UT_IT TEST REPORT

UT Test report

LTT_CASE 1: Admin corner and password authentication

```
cg87-user29@instance-1:~$ make
gcc -c train_main.c
gcc -c train_func.c
gcc -o train train_main.o train_func.o
cg87-user29@instance-1:~$ ./train

NO FILE EXIST
NO FILE EXIST
================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice: 1

Enter password: abcd

Wrong password, please try again!
Enter password: abc

Correct password
```

```
cg87-user29@instance-1: ~                                    —    □    ×

============================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
============================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice: 1

Enter password: abc

Correct password
_____
*************ADMIN CORNER************
_____

        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice:
```

LTT_CASE 2: User maintenance

```
cg87-user29@instance-1: ~                                    —    □    ✕

Enter password: abc

Correct password
_____
************ADMIN CORNER************
_____

        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 1


_____
************USER DATABASE************
_____

        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-
```

LTT_CASE 3: Train maintenance

```
cg87-user29@instance-1: ~                          —    □    ×


************ADMIN CORNER************


        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 2


************TRAIN DATABASE***********


        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-
```

LTT_ CASE 4: Report generation

```
cg87-user29@instance-1: ~                          —    □    ×


************ADMIN CORNER************


        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 3


************ADMIN DATABASE***********


        1.Max_booking report
        2.Minimum balance report
        3.Back
Enter choice-
```

LTT_CASE 5: Exit

```
_____

************ADMIN CORNER************
_____


        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 4


=================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
=================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice: 3
cg87-user29@instance-1:~$
```

IT_Test report

LTT_CASE 1: Train database

```
************TRAIN DATABASE***********

        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-1

Enter train number: 1

Enter train name: 321

Train name should contain only characters
Enter train name: a

Enter source name: d1

Source name should contain only characters
Enter source name: bg

Enter destination name: k&

Destination name should contains only characters
Enter destination name: hy

Enter the distance between source and destination: 50

Distance should be in the range of 10 km to 25 km
Enter the distance between source and destination: 12
```

```
Enter the capacity of the train: 600

Capacity should be in the range of 100 to 500
Enter the capacity of the train: 200

Enter the fare: 4

Fare should be in the range of 5 to 20
Enter the fare: 6

Total seats booked 0
_____
************TRAIN DATABASE***********
_____

        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-1

Enter train number: 2

Enter train name: b

Enter source name: ch

Enter destination name: kk

Enter the distance between source and destination: 20
```

Enter the capacity of the train: 300

Enter the fare: 10

Total seats booked 0
_____
************TRAIN DATABASE***********

_____

        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-1

_____
************TRAIN DATABASE***********

_____

        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-4

TRAIN_NO	TRAIN_NAME	SOURCE	DESTINATION	DISTANCE	CAPACITY	FARE	TOTAL_BOOKINGS
1	a	bg	hy	12.000000km	200.000000	6.000000per_km	0
2	b	ch	kk	20.000000km	300.000000	10.000000per_km	0
3	c	bg	ad	25.000000km	350.000000	12.000000per_km	0
4	d	bg	ad	25.000000km	500.000000	16.000000per_km	0
5	e	cm	kl	23.000000km	400.000000	8.000000per_km	0

```
_____
*************TRAIN DATABASE***********
_____


        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-2

Enter train number for editing: 6

Train number 6 not found
_____
*************TRAIN DATABASE***********
_____


        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-2

Enter train number for editing: 2
Old train name is b
Source name is ch
Destination name is kk
Distance is 20.000000km
Capacity is 300.000000
Fare is 10.000000per_km
```

```
Enter train name: B2

Train name should have only characters
Enter train name: B

Enter source name: kanyakumari

Source name should be less than 10 characters
Enter source name: kk

Enter destination name: chithambaram

Destination name should be less than 10 characters
Enter destination name: ch

Enter the distance between source and destination: 30

Distance in the range of 10 km to 25 km
Enter the distance between source and destination: 12

Enter the capacity of the train: 550

Capacity should be in the range of 100 to 500
Enter the capacity of the train: 450

Enter the fare: 26

Fare should be in the range of 5 to 20
Enter the fare: 15
```

```
************TRAIN DATABASE***********


       1.Add Data
       2.Edit Data
       3.Delete Data
       4.View Data
       5.Exit
Enter choice-4
```

TRAIN_NO	TRAIN_NAME	SOURCE	DESTINATION	DISTANCE	CAPACITY	FARE	TOTAL_BOOKINGS
1	a	bg	hy	12.000000km	200.000000	6.000000per_km	0
2	B	kk	ch	12.000000km	450.000000	15.000000per_km	0
3	c	bg	ad	25.000000km	350.000000	12.000000per_km	0
4	d	bg	ad	25.000000km	500.000000	16.000000per_km	0
5	e	cm	kl	23.000000km	400.000000	8.000000per_km	0

```
************TRAIN DATABASE***********


       1.Add Data
       2.Edit Data
       3.Delete Data
       4.View Data
       5.Exit
Enter choice-3


Enter train number for deleting: 6

Train number 6 not found for deletion

************TRAIN DATABASE***********


       1.Add Data
       2.Edit Data
       3.Delete Data
       4.View Data
       5.Exit
Enter choice-3


Enter train number for deleting: 5
```

```
************TRAIN DATABASE***********
```

```
        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-4
```

TRAIN_NO	TRAIN_NAME	SOURCE	DESTINATION	DISTANCE	CAPACITY	FARE	TOTAL_BOOKINGS
1	a	bg	hy	12.000000km	200.000000	6.000000per_km	0
2	B	kk	ch	12.000000km	450.000000	15.000000per_km	0
3	c	bg	ad	25.000000km	350.000000	12.000000per_km	0
4	d	bg	ad	25.000000km	500.000000	16.000000per_km	0

```
************TRAIN DATABASE***********
```

```
        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-5
```

LTT_CASE 2: User database

```
_____
*************ADMIN CORNER************
_____


        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 1


_____
*************USER DATABASE************
_____


        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-1
```

```
Enter aadhar no:
1234567

INVALID LENGTH
Length should be of 6 digits
Enter aadhar no:
123456

Enter user_name: A_m

Name should have more than 5 characters
Enter user_name: A_mnopq

Name should contain only characters
Enter user_name: Bhuvana

Enter your password: Bhuvana@123

Your password should be in the range of 5 to 10
Enter your password: Bhu@1

Your password should be in the range of 5 to 10
Enter your password: Bhu@12

Password should contain only characters
Enter your password: bhuvana

Enter your phone number: 123456789

Phone number should contain only 10 digits
Enter your phone number: 1234567890
```

```
Enter your gender(Female/Male/Pns): Pns

Your gender is Pns
Enter the amount to deposit: 300

SORRY! we cannot proceed with your registration
Minimum deposit should be 500
Enter the amount to deposit: 500

REGISTRATION SUCCESSFUL

_____
*************USER DATABASE*************

_____


        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-1
```

```
_____
*************USER DATABASE*************

_____

        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-4
```

AADHAR_NO	USER_NAME	PASSWORD	PHONE_NUMBER	GENDER	DEPOSIT
123456	Bhuvana	bhuvana	1234567890	Pns	500
456123	Swarna	swarna	7891230456	Pns	1000
456789	Reshma	reshma	7894561230	Male	600
789012	Charitha	charitha	4561230987	Female	9000

```
*************TRAIN DATABASE*************


        1.Register Data
        2.Edit Data
        3.Make Journey
        4.Max_booking report
        5.Back
Enter choice-2

Enter your aadhar number for editing: 450612

Aadhar number 450612 not found

*************TRAIN DATABASE*************


        1.Register Data
        2.Edit Data
        3.Make Journey
        4.Max_booking report
        5.Back
Enter choice-2

Enter your aadhar number for editing: 456123

Old user name is Swarna
Password is swarna
Phone number  is 7891230456
Gender  is Pns
Deposit money is 1000
Enter user name: Swarna

Enter your password: 123

Your password should be in the range of 5 to 10
Enter your password: swarna
```

```
Enter your phone number: 45678

Phone number should contain only 10 digits
Enter your phone number: 7894521360

Enter your gender(Female/Male/Pns): F

Invalid Gender
Enter your gender(Female/Male/Pns): Female

Your gender is Female
Enter the amount to deposit: 200

SORRY! we cannot proceed with your edit
Minimum deposit should be 500
Enter the amount to deposit: 1000
```

```
_____
*************USER DATABASE************
_____

        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-4

AADHAR_NO      USER_NAME      PASSWORD      PHONE_NUMBER      GENDER      DEPOSIT

 123456        Bhuvana        bhuvana        1234567890        Pns        500

 456123        Swarna         swarna         7894521360        Female      1000

 456789        Reshma         reshma         7894561230        Male        600
```

```
************USER DATABASE************
_____

          1.Register Data
          2.Edit Data
          3.Delete Data
          4.View Data
          5.Exit
Enter choice-3

Enter your aadhar number for deletion: 456231

Aadhar number 456231 not found for deletion
_____
************USER DATABASE************
_____

          1.Register Data
          2.Edit Data
          3.Delete Data
          4.View Data
          5.Exit
Enter choice-3

Enter your aadhar number for deletion: 456789
```

```
************USER DATABASE************
_____

        1.Register Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-4

AADHAR_NO        USER_NAME        PASSWORD        PHONE_NUMBER        GENDER        DEPOSIT

  123456          Bhuvana          bhuvana          1234567890          Pns            500

  456123          Swarna           swarna           7894521360         Female          1000
```

LTT_CASE 3: User corner

```
************TRAIN DATABASE***********

        1.Add Data
        2.Edit Data
        3.Delete Data
        4.View Data
        5.Exit
Enter choice-5


************ADMIN CORNER***********

        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 4


=====================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
=====================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice: 2
```

LTT_CASE 4: Make journey

```
_____
*************TRAIN DATABASE*************
_____

        1.Register Data
        2.Edit Data
        3.Make Journey
        4.Max_booking report
        5.Back
Enter choice-3

Enter your aadhar number: 123456

Enter your password: bhuvana

Your login is successful!!! Continue booking
Enter source name: bg

Enter destination name: ad

TRAIN_NO      TRAIN_NAME      SOURCE     DESTINATION     DISTANCE     CAPACITY          FARE

   3             c             bg           ad        25.000000km   350.000000      12.000000per_km

   4             d             bg           ad        25.000000km   500.000000      16.000000per_km

Select train number: 3

Your train number is 3
Your train name is c
```

LTT_CASE 5: Print ticket

```
Choose your ticket
        1.Daily ticket
        2.Monthly ticket
        3.Exit
Enter your choice: 1

Welcome to Daily ticket booking
Your ticket rate details are here

Train fare is 12.000000per_km
Your fare per km for this train is 300.000000

Now your balance is 200
        1.Print Ticket
        2.Exit
Enter your choice: 1

***HAPPY JOURNEY***

YOUR TRAIN TICKET IS HERE
Aadhar number 123456
User name Bhuvna

Train number 3
Train name c
Source bg
Destination ad
Distance 25.000000km
```

```
*************TRAIN DATABASE*************
_____


        1.Register Data
        2.Edit Data
        3.Make Journey
        4.Max_booking report
        5.Back
Enter choice-3

Enter your aadhar number: 123456

Enter your password: bhuvana

Your login is successful!!! Continue booking
Enter source name: bg

Enter destination name: ad
```

```
TRAIN_NO    TRAIN_NAME    SOURCE    DESTINATION    DISTANCE    CAPACITY    FARE

   3            c           bg          ad        25.000000km  350.000000  12.000000per_km

   4            d           bg          ad        25.000000km  500.000000  16.000000per_km
Select train number: 3

Your train number is 3
Your train name is c
Choose your ticket
        1.Daily ticket
        2.Monthly ticket
        3.Exit
Enter your choice: 1

Welcome to Daily ticket booking
Your ticket rate details are here

Train fare is 12.000000per_km
Your fare per km for this train is 300.000000

Now your balance is 50
Your deposit is less than 100rupees
        1.Re-deposit
        2.Exit
Enter your choice: 1

Enter your re-deposit amount: 200

Now your balance is 250
```

```
*************TRAIN DATABASE************

        1.Register Data
        2.Edit Data
        3.Make Journey
        4.Max_booking report
        5.Back
Enter choice-5


=================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
=================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice: 1

Enter password: abc

Correct password
```

LTT_CASE 6: Report generation

```
*************ADMIN CORNER************

        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 3
```

```
_____
************ADMIN DATABASE***********
_____


        1.Max_booking report
        2.Minimum balance report
        3.Back
Enter choice-1

Train number 3
Train name c
Source name bg
Destination ad
Train with maximum booking 4
```

```
_____
***********ADMIN DATABASE***********
_____

        1.Max_booking report
        2.Minimum balance report
        3.Back
Enter choice-2

AADHAR_NO       USER_NAME       PASSWORD        PHONE_NUMBER        GENDER       DEPOSIT

  123456          Bhuvana         bhuvana         1234567890          Pns           50
```

```
_____
************ADMIN DATABASE***********
_____


        1.Max_booking report
        2.Minimum balance report
        3.Back
Enter choice-3

_____
************ADMIN CORNER***********
_____

        1.Maintain User
        2.Maintain Train
        3.Reports
        4.Back
Enter your choice: 4
```

```
========================================================
*********WELCOME TO LOCAL TRAIN TICKETING*********
========================================================


        1.Admin Corner
        2.User Corner
        3.Exit
Enter your choice:
```