases = 5 ^ 1 = 5

Min: 1

Min + 1: 2

Normal: 5555

Max-1: 9998

Max: 9999

|  |  |  |
| --- | --- | --- |
| **Case** | **Account No.** | **Expected output** |
| 1 | 10 | Valid |
| 2 | 1000 | Valid |
| 3 | 1 | Invalid |
| 4 | 5000 | Valid |
| 5 | 9999 | Invalid |

## Function 3:

### Input values of Account:

Min: 1

Min + 1: 2

Normal: 500

Max-1: 9998

Max: 9999

### Input values of Password:

Min: 0

Min+1: 1

Normal: 50000

Max -1: 99998

Max: 99999

### Input values of Emp\_id:

Min: 1

Min + 1: 2

Normal: 50

Max-1: 99

Max: 100

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case | Account | pin | Emp\_id | Expected output |
| 1 | 10 | 00000 | 1 | Invalid |
| 2 | 10 | 00001 | 1 | Invalid |
| 3 | 10 | 00002 | 1 | Invalid |
| 4 | 10 | 00003 | 1 | Invalid |
| 5 | 10 | 00005 | 1 | Invalid |
| 6 | 10 | 00006 | 1 | Invalid |
| 7 | 10 | 00007 | 1 | Invalid |
| 8 | 10 | 00008 | 1 | Invalid |
| 9 | 10 | 00009 | 1 | Invalid |
| 10 | 10 | 00010 | 1 | Invalid |
| 11 | 100 | 00011 | 5 | Valid |
| 12 | 100 | 00012 | 5 | Valid |
| 13 | 100 | 00013 | 5 | Valid |
| 14 | 100 | 00014 | 5 | Valid |
| 15 | 100 | 00015 | 5 | Valid |
| 16 | 100 | 00016 | 5 | Valid |
| 17 | 100 | 00017 | 5 | Valid |
| 18 | 100 | 00018 | 5 | Valid |
| 19 | 100 | 00019 | 5 | Valid |
| 20 | 100 | 00020 | 5 | Valid |
| 21 | 1000 | 00021 | 10 | Valid |
| 22 | 1000 | 00022 | 10 | Valid |
| 23 | 1000 | 00023 | 10 | Valid |
| 24 | 1000 | 00024 | 10 | Valid |
| 25 | 1000 | 00025 | 10 | Valid |
| 26 | 1000 | 00026 | 10 | Valid |
| 27 | 1000 | 00027 | 10 | Valid |
| 28 | 1000 | 00028 | 10 | Valid |
| 29 | 1000 | 00029 | 10 | Valid |
| 30 | 1000 | 00030 | 10 | Valid |
| 31 | 2000 | 00031 | 15 | Valid |
| 32 | 2000 | 00032 | 15 | Valid |
| 33 | 2000 | 12300 | 15 | Valid |
| 34 | 2000 | 12311 | 15 | Valid |
| 35 | 2000 | 12323 | 15 | Valid |
| 36 | 2000 | 12367 | 15 | Valid |
| 37 | 2000 | 12343 | 15 | Valid |
| 38 | 2000 | 12327 | 15 | Valid |
| 39 | 2000 | 34560 | 15 | Valid |
| 40 | 2000 | 34561 | 15 | Valid |
| 41 | 3000 | 34562 | 20 | Valid |
| 42 | 3000 | 34563 | 20 | Valid |
| 43 | 3000 | 34564 | 20 | Valid |
| 44 | 3000 | 34565 | 20 | Valid |
| 45 | 3000 | 34566 | 20 | Valid |
| 46 | 3000 | 34567 | 20 | Valid |
| 47 | 3000 | 34568 | 20 | Valid |
| 48 | 3000 | 34569 | 20 | Valid |
| 49 | 3000 | 34510 | 20 | Valid |
| 50 | 3000 | 67800 | 20 | Valid |
| 51 | 3000 | 67890 | 25 | Valid |
| 52 | 3000 | 67891 | 25 | Valid |
| 53 | 3000 | 67892 | 25 | Valid |
| 54 | 3000 | 67893 | 25 | Valid |
| 55 | 3000 | 67894 | 25 | Valid |
| 56 | 3000 | 67895 | 25 | Valid |
| 57 | 3000 | 67896 | 25 | Valid |
| 58 | 3000 | 67897 | 25 | Valid |
| 59 | 3000 | 67897 | 25 | Valid |
| 60 | 3000 | 99999 | 25 | Valid |