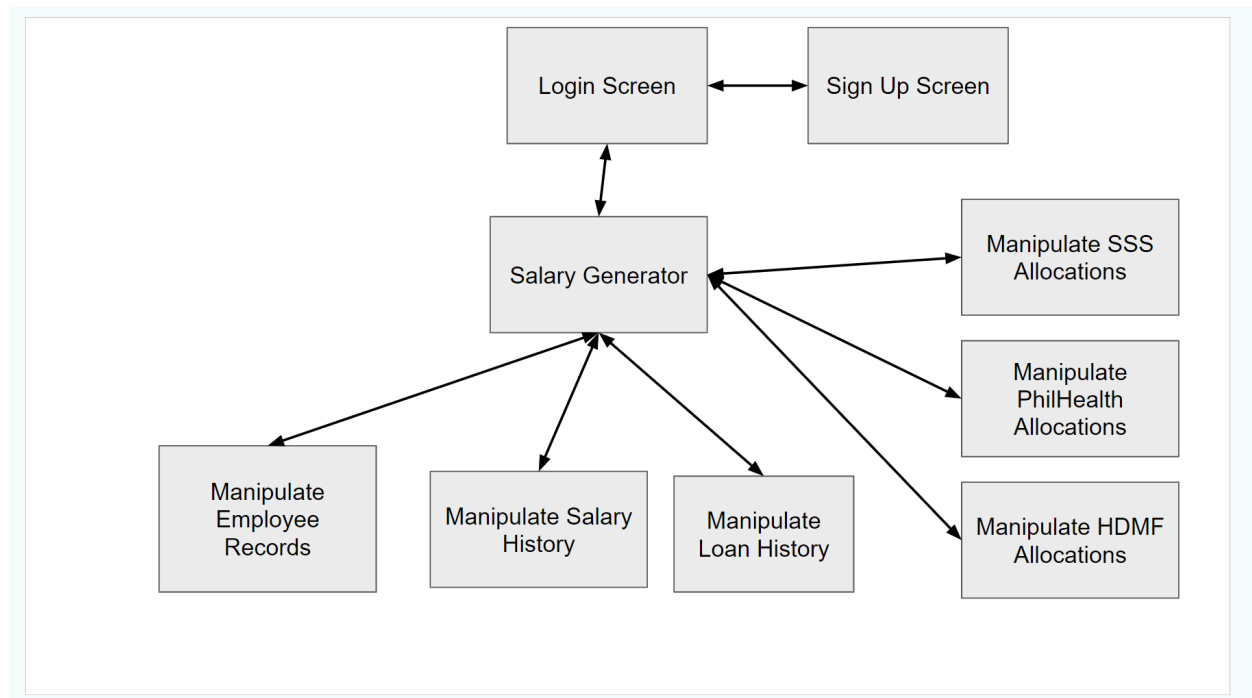


# Program Structure

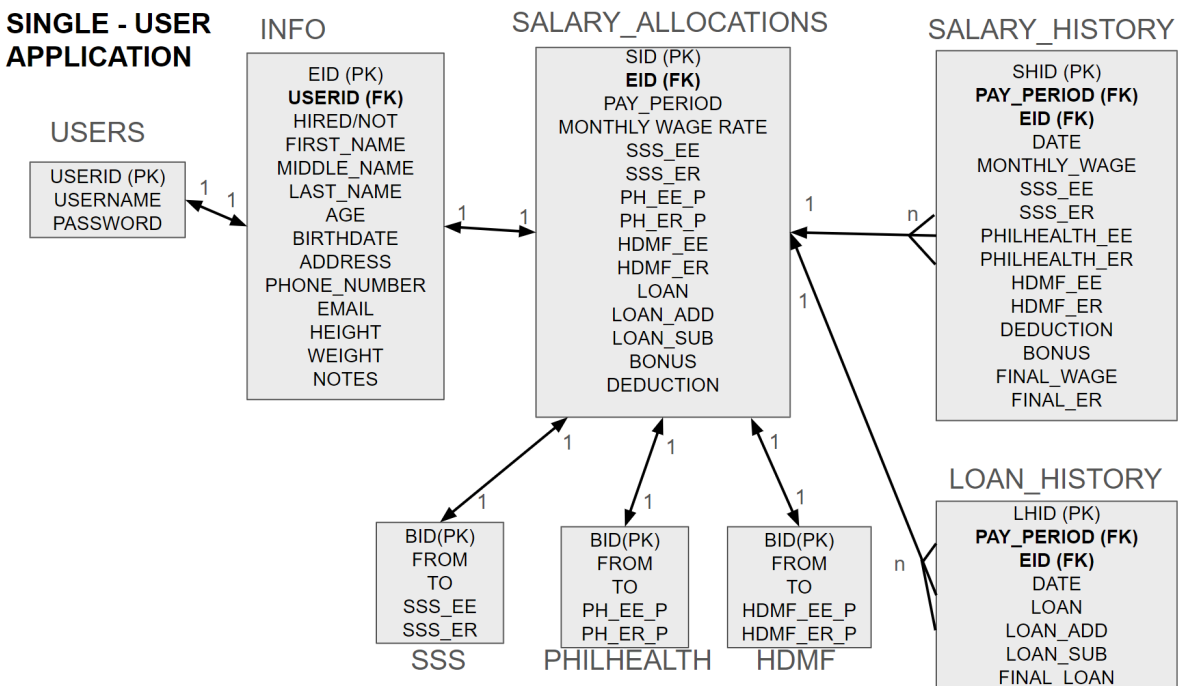


## Description of Forms

Form:	Description:
Login	This is the starting page of the application that the user will always interact with first. Only one user can be created for the application.
Sign Up	This page takes user input to add the username and password of the single password that can use the application. It can be accessed via the login page.
Manipulate Employee Salary Data / Salary Generator	This page is the “landing page” of the application. It allows the user to automatically generate the salaries of all the employees within the system based on set parameters. This includes all benefit payments and extra fees allocated from a set starting amount. Both the parameters and individual amounts can be overwritten via user input. Once a salary is generated, it is saved to transaction history.
Manipulate Employee Records	This page allows for the user to add, edit, delete, sort, and search through employee personal records and to manipulate them with ease. It is accessed via the salary generator page.

Manipulate Salary History	The salary history contains every salary paid out to all employees using the system. The data values can be manipulated.
Manipulate Loan History	The loan history contains every payment or withdrawal made to an employee's loan using the system. The user can add, edit, delete, search, and sort through data values.
Manipulate SSS Allocations	It allows the user to only add, edit and delete individual values for the SSS allocations based on the Employer (ER) and Employee (EE) (Appendix B), which automatically update the SSS allocations of individual employees.
Manipulate PhilHealth Allocations	It allows the user to only add, edit and delete individual values for the PhilHealth allocations. It is usually 2.5% employee share, and 2.5% employer share for all wage levels. However, it can change. It is based on PhilHealth Contribution Premium (Appendix B)
Manipulate HDMF Allocations	It allows the user to only add, edit and delete individual values for the HDMF allocations based on the Circular No.460 (Appendix B)

## Entity-relationship Diagram



Legend:

PK: Primary Key

FK: Foreign Key

SSS: Social Security System

HDMF: Home Development Mutual Fund

# Database Structure

## USERS

Field Name	Data Type	Description
USERID	integer	Primary Key
USERNAME	string, varchar(100)	Username of the single-user
PASSWORD	string, varchar(100)	Password of the single-user

## SSS

Field Name	Data Type	Description
BID	integer	Bracket ID, Primary Key
FROM	decimal(8,2)	Lower bound (inclusive) of bracket.
TO	decimal(8,2)	Upper bound (inclusive) of bracket.
SSS_EE	decimal(8,2)	Amount taken from employee's salary paid to the employee's SSS fund.
SSS_ER	decimal(8,2)	Amount paid by employer to employee's SSS fund.

## PHILHEALTH

Field Name	Data Type	Description
BID	integer	Bracket ID, Primary Key
FROM	decimal(8,2)	Lower bound (inclusive) of bracket.
TO	decimal(8,2)	Upper bound (inclusive) of bracket.
PH_EE_P	decimal(8,2)	Percentage of employee's

		salary paid to the employee's PhilHealth fund.
PH_ER_P	decimal(8,2)	Percentage of employee's salary paid by employer to employee's PhilHealth fund.

## HDMF

Field Name	Data Type	Description
BID	integer	Bracket ID, Primary Key
FROM	decimal(8,2)	Lower bound (inclusive) of bracket
TO	decimal(8,2)	Upper bound (inclusive) of bracket
PH_EE_P	decimal(8,2)	Percentage of employee's salary paid to the employee's HDMF fund.
PH_ER_P	decimal(8,2)	Percentage of employee's salary paid by employer to employee's HDMF fund.

## INFO

Field Name	Data Type	Description
EID	integer	Employee ID, Primary Key
USERID	integer	Foreign Key
HIRED/NOT	boolean	True if hired, false if not hired.
FIRST_NAME	string, varchar(50)	First name of the employee
MIDDLE_NAME	string, varchar(50)	Middle name of the employee
LAST_NAME	string, varchar(50)	Last name of the employee
AGE	integer	Age of the employee
BIRTHDATE	datetime	Birthdate of the employee

ADDRESS	string, varchar(100)	Address of the employee
PHONE_NUMBER	string, varchar(50)	Phone number of the employee
EMAIL	string, varchar(50)	Email of the employee
HEIGHT	integer	Height of the employee
WEIGHT	integer	Weight of the employee
NOTES	string, varchar(200)	Notes regarding the employee

## SALARY\_ALLOCATIONS

Field Name	Data Type	Description
SID	integer	Salary ID, Primary Key
EID	integer	Employee ID, Foreign Key
PAY_PERIOD	integer	Increments up by 1 for every succeeding pay period.
MONTHLY_WAGE_RATE	decimal(8,2)	The monthly wage rate of the employee. (counted as 30 days of work)
SSS_EE	decimal(8,2)	Amount taken from employee's salary paid to the employee's SSS fund.
SSS_ER	decimal(8,2)	Amount paid by employer to employee's SSS fund.
PH_EE_P	decimal(8,2)	Percentage of employee's salary paid to the employee's PhilHealth fund.
PH_ER_P	decimal(8,2)	Percentage of employee's salary paid by employer to employee's PhilHealth fund.
HDMF_EE_P	decimal(8,2)	Percentage of employee's salary paid to the employee's HDMF fund.
HDMF_ER_P	decimal(8,2)	Percentage of employee's

		salary paid by employer to employee's HDMF fund.
LOAN	decimal(8,2)	The employee's current loan from the employer.
LOAN_ADD	decimal(8,2)	Loan increase of the employee for that pay period
LOAN_SUB	decimal(8,2)	Loan payment of the employee for that pay period.
DEDUCTION	decimal(8,2)	A catch-all integer that decreases salary for any reason.
BONUS	decimal(8,2)	A catch-all integer that increases salary for any reason.

## SALARY\_HISTORY

Field Name	Data Type	Description
SHID	integer	Salary History ID, Primary Key
PAY_PERIOD	integer	Pay Period, Foreign Key
EID	integer	Employee ID, Foreign Key
DATESAVED	date	Date saved to the table
MONTHLY_WAGE_RATE	decimal(8,2)	The monthly wage rate of the employee. (counted as 30 days of work)
SSS_EE	decimal(8,2)	Amount taken from employee's salary paid to the employee's SSS fund.
SSS_ER	decimal(8,2)	Amount paid by employer to employee's SSS fund.
PH_EE_P	decimal(8,2)	Percentage of employee's salary paid to the employee's PhilHealth fund.

PH_ER_P	decimal(8,2)	Percentage of employee's salary paid by employer to employee's PhilHealth fund.
HDMF_EE_P	decimal(8,2)	Percentage of employee's salary paid to the employee's HDMF fund.
HDMF_ER_P	decimal(8,2)	Percentage of employee's salary paid by employer to employee's HDMF fund.
DEDUCTION	decimal(8,2)	A catch-all integer that decreases salary for any reason.
BONUS	decimal(8,2)	A catch-all integer that increases salary for any reason.
FINAL_WAGE	decimal(8,2)	The final wage of the employee when all the social security contributions have been made for that pay period.
FINAL_ER	decimal(8,2)	The total cost of social security contributions made by the employer for that employee for that pay period.

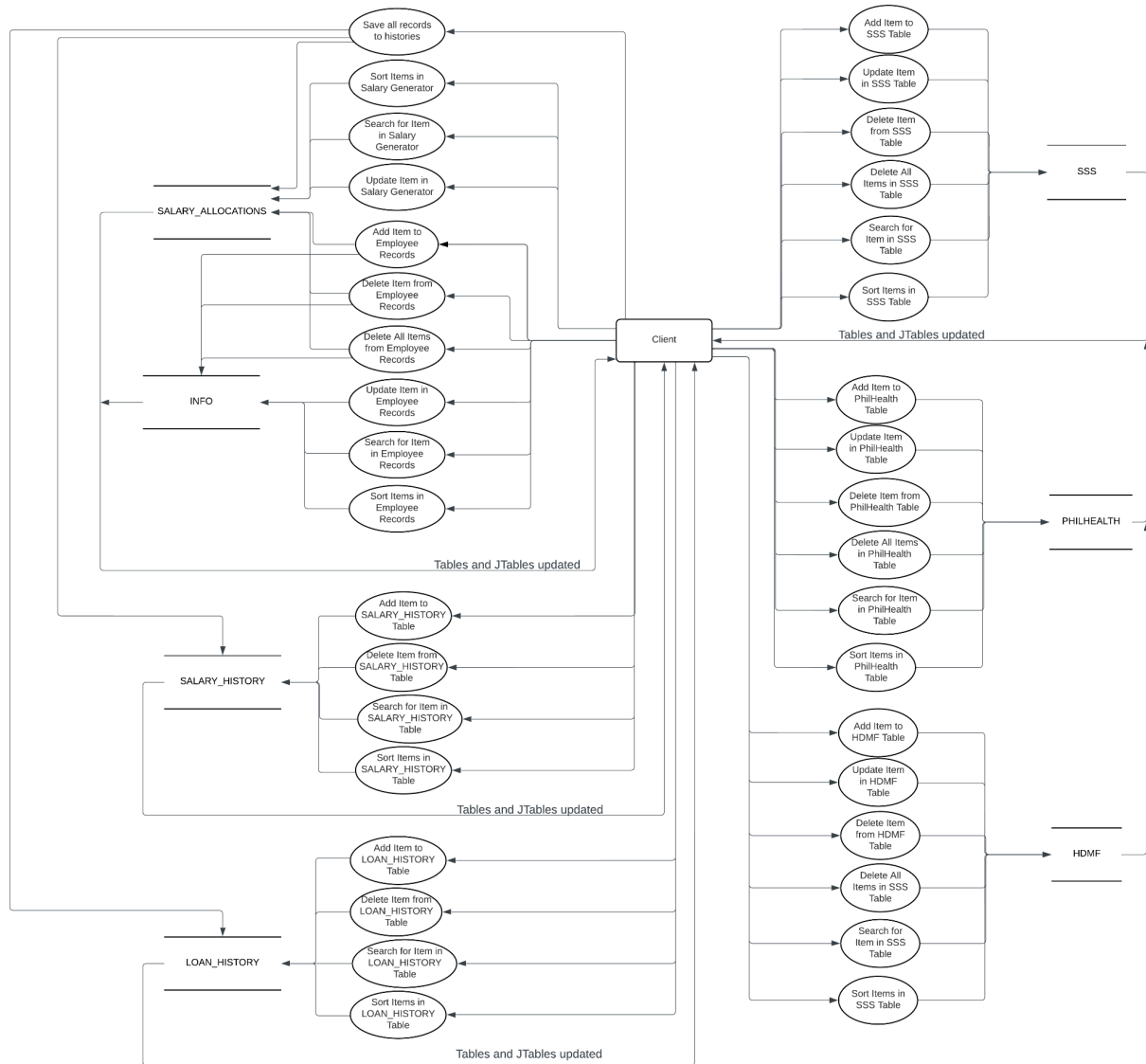
## LOAN\_HISTORY

Field Name	Data Type	Description
LHID	integer	Loan History ID, Primary Key
PAY_PERIOD	integer	Pay Period, Foreign Key
EID	integer	Employee ID, Foreign Key
DATESAVED	date	Date saved to the table
LOAN	decimal(8,2)	The employee's current loan from the employer.
LOAN_ADD	decimal(8,2)	Loan increase of the employee for that pay period

LOAN_SUB	decimal(8,2)	Loan payment of the employee for that pay period.
FINAL_LOAN	decimal(8,2)	The final loan amount left after the subtractions and additions during the pay period.

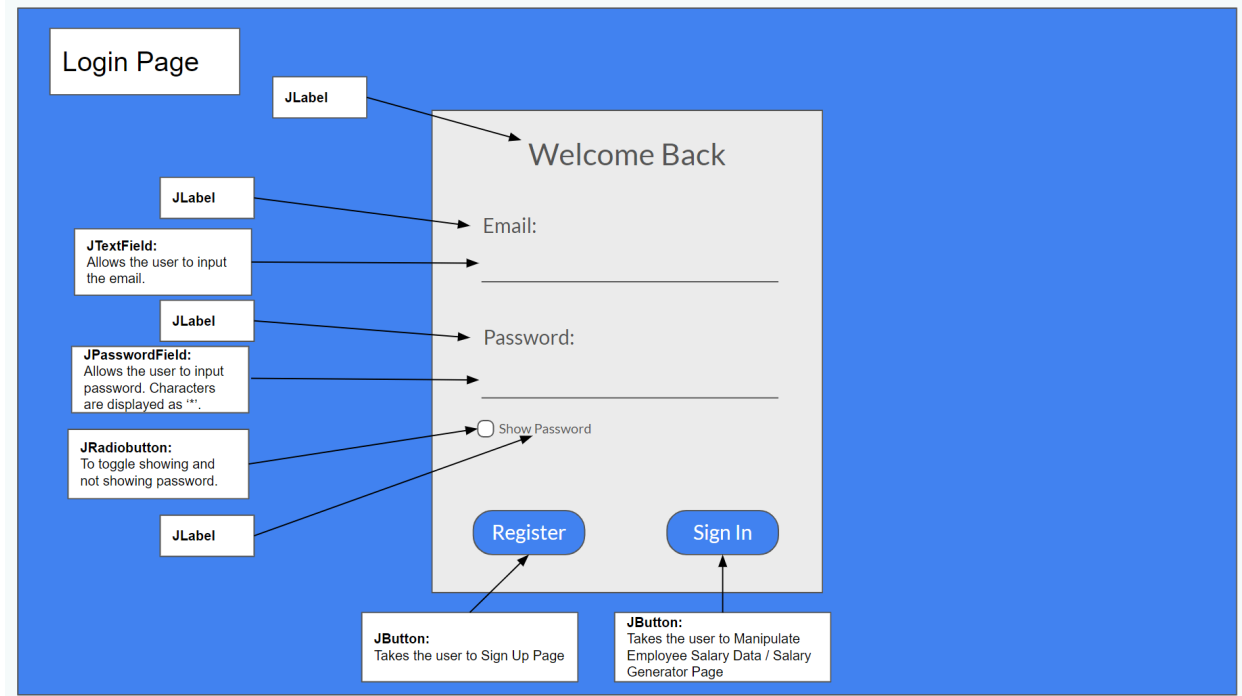


# Data Flow Diagram (DFD)

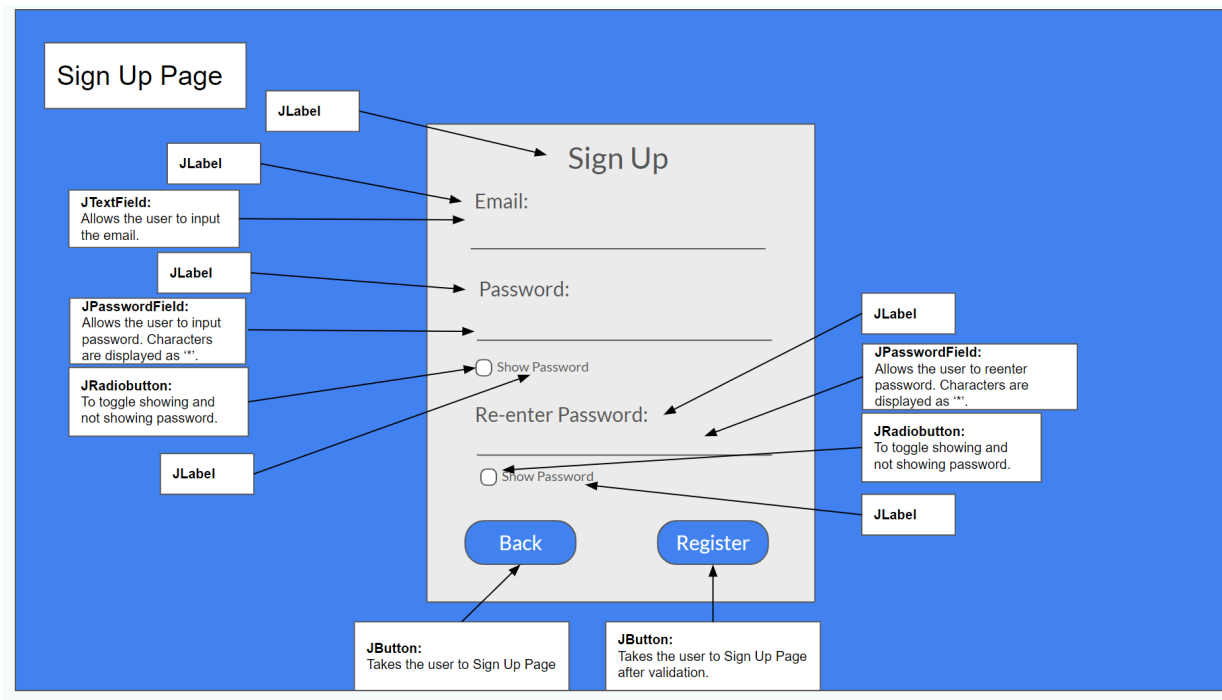


# Form Design:

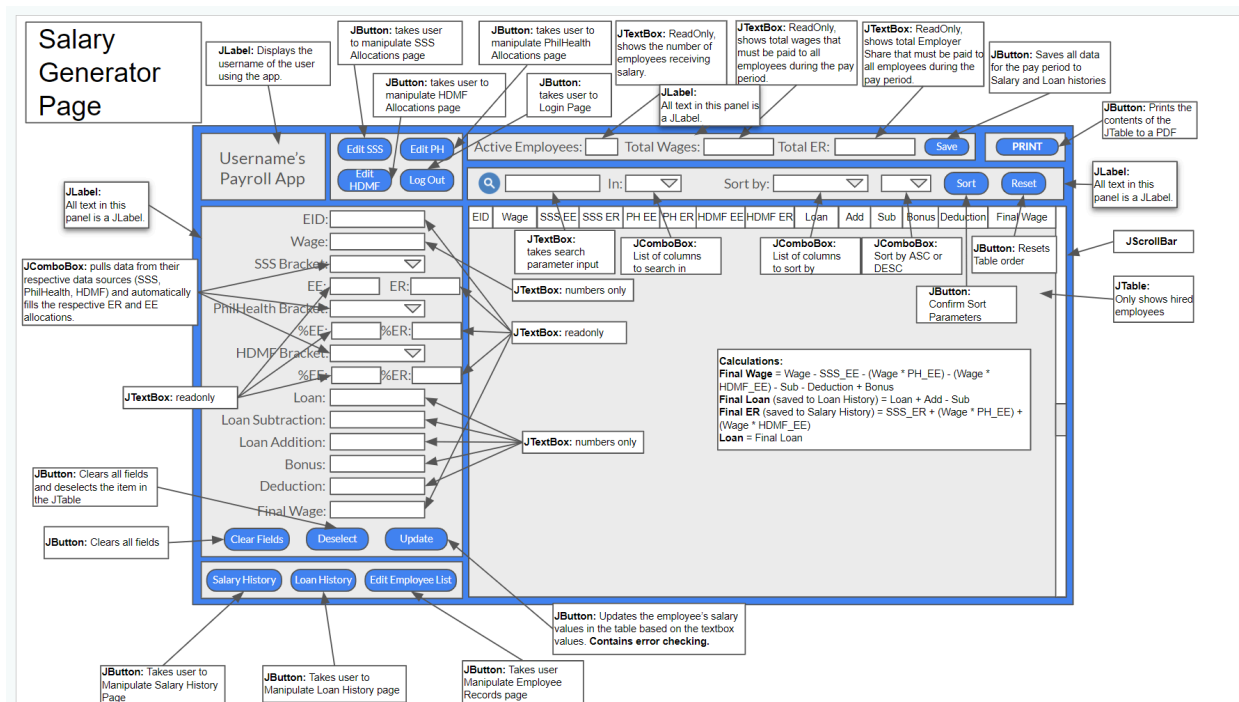
## Login Page:



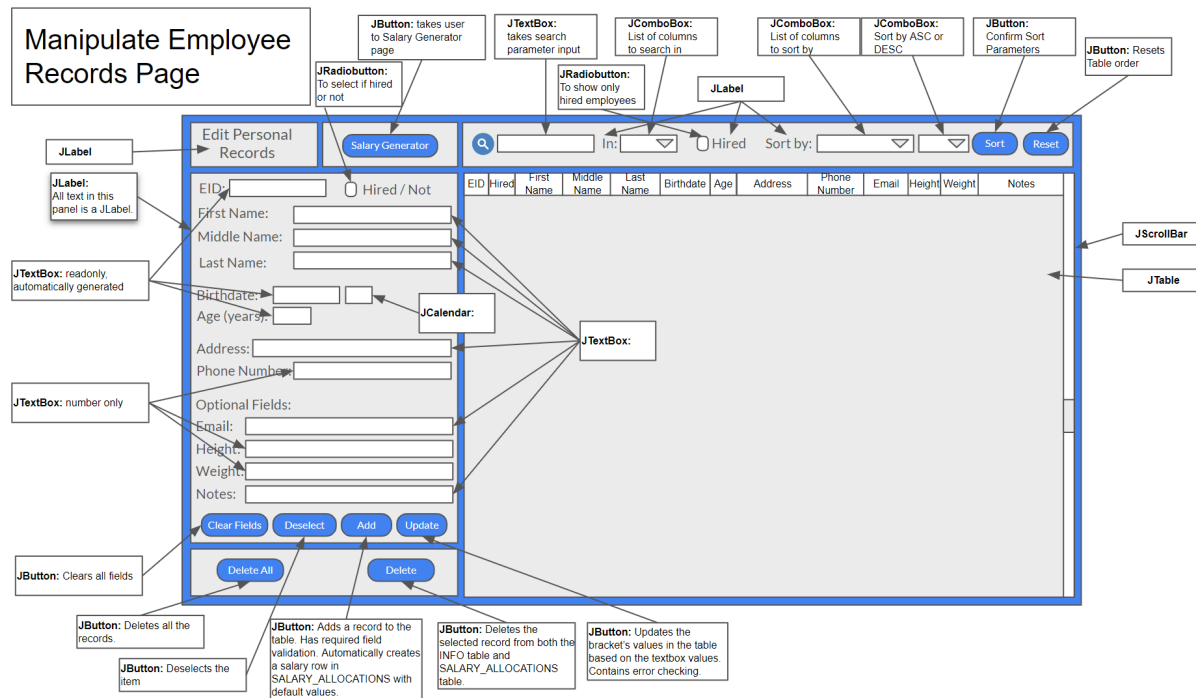
## Sign Up Page:



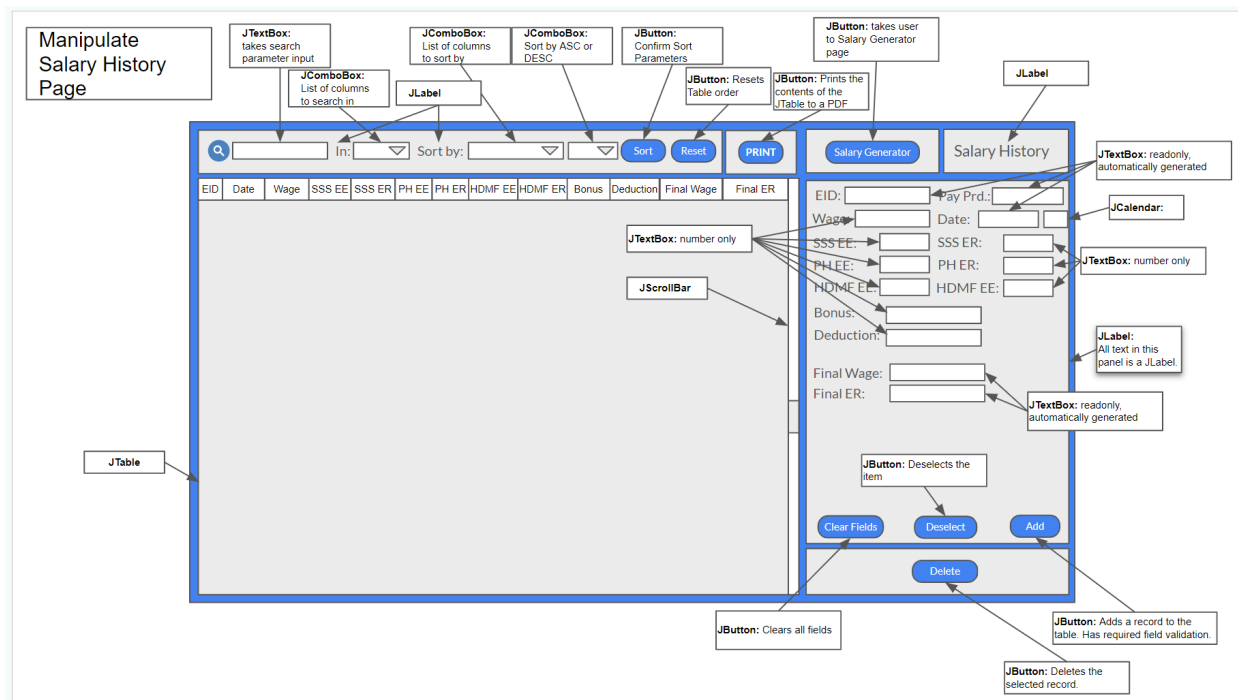
## Salary Generator:



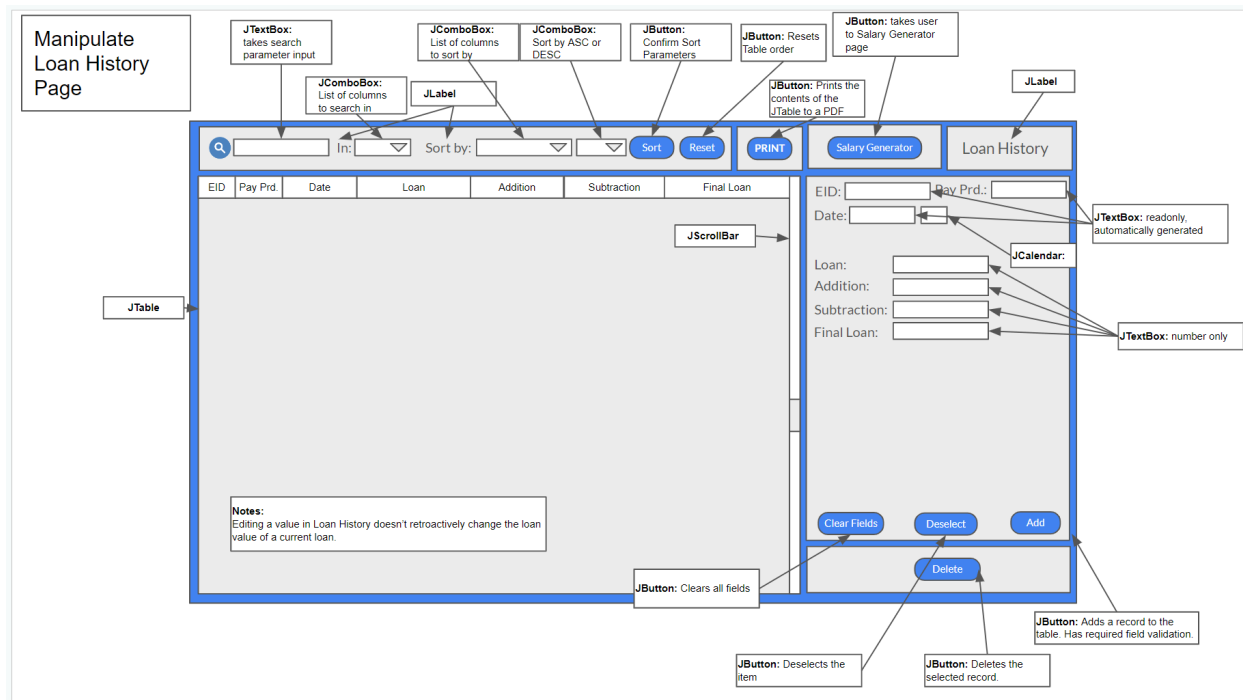
## Manipulate Employee Records:



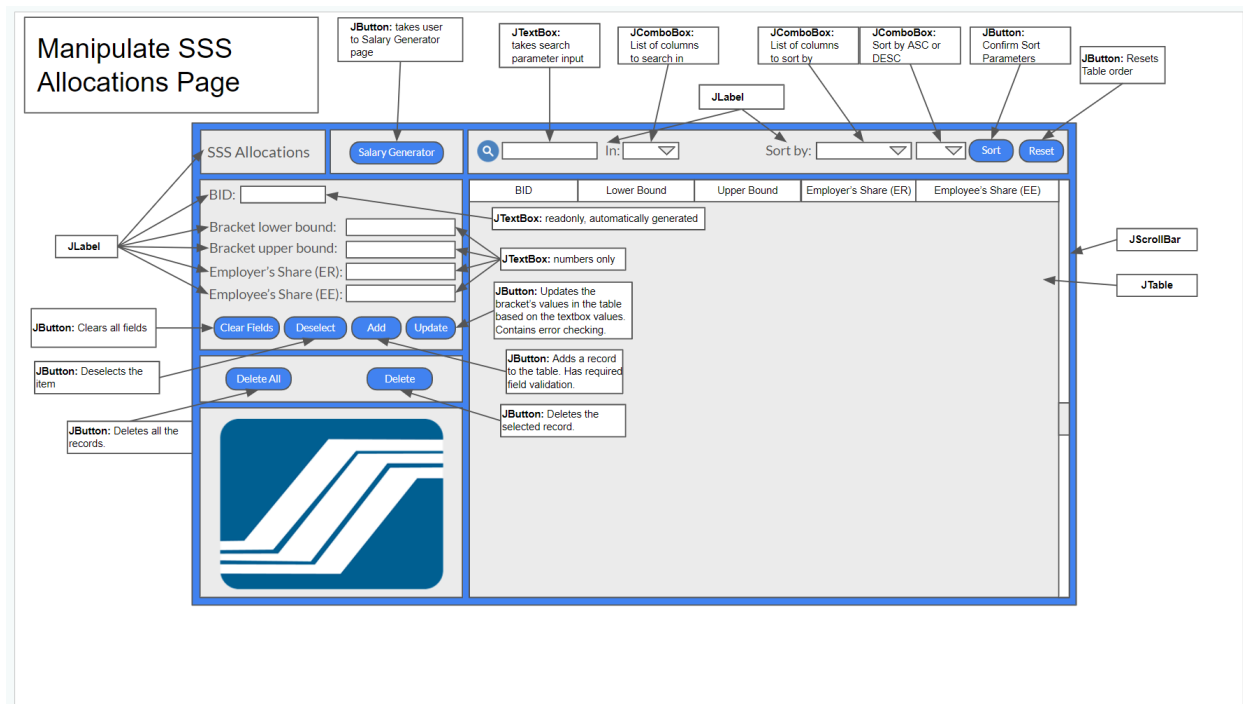
## Manipulate Salary History:



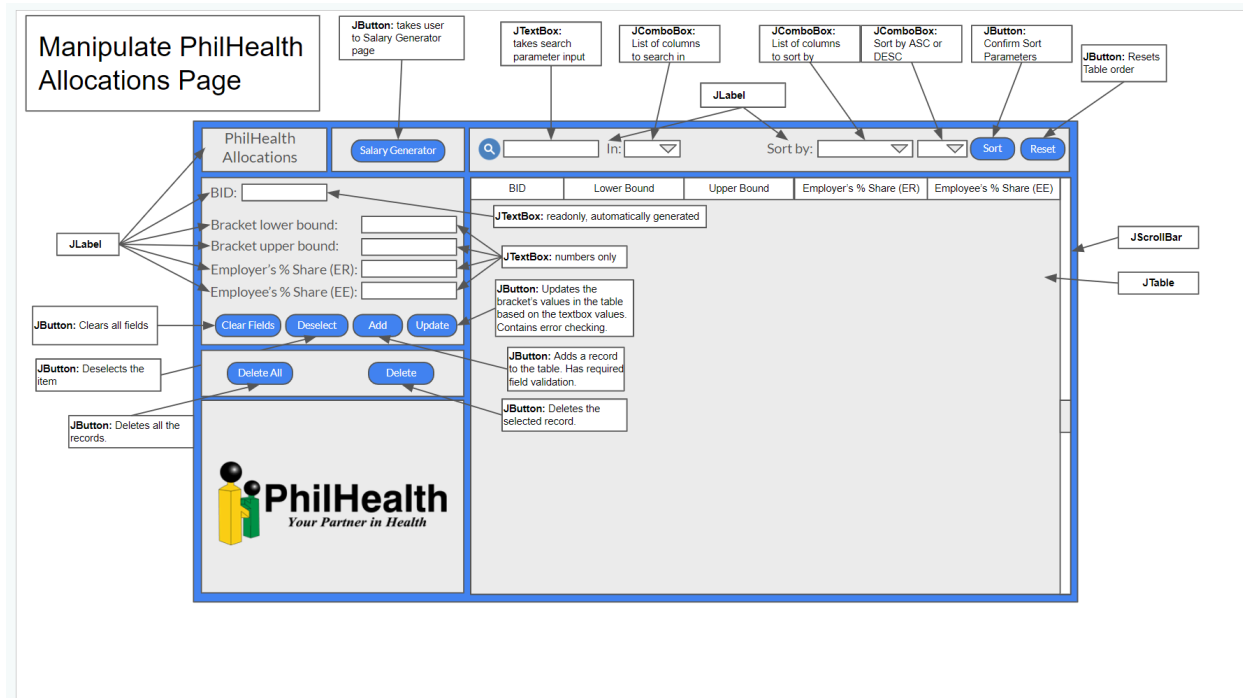
## Manipulate Loan History:



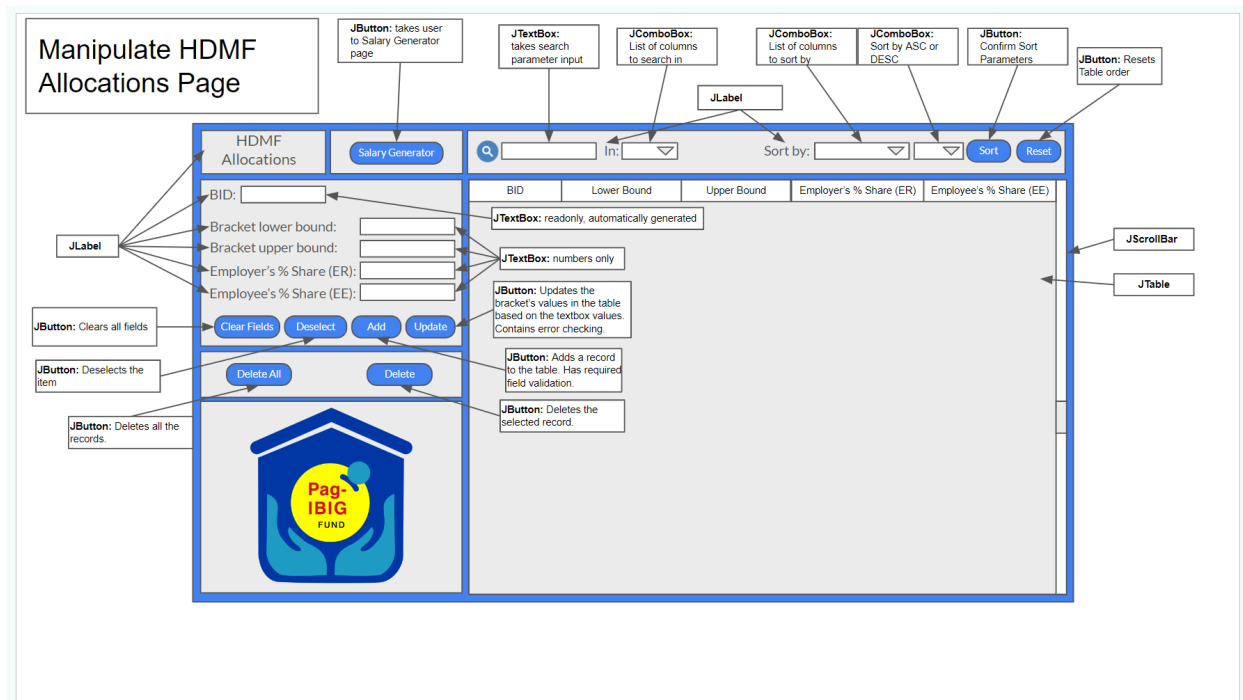
## Manipulate SSS Allocations:



## Manipulate PhilHealth Allocations:



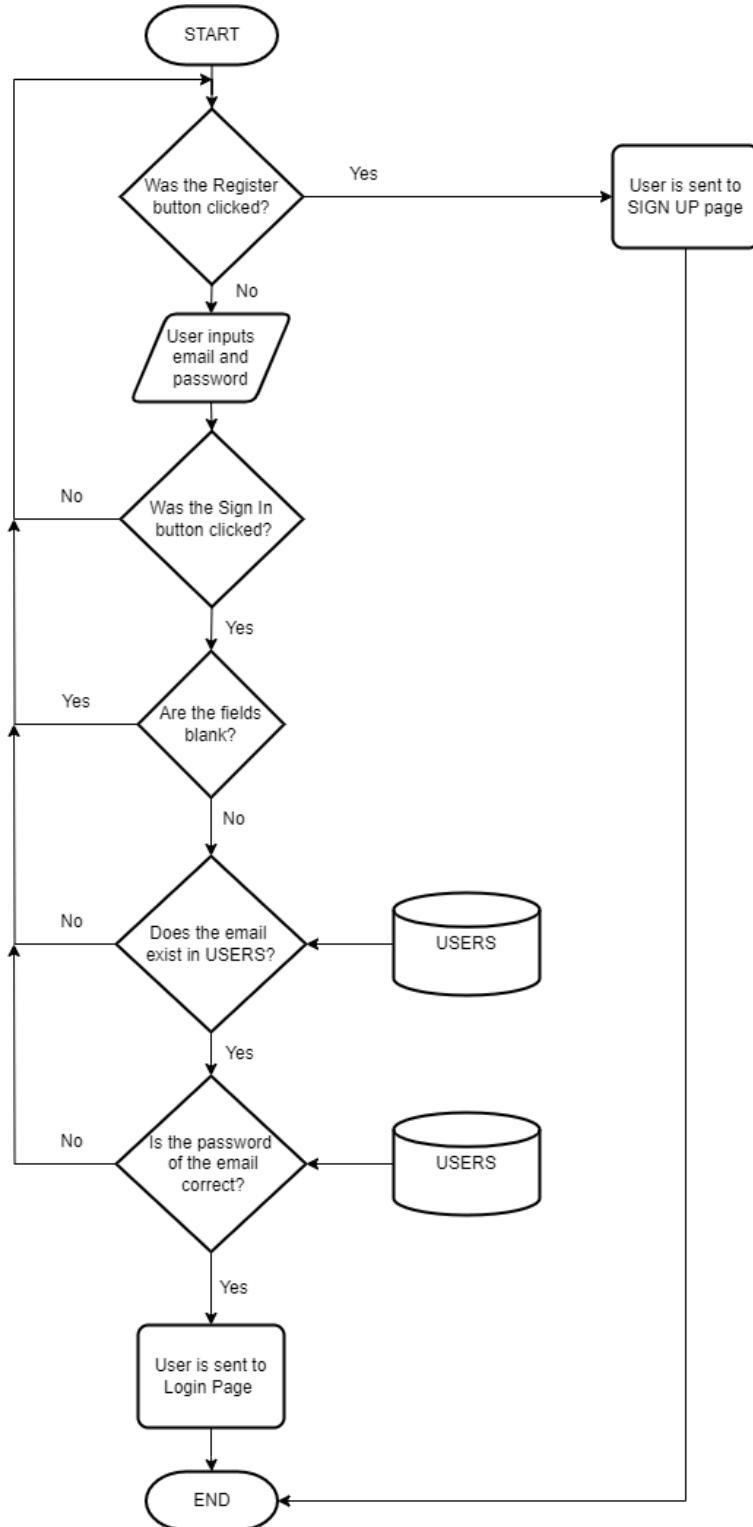
## Manipulate HDMF Allocations:



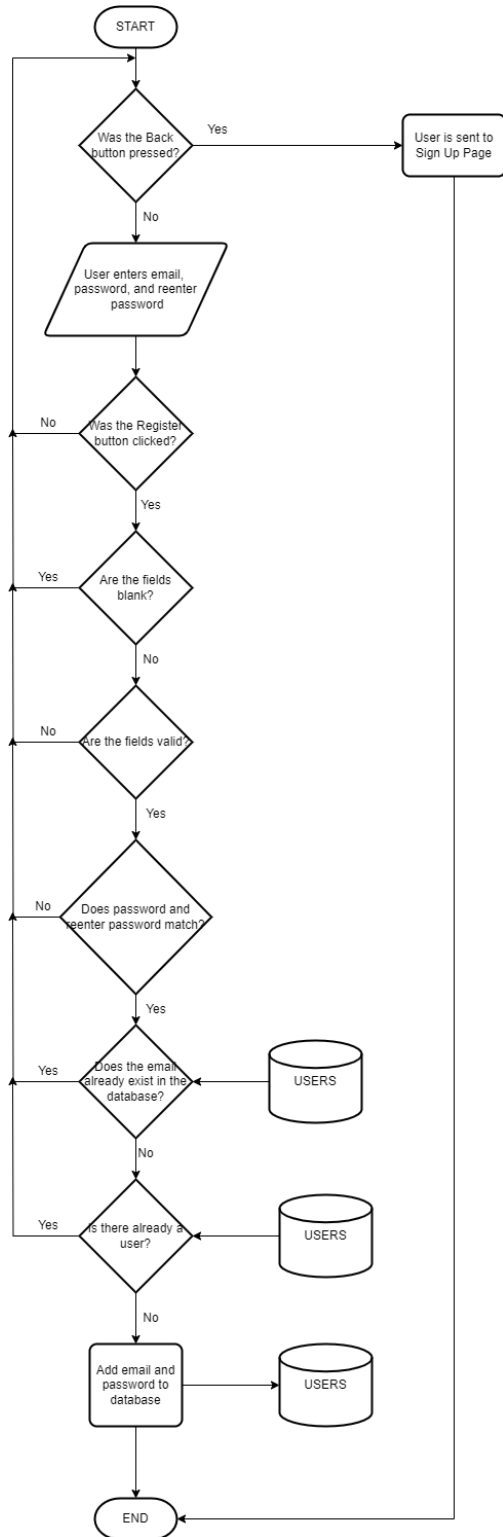
(all icons are cited in Appendix B)

# Process Flow Charts

## Login Page:

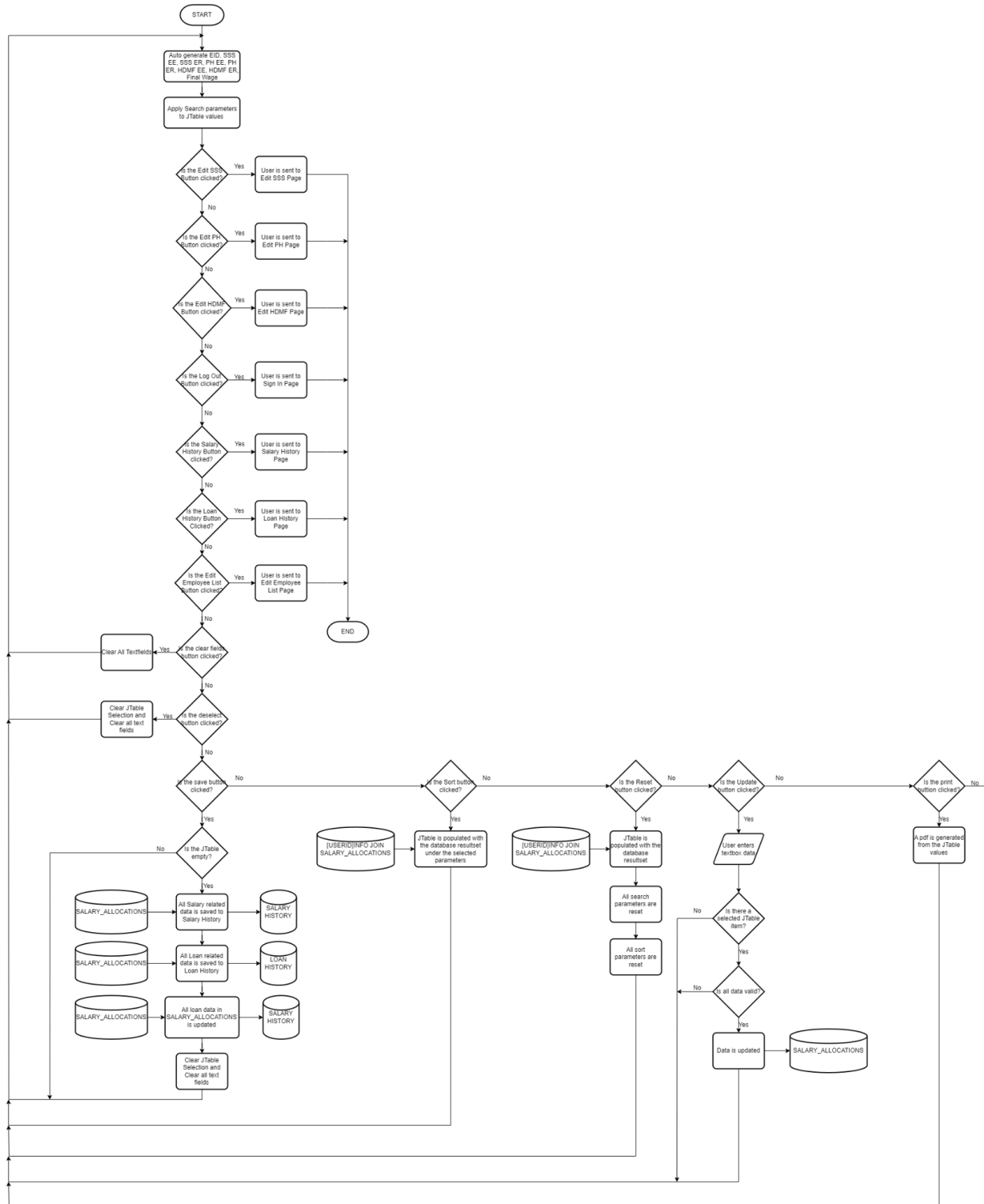


## Sign Up Page:

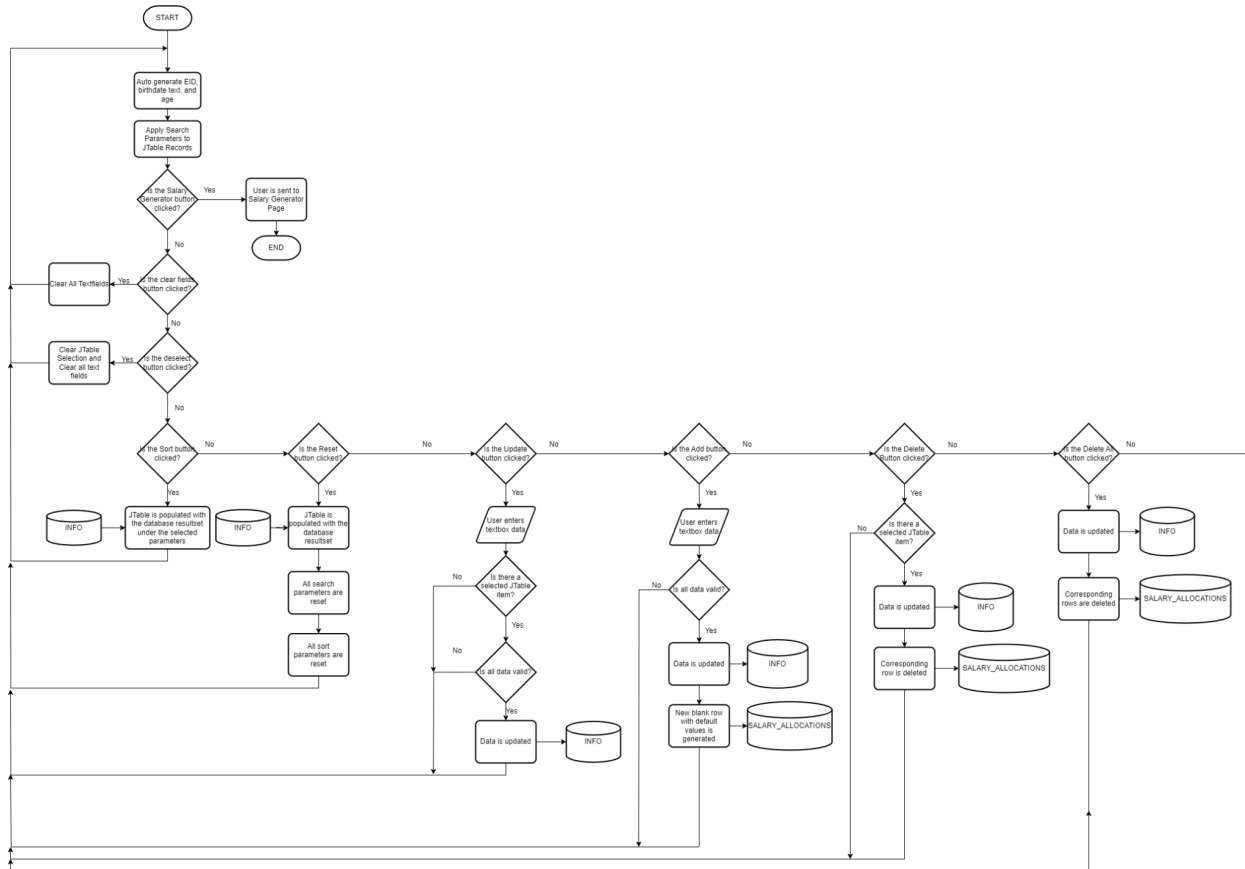




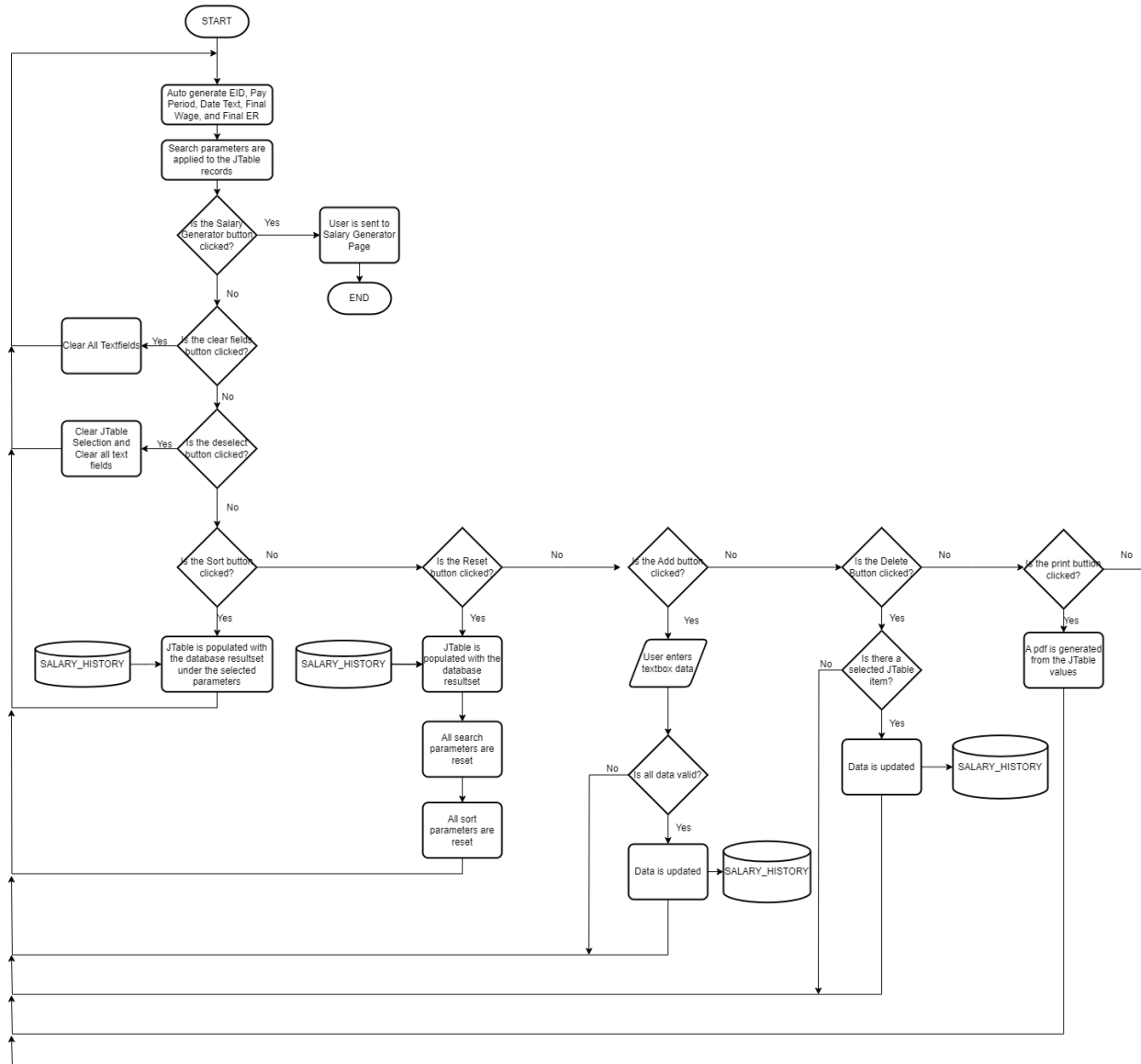
# Salary Generator:



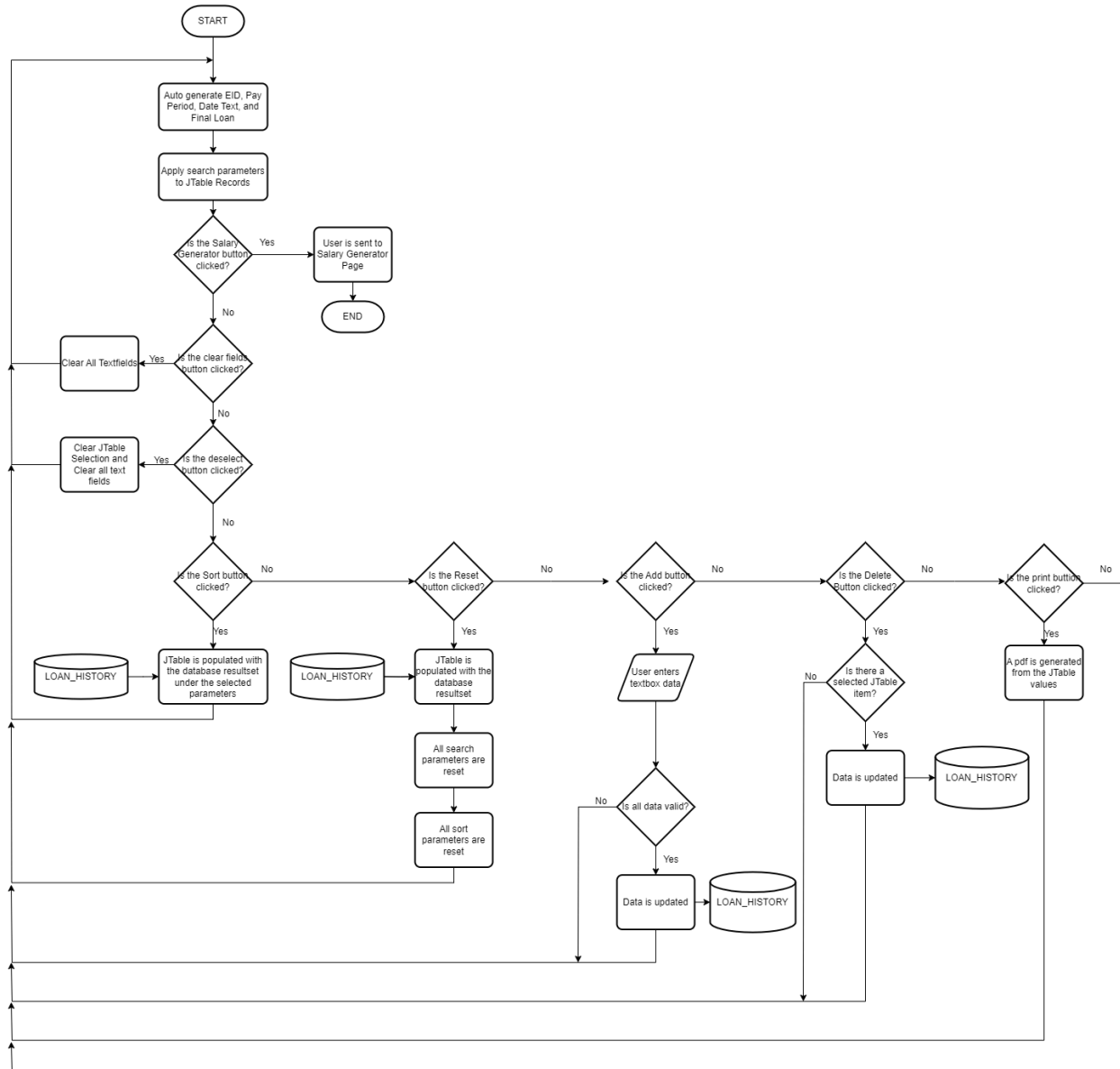
# Manipulate Employee Records:



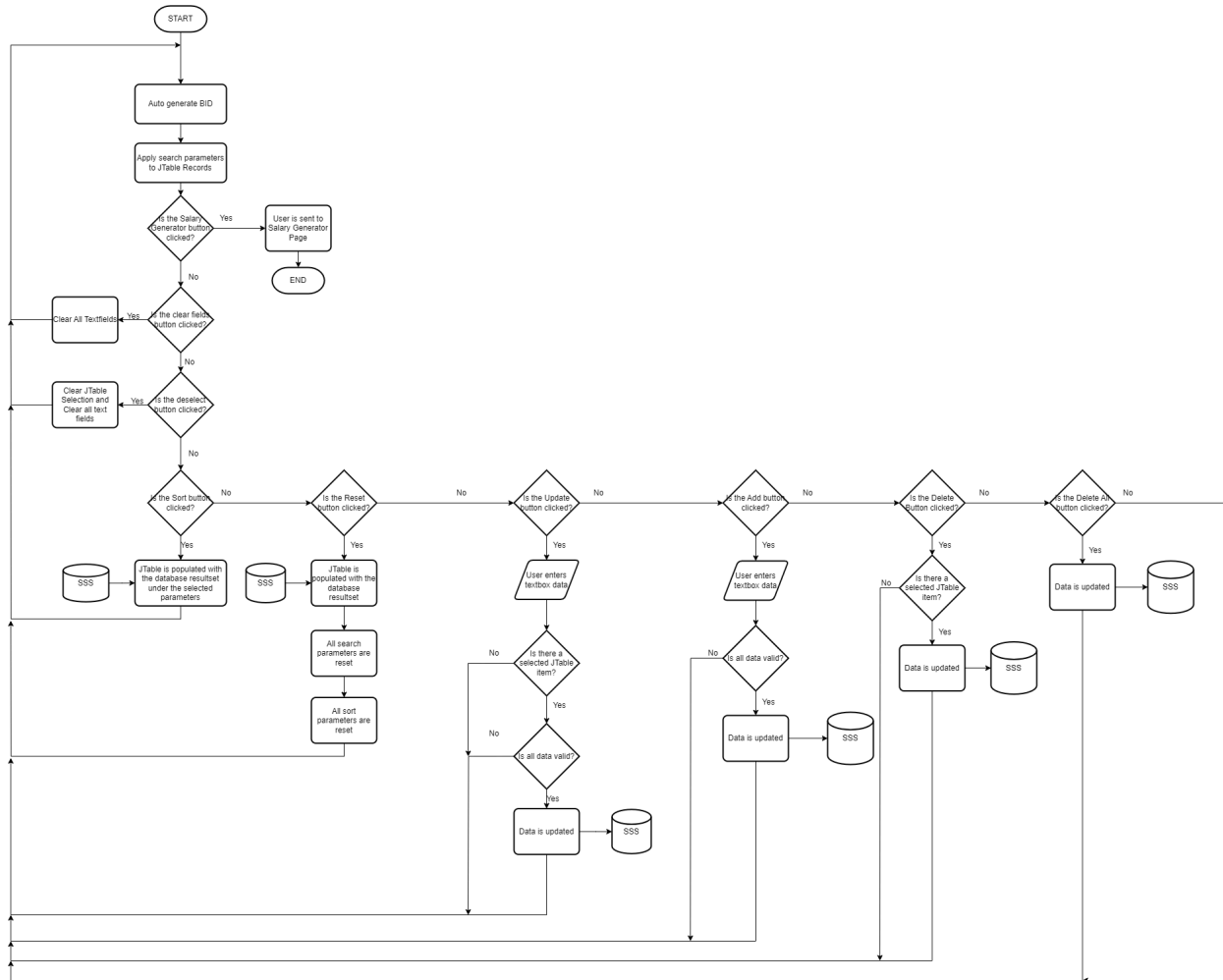
## Salary History:



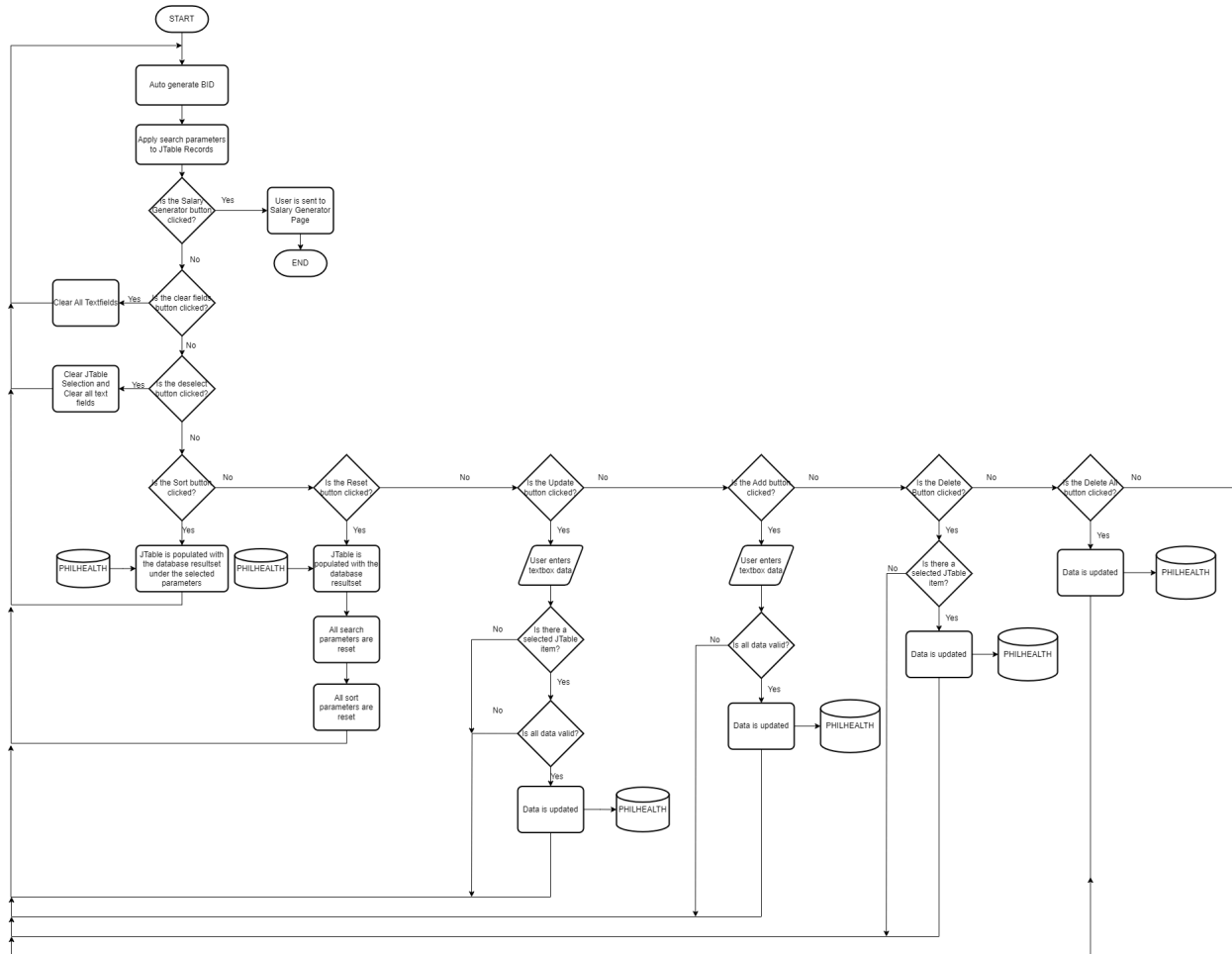
## Loan History:



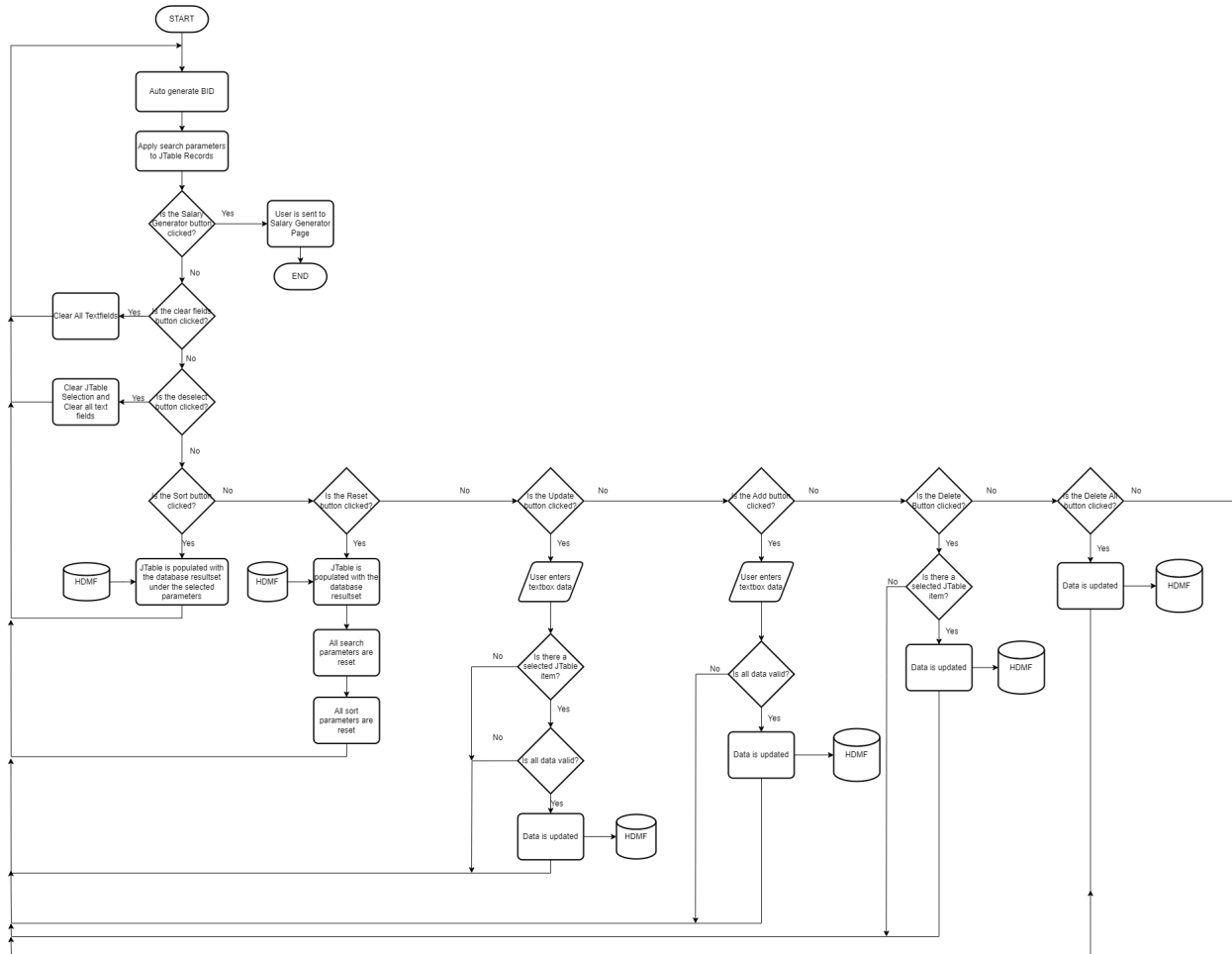
# Manipulate SSS Allocations:



## Manipulate PhilHealth Allocations:



## Manipulate HDMF Allocations:



## Key algorithms:

### Highest Number Algorithm in an Array:

- Used to generate unique IDs for individual table records.
- To be used in Salary Generator, Edit Employee Records, Salary History, Loan History, Edit SSS, Edit PhilHealth, Edit HDMF.

#### Pseudocode:

A = [8, 3, 2, -3, 7]

SIZE = 5

HIGHEST = 0 //storing index

for I from 1 to SIZE-1

    if A[I] > A[HIGHEST] then

        HIGHEST = I

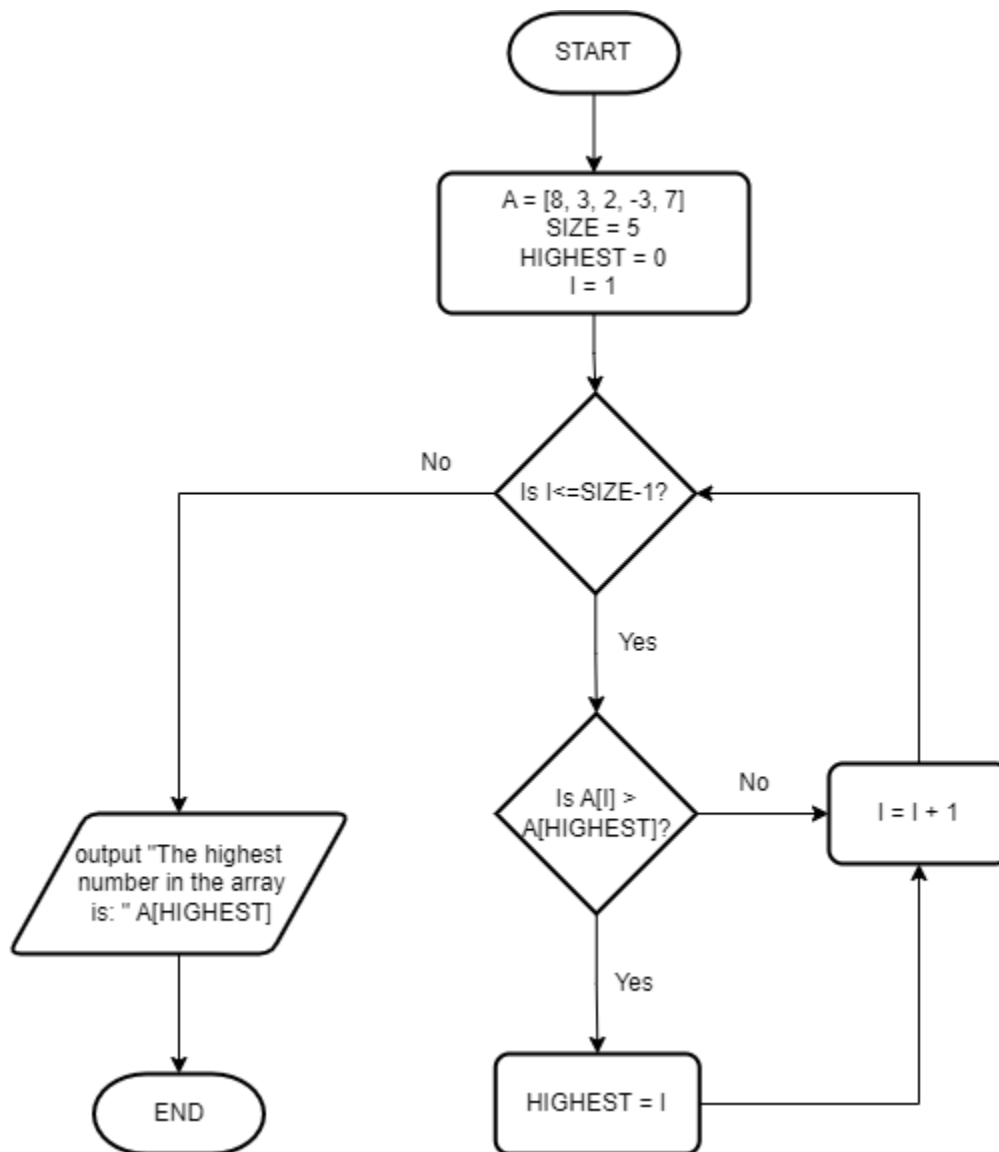
    end if

end loop

output "The highest number in the array is: " A[HIGHEST]



Flowchart:



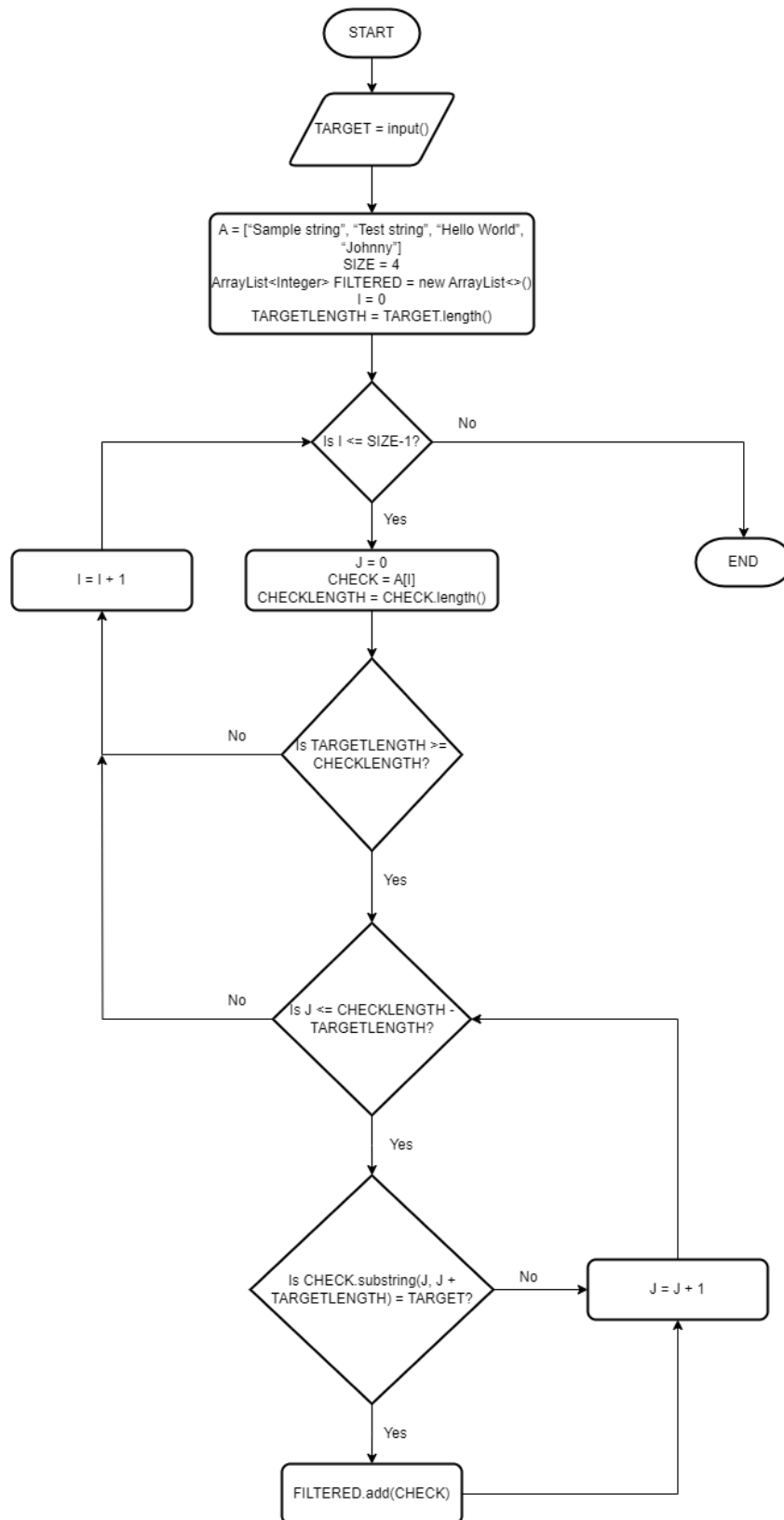
## Linear Searching:

- Used to filter table records by those with a certain substring in them.
- To be used in Salary Generator, Edit Employee Records, Salary History, Loan History, Edit SSS, Edit PhilHealth, Edit HDMF.

### Pseudocode:

```
TARGET = input()
A = ["Sample string", "Test string", "Hello World", "Johnny"]
SIZE = 4
ArrayList<Integer> FILTERED = new ArrayList<>()
I = 0
TARGETLENGTH = TARGET.length()
for I from 0 to SIZE - 1
    CHECK = A[I]
    CHECKLENGTH = CHECK.length()
    if TARGETLENGTH >= CHECKLENGTH then
        for J from 0 to CHECKLENGTH - TARGETLENGTH
            if CHECK.substring(J, J + TARGETLENGTH) = TARGET then
                FILTERED.add(CHECK)
            end if
        end loop
    end if
end loop
```

## Flowchart:



## Bubble Sorting:

- Used to sort jtable records by a certain column ascending or descending.
- To be used in Salary Generator, Edit Employee Records, Salary History, Loan History, Edit SSS, Edit PhilHealth, Edit HDMF.

### Pseudocode:

//Bubble Sort; Condition can be flipped depending on Ascending or Descending

//It is in ascending order.

A = [2, 4, 1, -7, 0]

SIZE = 5

FLAG = true

while FLAG = true

    FLAG = false

    I = 0

    for I from 0 to SIZE - 2

        if A[I] > A[I + 1] then

            FLAG = true

            temp = A[I + 1]

            A[I + 1] = A[I]

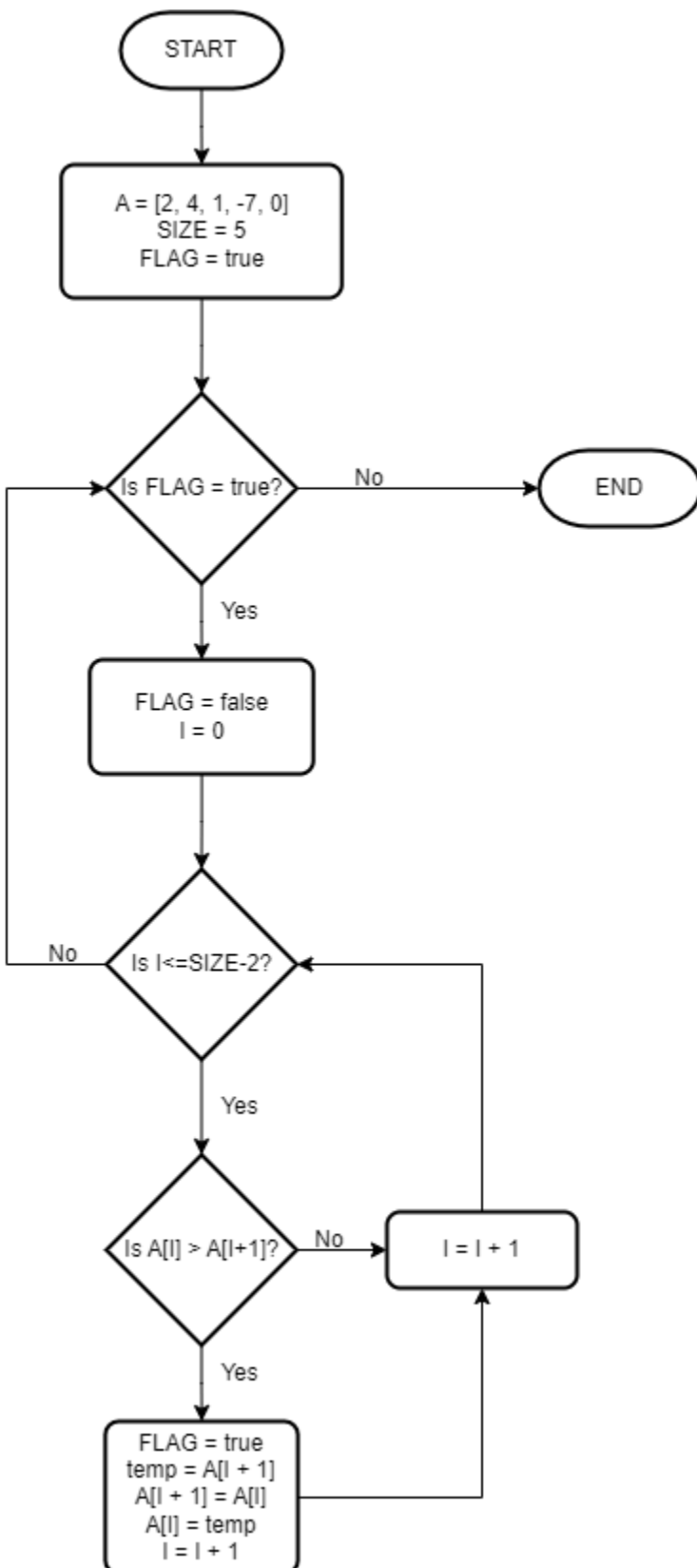
            A[I] = temp

        end if

    end loop

end loop

Flowchart:



## Email Validation:

- Used to validate emails.
- To be used in Login Page and Sign Up Page.

### Pseudocode:

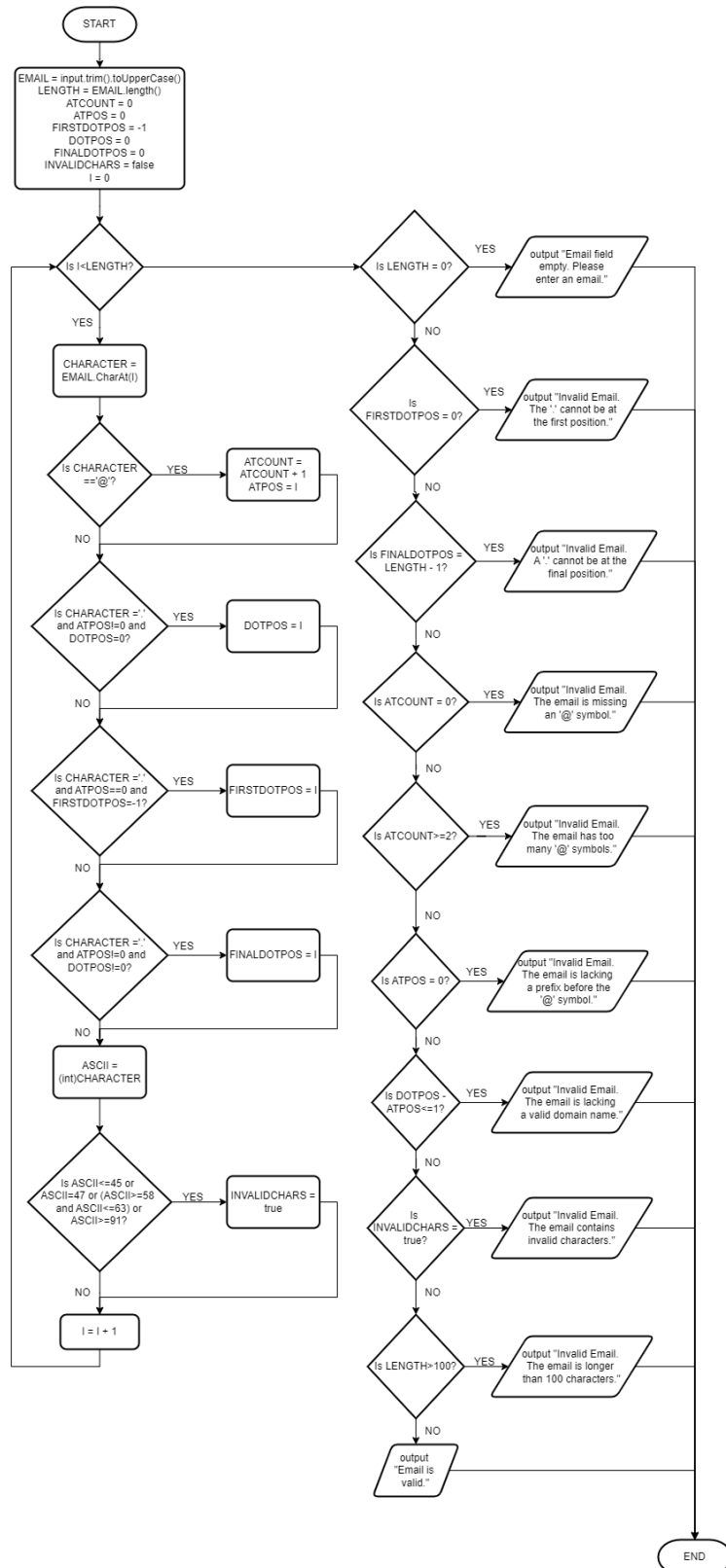
```
EMAIL = input.trim().toUpperCase()
LENGTH = EMAIL.length()
ATCOUNT = 0
ATPOS = 0
FIRSTDOTPOS = -1
DOTPOS = 0
FINALDOTPOS = 0
INVALIDCHARS = false
I = 0

for I from 0 to LENGTH - 1
    CHARACTER = EMAIL.charAt(I)
    if CHARACTER = '@'
        ATCOUNT = ATCOUNT + 1
        ATPOS = I
    end if
    if CHARACTER = '.' and ATPOS != 0 and DOTPOS = 0
        DOTPOS = I //the first '.' after the email
    end if
    if CHARACTER = '.' and ATPOS = 0 AND FIRSTDOTPOS = -1
        FIRSTDOTPOS = I //the first '.' before the email
    end if
    if CHARACTER = '.' and ATPOS != 0 and DOTPOS != 0
        FIRSTDOTPOS = I //the final '.'
    end if
    ASCII = (int)CHARACTER
    if ASCII<=45 or ASCII=47 or (ASCII>=58 and ASCII<=63) or ASCII>=91
        INVALIDCHARS = true
    end if
end loop

if LENGTH = 0
    JOptionPane.showMessageDialog(null, "Email Field Empty. Please enter an email.")
else if FIRSTDOTPOS = 0
    JOptionPane.showMessageDialog(null, "Invalid Email. The '.' cannot be at the first position.")
else if FINALDOTPOS = LENGTH - 1
```

```
        JOptionPane.showMessageDialog(null, "Invalid Email. The '.' cannot be at the first
position.")
    else if ATCOUNT = 0
        JOptionPane.showMessageDialog(null, "Invalid Email. The email is missing an '@'
symbol.")
    else if ATCOUNT >= 2
        JOptionPane.showMessageDialog(null, "Invalid Email. The email has too many '@'
symbols.")
    else if ATPOS = 0
        JOptionPane.showMessageDialog(null, "Invalid Email. The email is lacking a prefix
before the '@' symbol.")
    else if DOTPOS - ATPOS <= 1
        JOptionPane.showMessageDialog(null, "Invalid Email. The email is lacking a valid
domain name.")
    else if INVALIDCHARS = true
        JOptionPane.showMessageDialog(null, "Invalid Email. The email contains invalid
characters.")
    else if LENGTH > 100
        JOptionPane.showMessageDialog(null, "Invalid Email. The email is longer than 100
characters.")
    end if
```

## Flowchart:





## Test plan:

Form Name	Testing	Example of the Test	Success Criteria
Form 1 (Login)	<ul style="list-style-type: none"> <li>Register button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Register button sends the user to the sign up page</li> </ul>	1, 11
	<ul style="list-style-type: none"> <li>Password box hides password</li> </ul>	<ul style="list-style-type: none"> <li>Text typed into the password box appears as asterisks</li> </ul>	
	<ul style="list-style-type: none"> <li>JRadioButton toggles showing password</li> </ul>	<ul style="list-style-type: none"> <li>Activating the JRadioButton shows the password</li> </ul>	
	<ul style="list-style-type: none"> <li>Login button sends user to the main menu, but not if credentials are incorrect</li> </ul>	<ul style="list-style-type: none"> <li>A valid username and password sends the user to the main menu. Invalid throws an error message. Checks the database.</li> </ul>	
Form 2 (Sign Up)	<ul style="list-style-type: none"> <li>Back button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the back button sends the user to the login page</li> </ul>	1, 11
	<ul style="list-style-type: none"> <li>Password boxes hide password</li> </ul>	<ul style="list-style-type: none"> <li>Text typed into the password boxes appear as asterisks</li> </ul>	
	<ul style="list-style-type: none"> <li>JRadioButton toggles showing password</li> </ul>	<ul style="list-style-type: none"> <li>Activating the respective JRadioButton shows their respective passwords</li> </ul>	
	<ul style="list-style-type: none"> <li>Register button sends user to login page</li> </ul>	<ul style="list-style-type: none"> <li>If a user hasn't been made yet, then the system adds a new record to the USERS table. If one has been made already, an error message is shown.</li> </ul>	
Form 3 (Salary Generator)	<ul style="list-style-type: none"> <li>Log Out button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the log out button sends the user to the login page</li> </ul>	5, 6, 7, 8, 9, 10, 11
	<ul style="list-style-type: none"> <li>Edit SSS button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the edit SSS button sends the user to the Manipulate SSS Allocations Page.</li> </ul>	
	<ul style="list-style-type: none"> <li>Edit PH button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the edit PH button sends the user to the</li> </ul>	

		Manipulate PhilHealth Allocations Page.	
	<ul style="list-style-type: none"> <li>Edit HDMF button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the edit HDMF button sends the user to the Manipulate HDMF Allocations Page.</li> </ul>	
	<ul style="list-style-type: none"> <li>Salary History button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Salary History button sends the user to the Salary History page.</li> </ul>	
	<ul style="list-style-type: none"> <li>Loan History button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Loan History button sends the user to the Loan History page.</li> </ul>	
	<ul style="list-style-type: none"> <li>Edit Employee Records button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the edit employee records button sends the user to the Manipulate Employee Records page.</li> </ul>	
	<ul style="list-style-type: none"> <li>Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Deselect button clears all text fields and deselect the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>Save button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the save button saves all of SALARY_ALLOCATIONS's salary-related values in SALARY_HISTORY and all loan-related values to LOAN_HISTORY, throwing an error if the JTable is empty.</li> </ul>	
	<ul style="list-style-type: none"> <li>Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Update button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the update button updates the values of the record in the SALARY_ALLOCATIONS table if all JTextField values are valid and a record is selected. Otherwise an error message is</li> </ul>	

		shown.	
	<ul style="list-style-type: none"> <li>Print button works</li> </ul>	<ul style="list-style-type: none"> <li>The print button exports all JTable information in pdf form.</li> </ul>	
	<ul style="list-style-type: none"> <li>All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	
	<ul style="list-style-type: none"> <li>Social Security JComboBoxes are auto filled with values.</li> </ul>	<ul style="list-style-type: none"> <li>JComboBoxes for Social Security are automatically filled with choices pulled from the SSS, PhilHealth, and HDMF tables.</li> </ul>	
	<ul style="list-style-type: none"> <li>Startup of the window executes normally</li> </ul>	<ul style="list-style-type: none"> <li>When opened, a reminder is given to the user to do payroll if they haven't done it for that half-month yet.</li> </ul>	
Form 4 (Manipulate Employee Records)	<ul style="list-style-type: none"> <li>Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	2, 3, 4, 11
	<ul style="list-style-type: none"> <li>Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Update button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the update button updates the values of the record in the INFO table if all JTextField values are valid and a record is selected. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Add button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the add button adds a new record to INFO if all required JTextField values are valid and nonempty. Otherwise an error message is shown. It also adds a new empty record</li> </ul>	

		to SALARY_ALLOCATIONS.	
	<ul style="list-style-type: none"> <li>Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the delete button deletes the record from INFO if a record has been selected from the JTable. Otherwise an error message is shown. It then deletes the corresponding record in the SALARY_ALLOCATIONS table.</li> </ul>	
	<ul style="list-style-type: none"> <li>Delete All button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the delete all button deletes all the records from the INFO table and all corresponding records in the SALARY_ALLOCATIONS table.</li> </ul>	
	<ul style="list-style-type: none"> <li>All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	
Form 5 (Manipulate Salary History)	<ul style="list-style-type: none"> <li>Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	9, 11
	<ul style="list-style-type: none"> <li>Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Add button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the add button adds a new record to the SALARY_HISTORY table if all the JTextField values are valid and nonempty. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Delete button removes the record from the SALARY_HISTORY table if a</li> </ul>	

		record has been selected from the JTable. Otherwise an error message is shown.	
	<ul style="list-style-type: none"> <li>Print button works</li> </ul>	<ul style="list-style-type: none"> <li>The print button exports all JTable information in pdf form.</li> </ul>	
	<ul style="list-style-type: none"> <li>All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	
Form 6 (Manipulate Loan History)	<ul style="list-style-type: none"> <li>Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	9, 11
	<ul style="list-style-type: none"> <li>Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Add button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the add button adds a new record to the LOAN_HISTORY table if all the JTextField values are valid and nonempty. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Delete button removes the record from the LOAN_HISTORY table if a record has been selected from the JTable. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Print button works</li> </ul>	<ul style="list-style-type: none"> <li>The print button exports all JTable information in pdf form.</li> </ul>	
	<ul style="list-style-type: none"> <li>All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	

Form 7 (Manipulate SSS Allocations)	<ul style="list-style-type: none"> <li>Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	11
	<ul style="list-style-type: none"> <li>Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>Update button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the update button updates the values of the record in the SSS table if all JTextField values are valid and a record is selected. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Add button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the add button adds a new record to the SSS table if all the JTextField values are valid and nonempty. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the Delete button removes the record from the SSS table if a record has been selected from the JTable. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>Delete all button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the delete all button deletes all the records from the SSS table.</li> </ul>	
Form 8 (Manipulate PhilHealth Allocations)	<ul style="list-style-type: none"> <li>All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	11
	<ul style="list-style-type: none"> <li>Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	

	<ul style="list-style-type: none"> <li>• Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Clear Fields button clears all text fields</li> </ul>	
	<ul style="list-style-type: none"> <li>• Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>• Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Update button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the update button updates the values of the record in the PHILHEALTH table if all JTextField values are valid and a record is selected. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Add button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the add button adds a new record to the PHILHEALTH table if all the JTextField values are valid and nonempty. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Delete button removes the record from the PHILHEALTH table if a record has been selected from the JTable. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Delete all button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the delete all button deletes all the records from the PHILHEALTH table.</li> </ul>	
	<ul style="list-style-type: none"> <li>• All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>• All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	
Form 9 (Manipulate HDMF Allocations)	<ul style="list-style-type: none"> <li>• Salary Generator button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the salary generator button sends the user to the Salary Generator page.</li> </ul>	11
	<ul style="list-style-type: none"> <li>• Clear Fields button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Clear Fields button clears all text fields</li> </ul>	

	<ul style="list-style-type: none"> <li>• Deselect button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Deselect button deselects the JTable selection</li> </ul>	
	<ul style="list-style-type: none"> <li>• Sort button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the sort button sorts the table by the designated parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Reset button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the reset button sorts the table with no parameters.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Update button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the update button updates the values of the record in the HDMF table if all JTextField values are valid and a record is selected. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Add button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the add button adds a new record to the HDMF table if all the JTextField values are valid and nonempty. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Delete button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the Delete button removes the record from the HDMF table if a record has been selected from the JTable. Otherwise an error message is shown.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Delete all button works</li> </ul>	<ul style="list-style-type: none"> <li>• Clicking the delete all button deletes all the records from the HDMF table.</li> </ul>	
	<ul style="list-style-type: none"> <li>• All readonly values appear.</li> </ul>	<ul style="list-style-type: none"> <li>• All readonly values such as primary keys and foreign keys are automatically filled and calculated by the system.</li> </ul>	