

Salarv App

Unit-14



Saw Win Nwe

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Java

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Introduction

As a programmer at Silver Star Company, I'm developing accounting software tailored to Aung Yandanar's requirements. Aung Yandanar, a publishing firm with 500+ employees, needs efficient payroll management. This software will automate salary calculations, track bonuses, and ensure timely payments.

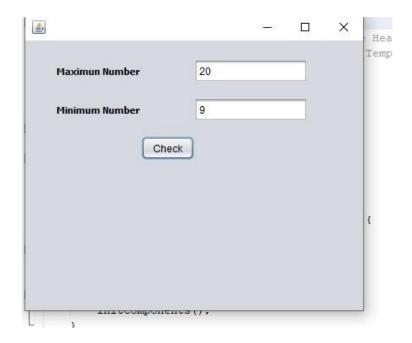
Key payroll features:

- Employee categories and base salaries:
 - 1. Manager 500,000 Kyats
 - 2. Supervisor 300,000 Kyats
 - 3. Office Staff 250,000 Kyats
 - 4. Cleaner 100,000 Kyats
- Bonuses:
 - Attendance: 20,000 Kyats (no leave)
 - Punctuality: 10,000 Kyats (no lateness)
- Travel allowance: 500 Kyats/day
- Work hours: 9:00 am 5:00 pm, closed Sundays and holidays.

The software will streamline payroll calculations, ensuring compliance and accuracy.

Demonstrate the use of event driven tools and techniques

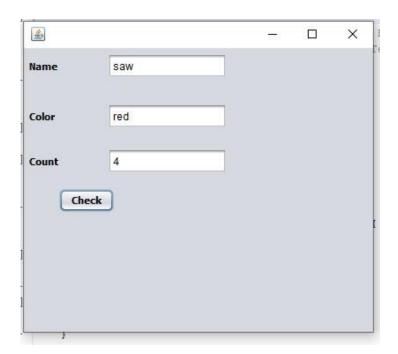
Number 2



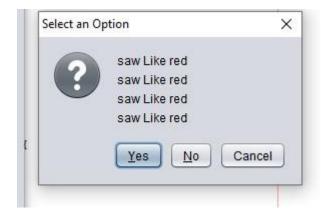
Check BTN



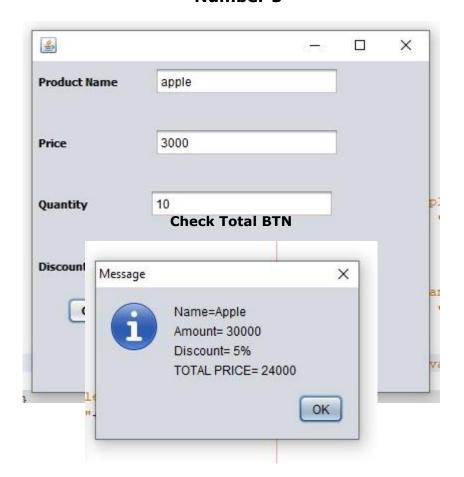
Number 4



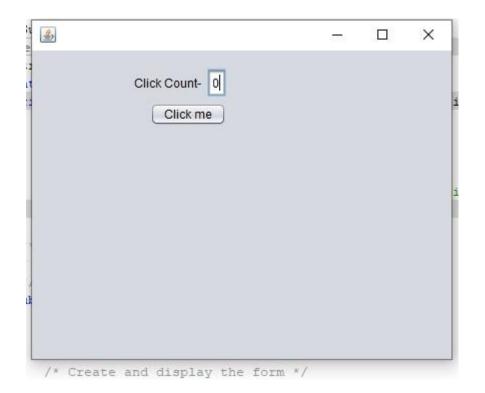
Check BTN



Number 5



Number 8

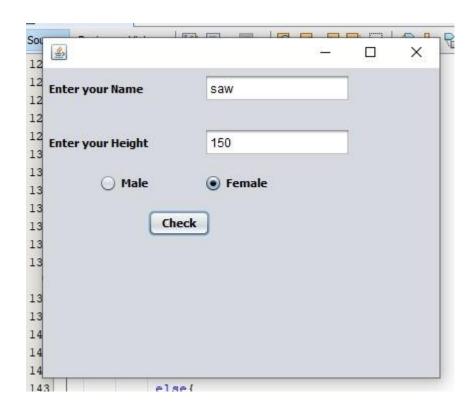


Click me BTN

The number increases every time you press the "Click me" button.



Number 9



Check BTN

For male,

If height is more than 175, he is tall.

If height is between 174 & 150, he is normal.

If height is under 150, he is short.

For female,

If height is more than 160, she is tall.

If height is between 160-130, she is normal.

If height is under 130, she is short.



Java

Saw Win Nwe

Discuss how an operating system can be viewed as an event driven application

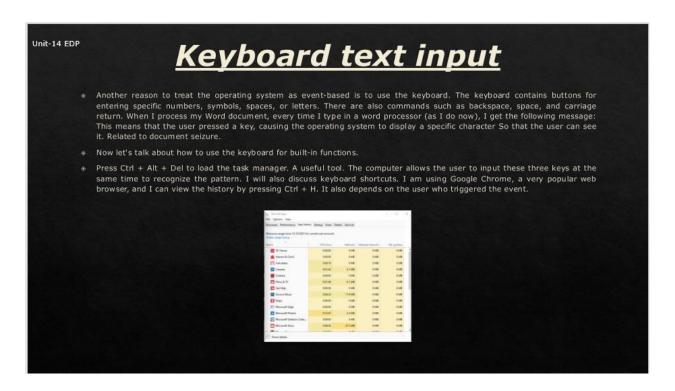




Page 1



Page 2



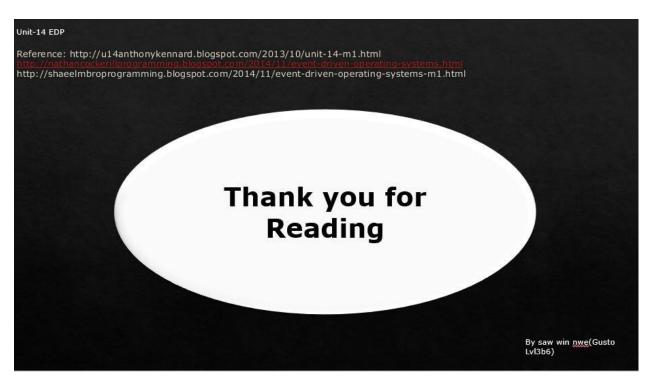
Page 3



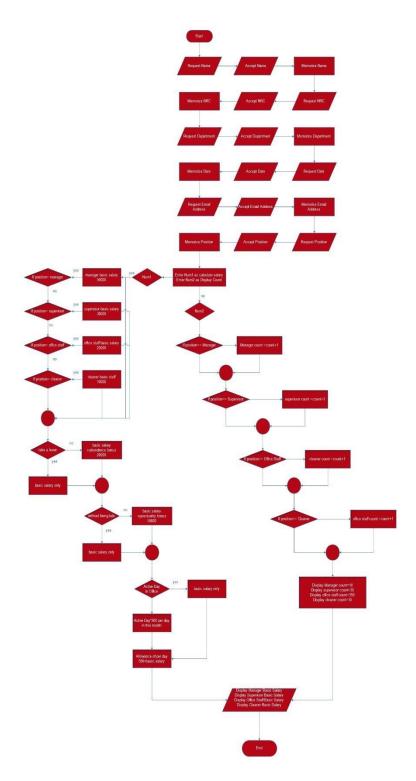
Page 4



Page 5



Design event driven application to meet defined requirement



P4
Implement a working
event driven

application to meet defined requirements

```
Generated Code
  String[] savename = new String[100];
  int index = 0:
private void caculateActionPerformed(java.awt.event.ActionEvent evt) {
       // TODO add your handling code here
      String n = name.getText();
      savename[index] = n;
      index++;
      String jd = joindate.getText();
      String id = nrc.getText();
      String mail = email.getText();
      String d = department.getSelectedItem().toString();
      String p = position.getSelectedItem().toString();
      String answer;
      answer = String.format("%-50s%-50s%-60s%-60s%-60s%-40s\n", "Name", "Join Date", "NRC", "Email", "Department", "Position");
      answer = answer + String.format("%-30s%-50s%-50s%-50s%-40s", n, jd, id, mail, d, p);
      JOptionPane.showMessageDialog(null, answer);
```

For Calculate Salary BTN

```
private void countActionPerformed(java.awt.event.ActionEvent evt) {
            TODO add your handling code here
        String p=position.getSelectedItem().toString();
        if (p.equals("Managar-500000"))
        { mcount++;}
        if (p.equals("Supervisor-300000"))
        { scount++;}
        if (p.equals("Office Staff-250000"))
        { occunt++;}
        else
        { ccount++;}
        String answer;
       answer = String.format("%-20s%-20s%-60s\n", "No", "Work Type", "Count");
        answer = answer + String.format("%-20s%-20s%-10s\n", "1", "Manager", mcount);
answer = answer + String.format("%-20s%-20s%-10s\n", "2", "Supervisor", scount);
        answer = answer + String.format("%-20s%-20s%-10s\n", "3", "Office Staff", occunt);
answer = answer + String.format("%-20s%-20s%-10s\n", "4", "Cleaner", ccount);
        JOptionPane.showMessageDialog(null, answer);
```

For Employee Count BTN

For Bonus Salary BTN

For calculate salary

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Bonus b=new Bonus();
    b.setVisible(true);
```

Calculate salary Form



Calculate salary BTN

```
if(s.isSelected())
(price=300000+1; msg="Hi "+n+"\n"+"Your Poition is Supervisor."+"\n"+"Salary= "+price;)

if(o.isSelected())
(price=250000+1; msg="Hi "+n+"\n"+"Your Poition is Office Staff."+"\n"+"Salary= "+price;)

if(clean.isSelected())
(price=100000+1; msg="Hi "+n+"\n"+"Your Poition is Cleaner."+"\n"+"Salary= "+price;)

if(yes.isSelected())
(amt=price; msg="You take a leave in month so"+"\n"+"You will not have Attendance Bonus"+"\n"+"*Total salary= "+amt;)

if(no.isSelected())
(amt=price+20000; msg="You have full attendance so"+"\n"+"You salary will be= "+amt;)

if(lateYes.isSelected())
(value=amt; msg="You take a leave in month so"+"\n"+"You will not have Attendance Bonus"+"\n"+"Total salary= "+value;)

if(lateNo.isSelected())
(value=amt; msg="You take a leave in month so"+"\n"+"You will not have Attendance Bonus"+"\n"+"\n"+"Total salary= "+value;)

JOptionPane.showMessageDialog(null, msg);
```

<u>M2</u>

Give reasons for the tools and techniques used in the production of an event driven application

This point is related to P4.



New employee registration form

In this form, there are 7 labels tool in total, 4 text field tool, 2 combo boxes and 4 buttons. I used the main title as label tool and edit a text into "new employee registration". I used this tool because I want the user to knows this is title and they can't not fix or write the title while they are using.

The "name" label text is the title for the text field beside it. User can see the title and they will know what to put in the text field what to put by looking at the label but user can only put their name which is string character in event driven programming so they can not put numbers or float or anything else. That is why I used this program easily. For example; saw win new or Sam or Mary.

The "Join Date" label text is the title for the text field beside it which is same as the "Name" label that I explain above. The difference of this label is that user need to put the date they join the company so they can only put numbers in the text field. I made the text field to accept only numbers integers so user can easily type in the numbers not other words like string or float. For example; 12/34/5678.

The "NRC" label text is the title for the text field beside it which is the same as labels from above but I made the program to accept both string character and numbers integer because NRC is same as ID and in our country, ID contains both numbers and alphabets so user can only put string character and number integer but not float or Boolean. For example; 12/RGN(N)1213465.

The "Email" label text is the title for the text field beside which is same as NRC because some email has both letters and numbers so I made the program to accept both string character and number integer but not float or double so user can use the program easily. For example; sawwinnwe123@gmail.com.

The "Department Name" label text is the title for the combo box beside it. It is different from others above. I used a combo box tools because there are only 4 department in this company. There are marketing department, HR department, accounting department and administration department for different position of employee. I used it because this is easier than text field above. User only need to choose which department they will be working. They do not need to write down the department name. The type of letters in the combo box I used as string character. So, the program is easier for user to use. For example;



Department Combo Box tools

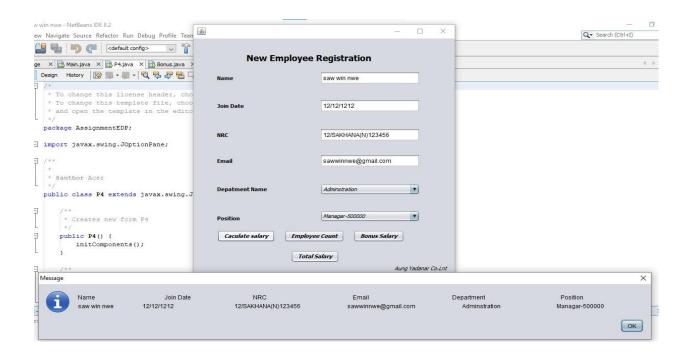
The "Position" label is used for combo box beside it which is same as department combo box. User can choose which position they will be working without typing down. There are four positions, manager, supervisor, office staff and cleaner. I used this as combo box because same reason as department, user can see which position they can work in which department so they can choose their career. I even put the basic salary beside the position. Same as department, I used string character for the combo box for user to use easily. For example;



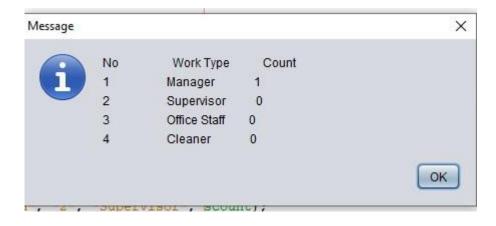
Position

The "Calculate Salary" button is a button which I can write program behind it. Button is not similar to labels or text field or combo box. I used this button

because I want to use program to auto calculate or show the letters and number that user put it in. I program the button to show details about things they wrote and things they chose. For example;



The "employee count" button is same as calculate salary button but the program is not the same. In this button, the program shows every new employee that is register through this program. There are four type of position and the program shows how many employees count in every position in the company. For example:



Employee Count

The "Bonus Salary" button is similar to buttons above but the program only shows all kind of bonus salary that the company give. The program shows, the salary if you don't take a leave or not being late to work every da but there is no calculation in the program. I put only a bonus salary note in the program so user can check how much more salary they will get if they follow the company's rules. For example;



Bonus salary

The "Total salary" button is also same as button above but the program is all about calculation and this button leads to another form. I connects the two forms with coding in the program and if user pressed this button, the program will open another form which I made as bonus salary calculation form. I used this program as a calculator so user can easily calculate how much their salary will be including the bonus salary. So, there are 6 labels and 2 text fields.

The first label is "Name" label which is a title for the text field beside it like labels from above.

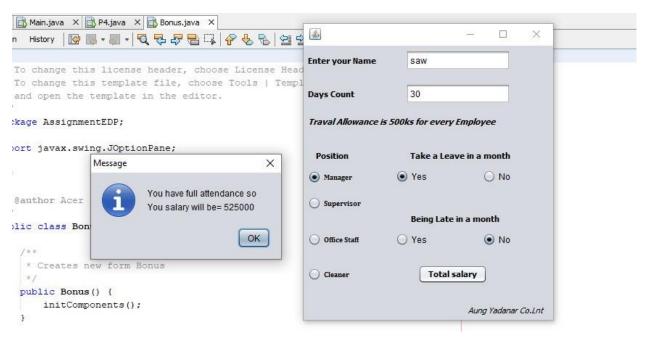
Second label "Day's count" is a title for text field beside it but that text field is important because the program will use the data from text field for calculation. User have to put days they attend work so the program can calculate their attendance bonus salary. Every employee gets 500ks as travel allowance each day so the program will multiply travel allowance with days, they attend which will get from text field beside the "Day's count" label.

Third label "Travel allowance 500ks per day" is just a simple label tool. I used that tool in my program because I want user to know that this program calculation contains travel allowance.

Fourth label "Position" label is the title for radio button from below. There are 4 positions in this company, manager, supervisor, office staff and cleaner. I used the radio button tools because I want user to choose their position so the program can calculate different basic salary including the travel allowance and other attendance bonus. I also put the radio button group so user can choose only one radio button.

The fifth label "Take a leave in month" is the title for the 2-radio button below. There are "yes" and "no" buttons and same as radio buttons from above, I also put radio button so user can choose only one button. If user choose "yes" which mean user take a leave a month so they will not get the attendance bonus in this month which is 20000mmk. If they choose "no", the program will calculate their both basic salary, travel allowance depending on days they attend and their bonus salary 20000mmk.

Last but not least, the sixth label "Being late in a month" is the title for 2 radio buttons below which is same as fifth label and radio buttons. There are "yes" and "no" which user will get 10000mmk as bonus salary if they don't late to work every day and the program will calculate their bonus salary, travel allowance and their basic salary. All the example shown below;



Bonus salary

Java

P5 Test an Event driven

Application

Text plan for name text box

Test description	Test: name text box		
Test number		Performed Saw Win Nwe	by:

Number	Step	Data	Data	Actual	Problem
			type	result	Number
	Input value into name textbox	Saw Win Nwe	String	No error	Accept and ok
	Input value into name textbox	Sam	String	No error	Accept and ok
	Input value into name textbox	-5		Validation stopped data entry	taken
	Input value into name textbox	sawwinnwe@gmail.com	J	Validation stopped data entry	taken
	Input value into name textbox	10.5	float	error	Not accept
	Input value into name	1.2.1998	Erroneous	error	Not accept

te	extbox			
			validation	
			checking	

Test plan for join date text box

Test description			Test: Join date test box						
Test number					Performed by: Saw Win				
NumberStep			Data Data		Actual result	Problem Number			
1	Input into textbox	value date	25.07.2001	normal	No error	Accept and ok			
2	Input into textbox	value date	1998.12.27	normal	No error	Accept and ok			
3	Input into textbox	value date	Saw Win Nwe	string	Validation stopped data entry	None taken			
4	Input into textbox	value date	sawwinnwe@gmail.con	string	Validation stopped data entry	None taken			

5	Input	value	10/5	extreme	error	Not accept
	into	date				
	textbox					
6	Input	value	09/@gmail.SWN	Erroneous	Program	Not accept
	into	date			terminated	
	textbox				due to	
					incomplete	
					validation	
					checking	

Test plan for email text box

Test description		Test: Email text box				
Test number		4.0		Performed by: Saw Win Nwe		
Number	Step	Data	Data type		Problem Number	
1	Input value into email textbox	sawwinnwe@gmail.com	normal		Accept and ok	
2	Input value into email textbox	Sawwinnwe123@gmail.com	normal	No error	Accept and ok	
3	Input value into email textbox	123@gmail	string		None taken	

Saw Win Nwe

	Input value into email textbox	Saw.com	string		None taken
	Input value into email textbox	123	extreme		None taken
6	Input value into email textbox	sawwinnwe	Erroneous	error	Not accept
				validation checking	

Test plan for department combo box

Test descr	ription	Test:	department	combo			
		box					
Test number		5.0				Performed	by: Saw
						Win Nwe	
Number	Step	Data			Data type	Actual result	Problem Number

1	Input value into department combo box	Marketing	string		Accept and ok
2	Input value into department combo box	HR	string		Accept and ok
3	Input value into department combo box	Accounting	string		None taken
4	Input value into department combo box	Administration	string		None taken
5	Input value into department combo box	Fineness	string		Not accept
				validation checking	

Test plan for NRC text box

Test description	Test: NRC test box		
Test number		Performed by: Nwe	Saw Win

Number	Step	Data	Data type	Actual result	Problem Number
	Input value into NRC textbox	12/SAKHANA (N)123456	normal	No error	Accept and ok
	Input value into NRC textbox	12/SAKHANA (N)654321	normal	No error	Accept and ok
	Input value into NRC textbox	12/saw win nwe	3	Validation stopped data entry	None taken
	Input value into NRC textbox	sawwinnwe@gmail.com		Validation stopped data entry	None taken
5	Input value into NRC textbox	(N)123	extreme	error	None taken
6	Input value into NRC textbox	SAKHANA12/(N)		terminated due to incomplete	Not accept
				validation checking	

Test description	Test: Position combo box

Test number		6.0		Performed by: Saw Win Nwe	
Number	Step	Data	Data	Actual	Problem
			type	result	Number
	Input value into position combo box	Manager	string	No error	Accept and ok
	Input value into position combo box	Supervisor	string	No error	Accept and ok
3	Input value into position combo box	Office staff	string		None taken
4	Input value into position combo box	Cleaner	string		None taken
5	Input value into position combo box	Database	string	error	Not accept

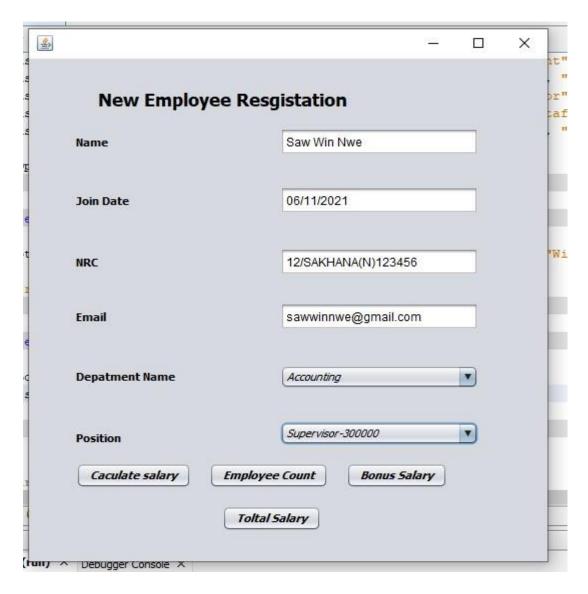
Test plan for Position combo box

<u>P6</u> Create

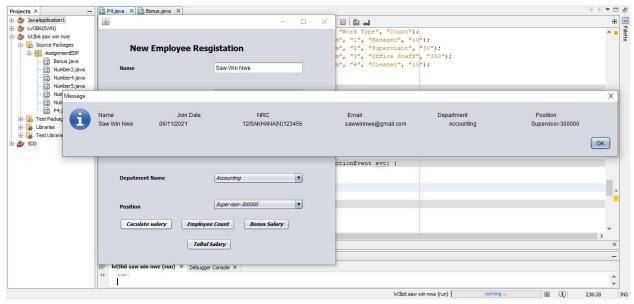
<u>Create onscreen help to</u> <u>assist</u> <u>the users of a</u>

computer program

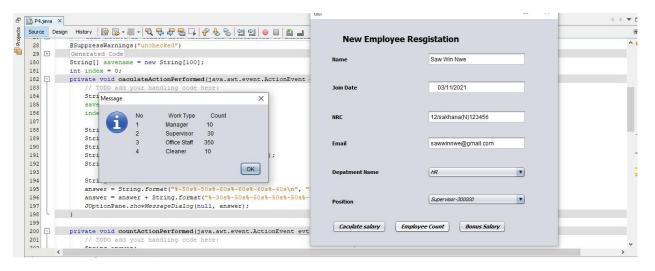
This p6 is related to the p4.



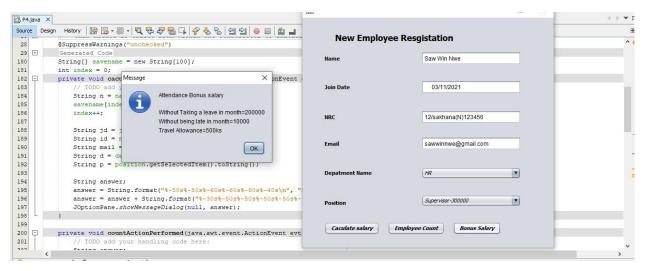
This is new employee registration form. New employee has to fill this form by adding their name, join date, NRC, email and which department the employee will be working and which position they will be working. Calculate salary button show all the information of the new employee just register. For example, look at the photo below.



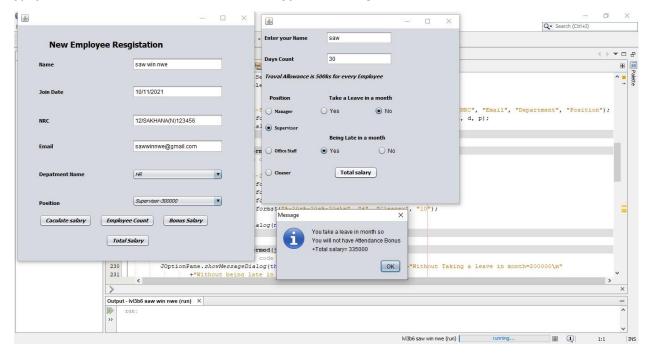
After the registration form, they can take a look at the employee count. In this employee count button, there are all the employee type and basic salary list. There are 4 types of employees in this company. Manager, supervisor, office staff and cleaner. Manager basic salary is 500000, supervisor basic salary is 300000, office staff is 250000 and cleaner basic salary is 100000. Example shown below,

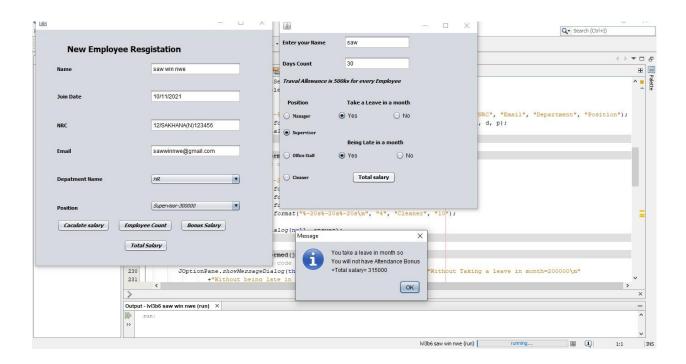


In Employee Count, they can check about the bonus salary in this company. If employee didn't take a leave within a month, they get 20000bonus extra salary. If employee didn't late every day, they get 10000bonus extra salary. If they both don't take a leave or late within a month, they get 30000bonus extra salary and without being late or taking a leave, every employee get travel allowance 500binus extra salary every day. Example shown below,

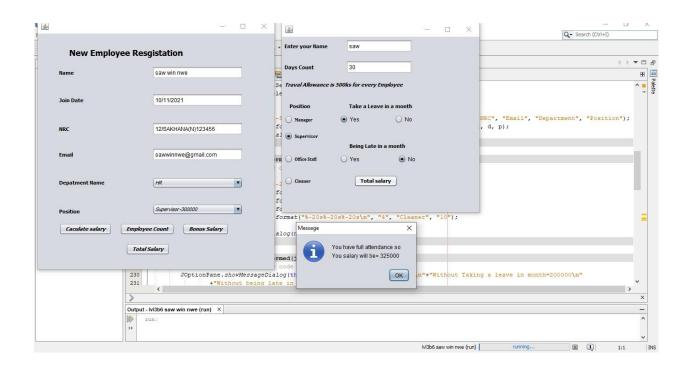


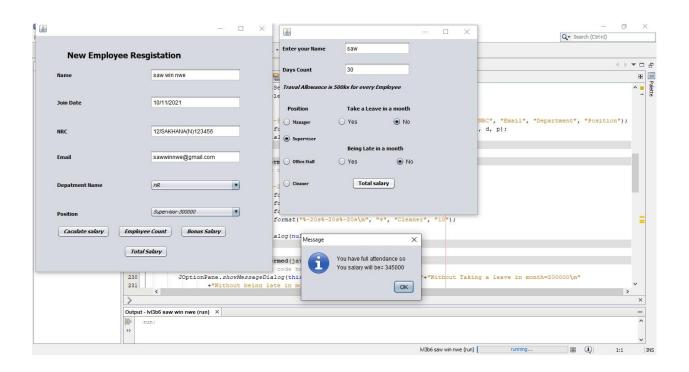
Last but not Last, Total salary is where new employee can see their total salary which is their position + Attendance bonus salary. The program asks to choose the position and we also ask if they are being late or taking a leave in this month, we calculate the total salary without attendance bonus and if not, we calculate any option they choose on radio box and show them their total salary. Example show below,





Saw Win Nwe





This is all about new employee registration that I wrote program about this form for this Green Land Organic Company.

Analyze actual test results against expected results to identify discrepancies

In p5, user can input only strings and integers which the program accept and the program will show error if user put wrong data. I will show u exception handling and regular expression as example in java.

Exception handling

Java exception handling is one of the powerful mechanisms for handling runtime errors so that your application can run successfully. try-catch is the easiest way to handle exceptions. Put the code to be executed in a try block, and all Java exceptions thrown by the code will be caught by one or more catch blocks. This method catches various Java exceptions thrown. This is the simplest mechanism for handling exceptions.

This tutorial introduces Java exceptions, their types, and the difference between confirmed and unconfirmed exceptions.

Exception handling is a mechanism for handling runtime errors, such as ClassNotFoundException, IOException, SQLException, and RemoteException.

Let's look at an example of Java exception handling using try-catch statements to handle exceptions.

35

Output

```
Exception in thread main java.lang.ArithmeticException:/ by zero rest of the code...
```

Input

- public class JavaExceptionExample{
- public static void main(String args[]){
- 3. **try**{
- 4. //code that may raise exception
- 5. **int** data=100/0;
- 6. }catch(ArithmeticException e){System.out.println(e);}
- 7. //rest code of the program
- 8. System.out.println("rest of the code...");
- 9. }
- 10. }

In p5, there is text box for name, for program to accept user name, program needs to accept this kind of letter of code. For the name text box

```
\b([A-ZÀ-ÿ][-,a-z. ']+[ ]*)+

AND(
$User.ProfileId <> '00e30000001jDdz',

OR(

LEN(FirstName ) <=1,

MID(FirstName ,2,1) = " ",

NOT(
```

```
Java
```

Saw Win Nwe

```
REGEX(
    FirstName,
    '([A-Z][a-z]*)([\\s\\\'-][A-Z][a-z]*)*'
    )
   )
)
```

User profiles are designed to perform all tasks required by system administrators. The Len & Mid bit is used to prevent the insertion of the first letter or "S J".

Regular expressions

Java Regex or regular expression is an API used to define patterns for finding or manipulating strings. It is widely used to set string restrictions, such as passwords and email verification. After learning the Java Regex tutorial, you can use the Java Regex Tester tool to test regular expressions. The Java Regex API provides an interface and three classes in the java util regex package. Regular expressions are a set of characters that form a search pattern. When searching for data in text, you can use this search template to illustrate what you are looking for. Regular expressions can be single characters or more complex patterns.

Java

```
import java.util.regex.Pattern;
public class Main {    public static
void main(String[] args) {
                                             Pattern.compile("w3schools",
  Pattern
                   pattern
Pattern.CASE_INSENSITIVE);
  Matcher matcher = pattern.matcher("Visit
W3Schools!");
                       boolean matchFound =
matcher.find();
                 if(matchFound) {
    System.out.println("Match found");
  } else {
    System.out.println("Match not found");
  }
 }
}
// Outputs Match found
```

First, use the Pattern.compile() method to generate the pattern. The first parameter specifies the pattern to be searched, and the second parameter has a flag to indicate that the search is not case sensitive. The second parameter is optional.

The matcher() method is used to find patterns in strings. Returns a matcher object containing information about the search performed.

If the pattern is found in the string, the find() method returns true, otherwise

[RegularExpression(@"
$$^(?=.*[a-z])|(?=.*[A-$$

it returns false.

This is my code for the regular expression:

Z])|(?=.*\d)|(?=.*[^a-zA-Z\d])\$", ErrorMessage = "Password should have atleast one

lowercase | atleast one uppercase, should have atleast one number, should have atleast one

special character")]

For join date text box

/^\d{4}-(0[1-9]|1[0-2])-(0[1-9]|[12][0-9]|3[01])\$/

This code works for most dates but does exclude invalid days of the month like 2021-02-29 (2021 is not a leap year) or 2021-04-31 (April has only 30 days). These checks must be performed using the tools in your specific programming language of choice.

For NRC text box

```
^(?!\\d+$)\\w{8,20}$
public static void main(String[] args) {
   Pattern pattern = Pattern.compile("^(?!\\d+$)\\w{8,20}$\");
   Matcher matcher = pattern.matcher("Tryurcode4u");
   System.out.println("Input String matches regex -
"+matcher.matches()); }

identifier = letter (letter | digit)* real-numeral = digit digit* . digit digit* E
(epsilon | + | -) digit digit*
```

For email text box

[a-zA-Z0-9 + _.-] matches letters (in both cases), numbers, and the letters "+", "_" and ".". There is a "-" in front of the @ symbol. + Represents one or more iterations of the above character

<u>M4</u>

<u>Create technical documentation for the support and maintenance of a computer program</u>

This is related to p4.

In this section, I will talk about how my program works and how anyone can fix it or put new coding.

```
@SuppressWarnings("unchecked")
Generated Code
String[] savename = new String[100];
private void caculateActionPerformed(java.awt.event.ActionEvent evt) {
     / TODO add your handling
   String n = name.getText();
    savename[index] = n;
   String jd = joindate.getText();
    String id = nrc.getText();
    String mail = email.getText();
    String d = department.getSelectedItem().toString();
    String p = position.getSelectedItem().toString();
   String answer:
    answer = String.format("%-50s%-50s%-60s%-60s%-60s%-40s\n", "Name", "Join Date", "NRC", "Email", "Department", "Position");
    answer = answer + String.format("%-30s%-50s%-50s%-50s%-50s%-40s", n, jd, id, mail, d, p);
    JOptionPane.showMessageDialog(null, answer);
```

Calculate button coding

In this calculate button, program will get name from user so I used get text code. Same as the name, I used get text code for join date, NRC and email so I can get information from user. For department and position, I used combo box so user can choose which department they will be working and which position they can work as. So, for combo box, I used get selected item so the program can show to user what they chose in that combo box. They all numbers and letters so I used string character but for numbers I used both string character and integer numbers.

Ways to make changes about calculate button

If company want to change the department and position or put new department or position, they can go fix it design, department and position combo box properties. Another way is, they can delete the combo box and put text box instead of combo box so user can put in the department and position where they want to work as. Programmer can also use as radio button or checkbox.

```
private void countActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String p=position.getSelectedItem().toString();
    if (p.equals("Managar-500000"))
    { mcount++;}
    if (p.equals("Supervisor-300000"))
    { scount++;}
    if (p.equals("Office Staff-250000"))
    { ocount++;}
    else
    { ccount++;}

    string answer;
    answer = String.format("%-20s%-20s%-60s\n", "No", "Work Type", "Count");
    answer = answer + String.format("%-20s%-20s%-10s\n", "1", "Manager", mcount);
    answer = answer + String.format("%-20s%-20s%-10s\n", "2", "Supervisor",
    answer = answer + String.format("%-20s%-20s%-10s\n", "3", "Office Staff", ocount);
    answer = answer + String.format("%-20s%-20s%-10s\n", "4", "Cleaner", ccount);
    JOptionPane.showMessageDialog(null, answer);
}
```

Employee count button

In this employee count button, user can see how many employees in which position. This button is simple. The program shows user all the employee in every position and if new employee gets in, the number will increase.

Ways to make changes about employee count button

If programmer want to change, they can show in combo box. Another is, they can make check box and if position is available, the program will show it's not available.

Bonus salary button

Bonus salary button is very simple. I put a note for user to let them know about company bonus salary.

Ways to make changes about bonus salary

Programmers can put more notes or changes designs.

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Bonus b=new Bonus();
    b.setVisible(true);
}
```

Total salary button

Total salary button is simple. The program is connected to another form design if user pressed the button.

Total salary form

```
String
        n=name.getText();
String
cnt=Dcount.getText();
int c=Integer.parseInt(cnt);
int price=0;
                int amt=0;
int value=0;
                    String
msg="";
             int T=500*c;
    if(m.isSelected())
     {price=500000+T;
                                       "+n+"\n"+"Your
                          msg="Hi
                                                           Poition
                                                                     is
Manager."+"\n"+"Salary= "+price;}
if(s.isSelected())
     {price=300000+T; msg="Hi
                                     "+n+"\n"+"Your
                                                           Poition
                                                                     is
Supervisor."+"\n"+"Salary= "+price;}
if(o.isSelected())
```

```
{price=250000+T; msg="Hi "+n+"\n"+"Your Poition is Office
Staff."+"\n"+"Salary= "+price;}
if(clean.isSelected())
     {price=100000+T; msg="Hi
                                     "+n+"\n"+"Your
                                                          Poition
                                                                    is
Cleaner."+"\n"+"Salary= "+price;}
if(yes.isSelected())
     {amt=price; msg="You take a leave in month so"+"\n"+"You will not
have Attendance Bonus"+"\n+"+"Total salary= "+amt;}
if(no.isSelected())
     {amt=price+20000; msg="You have full attendance so"+"\n"+"You
salary will be= "+amt;}
    if(lateYes.isSelected())
     {value=amt; msg="You take a leave in month so"+"\n"+"You will not
have Attendance Bonus"+"\n+"+"Total salary= "+value;}
    if(lateNo.isSelected())
     {value=amt+10000; msg="You have full attendance so"+"\n"+"You
salary will be= "+value;}
    JOptionPane.showMessageDialog(null, msg);
```

Saw Win Nwe

Java

}

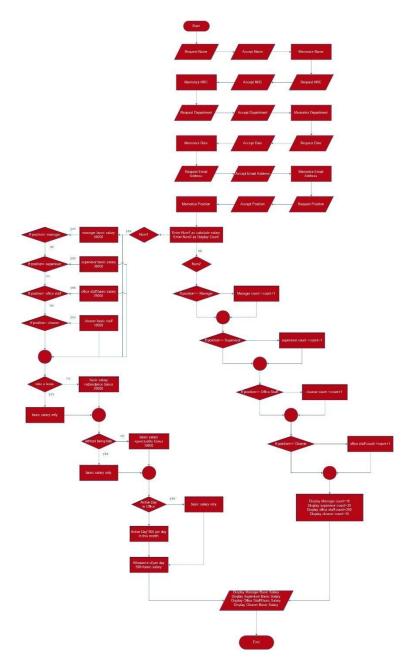
Salary button

If user put days count and choose positions, the program will calculate their salary with travel allowance. So, program gets text from text box beside days count label. I put their salary in coding for calculation and travel allowance will multiply with their basic salary and days count. If user said choose "yes" under than leave label, the program will calculate including 20000mmk as attendance bonus and if they pressed "no" there will be no attendance bonus in the calculation. Same as leave label, late label will do the calculate the same but 10000mmk as attendance bonus.

Ways to make changes for salary button

Programmer can change radio button into check box or combo box and they can change text box into calendar. If they want to put new salary, they can put it in design and get text in coding and make it integer so program can calculate for its own. Programmer can even change the message whatever they want in JOptionPane.showMessageDialog(null, msg).

Evaluate the suitability of event driven programs for non-graphical applications



<u>D2</u>

Evaluate an event driven

<u>Applicati</u>

<u>on</u>

Main Form

This is the main form. There are 4 button and motto of the company. Their theme is light green and the label of Aung Yadanar Company is in ever right corner of forms. The new employee registration button leads to p4 form which is known as new employee registration form. The position and Salary button

leads to pNs form which is known as position and salary. The About this company button leads to all the information about the Aung Yadanar Company like contact number etc. The FeedBack box leads to the fb form which is known as feedback form where user can type anything what user want to say about the company.



Main Form

New employee registration from



New Employee registration form

This is a new employee registration form. In this form, user needs to fill their name, join date, NRC, email and choose which department they will be working and which position they will be working. There are 4 departments and 4 positions in this company. There are Marketing department, HR department, accounting department and Administration department. User can work as manager, supervisor, office staff or cleaner in those 4 departments. After they filled the form, there are 4 buttons at the bottom of the form. The calculate salary button shows user information they just filled. Example show below,



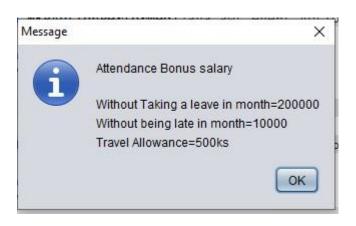
Calculate salary form

The employee count form shows how many employees are there in the department and position user chosen. Example shown below,



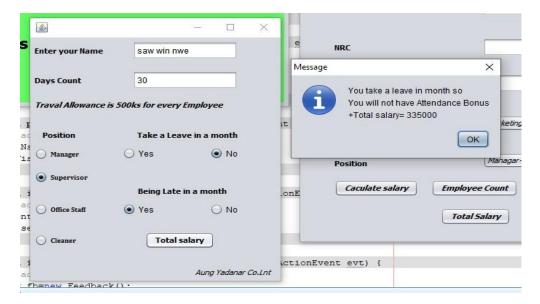
Employee Count Form

The bonus salary shows the attendance bonus salary that company gives to employee. Company gives every employee travel allowance 500mmk per days so employee can save up some money when they come to work. Another bonus is called Punctuality Bonus which if the employee didn't take a leave, they will get 2000mmk as bonus salary but if they did take a leave, they will only get basic salary which mean they won't get punctuality bonus for the month. Last but not least bonus also called punctuality bonus is if the employee didn't late every morning, they will get 10000mmk as bonus salary but if they did late some morning, they only get basic salary which means they won't get bonus salary. Example shown below,



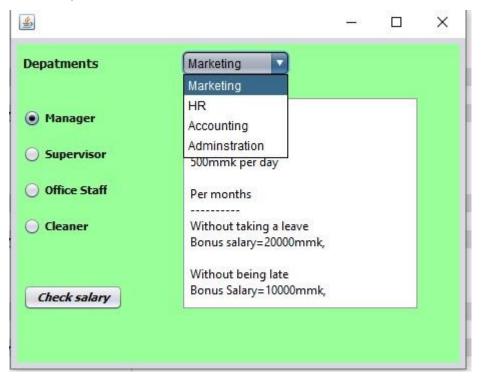
Bonus Salary

The last button total salary calculates how much the employee get per month. They need to fill their name and how many days they came to work. The program will multiply the days they came by 500mmk because they give every employee the travel allowance bonus. After that they need choose their position because basic salary are not the same and they need to choose yes or no depending on they take a leave or late within a month. If They took a leave within a month, the program will calculate without 20000mmk bonus. If they didn't take a leave, the program will calculate their basic salary plus 20000mmk. For being late within a month is same as taking a leave in month, they have to choose yes or no and the program will calculate with or without 10000mmk bonus. Example shown below,



Total salary form

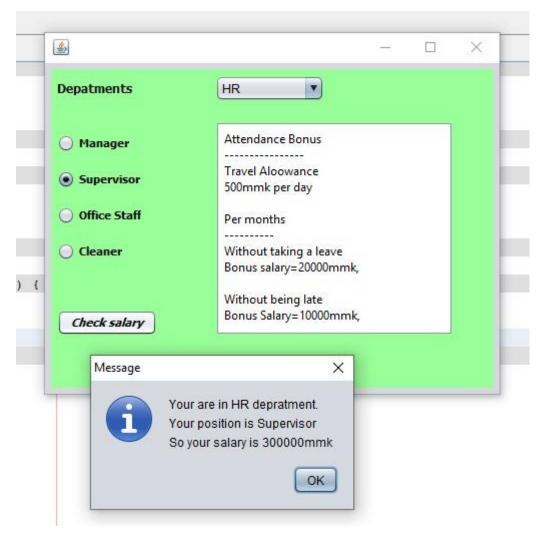
Position and salary form



Position and salary form

This is position and salary form. If user press the position and salary button in main form, it leads to this form shown up photo which is known as position

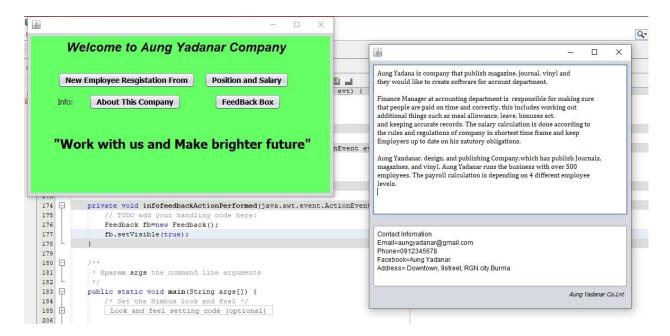
and salary form. In this form, user needs to choose a department and position so the program can run basic salary amount. For example, shown below,



Position and Salary form

There is a note in that position and salary form. There company shows the attendance bonus in the form. In attendance bonus, employee cam has 500mmk every day as travel allowance. The program shows their basic salary as their position and as bonus without being late or taking a month the employee gets extra bonus as it's show in a note.

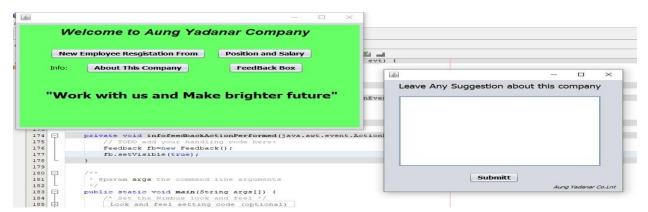
About this Company



About this company form

This is the about this company form. In this form, user can read about the company, information and contact information. There are details about the company and virous way to contact the company as well. Example is shown in the photo up there.

Feedback Box



Feedback box form

This is feedback box form. In this form, user can write anything like giving suggestion or things company should improve or anything else. Their letter will send to the company email directly and within a few hours or a few days, the company will reply to the user. Example is shown in the photo up there.

The Improvement Plan

First of all, most people want to be happy while working so the company should be improve by making fun activity every last days of the month so employee can have fun in a company so they won't be taking a leave or even they want to take a leave they will think about it because of all the fun they had while working in that company. Secondly, the company should upgrade their program at least once in a month for a security or news in the company for the new employee. Third improvement is the company need to tell more details about their company in the about this company form so the new employee can look of the history of the company. Last but not least, the company should give a promotion every year for hard working employee so other employee will get motivation from them and they will start to work hard too and the company can actually make a brighter future.

Database improvement

Databases help improve business performance by making inventory easier to manage and track. Too much or too little inventory is dangerous. Having a database means you can effectively track your inventory, minimize waste, and ensure that you are always at the right level to maximize sales. Database management systems are critical to your business because they provide an effective method for handling large amounts of different types of data. Effective access to data enables companies to quickly make informed decisions. When planning a growth strategy, a high-quality database system

may be the most valuable resource in your business. Most databases have reporting functions, such as productivity tracking and data analysis, which can predict future trends based on existing customer-based needs. A strong database system is essential for growth before the competition. If your customers are the core of your business, then you need a good CRM database to thrive. You can use a comprehensive CRM database to store and process information, such as customer contact information, potential customers, and interaction history. You can also use some CRM systems to run and track your marketing activities.

Web improvement

Web applications can help organizations reach new customers and introduce them to the services they provide. Web applications can play an important role in the branding process. With their help, it is easy to maintain proper communication channels between the viewer and the business organization. Business systems built with web applications are web-based, so if you are connected to the Internet, you can access them 24 hours a day, 7 days a week. It is also very flexible and can be accessed from almost any device or browser. If you need to update the desktop software, you need to update each device on which your application is installed separately. Your business is vulnerable to security breaches because you usually leave this task to your employees, and if time is important, you might skip it. Deploy security or feature updates to every version of your web application without downtime and compare it to a web application that gives users immediate access to the updated version of the application. One of the biggest problems that customers face when using off-the-shelf software is that the software continues to grow and is not suitable for the business, or at least impossible without expensive upgrades. Custom web applications are tailored specifically to your business needs, making them fully flexible and scalable to meet your business needs and growth. Application customization can include different levels of access to your own brand and user permissions. Only keep functions related to your business. As your business grows, you can reduce training time and add features.

Payment improvement

As a company, you need to understand what is required for each payroll to ensure that your payroll complies with UK regulations. The payroll may look different, but the basic information must be the same. The payroll must include at least total wages, variable deductions, fixed deductions, net wages, and payment methods. The payroll also includes tax number, social security number, salary rate, and additional payments or deductions, such as overtime, bonuses, and pensions.