

Compliance report (GUI PART)

for

Factory Service Simulation Software (FSSS)

- Group 12

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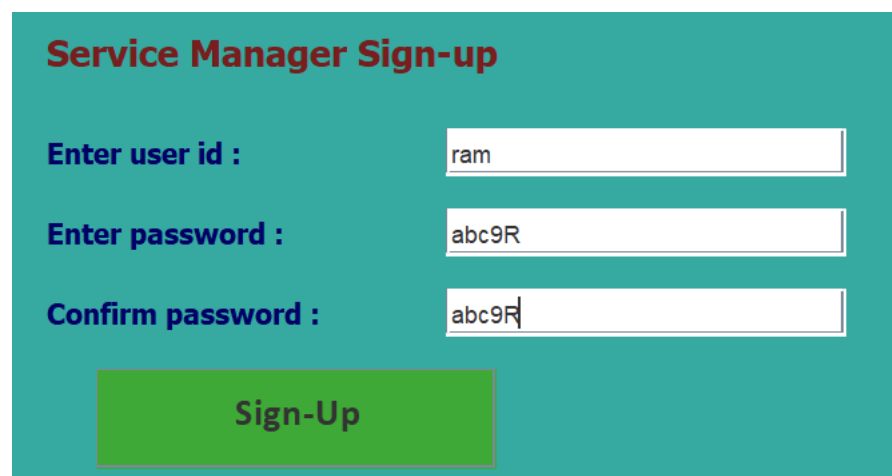
Note:

All the test cases which are expected to not give any error messages have not given any error messages. The error message outputs for various test cases is given below.

1.Service manager signup

Test case:

1.Correct output



Service Manager Sign-up

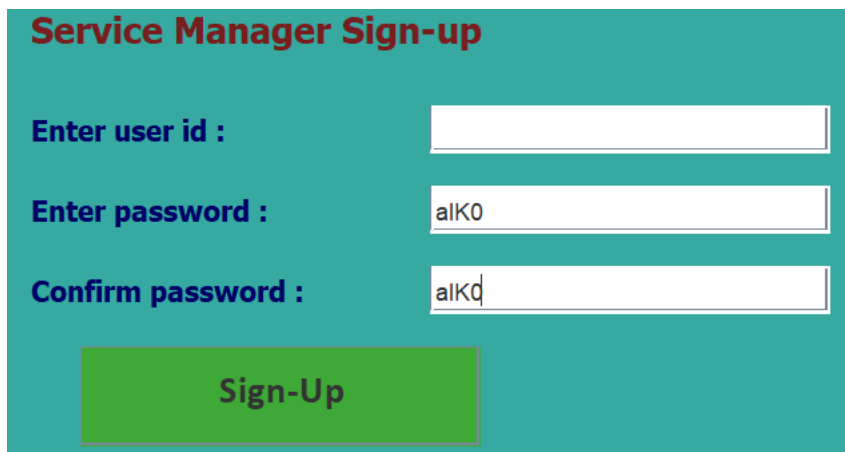
Enter user id :

Enter password :

Confirm password :

Sign-Up

2.No user name:



Service Manager Sign-up

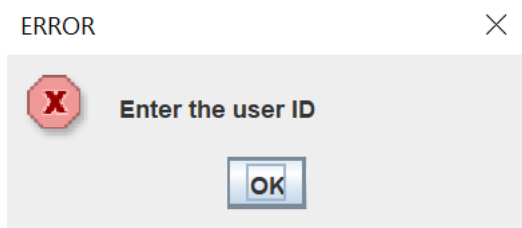
Enter user id :

Enter password :

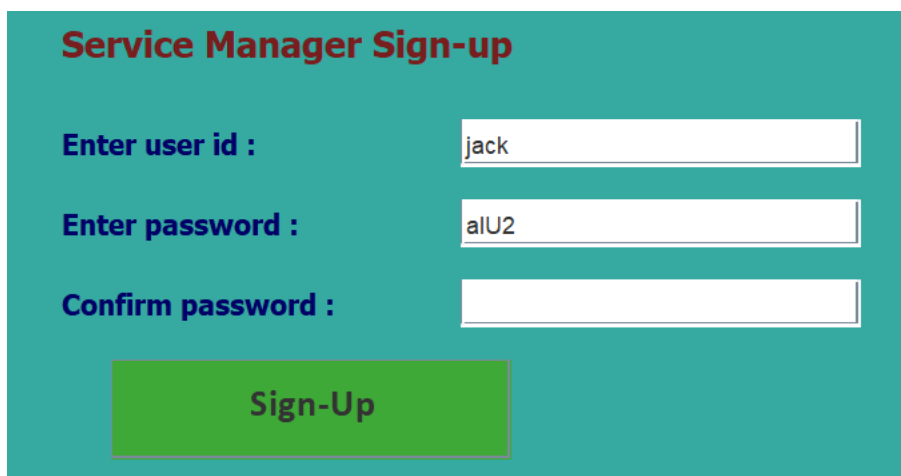
Confirm password :

Sign-Up

output



3.No confirm password



Service Manager Sign-up

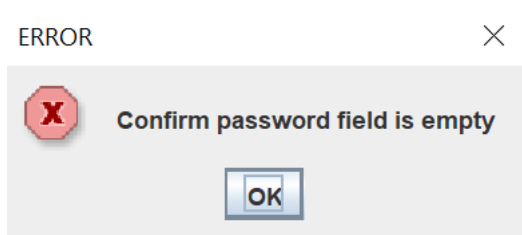
Enter user id :

Enter password :

Confirm password :

Sign-Up

output



4. No password

Service Manager Sign-up

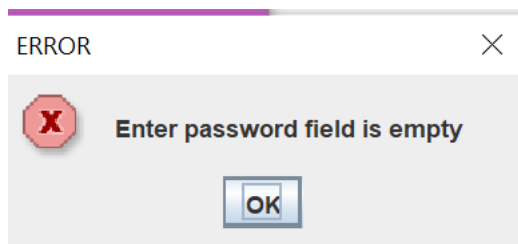
Enter user id :

Enter password :

Confirm password :

Sign-Up

output



5.different password

Service Manager Sign-up

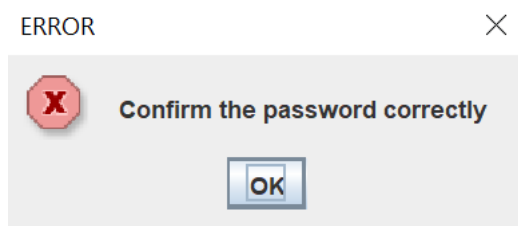
Enter user id :

Enter password :

Confirm password :

Sign-Up

output



6.Incorrect password type

Service Manager Sign-up

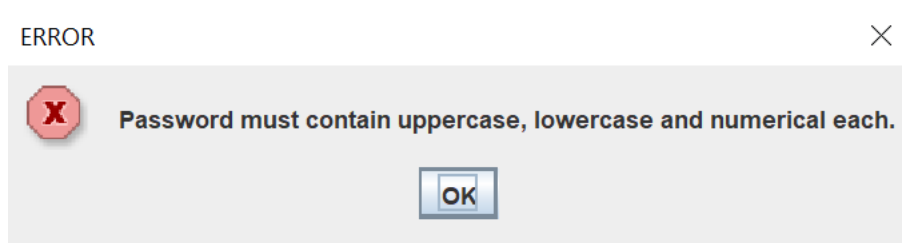
Enter user id :

Enter password :

Confirm password :

Sign-Up

Output



2.Service manager login

Test case:

1.Correct output

Service Manager Login

Enter user id :

Enter password :

2.No such user

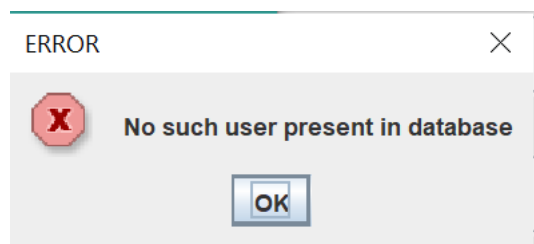
Service Manager Login

Enter user id :

Enter password :

Login

Output



3.Wrong password

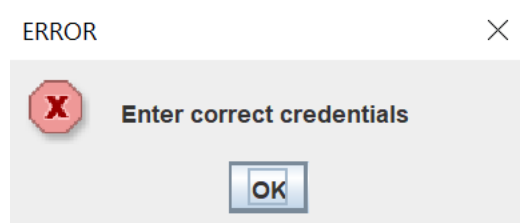
Service Manager Login

Enter user id :

Enter password :

Login

Output



4.No user id

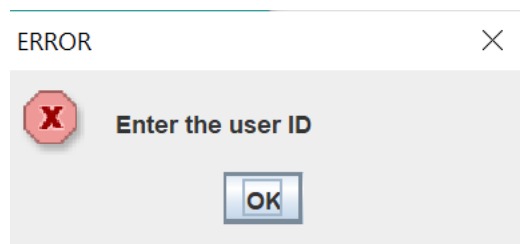
Service Manager Login

Enter user id :

Enter password :

Login

Output



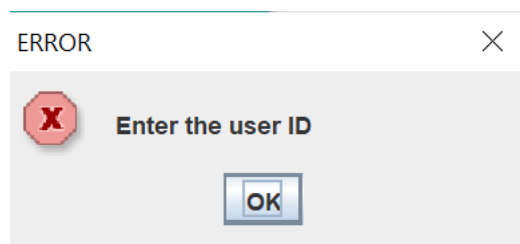
5.No data

Service Manager Login

Enter user id :

Enter password :


Output



3.Add Machine

Test case:

1.Correct output

 Add Machine — □ ×


Machine Type :

MTTF (Days) :

Repair Time(Days) :
(1-1000)

Quantity (1-1000) :

2.No name

 Add Machine — □ ×

Machine Type :


MTTF (Days) :

Repair Time(Days) :
(1-1000)

Quantity (1-1000) :

Output

Error! ×

 No machine name given

3.Negative MTTF

Add Machine

Machine Type : lathe

MTTF (Days) : -7

Repair Time(Days) : 178
(1-1000)

Quantity (1-1000) : 50

Output

Error!

X MTTF cannot be negative or zero

OK

4.zero MTTF

Add Machine

Machine Type : tutning

MTTF (Days) : 0

Repair Time(Days) : 178
(1-1000)

Quantity (1-1000) : 67


Output

Error!

X MTTF cannot be negative or zero

OK

5.Large repair time

 Add Machine — □ ×

Machine Type :


MTTF (Days) :

Repair Time(Days) :
(1-1000) ▲▼


Quantity (1-1000) : ▲▼

Output

Error! ×

 Repair Time cannot be greater than 100 days

6.Large Quantity

 Add Machine — □ ×


Machine Type :

MTTF (Days) :


Repair Time(Days) :
(1-1000) ▲▼

Quantity (1-1000) : ▲▼

Error! ×

 Quantity cannot be greater than 1000

7.Already present machine

 Add Machine — □ ×

Machine Type :

MTTF (Days) :

Repair Time(Days) :
(1-1000) ▲ ▼

Quantity (1-1000) : ▲ ▼

Output


Error!



Machine with same name exists, try a different name.



8.No MTTF given

 Add Machine — □ ×

Machine Type :

MTTF (Days) :

Repair Time(Days) :
(1-1000) ▲ ▼

Quantity (1-1000) : ▲ ▼

Output

9.Repair time zero

Add Machine

Machine Type : Drill


MTTF (Days) : 100

Repair Time(Days) :
(1-1000) 0

Quantity (1-1000) : 276

Output

Error!

 Repair Time cannot be negative or zero

OK

10.Negative quantity

Add Machine

Machine Type : Drill

MTTF (Days) : 3

Repair Time(Days) :
(1-1000) 15

Quantity (1-1000) : -56

Output

Error!

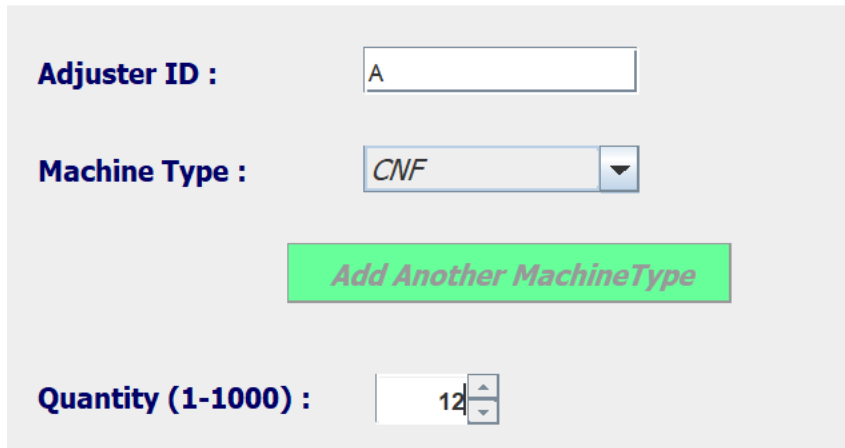
 Quantity cannot be negative or zero

OK

4.Add Adjuster

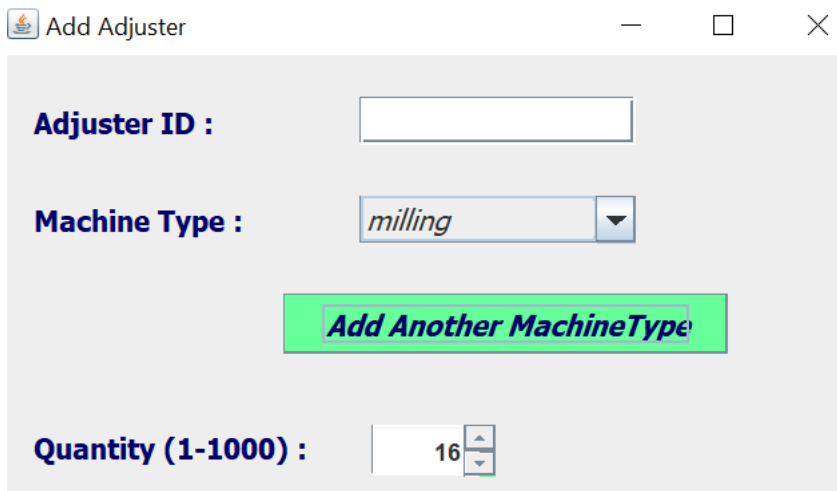
Test case:

1. Correct output



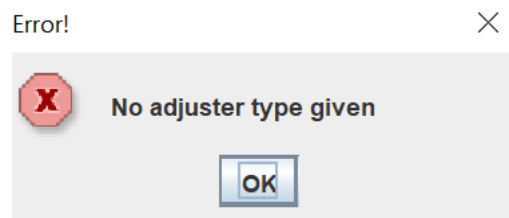
A screenshot of a web form titled 'Add Adjuster'. It contains three input fields: 'Adjuster ID' with the value 'A', 'Machine Type' with a dropdown menu showing 'CNF', and 'Quantity (1-1000)' with a spinner box showing '12'. A green button labeled 'Add Another MachineType' is positioned below the 'Machine Type' field.

2.No adjuster id



A screenshot of a web form titled 'Add Adjuster'. The 'Adjuster ID' field is empty. The 'Machine Type' dropdown menu shows 'milling'. The 'Quantity (1-1000)' spinner box shows '16'. A green button labeled 'Add Another MachineType' is positioned below the 'Machine Type' field.

Output



3.Large Quantity

Add Adjuster

Adjuster ID :

Machine Type :

Add Another MachineType

Quantity (1-1000) :

Output

Error!

X Quantity cannot be greater than 1000

OK

4.Negative Quantity

Add Adjuster

Adjuster ID :

Machine Type :

Add Another MachineType

Quantity (1-1000) :

Output

Error!

X Quantity cannot be negative or zero

OK

5.Zero Quantity

Add Adjuster

Adjuster ID :


Machine Type :

Add Another MachineType

Quantity (1-1000) :

Output

Error!

 Quantity cannot be negative or zero

6.Same adjuster present

Add Adjuster

Adjuster ID :

Machine Type :

Add Another MachineType

Quantity (1-1000) :

Output

5.Edit Machine

Test case:

1.Correct output

Edit Machine

Machine Name :

Quantity (1-1000) :

2.Large Quantity


Edit Machine

Machine Name :

Quantity (1-1000) :

Output

Error!

 Quantity cannot exceed 1000

3.Negative Quantity


Edit Machine

Machine Name :

Quantity (1-1000) :

Output

Error!

 Quantity cannot be negative or zero

4.Zero Quantity


Edit Machine

Machine Name :

Quantity (1-1000) :

Output

Error!

 Quantity cannot be negative or zero

5.NEW TEST CASE:
No machine chosen

Edit Machine


Machine Name :

Choose type

Quantity (1-1000) :

Output

Error!

 Machine not chosen

OK

6.Edit Adjuster

Test case:

1. Correct output

Edit Adjuster

Adjuster Name :

Choose type

Quantity (1-1000) :

2. Large Quantity


Edit Adjuster

Adjuster Name :

Quantity (1-1000) :

Output

Error!

 Quantity cannot exceed 1000

3.Negative Quantity


Edit Adjuster

Adjuster Name :

Quantity (1-1000) :

Output

Error!

 Quantity cannot be negative or zero

4.Zero Quantity

Edit Adjuster


Adjuster Name :

Choose type

Quantity (1-1000) :

Output

Error!

 Quantity cannot be negative or zero

OK

5. NEW TEST CASE

No adjuster chosen

Edit Adjuster

Adjuster Name :

Choose type

Quantity (1-1000) :

Output

Error!

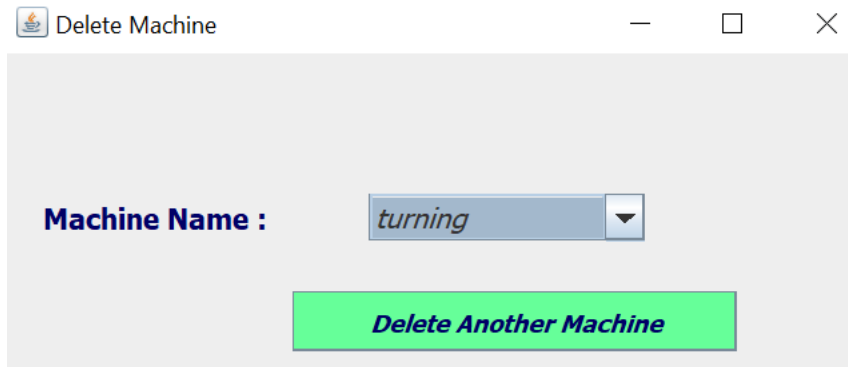
 Adjuster not chosen

OK

7.Del Machine

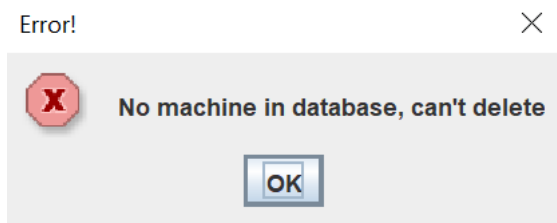
Test case:

1. Correct output



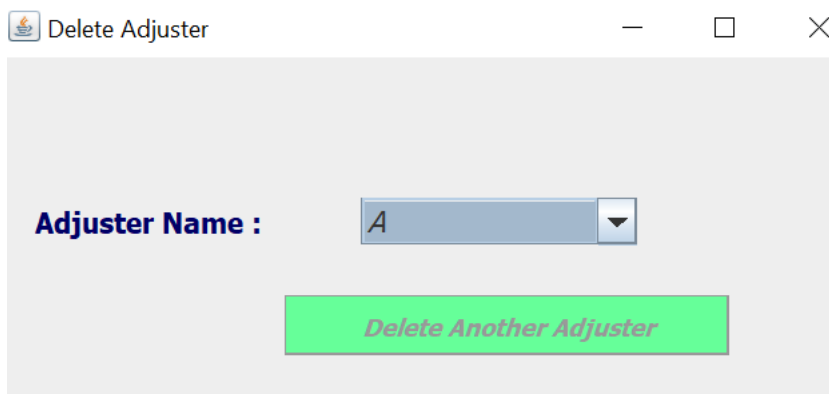
2. No machine present

Output:



8.Del Adjuster

1. Correct output



2. No adjuster present


Output



9.Show machine

Test case:

1. Correct output

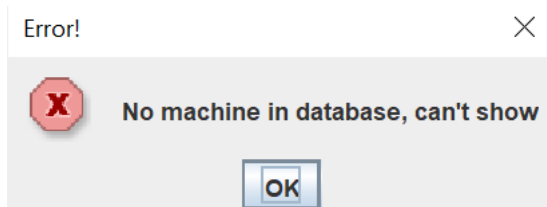


Machine List

Machine Type	MTTF(Days)	Repair Time	Quantity
Lathe	60	4	25
Turning	60	9	15
CNF	40	15	25

2. No machine present


Output



10.Show adjuster

Test case:

1. Correct output

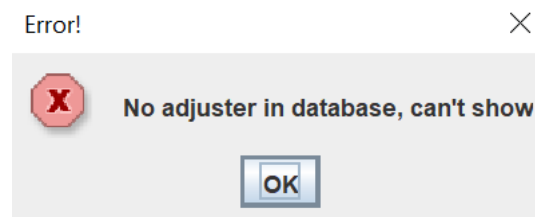


Adjuster List

Adjuster ID	Type of machines(s)	Quantity
a	Turning	5
B	Turning, Lathe	5
C	CNF, Turning	6
d	Lathe	2

2. No adjuster present

Output



11.Select Machine

Test case:

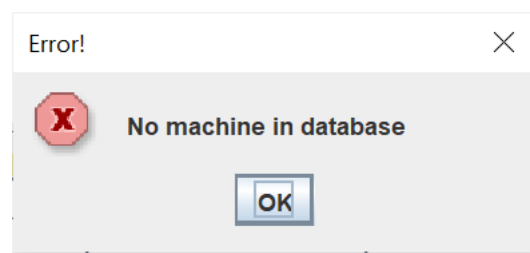
1. Correct output



2. NEW TEST CASE

No machine present


Output



12.Select Adjuster

Test case:

1. Correct output



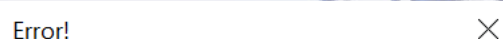
Adjuster Name :


[Select Another Adjuster](#)

2.NEW TEST CASE

No adjuster present

Output



 **No Adjuster in database**

[OK](#)

APPLICATION TESTING

Case1:

Machine Type	MTTF(Days)	Repair Time	Quantity
Lathe	60	4	25
Turning	60	9	15
CNF	40	15	25

Adjuster ID	Type of machines(s)	Quantity
a	Turning	5
B	Turning, Lathe	5
C	CNF, Turning	6

Output

Average Simulation	
Field	Percentage Utilisation
Average Machine Utilisation	77.117004
Average Adjuster Utilisation	50.684937

Individual Machine Utilisation	
Machine	Percentage Utilization
Lathe	77.67672
Turning	83.39727
CNF	72.78903

Individual Adjuster Utilisation	
Adjuster	Percentage Utilization
a	24.657532
B	83.56164
C	44.97717

Case2:

Machine List			
Machine Type	MTTF(Days)	Repair Time	Quantity
Lathe	60	4	25
Turning	60	9	15

Adjuster List		
Adjuster ID	Type of machines(s)	Quantity
a	Turning	5
B	Turning, Lathe	5
C	CNF, Turning	6

Output

Average Simulation	
Field	Percentage Utilisation
Average Machine Utilisation	90.194084
Average Adjuster Utilisation	20.742008

Individual Machine Utilisation	
Machine	Percentage Utilization
Lathe	89.362564
Turning	91.57991

Individual Adjuster Utilisation	
Adjuster	Percentage Utilization
a	13.972603
B	14.136987
C	31.887367

Case3:

Machine List			
Machine Type	MTTF(Days)	Repair Time	Quantity
Lathe	60	4	25
Turning	60	9	15
CNF	40	15	25

Adjuster List		
Adjuster ID	Type of machines(s)	Quantity
B	Turning, Lathe	5
C	CNF, Turning	6

Output

Average Simulation	
Field	Percentage Utilisation
Average Machine Utilisation	75.70588
Average Adjuster Utilisation	79.119965

Individual Machine Utilisation	
Machine	Percentage Utilization
Lathe	73.27732
Turning	74.95485
CNF	78.58509

Individual Adjuster Utilisation	
Adjuster	Percentage Utilization
B	86.70928
C	72.79554

Conclusion

The program runs without any bugs and gives expected output for various test cases. It successfully passes the testing phase.