

# Continuing Education Program

Centre for Computing and Information Technology

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### TRAVELNOW TESTING

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Class

3SC3

#### **Faculty:**

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# CEP CCIT FAKULTAS TEKNIK UNIVERSITAS INDONESIA

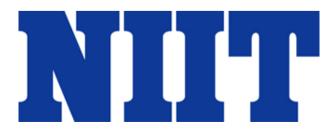
2020

### **PROJECT ON**

TravelNow Testing

### Developed by:

- 1. Christian Frans Mukuan (1920010040)
- 2. Deyaninta Ekabriela Permata (1920010050)



# **TravelNow Testing**

Batch Code : 3SC3 (Group 4)

Start Date : October, 2020

End Date : November 18, 2020

Date of Submission : November 19, 2020

Name of Faculty : Riza Muhammad Nurman S.Kom

Names of Developer:

1. Christian Frans Mukuan (1920010040)

2. Deyaninta Ekabriela Permata (1920010150)

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#### **CERTIFICATE**

OBKIII IOIII D								
This is to certify that this report titled "TravelNow Testing" embodies the original								
work done by Christian Frans Mukuan, and Deyaninta Ekabriela Permata in partial								
fulfillment of their course requirement at NIIT.								
Turniment of their course requirement at 14111.								
Coordinator :								
Riza Muhammad Nurman S.Kom								

### **ACKNOWLEDGEMENT**

First of all, thanks to Allah SWT because we can complete this Project task both in the form of a presentation. We want to deliver sincere especially for Mr. Riza Muhamad Nurman's faculty and another faculty who always help. Thank you also to fellow students who have supported, and also thank you for being fellow workers in the education at CCIT-FTUI.

The Project paper entitled 'TravelNow Testing' the writers submits as Project's 2020 task requirements.

The hope of the writers hopefully this paper can be useful for all so that it can add knowledge and insight. The writers realize that this paper is far from perfect. Therefore, the writers expect all suggestions and criticisms from readers who are constructive for the perfection of this paper.

Depok, November 2020

Writers

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# **SYSTEM ANALYSIS**

TravelNow is an Indonesian startup company that provides flight ticket booking
services, hotel tickets, tour tickets, transportation services that are complemented by tour
guide services to accompany customers on international holidays to several Asian countries.
Based on operations in Jakarta, TravelNow is focused on helping to manage the needs of
Indonesian public holidays or business trips.

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# **CONFIGURATION**

. Hardware	:
ASUS A442U	JR Intel® Core™ i5-8250U
<b>Operating System</b>	:
Windows 10	Home Single Language 64-bit (10.0, Build 18362)
Software	:
Netbeans IDE	E 8.2

# TYPE OF TESTING TOOLS

• JUnit JUnit is a unit testing framework for java. Used and writed by developer for testing a specific area of a functionality of the code to be tested.
• JaCoCo JaCoCo is a free code coverage library for Java, which has been created by the EclEmma team based on the lessons learned from using and integration existing libraries
for many years.
• Black Box Testing Black Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is not known to the tester

#### TravelNow Testing 1

```
import java.sql.Connection;
import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import static org.junit.Assert.*;
import travelnow.Connection.DBConnection;
import travelnow.Controller.MultiUserController;
import travelnow.Model.MainModel;
/**

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```

```
MainModel model = new MainModel();
MultiUserController controller = new MultiUserController();
DBConnection dbcon = new DBConnection();
Connection con;

public TravelNowTestingl() {
}

@BeforeClass
public static void setUpClass() {
}

@AfterClass
public static void tearDownClass() {
}

@Before
public void setUp() {
    System.out.println("Open Connection Testing 1");
    dbcon = new DBConnection();
    con = dbcon.open();
```

#### TravelNow Testing 2

```
import java.sql.Connection;
import java.sql.SOLException;
import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import static org.junit.Assert.*;
import travelnow.Connection.DBConnection;
import travelnow.Controller.MultiUserController;
import travelnow.Model.MainModel;

/**
    * @author user
    */
public class TravelNowTesting2 {
    //NoTE : REGISTER AND LOGIN AUTHENTICATION TEST
    MainModel model = new MainModel();
```

```
MultiUserController controller = new MultiUserController();
    DBConnection dbcon = new DBConnection();
    Connection con;

public TravelNowTesting2() {
    }

    @BeforeClass
    public static void setUpClass() {
    }

    @AfterClass
    public static void tearDownClass() {
    }

    @Before
    public void setUp() {
        System.out.println("Open Connection Testing 2");
        dbcon = new DBConnection();
        con = dbcon.open();
    }
}
```

```
System.out.println("Can't input data to the Databases");
e.getMessage();
@Test
public void AdminLoginAuthentication() throws SQLException {
   MultiUserController controller = new MultiUserController();
      try {
    assertEquals(expected, authentication);
      } catch (Exception e) {
   blic void UserLoginAuthentication() throws SQLException {
   MultiUserController controller = new MultiUserController();
     model.setUsername("faizanugerah");
model.setPassword("sukamaindoraemon");
```

#### TravelNow Testing 3

```
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.ResultSet;
import java.tsql.SQLException;
import java.text.ParseException;
import java.time.LocalDateTime;
import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.Before;
import org.junit.Test;
import static org.junit.Assert.*;
import travelnow.Connection.DBConnection;
import travelnow.Controller.MultiUserController;
import travelnow.Controller.UserController;
import travelnow.Controller.Setcontroller;
import travelnow.Helper.Helper;
import travelnow.Helper.Helper;
import travelnow.Model.MainModel;
```

```
* & Bauthor user

*/
public class TravelNowTesting3 {

//NOTE : UPDATE, SOFT DELETE, AND SEARCH IN ADMIN PAGE TEST
MainModel model = new MainModel();
MultiUserController controller = new MultiUserController();
AdminController adminController = new AdminController();
DBConnection dbcon = new DBConnection();
Connection con;
String id;
Helper helper = new Helper();
ResultSet rs;

public TravelNowTesting3() {
}

@Beforeclass
public static void setUpclass() {
```

```
### Reference of the controller of the cont
```

```
model.setHotel_description("2 Star Hotel");
model.setHotel_price("500000");

Boolean update = controller.update_hotel(id, model);
Boolean expected = Boolean.TRUE;

try {
    assertEquals(expected, update);
} catch (Exception e) {
    System.out.println("You can't update the Hotels table");
    System.out.println(e);
}
}

@Test
public void updateAirlines() throws ParseException {
    AdminController controller = new AdminController();
    id = "1";
    model.setAirline_description("Russia, Turkey, Iran");
    model.setAirline_price("25000000");
```

```
try {
    assertEquals(expected, update);
} catch (Exception e) {
    System.our.println("You can't update the Packets table");
    System.our.println(e);
}
}

Breat
public void deletePackets() throws ParseException {
    AdminController controlled = new AdminController();
    LocalDateTime deleted_at = now();
    id = "3";
    Boolean delete = controller.deletePackets(deleted_at, id);
    Boolean expected = Boolean.TRUE;

try {
    assertEquals(expected, delete);
} catch (Exception e) {
```

```
### STest

| public void deleteAirlines() throws ParseException (
| AdminController controller = new AdminController();
| LocalDateTime deleted_at = now();
| id = "3";
| Boolean delete = controller.deleteAirlines(deleted_at, id);
| Boolean expected = Boolean.TRUE;
| try (
| assertEquals(expected, delete);
| ) catch (Exception e) (
| System.out.println("You can't delete the data in the Airlines table");
| Bystem.out.println("You can't delete the data in the Airlines table");
| }
| }
| $Test
| public woid cancelBookings() throws ParseException (
| UserController Bootsoller = new UserController();
```

```
import org.junit.After;
import org.junit.After(lass;
import org.junit.Before;
import org.junit.Before(lass;
import org.junit.runner.Runwith;
import org.junit.runners.Suite;

/**

* @author user

*/
@Runwith(Suite.class)
@Suite.SuiteClasses({TravelNowTesting1.class,TravelNowTesting2.class,TravelNowTesting3.class})
public class TravelNowTestingSuite (
```

```
public TravelNowTestingSuite() {
}

@BeforeClass
public static void setUpClass() {
}

@AfterClass
public static void tearDownClass() {
}

@Before
public void setUp() {
}

@After
public void tearDown() {
}
```

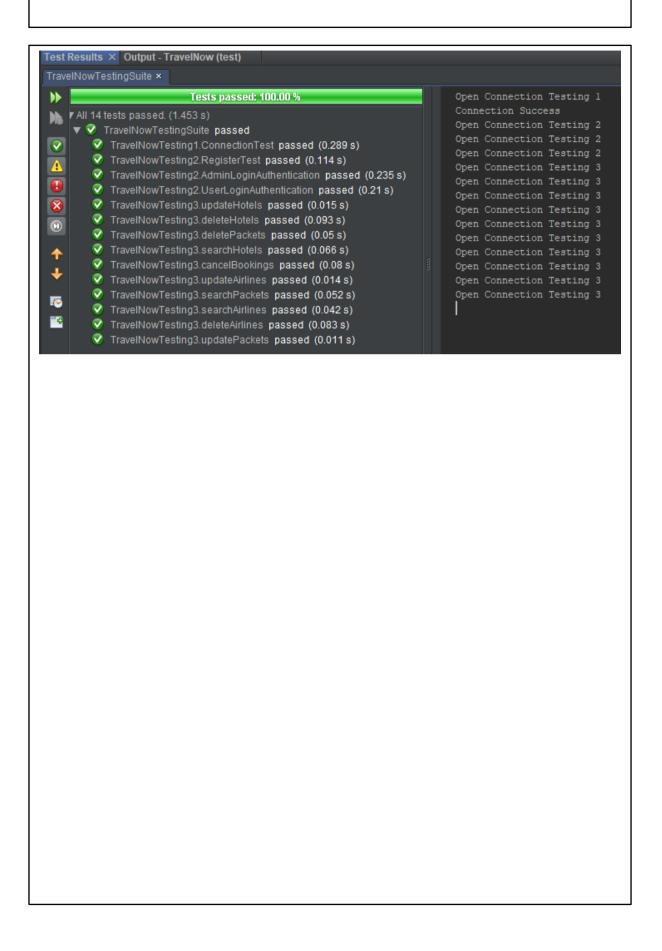
No.	Test Case	Test Data	Expected Result	Actual Result	Result		
1.	Verification Login for Users	Using valid id and password	Go to the users page	Go to the users page and show "Login Success"	PASS		
2.	Verification Login for Users	Using invalid id and password	Go to the login page	Go to the login page and show "Login Failed"	PASS		
3.	Verification Login for Admin	Go to the admin panel page					
4.	Verification Login for Admin	Using invalid id and password	Go to the login page	Go to the login page and show "Login Failed"			
5.	Registration account for users	Fill the users data in the register page	Your data have been submitted	Your data have been submitted and go the login page	PASS		
6.	Submit Button	To make a bookings in the users page	Your bookings success	Your data have been submitted and go the passengers details page	PASS		
7.	Submit button	To fill the data passengers details	Your data have been submitted	Your data have been submitted	PASS		

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No.	Test Case	Test Data	Expected Result	Actual Result	Result	
8.	Delete the user's bookings data	Delete data bookings by clicking the cancel button	The data bookings have been deleted	The data bookings have been deleted	PASS	
9.	Delete the hotel data on the table hotel list	Admin can choose one of the hotel data and click the delete button	The hotel data have been deleted	The hotel data have been deleted	PASS	
10.	Delete the airlines data on the table airlines list	Admin can choose one of the airlines data and click the delete button	The airlines data have been deleted	The airlines data have been deleted	PASS	
11.	Delete the packets data on the table packets list	Admin can choose one of the packets data and click the delete button	The packets data have been deleted	The packets data have been deleted	PASS	
12.	Update the hotel data on the table hotel list	Admin can update the hotel data on the text area and click the update button	The hotels data have been updated	The hotels data have been updated	PASS	
13.	Update the airlines data on the table airlines list	Admin can update the airlines data on the text area and click the update button	The airlines data have been updated	The airlines data have been updated	PASS	

No.	Test Case	Test Data	Expected Result	Actual Result	Result	
14.	Update the packets data on the table airlines list	Admin can update the packets data on the text area and click the update button	The packets data have been updated	The packets data have been updated	PASS	
15.	Create the new hotel data on the table hotel list	Admin can add the new hotel data on the text area	The hotel data have been added	The hotel data have been added	PASS	
16.	Create the new airlines data on the table airlines list	Admin can add the new airlines data on the text area	The airlines data have been added	The airlines data have been added	PASS	
17.	Create the new packets data on the table packets list	Admin can add the new packets data on the text area	The packets data have been deleted	The packets data have been deleted	PASS	
18.	Search By Name button	Admin can search the hotel, airlines, and packets data by the name	The data has appeared	The data has appeared	PASS	
19.	Search by Price Button	Admin can search the hotel, airlines, and packets data by the price	The data has appeared	The data has appeared	PASS	
20.	Log out button	log out the account by clicking the log out button	Show the message "Are you sure?" and click ok butotn	Show the message "Are you sure?" and click ok butotn	PASS	

#### **RESULT**



### RESULT JaCoCo

☐ JaCoCoverage analysis of project "TravelNow" (powered by JaCoCo from EclEmma)

### JaCoCoverage analysis of project "TravelNow" (powered by JaCoCo from EclEmma)

Element	Missed Instructions	Cov. \$	Missed Branches   Cov.	Missed	: Cxty ≑	Missed \$	Lines	Missed 0	Methods	Missed \$	Classes
# travelnow.Frame		84%	22%	109	245	351	1,666	59	191	10	60
travelnow.Controller		78%	57%	26	69	69	303	10	47	0	4
travelnow.Model	1	84%	n/a	6	54	8	80	6	54	0	1
travelnow.Helper		59%	n/a	1	5	3	8	1	5	0	1
travelnow.Connection		76%	n/a	0	2	3	10	0	2	0	1
<u>travelnow</u>		73%	n/a	1	2	1	4	1	2	0	1
travelnow.Query	1	100%	n/a	0	3	0	36	0	3	0	3
travelnow.Logic		100%	n/a	0	2	0	2	0	2	0	1
Total	1,734 of 10,304	83%	102 of 150 32%	143	382	435	2,109	77	306	10	72