

# Mainframe Mini Project Vehicle Insurance

# INTRODUCTION

This document outlines a Mini Project for the Mainframe LOT. The project is to develop Vehicle Insurance Application. This document contains the workflow of the system and gives guidelines on how to build the functionality gradually in each of the course modules of the Mainframe LOT.

## SETUP CHECKLIST FOR MINI PROJECT

### Minimum System Requirements

1. Intel Pentium 90 or higher (P166 recommended)
2. Microsoft Windows 95, 98, or NT 4.0, 2k, XP, 2007 Pro
3. Memory: 32MB of RAM (64MB or more recommended)
4. Quick 3270 secure Software installed on local machine

## **OBJECTIVE**

Development of a Vehicle Insurance Application.

## **ABSTRACT OF THE PROJECT**

The Vehicle Insurance Application will be used to check the Insurance status of customer and allow customer to browse their data.

## **FUNCTIONAL COMPONENTS OF THE PROJECT**

Following is the list of the features of our application-

1. The project is to store the details of the customers who had registered for Insurance.
2. In this application two types of people can login. One is Administrator and another one is Client.
  - a. Administrator has access to Add, Update, Delete and Browse the Records.
  - b. Whereas, Client can only browse his/her details.
3. Administrator Part
  - a. Admin can login through his/her login details (i.e. ID and Password).
  - b. After successful login he/she can Add, Update, Delete and Browse the Records of their clients.
  - c. And if he/she enter wrong Id and Password then the message will display “Error Accessing Login”.
4. Client Part
  - a. After selecting Client option the Client screen will be displayed and will ask to enter the Vehicle Number.
  - b. After entering the correct details the detailed map will be displayed showing the details about his/her vehicle Insurance.

5. The third option in our project is about Terms and Condition. It will displayed the map showing all the terms of service.
6. If any invalid key is pressed on any screen then the error message will be display related to that error.

### **TECHNOLOGY USED:**

- Business Logic Components:-
  - COBOL
  - CICS
- Job Control Language
  - MVS
- Access Methods
  - DB2

### **TECHNICAL SPECIFICATION:**

The project specifications are:-

- COBOL programs with embedded CICS and SQL statements - 9 programs
- Number of Maps – 8 Maps
- Mapset - 1
- JCL programs – one JOB for CICS map, one for CICS and DB2.

## CONVENTIONS

### A. Table Names:

1. ADMIN\_TABLE
2. BIKE\_TABLE
3. CLIENT1\_TABLE
4. CLIENT2\_TABLE

### B. Program Names:

1. P05AP01
2. P05AP02
3. P05AP03
4. P05AP04
5. P05AP05
6. P05AP07
7. P05AP08
8. P05AP09

### C. Transaction ID:

1. P05A
2. P05B
3. P05C
4. P05D
5. P05E
6. P05G

### D. Map Names:

1. WELCOME
2. ALOGIN
3. KEYMAP
4. DETAIL
5. NEWMAP
6. DETAILD
7. CLOGIN
8. TANDC

### E. Mapset Name:

1. P05AS01

## TEST CASES

1. **Welcome Screen-** After Pressing an Enter key with a valid choice (Option 1,2,3).

```
DATE: 06/09/2017          TIME: 12:37:21
*****
JEEVAN VEHICLE INSURANCE
****G-1****

SELECT WHO YOU ARE

1.  ADMIN
2.  CLIENT
3.  TERMS AND CONDITIONS

ENTER YOUR CHOICE
*****
MESSAGE - _____

ENTER = PROCESS F3 = BACK
```

## 2. Option 1:- Go to admin login.

DATE : 06/09/2017 TIME : 12:38:08

ADMINISTRATOR LOGIN  
-----

LOGIN ID :   adin

PASSWORD :

MESSAGE : \_\_\_\_\_

ENTER = PROCESS F3 = BACK

## 3. Option 2:- Go to client login.

DATE: 06/09/2017 TIME: 14:22:52

CLIENT LOGIN SECTION

ENTER YOUR VEHICLE NUMBER: MH 14 ZA 111

PASSWORD: AAA1

MESSAGE: \_\_\_\_\_

ENTER = PROCESS F3 = BACK

#### 4. Option 3:- Go to Terms & Conditions screen

```
DATE : 06/09/2017                                TIME : 14:24:35

TERMS AND CONDITIONS:

* When requested,Jeevan Insurance will co-operate fully with law enforcement
  agencies in any investigation of alleged illegal activity on the internet.
* You alone are responsible for your actions or the actions of any person
  using your user name and/or password.
* Jeevan Insurance reserves the right to terminate access to this web site at
  any time and without notice.
* Jeevan Insurance may change the format and content of this web site at any
  time.

BENEFITS:

* All the states in India require a minimum amount of insurance. Bike
  insurance can help offset the loss of huge sum in the following manner :
* Provides benefits to survivors when an accident results in death.
  an accident.
* It covers lawsuits,including legal fees brought against you as the result of
* Covers the bills of vehicle repairs due to damage caused in an accident.
* Covers damage caused by other than an accident for example, theft,fire.etc.

F3 = BACK
```

#### 5. Option 4:- Pressing F3 will end the program.

```
THANK YOU FOR VISITING BYE, BYE!!
```



6. Option 5:- Pressing any other AID keys or choosing wrong options will give an error message.

```
DATE: 06/09/2017                                TIME: 14:27:47
*****
JEEVAN VEHICLE INSURANCE
****G-1****

SELECT WHO YOU ARE

1. ADMIN
2. CLIENT
3. TERMS AND CONDITIONS
5. ENTER YOUR CHOICE
*****
MESSAGE - INVALID CHOICE

ENTER = PROCESS F3 = BACK
```

## 7. Admin Login Screen

```
DATE : 06/09/2017                                TIME : 16:12:31

ADMINISTRATOR LOGIN
-----

LOGIN ID : 0147

PASSWORD :

MESSAGE : _____

ENTER = PROCESS F3 = BACK
```

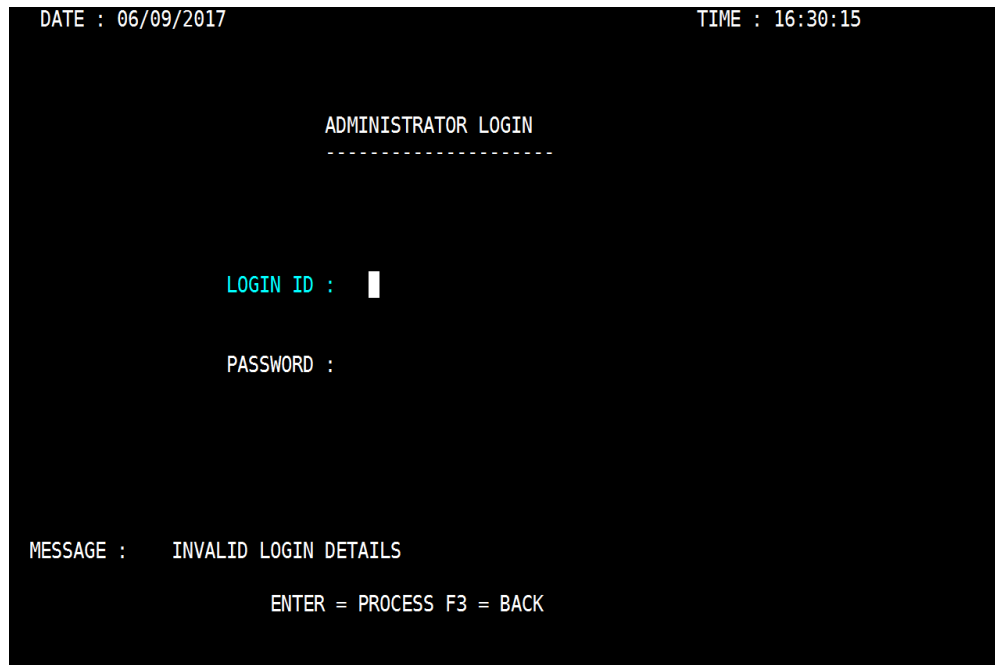
8. Pressing an Enter key with a valid id and password will go to key map to accept vehicle number.

```
DATE : 06/09/2017                                TIME : 16:28:11
*****
BROWSE SECTION
-----
ENTER VEHICLE NUMBER : MH 14 ZA 
MESSAGE: _____
ENTER = PROCESS   F3 = EXIT
```

9. Pressing F3 will go to welcome screen.

```
DATE: 06/09/2017                                TIME: 12:37:21
*****
JEEVAN VEHICLE INSURANCE
***G-1***
SELECT WHO YOU ARE
1. ADMIN
2. CLIENT
3. TERMS AND CONDITIONS
ENTER YOUR CHOICE
*****
MESSAGE - _____
ENTER = PROCESS F3 = BACK
```

10. Pressing any other AID keys or choosing invalid id and password will give an error message.



11. Browse Section Screen (with input)



12. Pressing an Enter key with a valid vehicle number will go to detail map to update or delete the information.

```
DATE : 06/09/2017                                TIME : 16:35:49
*****

CUSTOMER DETAILS
-----

VEHICLE NUMBER : MH 14 ZA 1111   CUSTOMER NAME: SID
MODEL: PULSAR150                START DATE: 01 07 2017
REGISTRATION DATE: 01 01 2015    END DATE: 01 07 2020
CLAIMS: 01                      MOBILE NUMBER: 9782541021

MESSAGE: _____

ENTER=PROCESS   F3=EXIT           PF5=UPDATE   PF6=DELETE
```

13. Pressing an Enter key with a invalid vehicle number will go to add new login screen.

```
DATE: 06/09/2017                                TIME: 16:37:46

ADD NEW LOGIN

VEHICLE NUMBER : MH 14 ZA 
PASSWORD      : _____

MESSAGE: _____

F3=EXIT       PF4=ADD
```

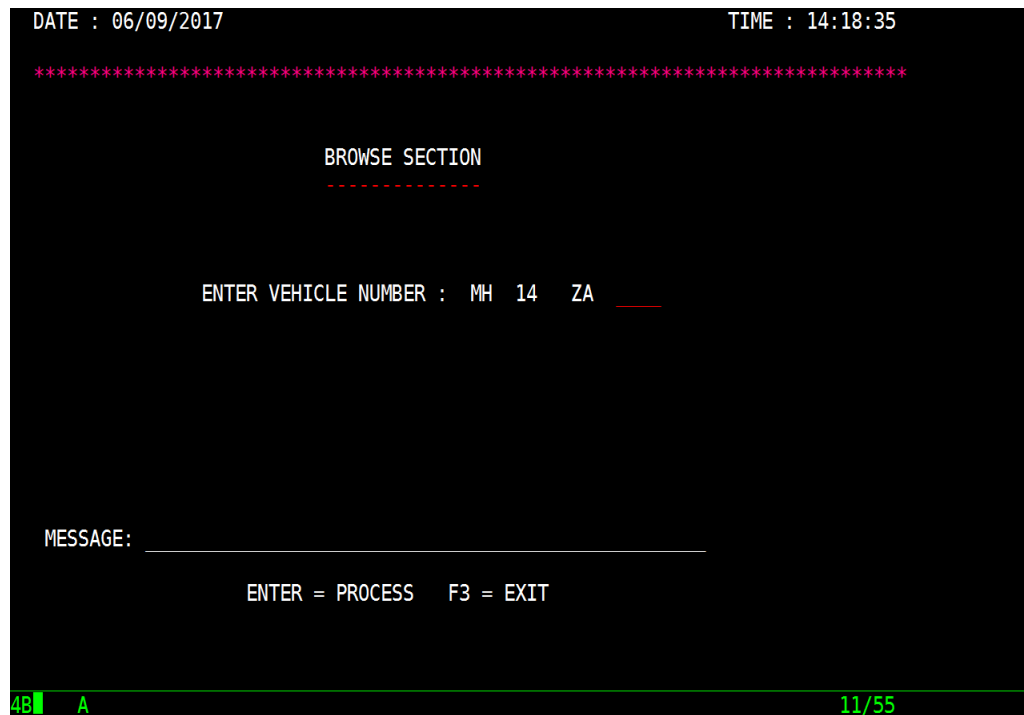
14. Pressing F3 will go to Admin login screen.



15. Pressing any other AID keys error message.



16. Pressing F3 will go to browse section.



17. Pressing F5 will update the data and go to browse section giving the some message.



18. Pressing F6 will delete the data and go to browse section giving some message.

```
DATE : 29/08/2017                                TIME : 15:15:39
*****
BROWSE SECTION
-----

ENTER VEHICLE NUMBER :  MH  14  ZA  333

MESSAGE: DELETE SUCCESSFUL

ENTER = PROCESS    F3 = EXIT
```

19. Pressing any other AID keys will give an error message

```
DATE : 06/09/2017                                TIME : 16:51:20
*****
CUSTOMER DETAILS
-----

VEHICLE NUMBER : MH 14 ZA  1111  CUSTOMER NAME: SIDD
MODEL: PULSAR150                START DATE: 01 07 2017
REGISTRATION DATE: 01 01 2015    END DATE: 01 07 2020
CLAIMS: 01                      MOBILE NUMBER: 9782541021

MESSAGE: INVALID KEY IS PRESSED

ENTER=PROCESS    F3=EXIT                PF5=UPDATE    PF6=DELETE
```

## 20. Add New Login Screen (With Inputs)

```
DATE: 29/08/2017                                TIME: 15:21:48

                                ADD NEW LOGIN

                                VEHICLE NUMBER : MH 14 ZA 2345
                                PASSWORD       : 2345

MESSAGE: _____

F3=EXIT    PF4=ADD
```

## 21. Pressing an F4 key with a valid id and password will go to Add detail map (DETAILED).

```
DATE : DD/MM/YYYY                                TIME : HH:MM:SS
*****

                                CUSTOMER DETAILS
                                -----

VEHICLE NUMBER : MH 14 ZA     CUSTOMER NAME: _____

MODEL: _____    START DATE: _____

REGISTRATION DATE: _____    END DATE: _____

CLAIMS:     MOBILE NUMBER: _____

MESSAGE: _____

ENTER=PROCESS    F3=EXIT    PF4=ADD
```



## 22. Pressing F3 will go to Browse Section

```
DATE : 29/08/2017                                TIME : 15:15:39
*****
BROWSE SECTION
-----

ENTER VEHICLE NUMBER :  MH  14  ZA  333

MESSAGE: DELETE SUCCESSFUL

ENTER = PROCESS   F3 = EXIT
```

## 23. Pressing any other AID keys will give an error message.

```
DATE:  29/08/2017                                TIME:  15:28:23

ADD NEW LOGIN

VEHICLE NUMBER : MH 14 ZA  _
PASSWORD       :  _

MESSAGE:  INVALID KEY IS PRESSED

F3=EXIT    PF4=ADD
```

24. Pressing F4 will add details of new customer.

```
DATE: 07/09/2017                                TIME: 08:41:31
                                     ADD NEW LOGIN

VEHICLE NUMBER : MH 14 ZA 9999
PASSWORD       : aaa9

MESSAGE: _____

F3=EXIT      PF4=ADD
```

25. Pressing F3 will go to browse section giving some message.

```
DATE : 07/09/2017                                TIME : 08:43:59
*****
                                     BROWSE SECTION
                                     -----

ENTER VEHICLE NUMBER : MH 14 ZA ____

MESSAGE: _____

ENTER = PROCESS   F3 = EXIT
```

26. Pressing any other AID keys will give an error message.

DATE: 07/09/2017 TIME: 08:45:24

ADD NEW LOGIN

VEHICLE NUMBER : MH 14 ZA

PASSWORD :

---

MESSAGE: INVALID KEY IS PRESSED

F3=EXIT PF4=ADD

27. Client Login Screen (With Inputs)

DATE: 06/09/2017 TIME: 13:50:37

CLIENT LOGIN SECTION

ENTER YOUR VEHICLE NUMBER: MH 14 ZA 1111

PASSWORD: aa1

---

MESSAGE:

ENTER = PROCESS F3 = BACK

28. Pressing an Enter key with a valid id and password will go to browse map to show the customer details.

```
DATE : 06/09/2017                                TIME : 17:27:47
*****
                                CUSTOMER DETAILS
                                -----

VEHICLE NUMBER : MH 14 ZA 1111    CUSTOMER NAME: SIDD

MODEL: PULSAR150                  START DATE: 01 07 2017

REGISTRATION DATE: 01 01 2015     END DATE: 01 07 2020

CLAIMS: 01                        MOBILE NUMBER: 782541021

MESSAGE: _____

F3=EXIT
```

29. Pressing F3 will go to welcome screen.

```
DATE: 29/08/2017                                TIME: 15:35:31
*****
                                JEEVAN VEHICLE INSURANCE
                                ****G-1****

                                SELECT WHO YOU ARE

                                1.  ADMIN
                                2.  CLIENT
                                3.  TERMS AND CONDITIONS

                                -----
                                MESSAGE - _____

ENTER = PROCESS F3 = BACK
```

30. Pressing any other AID keys or choosing invalid id and password will give an error message.

```
DATE: 29/08/2017                                TIME: 15:42:02

CLIENT LOGIN SECTION

ENTER YOUR VEHICLE NUMBER: MH 14 ZA

PASSWORD:

MESSAGE: ERROR ACCESSING LOGIN

ENTER = PROCESS    F3 = BACK
```

31. Terms and Conditions Screen:-

```
DATE : 29/08/2017                                TIME : 15:34:53

TERMS AND CONDITIONS:

* When requested,Jeevan Insurance will co-operate fully with law enforcement
  agencies in any investigation of alleged illegal activity on the internet.
* You alone are responsible for your actions or the actions of any person
  using your user name and/or password.
* Jeevan Insurance reserves the right to terminate access to this web site at
  any time and without notice.
* Jeevan Insurance may change the format and content of this web site at any
  time.

BENEFITS:

* All the states in India require a minimum amount of insurance. Bike
  insurance can help offset the loss of huge sum in the following manner :
* Provides benefits to survivors when an accident results in death.
  an accident.
* It covers lawsuits,including legal fees brought against you as the result of
* Covers the bills of vehicle repairs due to damage caused in an accident.
* Covers damage caused by other than an accident for example, theft,fire.etc.

F3 = BACK
```

32. Pressing F3 will go to welcome screen.

```
DATE: 29/08/2017                                TIME: 15:35:31
*****
JEEVAN VEHICLE INSURANCE
      ***G-1***

      SELECT WHO YOU ARE

      1.  ADMIN
      2.  CLIENT
      3.  TERMS AND CONDITIONS

      —
*****
MESSAGE - _____

ENTER = PROCESS F3 = BACK
```

## TESTING RESULTS

### Self-Review

#### Test Result:-

1. Validations are not working
2. Fields are taking Garbage Values in some cases.
3. Add new record login is not working.
4. In some cases messages are not showing.

### Code Review (Done by G-2)

#### Test Result:-

1. No Author name is given in any of the programs.
2. Comments are not given in Rep1 and Rep2.
3. Variable Names are bit complicated in Rep2.
4. Good coding standards are followed.
5. Validations are partial.
6. Spaces are not given after paragraphs, hence not properly readable.