# Internet Graphics (38467)

1 NAP 2

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# PROJECT 1

# Travel

# Developed by

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**Java Travel**

Batch Code : 1NAP2

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End Date : October 18, 2017

Name of The Coordinator : Muhammad Teguh Brillian

Name of Developer : Julius Danes Nugroho

Suci Rahmadhani

Date of Submission : October 20, 2017

NIIT

**CERTIFICATE**

This is to certify that this report, titled **Java Travel**embodies the original work done by **Julius Danes Nugroho, Suci Rahmadhani*,*** in This Project

Coordinator:

Muhammad Teguh Brillian

# ACKNOWLEDGEMENT

Praise and gratitude for the blessings and gratitude we pray to Allah Almighty who has

Best owned his gift in the smoothness of our project which the title is "sale and purchase of clothes products" we can complete this project in a timely manner. However, many obstacles we feel, but can do it well

We have benefited a lot of from the feedback and suggestion given to us by

Muhammad Teguh Brillian

# SYSTEM ANALYSIS

**System summary:**

Java Travel appeared since 2010, is located at Central Jakarta. Java Travel is a transportation facilitate the community in achieving a particular destination or city with fast, convenient and very affordable price. Equipped with very convenient facilities, full air conditioning, as well as trained riders.

Java Travel has many advantages and has many discounts for loyal customers of Java Travel.

**System process:**

Java Travel has the following system program

Isi data pribadi untuk ID Tiket

Id[i]

#pesanan ke 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Itr | Nama | Panggilan | NIK | JK (L/P) | Umur | Alamat | No. Telphone |
| 0 | Aji Nugroho | Aji | 3175345678904350 | L | 19 | Jl. Kedondong No. 21 , Jakarta Pusat | 081345879612 |
| 1 | Shabrina Adrienda | Vina | 3175673824861230 | P | 20 | Jl. Kenari No. 31, Jakarta Selatan | 081276583626 |
| 2 | Syafira Fatima | Fira | 3175648328910460 | P | 25 | Jl. Mawar No. 42, Jakarta Barat | 081227697328 |

#pesanan ke 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Itr | Nama | Panggilan | NIK | JK (L/P) | Umur | Alamat | No. Telphone |
| 1 | Mitriannisa | Mitra | 3175675823528130 | P | 34 | Jl. Melati No. 52, Jakarta Timur | 081237658902 |
| 2 | Yolanda Wahyu | Yola | 3175138923647810 | P | 21 | Jl. Siput No. 32, Jakarta Selatan | 081276438213 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pesanan ke | Kota Asal | Kota Tujuan | Hari | Tanggal Perjalanan |
| 1 | Jakarta | Bandung | Senin | 23-Okt-17 |
| 2 | Jakarta | Bandung | Senin | 23-Okt-17 |
| 3 | Bandung | Yogyakarta | Minggu | 21-Okt-17 |
| 4 | Surabaya | Jakarta | Kamis | 26-Okt-17 |
| 5 | Cirebon | Bandung | Jumat | 22-Des-17 |
| 6 | Surabaya | Jakarta | Minggu | 10-Des-17 |

Jadwal yang tersedia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pesanan ke | Nama | Tujuan | Jarak Tempuh | Harga |
| 1 | Aji Nugroho | Jakarta-Bandung | 150 Km | Rp 150.000 |
| 2 | Mitriannisa | Jakarta-Bandung | 150 Km | Rp 150.000 |
| 3 | Edward Partogi | Bandung-Jogjakarta | 450 Km | Rp 450.000 |
| 4 | Fairuzi Teguh | Surabaya-Jakarta | 760 Km | Rp 760.000 |
| 5 | Yones Guntoro | Cirebon-Bandung | 215 Km | Rp 215.000 |
| 6 | Soejadmio Pandu | Surabaya-Jakarta | 760 Km | Rp 760.000 |

Dis[]

#pesanan ke 1 #pesanan ke 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Itr | No | Jadwal | Harga | Sisa Kursi  *\*(Trmsk Pesanan Anda)* |
| 0 | 1 | 04.00 | Rp 135.000 | 17 |
| 1 | 2 | 06.00 | Rp 135.000 | 17 |
| 2 | 3 | 08.00 | Rp135.000 | 17 |
| 3 | 4 | 10.00 | Rp 121.500 | 17 |
| 4 | 5 | 12.00 | Rp 121.500 | 17 |
| 5 | 6 | 14.00 | Rp 121.500 | 17 |
| 6 | 7 | 16.00 | Rp 135.000 | 17 |
| 7 | 8 | 18.00 | Rp 135.000 | 17 |
| 8 | 9 | 20.00 | Rp 135.000 | 17 |
| 9 | 10 | 22.00 | Rp 135.000 | 17 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Itr | No | Jadwal | Harga | Sisa Kursi  *\*(Trmsk Pesanan Anda)* |
| 0 | 1 | 04.00 | Rp 135.000 | 18 |
| 1 | 2 | 06.00 | Rp 135.000 | 15 |
| 2 | 3 | 08.00 | Rp135.000 | 18 |
| 3 | 4 | 10.00 | Rp 121.500 | 18 |
| 4 | 5 | 12.00 | Rp 121.500 | 18 |
| 5 | 6 | 14.00 | Rp 121.500 | 18 |
| 6 | 7 | 16.00 | Rp 135.000 | 18 |
| 7 | 8 | 18.00 | Rp 135.000 | 18 |
| 8 | 9 | 20.00 | Rp 135.000 | 18 |
| 9 | 10 | 22.00 | Rp 135.000 | 18 |

Note:

* *Cek pilihan kota asal dan kota tujuan*
* *Tidak dapat meesan dengan tanggal yang sudah berlalu*
* *Tidak dapat memasukkan NIK atau nomor identitas yang telah terpakai*

# FLOWCHART

**System process:**

This flowchart represent the result of Java Travel for booking travel.



# FLOWCHART

**System process:**

This flowchart represent the result of Java travel for check availability & schedule booking travel.



# FLOWCHART

**System process:**

This flowchart represent the result of Java Travel for check home town & destination travel.



**FLOWCHART**

**System process:**

This flowchart represent the result of Java travel for choice in main menu.



# FLOWCHART

**System process:**

This flowchart represent the result of Java Travel for detail order travel.



# FLOWCHART

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**System process:**

This flowchart represent the result of Java Travel for check the distance travel







# FLOWCHART

**System process:**

This flowchart represent the result of Java travel for check schedule travel.



# FLOWCHART

**System process:**

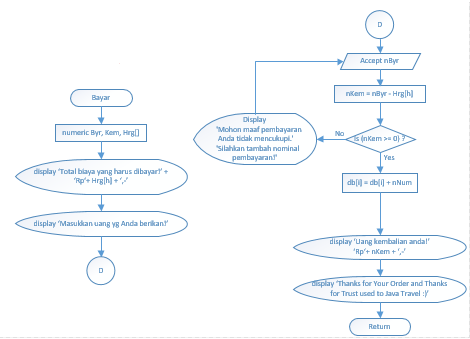
This flowchart represent the result of Java Travel for check price travel.



# FLOWCHART

**System process:**

This flowchart represent the result of Java Travel for display total price the payment booking travel.



# PSEUDOCODE

<-- Pseudocode Java Travel -->

begin

begin

numeric Menu, Num, p, i, h, Hrg, HrgDD,

db[], Dis[], Jad[], Hrg [], Sk[], Id[]

call procedure Main\_Menu

call procedure Asal

call procedure Tujuan

if(cAsal == cTujuan)

begin

display 'Tdk bisa memilih tempat Asal & Tujuan yg Sama!'

call procedure Asal

end

accept dTgl, cDay

if (dTgl<today()) //function get data type date & day system

begin

display 'Tdk bisa memesan tgl yg sdh berlalu!'

return accept dTgl, cDay

end

else

# PSEUDOCODE

begin

accept nNum

call procedure Cek

display 'Pilih no jadwal yg tersedia!'

accept nPil

nNumP=0, p=0

for(nNumP=0; nNumP<count(nNum); nNumP=nNumP+1)

begin

display 'Nama :' accept cNam

display 'panggilan :' accept cPgl

display 'NIK :' accept nNIK

display 'Jenis Kelamin :' accept cJK

display 'Umur :' accept nUm

display 'Alamat :' accept cAlmt

display 'No. Telepon :' accept nTelp

if (nNIK>=0 || nUm>=0 || nTelp>=0)

begin

display 'Tdk blh negatif!'

return

end

Id[p] = {cNam, cPgl, nNIK, cJK, nUm, cAlmt, nTelp}

if (i>0)

begin

if (Id[i][2] == Id[i-1][2])

# PSEUDOCODE

begin

display 'Tdk blh memasukkan NIK yg sama!'

return accept nNIK

end

end

p = p + 1

nNumP = nNumP + 1

end

call procedure Detail

call procedure Bayar

end

end

//Procedure

procedure Main\_Menu

begin

numeric Menu

Display 'Welcome to Java Travel' +

'Main Menu' +

'1] Pesan Tiket

2] Reset Database

3] Exit'

# PSEUDOCODE

accept nMenu

switch(nMenu)

begin

case 1:

return

break

case 2:

db[10] = {0, 0, 0, 0, 0, 0, 0, 0, 0, 0}

call procedure Main\_Menu

break

case 3:

stop() //Terminate / close system

break

default:

display 'Mohon pilih no menu yang ada!'

call procedure Main\_Menu

end

end

return

# PSEUDOCODE

procedure Asal

begin

Display '

Pilih kota asal Anda!

1. Jakarta

2. Bandung

3. Cirebon

4. Yogyakarta

5. Surabaya

'

accept cAsal

if (cAsal != 'Jakarta ' or 'Bandung ' or 'Cirebon' or

'Yogyakarta' or 'Surabaya')

begin

return

end

else

begin

display 'Kota asal Anda tidak ada di daftar

pilihan!'

return accept cAsal

end

end

return

# PSEUDOCODE

procedure Tujuan

begin

Display '

Pilih kota tujuan Anda!

1. Jakarta

2. Bandung

3. Cirebon

4. Yogyakarta

5. Surabaya

'

accept cTujuan

if (cTujuan != 'Jakarta ' or 'Bandung ' or 'Cirebon' or

'Yogyakarta' or 'Surabaya')

begin

return

end

else

begin

display 'Kota tujuan Anda tidak ada di daftar

pilihan!'

return accept cTujuan

end

end

return

# PSEUDOCODE

procedure Cek

begin

numeric Counter, i, h, Jrk

Dis[], Jad[], Hrg[], Sk[]

call procedure CekJrk

call procedure CekJadwal

call procedure CekHrg

call procedure CekKursi

i = 0

while (i<10)

begin

if (Jad[i][0]>=10 && Jad[i][0]<=14)

begin

h = 1

end

else

begin

h = 0

end

if (Sk[i]<0)

begin

Dis[i] = {'Mohon maaf sisa kursi habis'}

End

# PSEUDOCODE

else

begin

Dis[i] = {' Jadwal : ' + Jad[i] +

' Harga : ' + Hrg[h} +

' Sisa Kursi : ' + Sk[i]}

end

display (i+1) + Dis[i]

i = i + 1

end

end

return

procedure Detail

begin

i = nPil - 1

Display ' Detail Pemesanan Anda' +

' Travel pejalanan dari ' + cAsal + ' ke ' + cTujuan +

' Keberangkatan pada ' + cDay + ', ' + dTgl +

' Info perjalanan ' +

Dis[i]

for (p=0; p<count(nNum); p=p+1)

begin

Display ' Data Penumpang ' +

# PSEUDOCODE

' Nama : ' + Id[p][0] +

' Panggilan : ' + Id[p][1] +

' NIK : ' + Id[p][2] +

' Jenis Kelamin : ' + Id[p][3] +

' Umur : ' + Id[p][4] +

' Alamat : ' + Id[p][5] +

' No Telp : ' + Id[p][6]

end

end

return

procedure Bayar

begin

numeric Byr, Kem, Hrg[]

display 'Total biaya yang harus dibayar!' +

'Rp'+ Hrg[h] + ',-'

display 'Masukkan uang yg Anda berikan!'

accept nByr

nKem = nByr - Hrg[h]

if (nKem>=0)

begin

db[i] = db[i] + nNum

display 'Uang kembalian Anda!' +

'Rp'+ nKem + ',-'

display 'Thanks for Your Order and Thanks for Trust

used to Java Travel :)'

# PSEUDOCODE

end

else

begin

display 'Mohon maaf pembayaran Anda tidak

mencukupi.'

'Silahkan tambah nominal pembayaran!'

return accept nByr

end

end

return

//Sub Procedure

procedure CekJrk

begin

Tem[20] = {

Tem[2] = {'Jakarta -Bandung ', 150},

Tem[2] = {'Jakarta -Cirebon', 220},

Tem[2] = {'Jakarta -Yogyakarta', 525},

Tem[2] = {'Jakarta -Surabaya', 760},

Tem[2] = {'Bandung -Jakarta ', 150},

Tem[2] = {'Bandung -Cirebon', 215},

Tem[2] = {'Bandung -Yogyakarta', 450},

Tem[2] = {'Bandung -Surabaya', 685},

Tem[2] = {'Cirebon-Jakarta ', 220},

Tem[2] = {'Cirebon-Bandung ', 215},

# PSEUDOCODE

Tem[2] = {'Cirebon-Yogyakarta', 315},

Tem[2] = {'Cirebon-Surabaya', 550},

Tem[2] = {'Yogyakarta-Jakarta ', 525},

Tem[2] = {'Yogyakarta-Bandung ', 450},

Tem[2] = {'Yogyakarta-Cirebon', 315},

Tem[2] = {'Yogyakarta-Surabaya', 330},

Tem[2] = {'Surabaya-Jakarta ', 760},

Tem[2] = {'Surabaya-Bandung ', 685},

Tem[2] = {'Surabaya-Cirebon', 550},

Tem[2] = {'Surabaya-Yogyakarta', 330}

}

switch (cAsal + '-' + cTujuan)

begin

case 'Jakarta-Bandung ':

nJrk = Tem[0][1]

break

case 'Jakarta-Cirebon':

nJrk = Tem[1][1]

break

case 'Jakarta-Yogyakarta':

nJrk = Tem[2][1]

break

case 'Jakarta-Surabaya':

nJrk = Tem[3][1]

# PSEUDOCODE

break

case 'Bandung-Surabaya':

nJrk = Tem[4][1]

break

case 'Bandung-Cirebon':

nJrk = Tem[5][1]

break

case 'Bandung-Yogyakarta':

nJrk = Tem[6][1]

break

case 'Bandung-Surabaya':

nJrk = Tem[7][1]

break

case 'Cirebon-Jakarta ':

nJrk = Tem[8][1]

break

case 'Cirebon-Bandung ':

nJrk = Tem[9][1]

break

case 'Cirebon-Yogyakarta':

nJrk = Tem[10][1]

break

case 'Cirebon-Surabaya':

nJrk = Tem[11][1]

break

# PSEUDOCODE

case 'Yogyakarta-Jakarta ':

nJrk = Tem[12][1]

break

case 'Yogyakarta-Bandung ':

nJrk = Tem[13][1]

break;

case 'Yogyakarta-Cirebon':

nJrk = Tem[14][1]

break

case 'Yogyakarta-Surabaya':

nJrk = Tem[15][1]

break

case 'Surabaya-Jakarta ':

nJrk = Tem[16][1]

break

case 'Surabaya-Bandung ':

nJrk = Tem[17][1]

break

case 'Surabaya-Cirebon':

nJrk = Tem[18][1]

break

case 'Surabaya-Yogyakarta':

nJrk = Tem[19][1]

break

end

# PSEUDOCODE

return

end

return

procedure CekJadwal

begin

nCounter = 4

for (i=0; i<10; i=i+1)

begin

if (nCounter>=0 && nCounter<=9)

begin

Jad[i] = {

Jad[1] = {nCounter, '0' + nCounter + '.00'}

}

end

else

begin

Jad[i] = {

Jad[1] = {nCounter, nCounter + '.00'}

}

end

nCounter = nCounter + 2

end

return

end

# PSEUDOCODE

return

procedure CekHrg

begin

nHrg = 1000, Hrg[]

nHrg = nHrg\*nJrk

if (cDay == 'Sabtu' || 'Minggu')

begin

//calculate discount 10%

nHrg = 0.9\*nHrg

end

//calculate discount 10%

nHrgDD = 0.9\*nHrg

Hrg[1] = {nHrg, nHrgDD}

return

end

return

procedure CekKursi

begin

b=0

for (i=0; i<10; i=i+1)

begin

Sk[i] = (20 - db[i]) - nNum

End

# PDEUDOCODE

return

end

return

end

# DRY RUN TABLE

1. ID customer  
   Id[]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Itr | Nama | Panggilan | NIK | JK (L/P) | Umur | Alamat | No. Telphone |
| 0 | Aji Nugroho | Aji | 3175345678904350 | L | 19 | Jl. Kedondong No. 21 , Jakarta Pusat | 081345879612 |
| 1 | Shabrina Adrienda | Vina | 3175673824861230 | P | 20 | Jl. Kenari No. 31, Jakarta Selatan | 081276583626 |
| 2 | Syafira Fatima | Fira | 3175648328910460 | P | 25 | Jl. Mawar No. 42, Jakarta Barat | 081227697328 |

1. Jadwal Pemesanan  
   Jad[]
2. CekSisaKursi

Sk[]

|  |  |  |  |
| --- | --- | --- | --- |
| Itr | i | nCounter | ‘0’ +  nCounter + ‘.00' |
| 0 | 1 | 4 | 04.00 |
| 1 | 2 | 6 | 06.00 |
| 2 | 3 | 8 | 08.00 |
| 3 | 4 | 10 | 10.00 |
| 4 | 5 | 12 | 12.00 |
| 5 | 6 | 14 | 14.00 |
| 6 | 7 | 16 | 16.00 |
| 7 | 8 | 18 | 18.00 |
| 8 | 9 | 20 | 20.00 |
| 9 | 10 | 22 | 22.00 |

|  |  |  |
| --- | --- | --- |
| Itr | i | Sk[i] |
| 0 | 1 | *(20 – 0) – 3 =* 17 |
| 1 | 2 | *(20 – 0) – 3 =* 17 |
| 2 | 3 | *(20 – 0) – 3 =* 17 |
| 3 | 4 | *(20 – 0) – 3 =* 17 |
| 4 | 5 | *(20 – 0) – 3 =* 17 |
| 5 | 6 | *(20 – 0) – 3 =* 17 |
| 6 | 7 | *(20 – 0) – 3 =* 17 |
| 7 | 8 | *(20 – 0) – 3 =* 17 |
| 8 | 9 | *(20 – 0) – 3 =* 17 |
| 9 | 10 | *(20 – 0) – 3 =* 17 |

# DRY RUN TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| Misal | Jadwal Pemesanan | Harga Hrg[h] | Sisa Kursi Sk[i] |
| Beberapa Pememsanan | 04.00 Weekday | Rp 150.000 | 19 |
| 06.00 Weekday | Rp 150.000 | 18 |
| 08.00 Weekday | Rp 150.000 | 17 |
| 10.00 Weekday | Rp 121.500 | 16 |
| 12.00 Weekend | Rp 135.000 | 15 |
| 14.00 Weekend | Rp 135.000 | 14 |
| 16.00 Weekend | Rp 150.000 | 13 |
| 18.00 Weekend | Rp 150.000 | 12 |
| 20.00 Weekend | Rp 150.000 | 11 |
| 22.00 Weekend | Rp 150.000 | 10 |

1. Jadwal Keberangkatan  
   Jad[]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Itr | nCounter | i | Jad[i][0] | Jad[i][1] |
| 0 | 4 | 0 | 4 | 04.00 |
| 1 | 6 | 1 | 6 | 06.00 |
| 2 | 8 | 2 | 8 | 08.00 |
| 3 | 10 | 3 | 10 | 10.00 |
| 4 | 12 | 4 | 12 | 12.00 |
| 5 | 14 | 5 | 14 | 14.00 |
| 6 | 16 | 6 | 16 | 16.00 |
| 7 | 18 | 7 | 18 | 18.00 |
| 8 | 20 | 8 | 20 | 20.00 |
| 9 | 22 | 9 | 22 | 22.00 |