



Employee Transfer Management System

Group 1 – C1212L – Bachkhoa-Aptech		
	Name	Roll No
Group Member	Hoàng Minh Đường (leader)	Student615110
	Nguyễn Văn Lưu	Student615106
	Vũ Hoàng	Student612987
	Nguyễn Văn Huy	Student612951
Instructor	Mr. Nguyễn Hùng Cường	

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⊕ ACKNOWLEDGEMENT

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairmen at the Head Office of Aptech Worldwide, Aptech – Vietnam, and Bachkhoa – Aptech center who have been organizing and looking after our studying course.

Our special thanks to Mr. Nguyễn Hùng Cường who works day by day to teach and guide us in our travel to discover the wonder of Java Programming Language. Also to mentor in eProject Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

Group 1 – C1212L

1. Problem Definition

1.1 Introduction:

The thirst for learning, upgrading technical skills and applying the concepts in real life environment at a fast pace is what the industry demands from IT professionals today. However busy work schedules, far-flung locations, and unavailability of convenient time-slots pose as major barriers when it comes to applying the concepts into realism. And hence the need to look out for alternative means of implementation in the form of laddered approach.

The above truly pose as constraints especially for our students too! With their busy schedules, it is indeed difficult for our students to keep up with the genuine and constant need for integrated application which can be seen live especially so in the field of IT education where technology can change on the spur of a moment. Well, technology does come to our rescue at such times!!

Keeping the above in mind and in tune with our constant endeavour to use Technology in our training model, we at Aptech have thought of revolutionizing the way our students learn and implement the concepts using tools themselves by providing a live and synchronous eProject learning environment!

1.2 Functional components of the project:

1) Login

- a) Employees
- b) System Administrator

2) Interface for filling up the following information

- a) Searching the transfer records.

The search can be based on the following fields :

- Employee Number
- Employee Name
- From Location
- To Location,
- From Project,
- To Project,
- From Department,

- Employee Transfer Management
- To Department etc

- b) Updating the transfer records.
- c) Making new transfers.(this can be combined with the update page by enabling and disabling the update and make transfer buttons.)

3) Employees can request for the transfer: design the form with appropriate interface.

4) Approval for the requested transfer.

5) Generate the allowances;the employee will be entitled forbased on the transfer location and his post.

6) Generate transfer letters.

7) Generate various reportslike employees transferred in particular month / time span, transfers happened for particular projects etc.

8) Logout

The Employee Master Recordmay contain the following fields (and some more which you wish to add):

- Employee Number,
- Employee Name,
- Role,
- Work Experience,
- Current Project,
- Current Location,
- Transfer Project,
- Transfer Location,
- Employee Transfer Management
- Current Department
- Transfer Department.
- Transfer Relieving Date
- Transfer Joining Date
- Reporting Manager.

1.3 Hardware and Software Requirements

	Client	Server
Hardware	<ul style="list-style-type: none">• CPU Pentium IV, 1.2 GHz (or better)• 512 Megabytes of RAM (or better)	<ul style="list-style-type: none">• CPU Pentium IV, 2.0 GHz (or better)• 1024 Megabytes of RAM (or better)
Software	<ul style="list-style-type: none">• Windows XP (or higher)	<ul style="list-style-type: none">• SQL Server 2008

2. Customer Requirements Specification

2.1 Users of the System

- ❖ Administrator
- ❖ Employee

2.2 System functions

- ❖ Admin:

1. Login

Description	To allow the Administrator login.
Input	Email and password.
Process	Check email and password in database.
Output	Display the result login.

2. Project Management

Description	Administrator can add, edit , delete,search project .
Input	Information of user.
Process	Insert, update , delete or search information into database.
Output	Display message box successful or display result on data table view.

3. Department Management

Description	Administrator can add, edit , delete,view ,search department.
Input	Information of department.
Process	Insert, update , delete or search information into database.
Output	Display message box unsuccessful or display on data table view.

4. Location Management

Description	Administrators can add, edit, delete, search and view location.
Input	Information of location.
Process	Insert,search, update or delete information into database.
Output	Display message box successful or display result on data table view.

5. Employee Management.

Description	Administrator can add, edit, delete, search and view employee.
Input	Information of employee.
Process	Insert, update,delete or search information into database.
Output	Display message box unsuccessful or display on data table view.

6. Administrator Management.

Description	Administrator who has role higher , can add, edit, delete, search and view administrators ,who have role lower .
Input	Information of administrator.
Process	Insert, update,delete or search information into database.
Output	Display message box unsuccessful or display on data table view.

7. Log out.

Description	To allow the admin logout.
Input	Action to logout.
Process	Escape from program's system.
Output	Back to login form.

8. Transfer Management

Description	To allow add,update,delete,search and view transfer.
Input	Information of Transfer.
Process	Insert, update or delete,update,search information into database.
Output	Display message box unsuccessful or display on data table view.

9. Change Password

Description	To allow admin change password.
Input	Old and new password.
Process	Update information into database.
Output	Display message box successful or unsuccessful.

❖ Employee:

1. Login

Description	To allow employee login.
Input	Email and password.
Process	Check email and password in database.
Output	Display the result login.

2. View information personal,imformation work and view transfer history

Description	View information personal and imformation work
Input	Account of employee
Process	Load information
Output	Display information personal,imformation work and view transfer history

3. Change Password.

Description	To allow employee change password.
Input	Old and new password.
Process	Update information into database.
Output	Display message box successful or unsuccessful.

4. Transfer request.

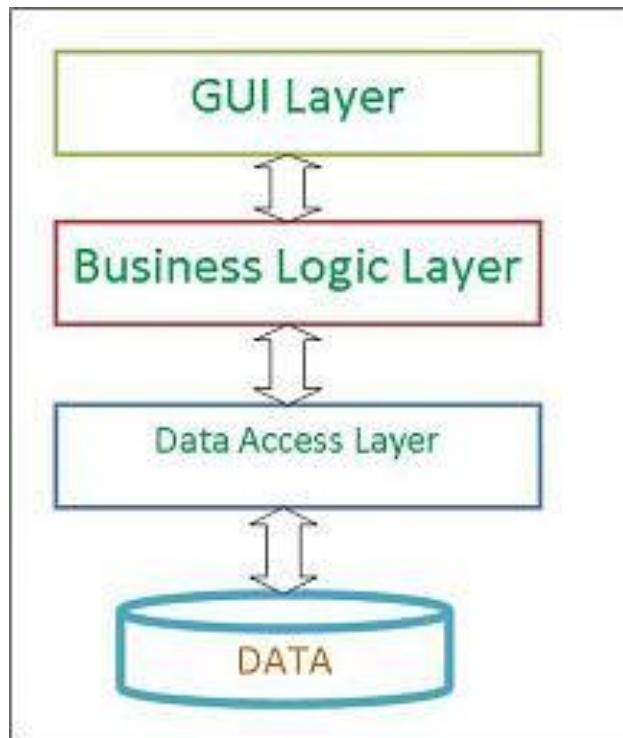
Description	To allow employee transfer request.
Input	Information of transfer request.
Process	Insert information of transfer request in database.
Output	Display message box successful or unsuccessful.

5. Log out.

Description	To allow the interviewer logout employee
Input	Action to logout.
Process	Escape from program's system.
Output	Display message and back to login form.

3. Architecture & Design of the Project

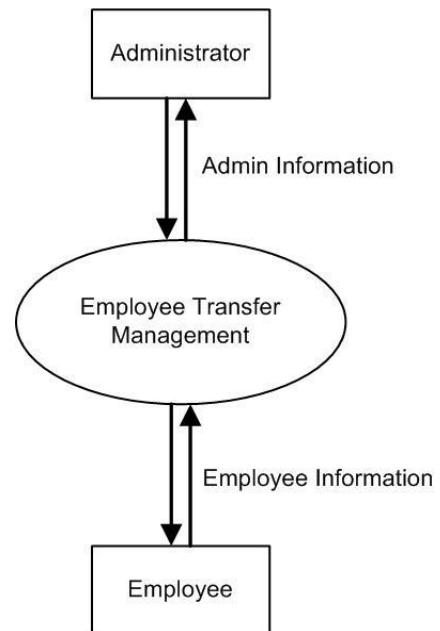
3.1 Architecture



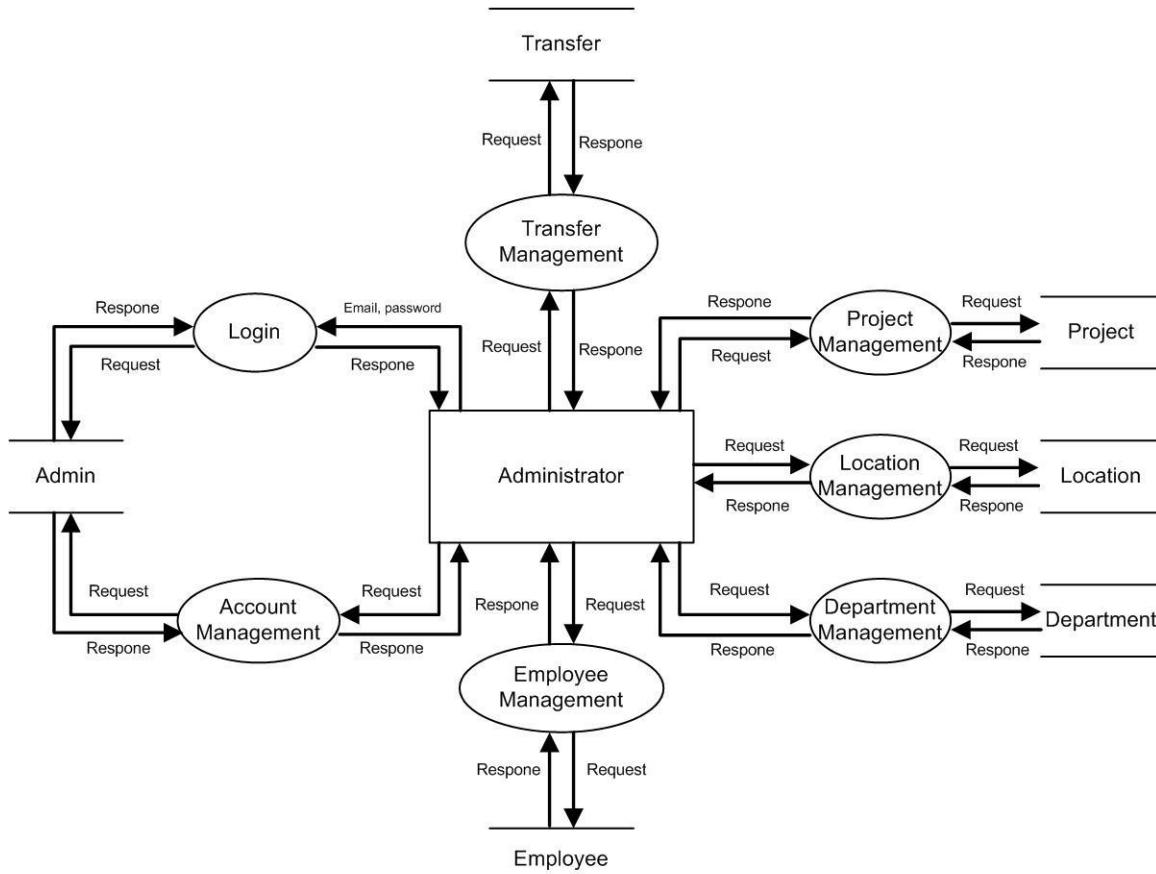
3-Tier Architecture of the Project

3.2 DFD

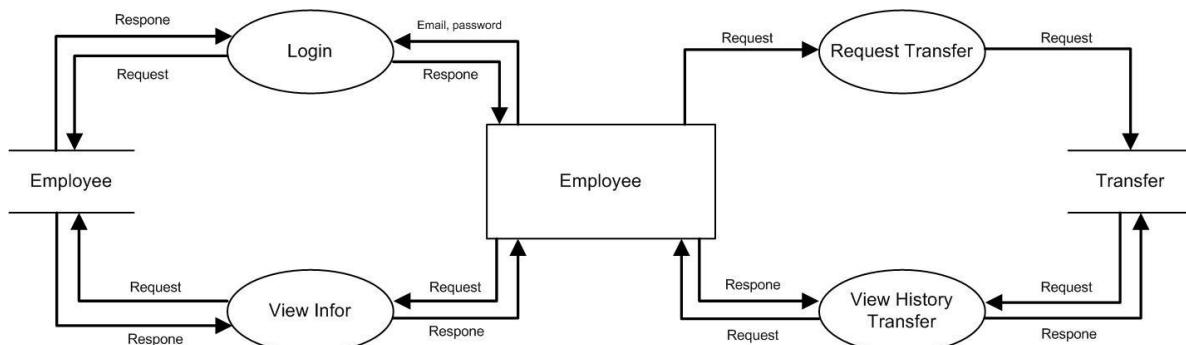
3.2.1 Level 0



3.2.2 Level 1

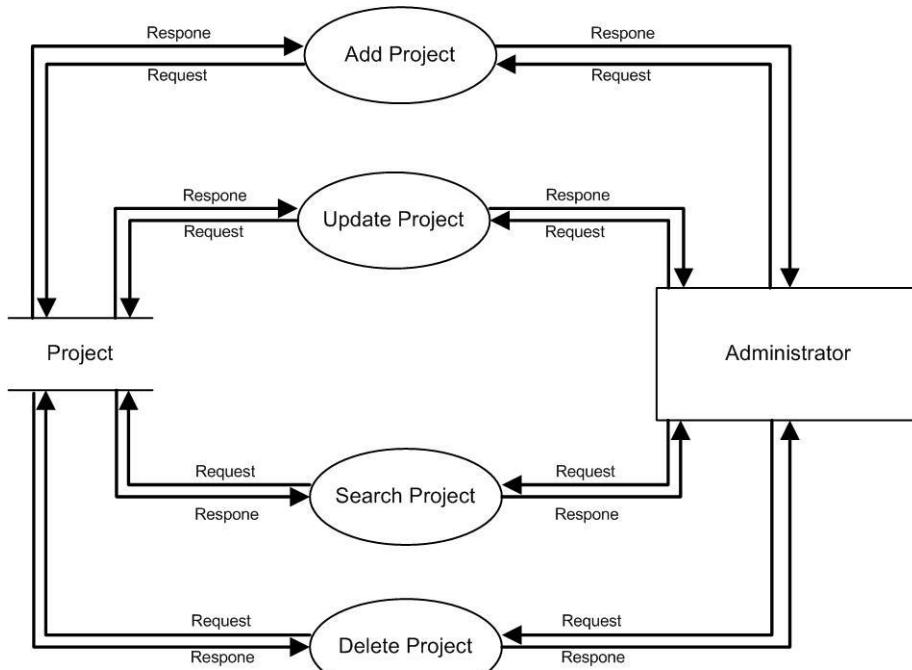


Admin Level 1

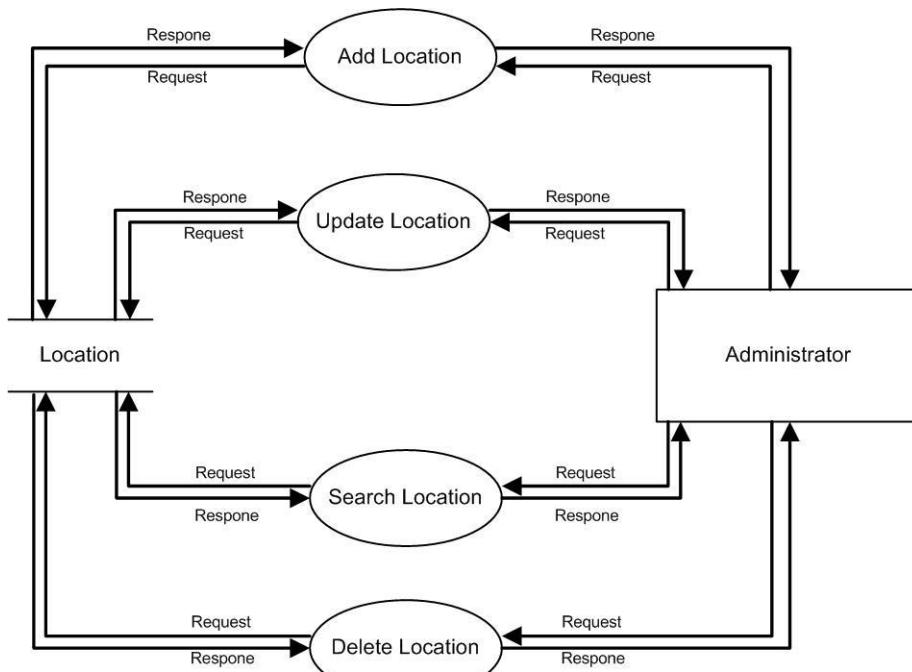


Employee Level 1

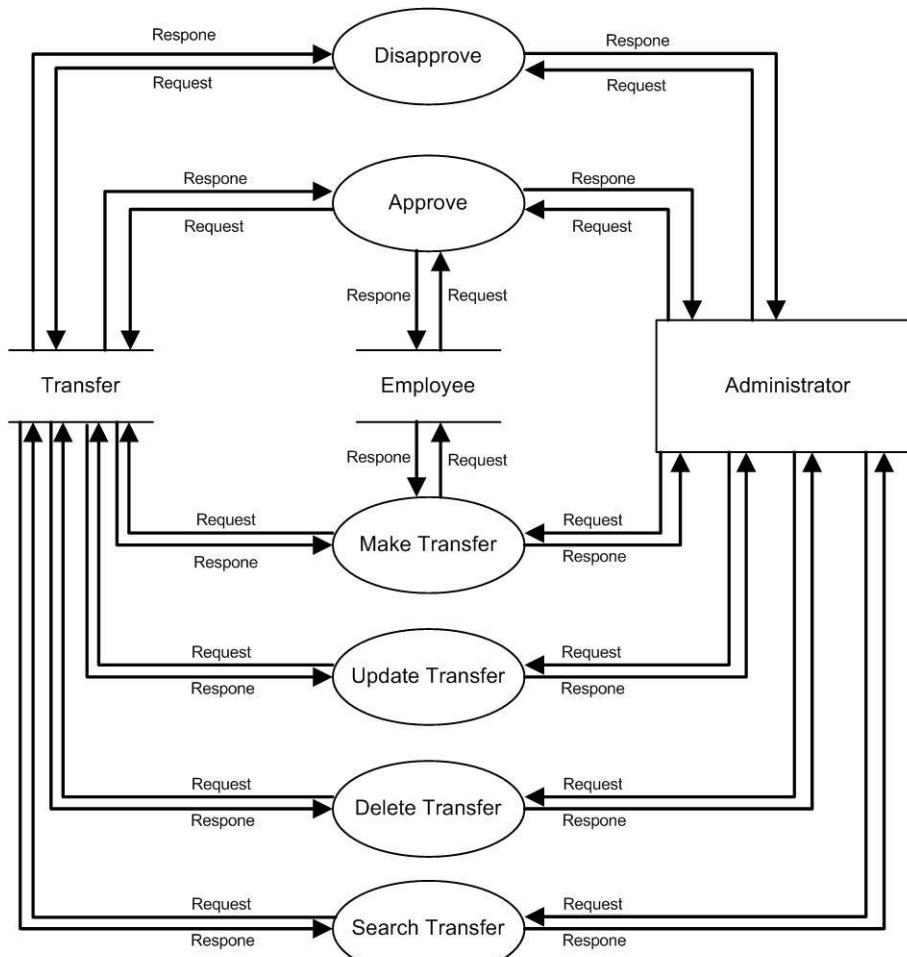
3.2.3 Level 2



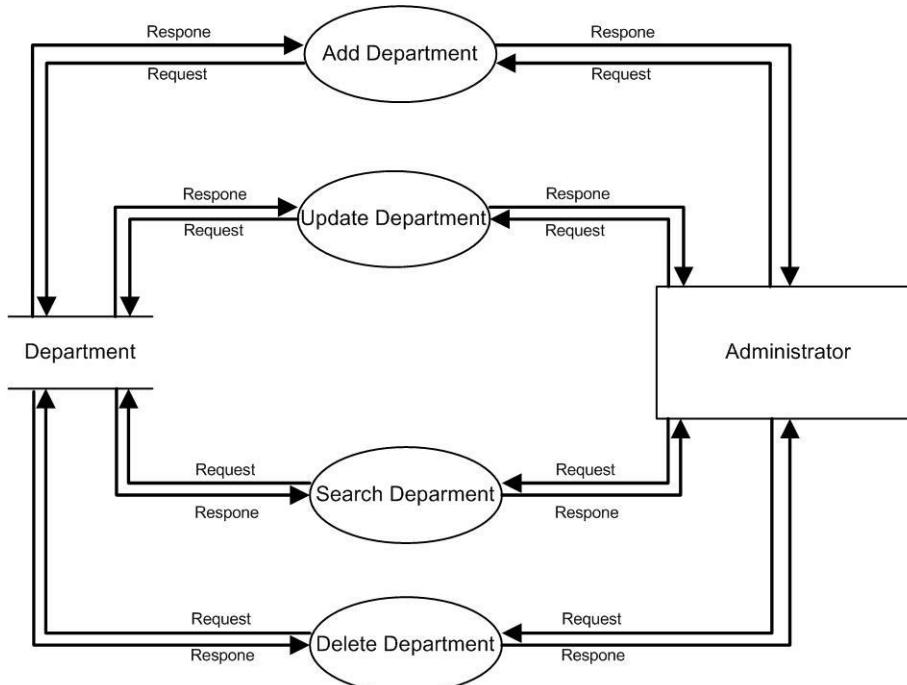
Project Management Level 2



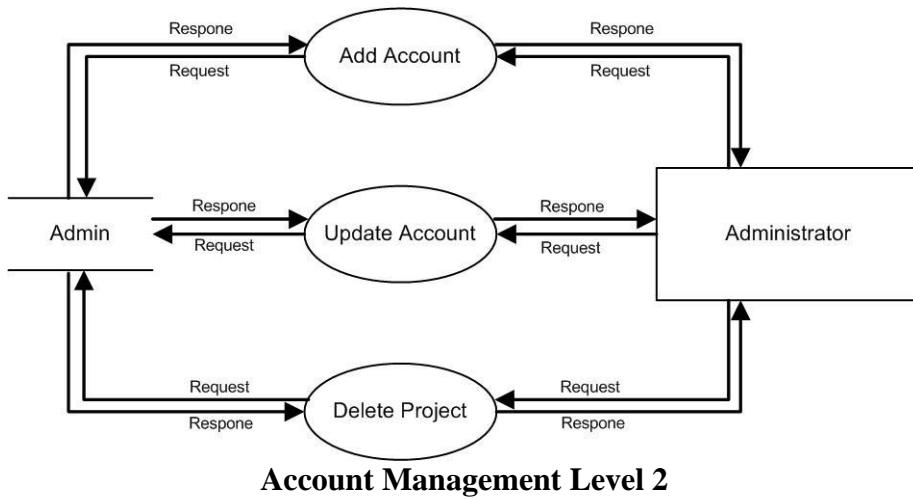
Location Management Level 2



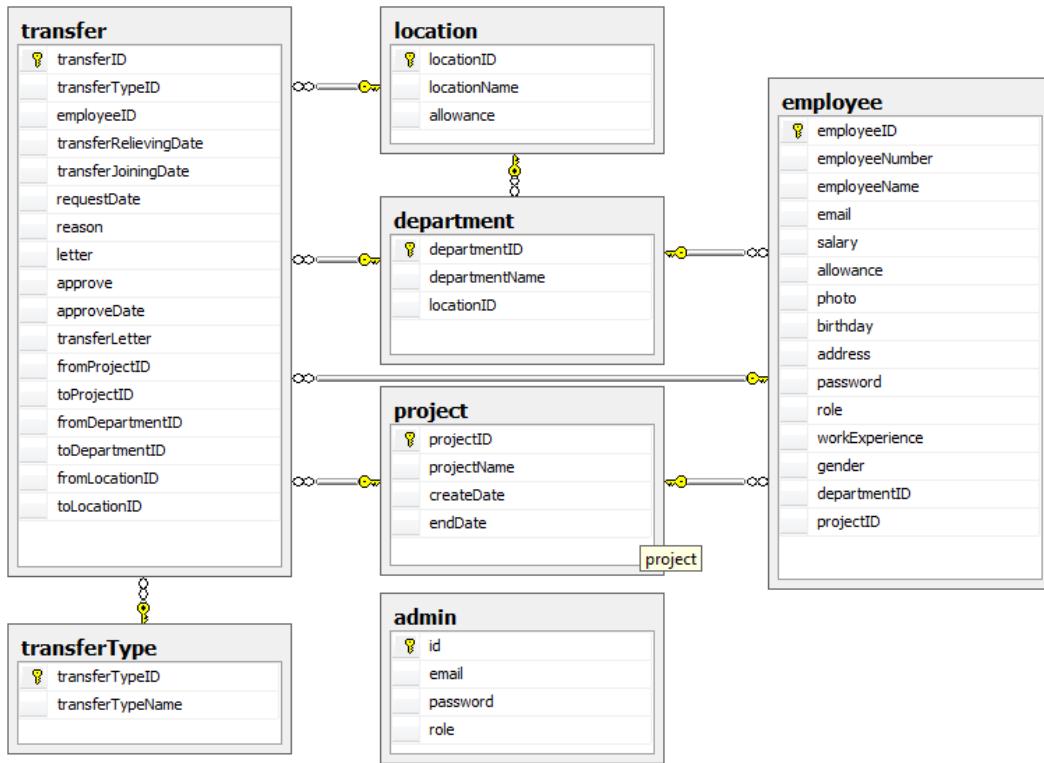
Transfer Management Level 2



Department Management Level 2



4. Database Design



Department				
Fields	Data Type	Is Null	References	Description
departmentID	Int(identity)	No	Primary Key	Department which has got the location
departmentName	Nvarchar(10)	No		This field should also be unique for a person because no two departments in an organization can have the same name.
locationID	int	No	Foreign Key	Location of department

Employee				
Fields	Data Type	Is Null	References	Description
employeeID	Int(identity)	No	Primary Key	Employee ID
employeeNumber	Varchar(20)	No		This field should also be unique for a person because no two employees in an organization can have the same number.
employeeName	Nvarchar(200)	No		Name of employee
email	varchar(100)	No		This field should also be unique for a person because no two employees in an organization can have the same email.
salary	Float	Yes		Salary of employee
birthday	Date	Yes		Birthday of employee
address	Nvarchar(200)	Yes		Address of employee
password	Varchar(50)	No		Password
role	Nvarchar(100)	Yes		Role of employee
workExperience	Int	Yes		Work Experience
gender	Bit	Yes		Gender of employee
departmentID	Int	No	Foreign Key	Department which has got the location
projectID	Int	No	Foreign Key	Project ID
allowance	float	Yes		Allowance of employee

Project				
Fields	Data Type	Is Null	References	Description
projectID	Int(identity)	No	Primary Key	Project ID
projectName	Nvarchar(200)	No		This field should also be unique for a person because no two projects in an organization can have the same name.
createDate	Date	Yes		Create date of project
endDate	Date	Yes		End date of project

Location				
Fields	Data Type	Is Null	References	Description
locationID	Int(identity)	No	Primary Key	Location ID
locationName	Nvarchar(200)	No		This field should also be unique for a person because no two locations in an organization can have the same name.
allowance	float	Yes		Allowance of location

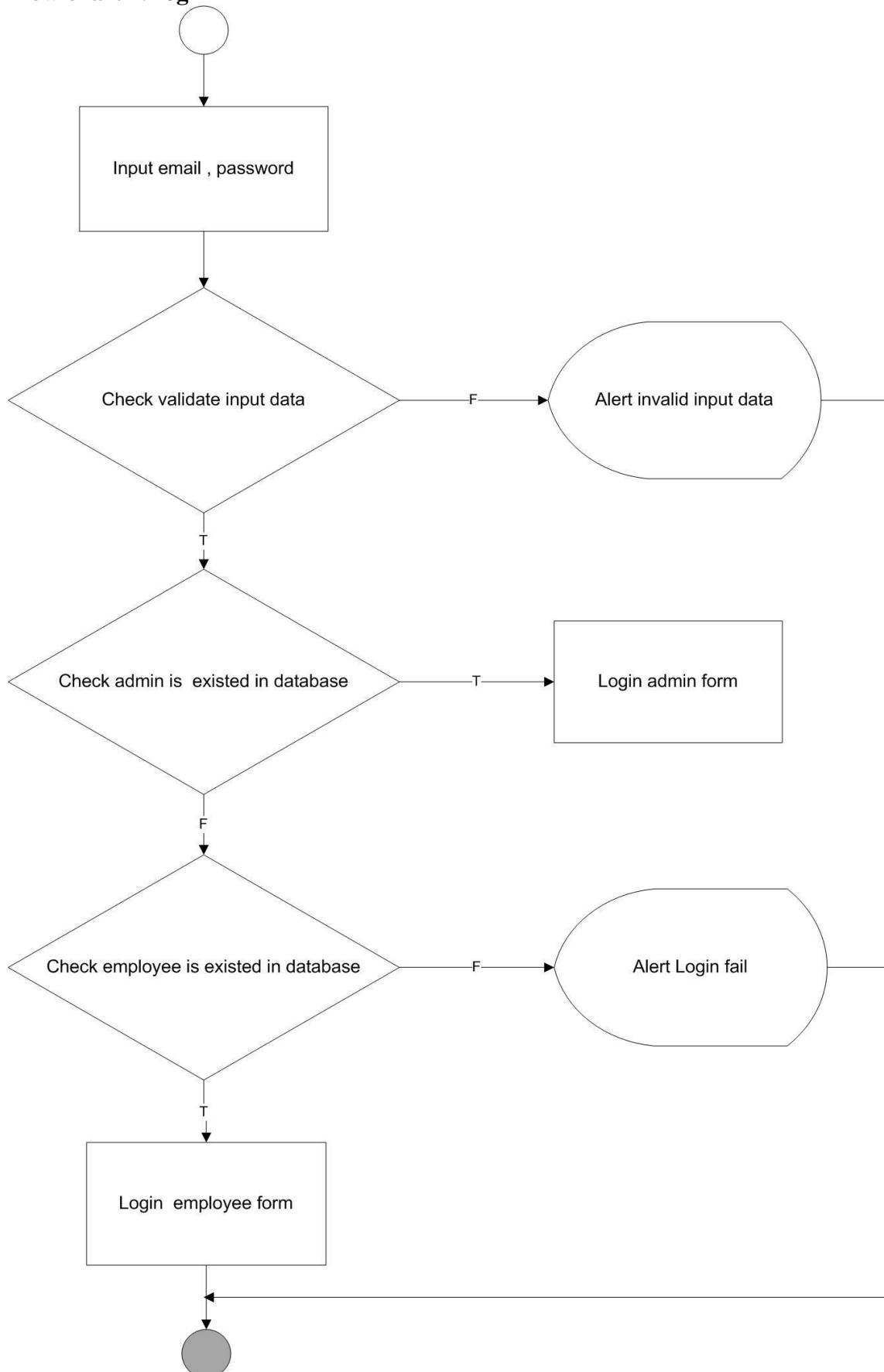
Transfer Type				
Fields	Data Type	Is Null	References	Description
transferTypeID	Int(identity)	No	Primary Key	Transfer Type ID
transferTypeName	Nvarchar(200)	No		This field should also be unique for a person because no two transfer type in an organization can have the same name.

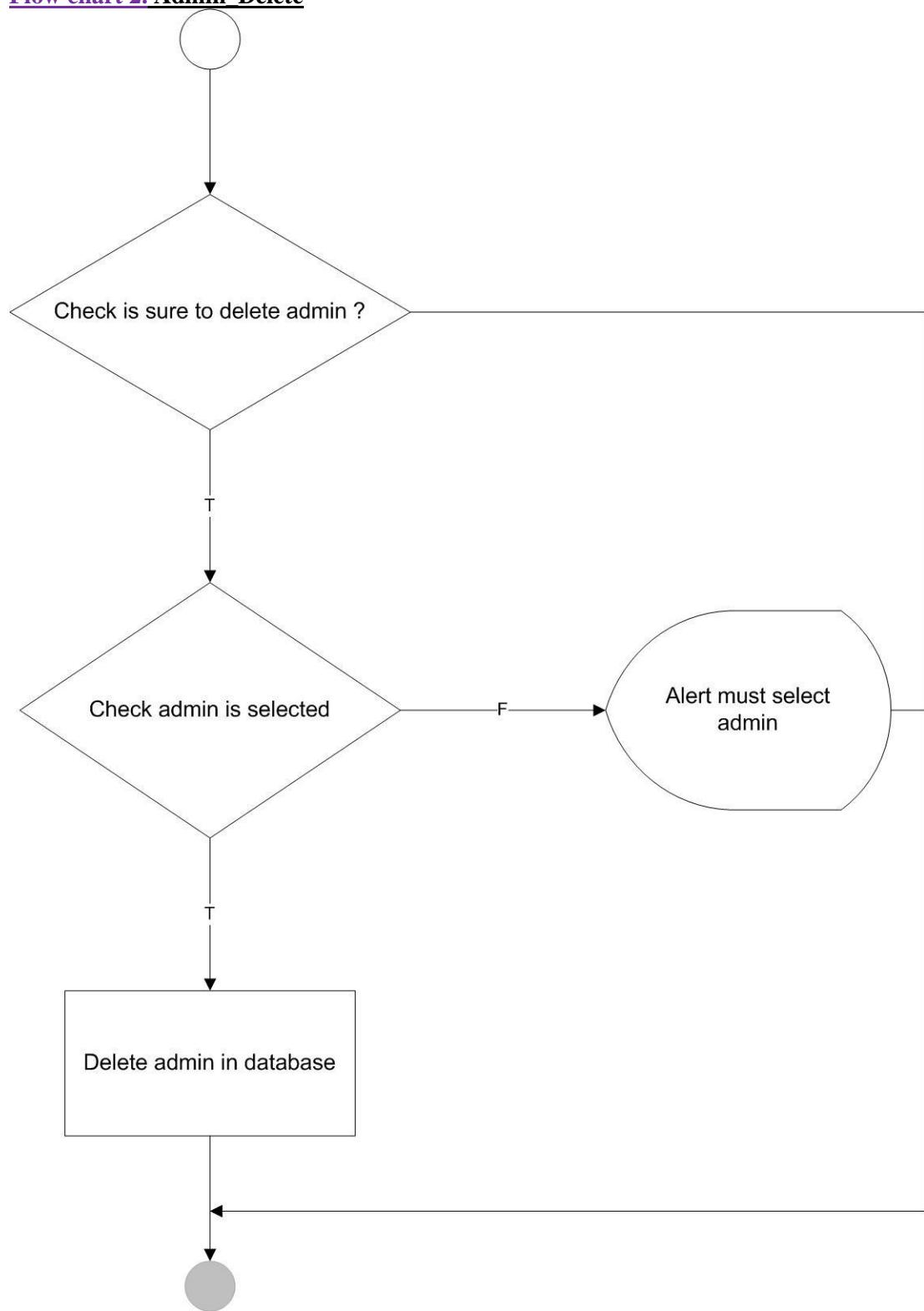
Admin				
Fields	Data Type	Is Null	References	Description
id	Int(identity)	No	Primary Key	ID of Admin
email	Varchar(100)	No		This field should also be unique for a person because no two admin in an organization can have the same email.
role	Int	No		Role of Admin
password	Varchar(100)	No		Password of Admin

Transfer				
Fields	Data Type	Is Null	References	Description
transferID	Int(identity)	No	Primary Key	Transfer ID
transferTypeID	Int	No	Foreign Key	Transfer Type ID
employeeID	Int	No	Foreign Key	Employee ID
transferRelievingDate	Date	Yes		Transfer Relieving Date
transferJoiningDate	Date	Yes		Transfer Joining Date
requestDate	Date	Yes		Request Date
reason	Text	Yes		Reason
approve	Int	No		Approve
approveDate	Date	Yes		Approve Date
transferLetter	Text	Yes		Transfer Letter
fromProjectID	Int	Yes	Foreign Key	From Project ID
toProjectID	Int	Yes	Foreign Key	To Project ID
fromDepartmentID	Int	Yes	Foreign Key	From Department ID
toDepartmentID	Int	Yes	Foreign Key	To Department ID
fromLocationID	Int	Yes	Foreign Key	From Location ID
toLocationID	Int	Yes	Foreign Key	To Location ID

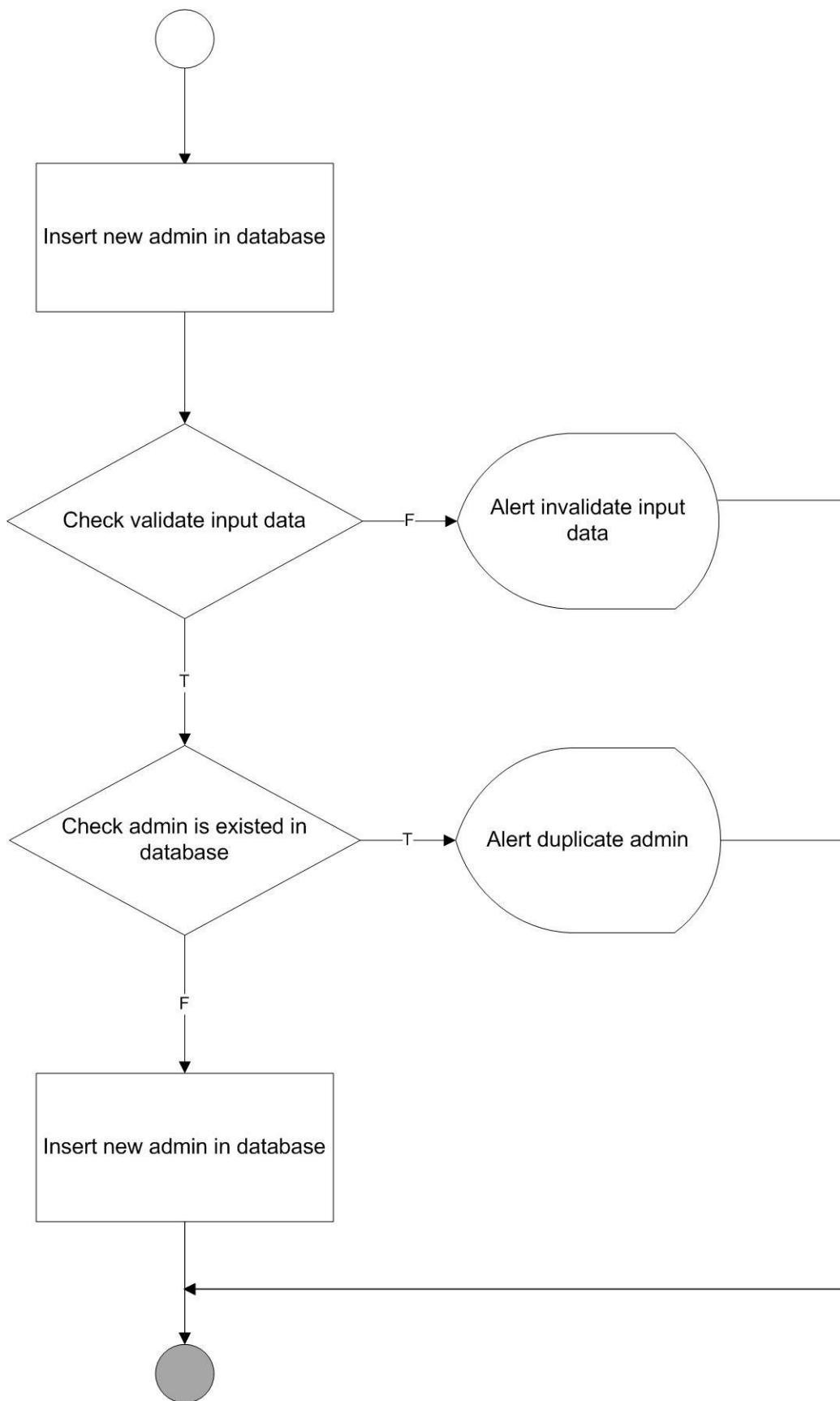
5. Algorithms

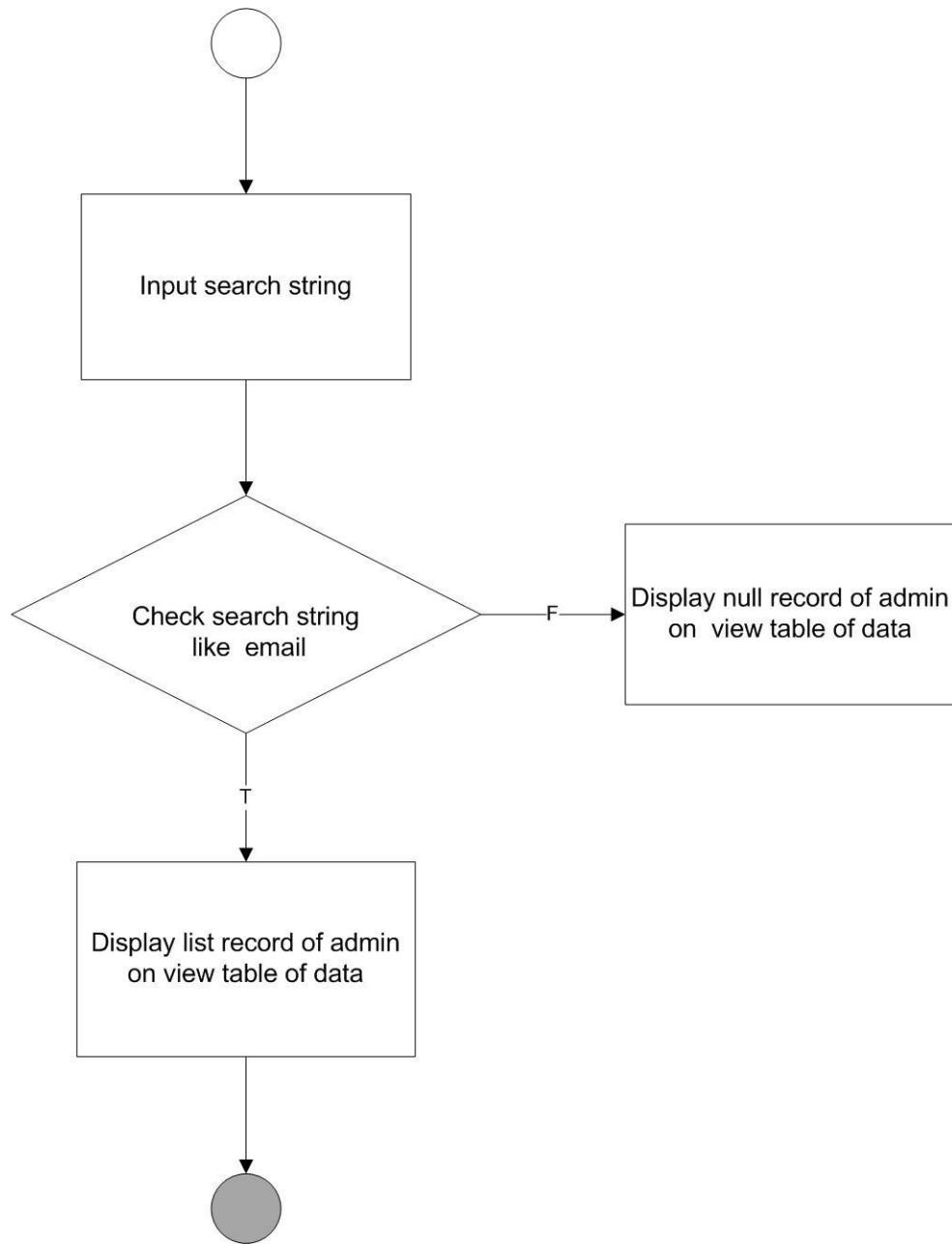
Flow chart 1. Login



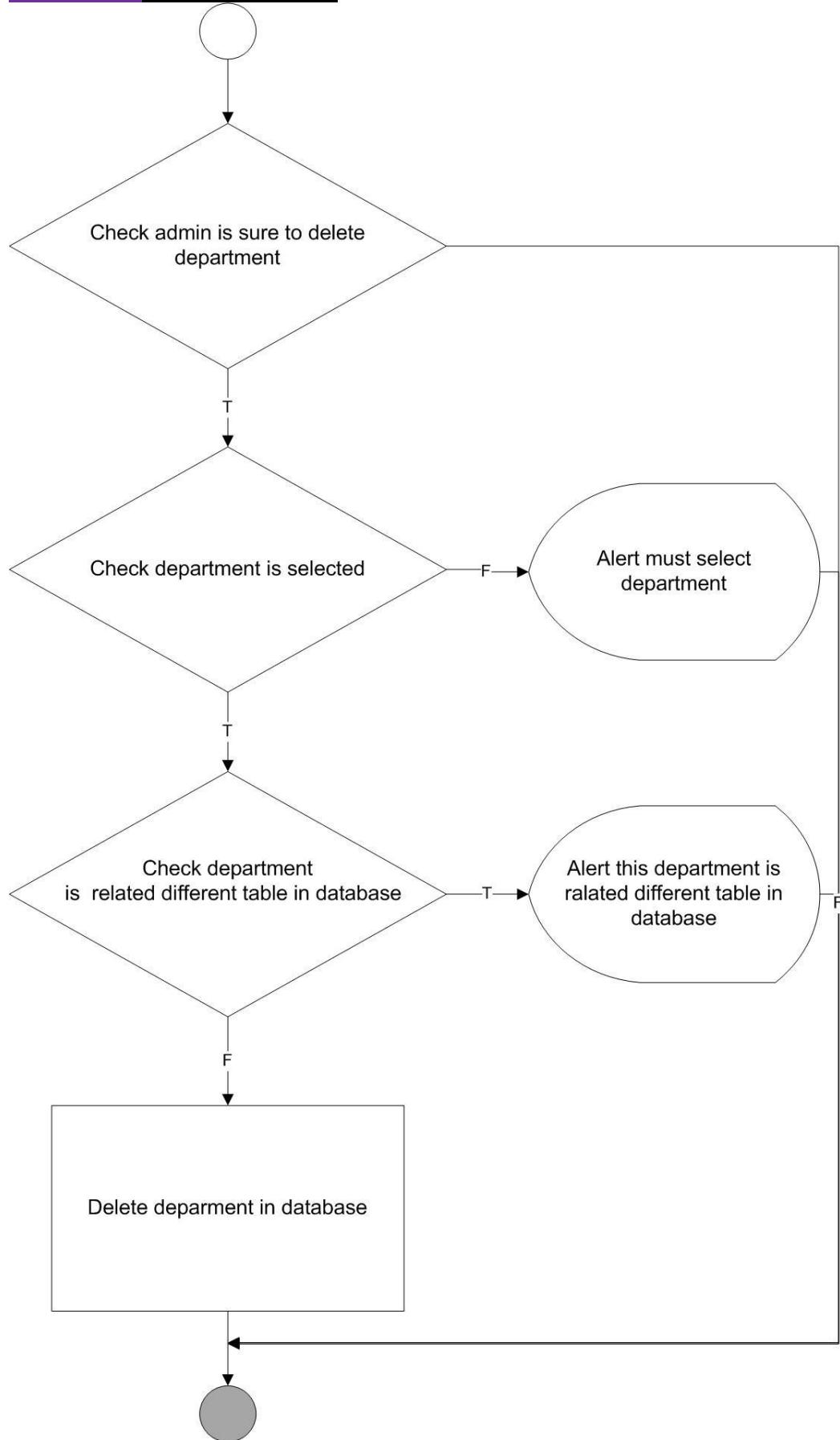
Flow chart 2. Admin Delete

Flow chart 3. Admin Insert

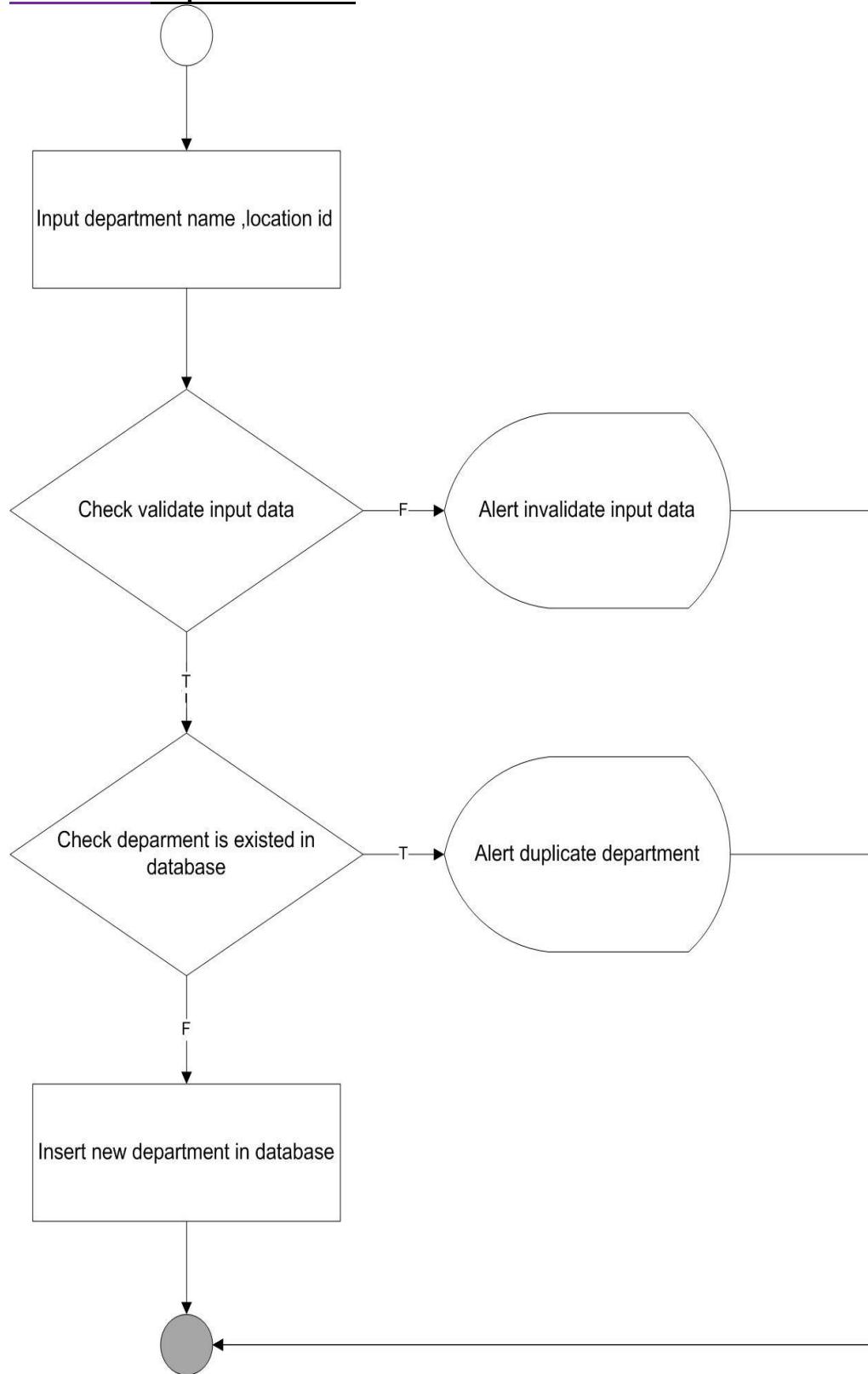


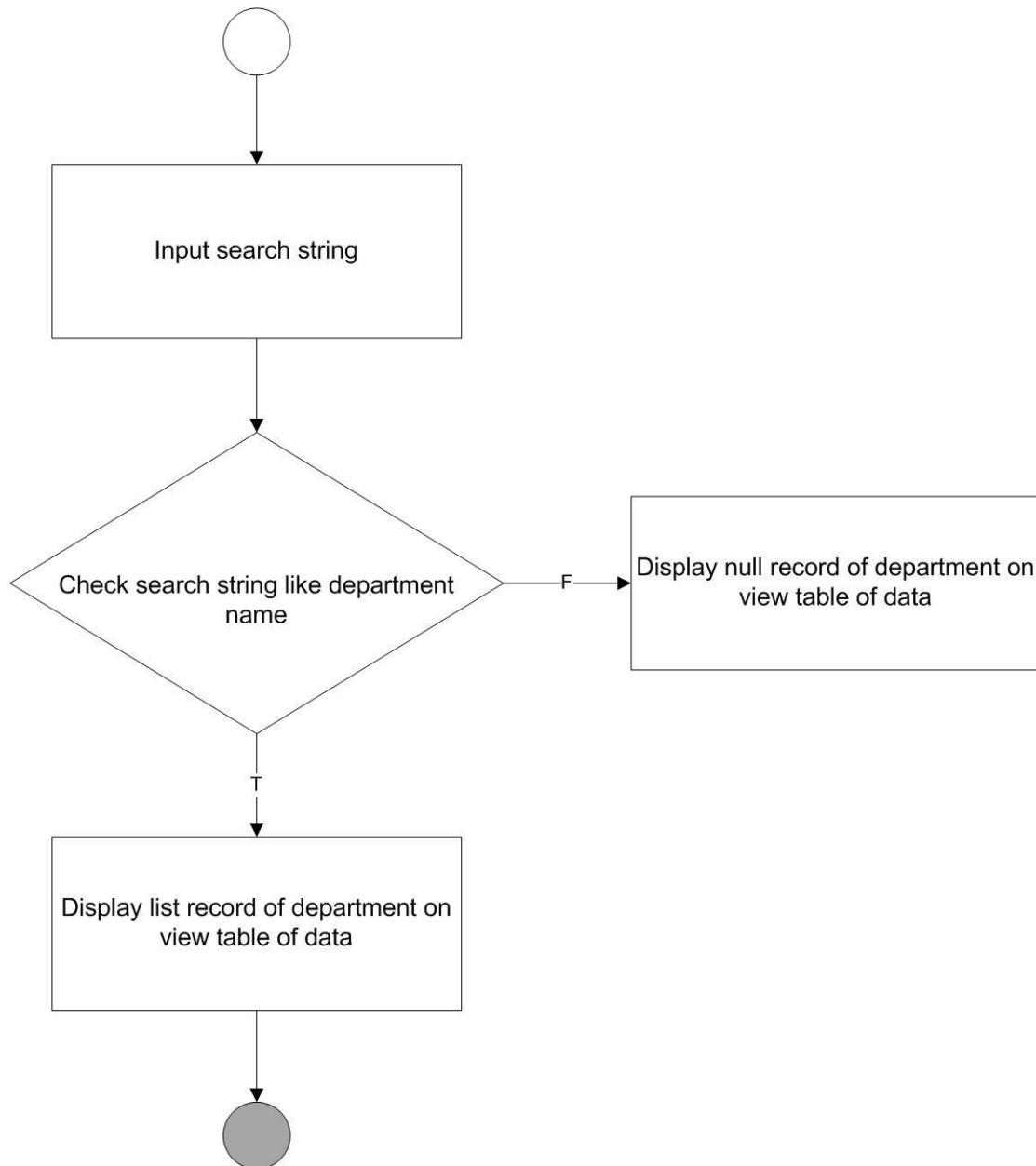
Flow chart 4. Admin Search

Flow chart 5. Department Delete

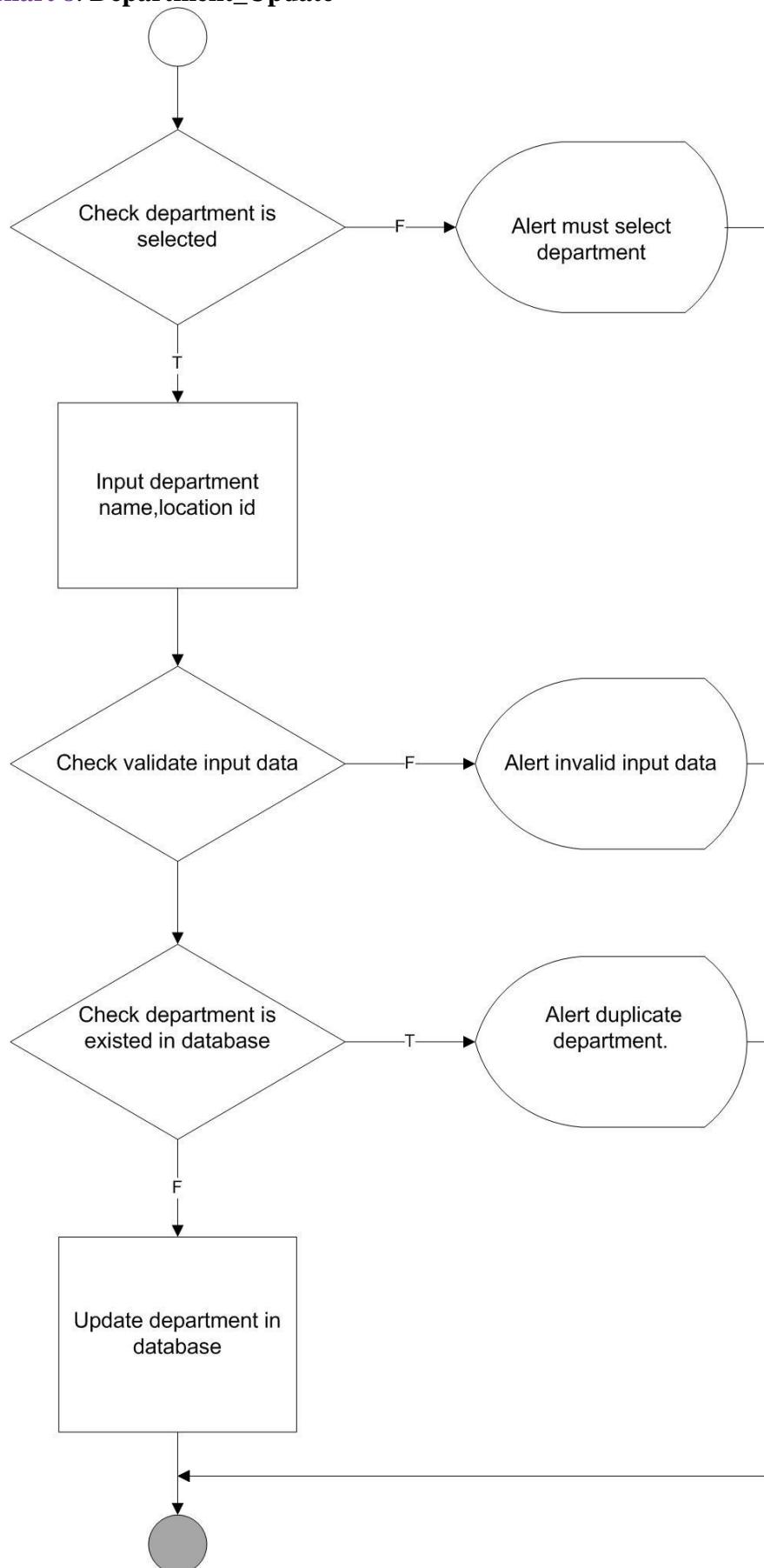


Flow chart 6. Department Insert

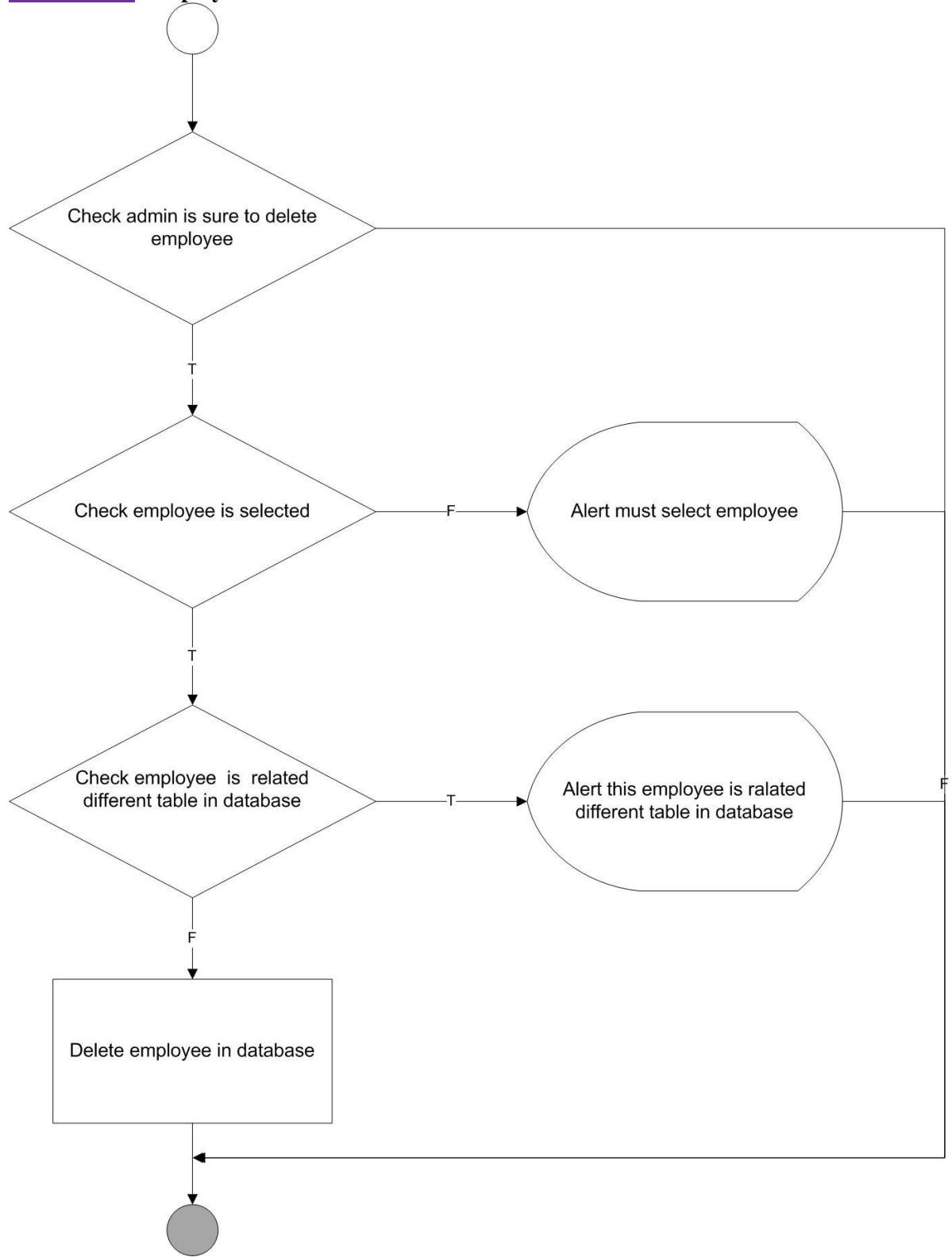


Flow chart 7. Department Search

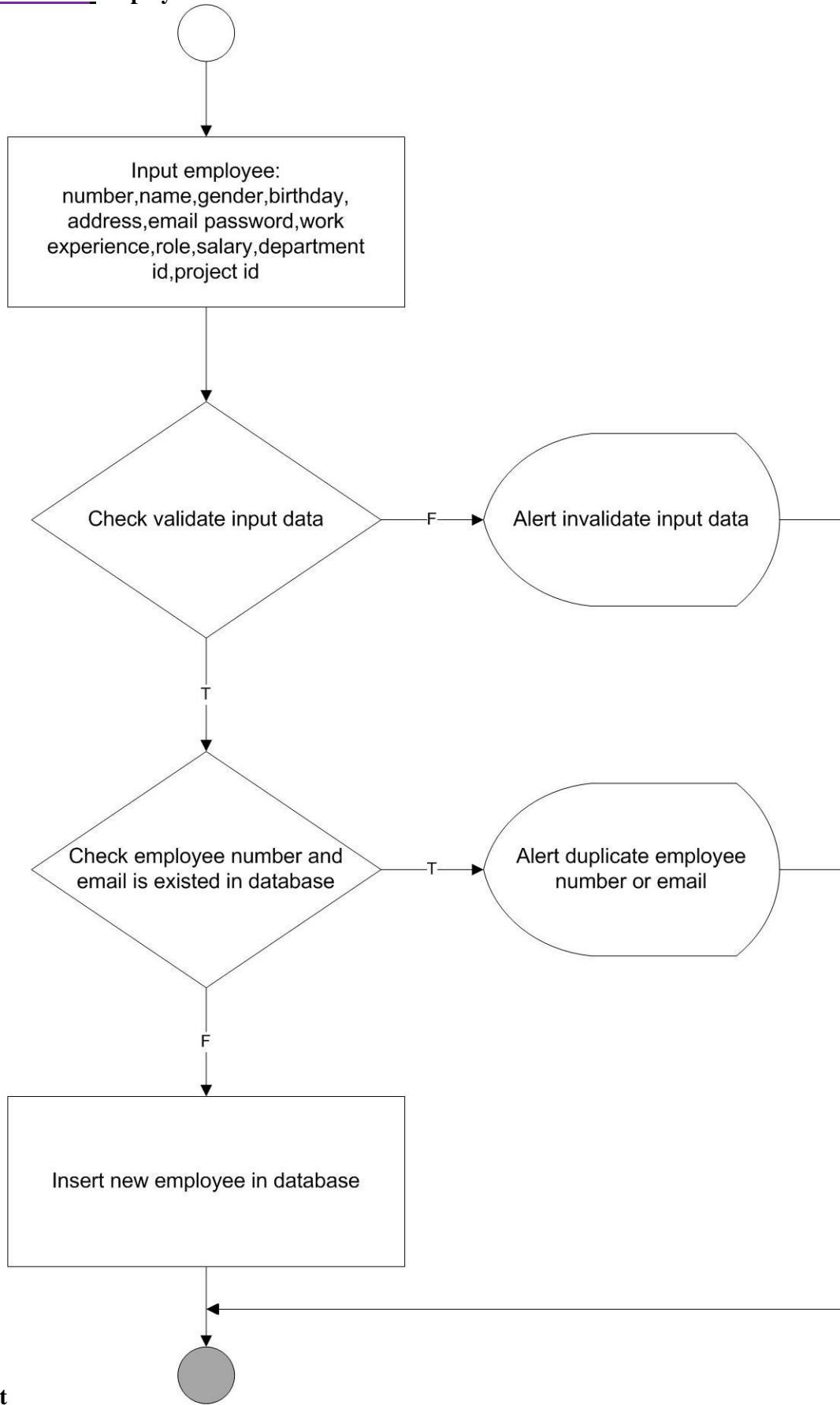
Flow chart 8. Department_Update



Flow chart 9. Employee Delete

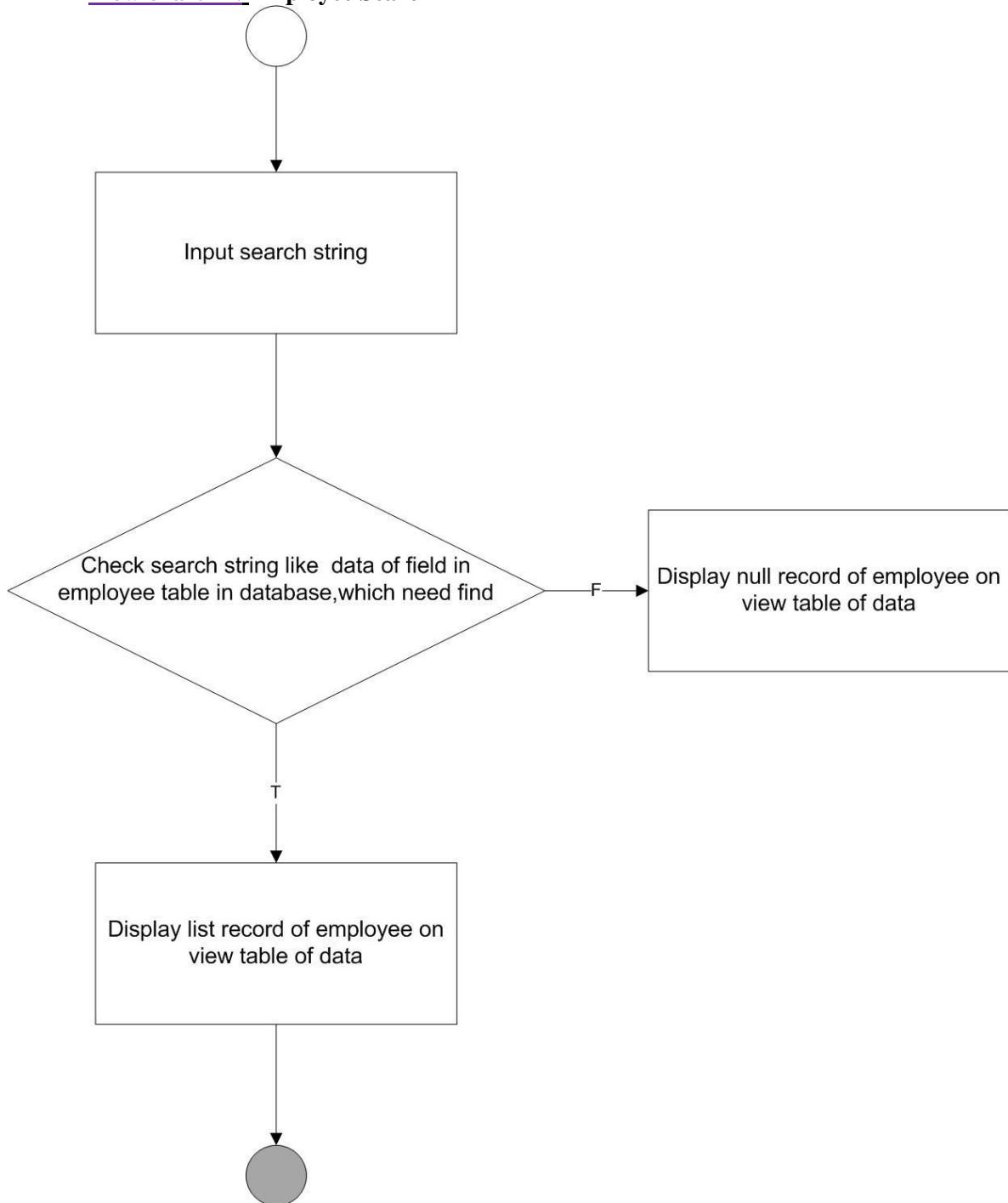


Flow chart 10. Employee

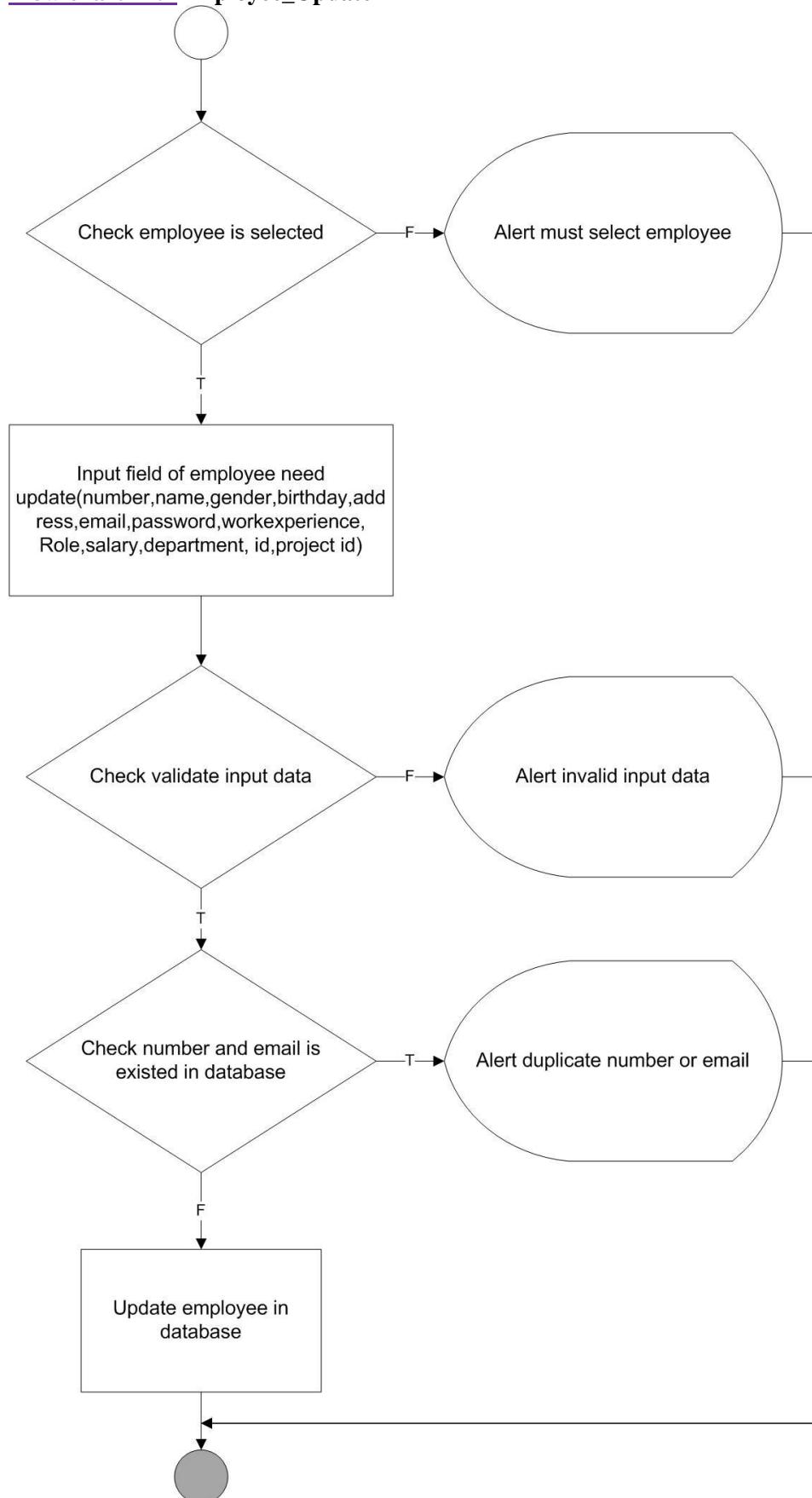


Insert

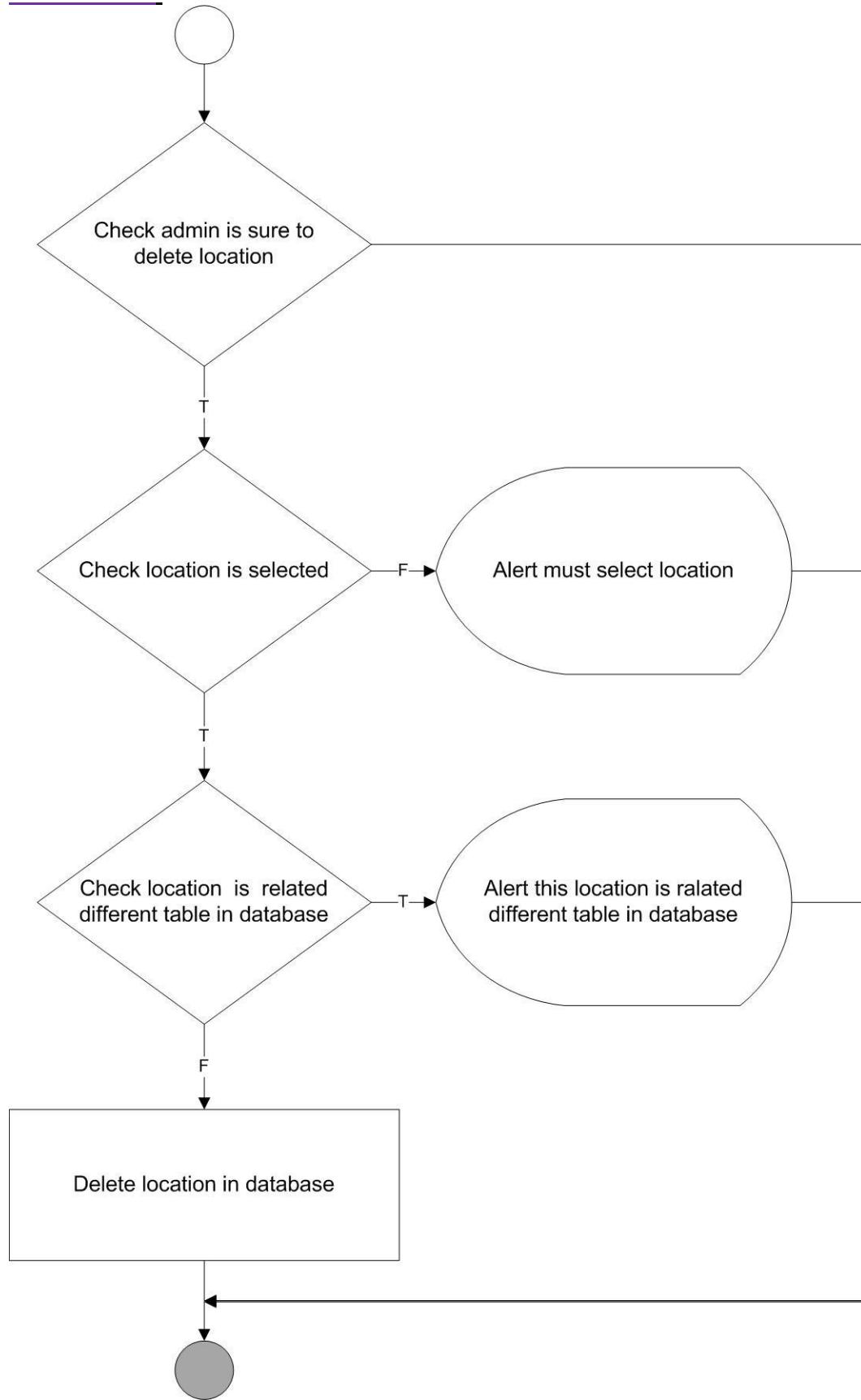
Flow chart 11. Employee Search



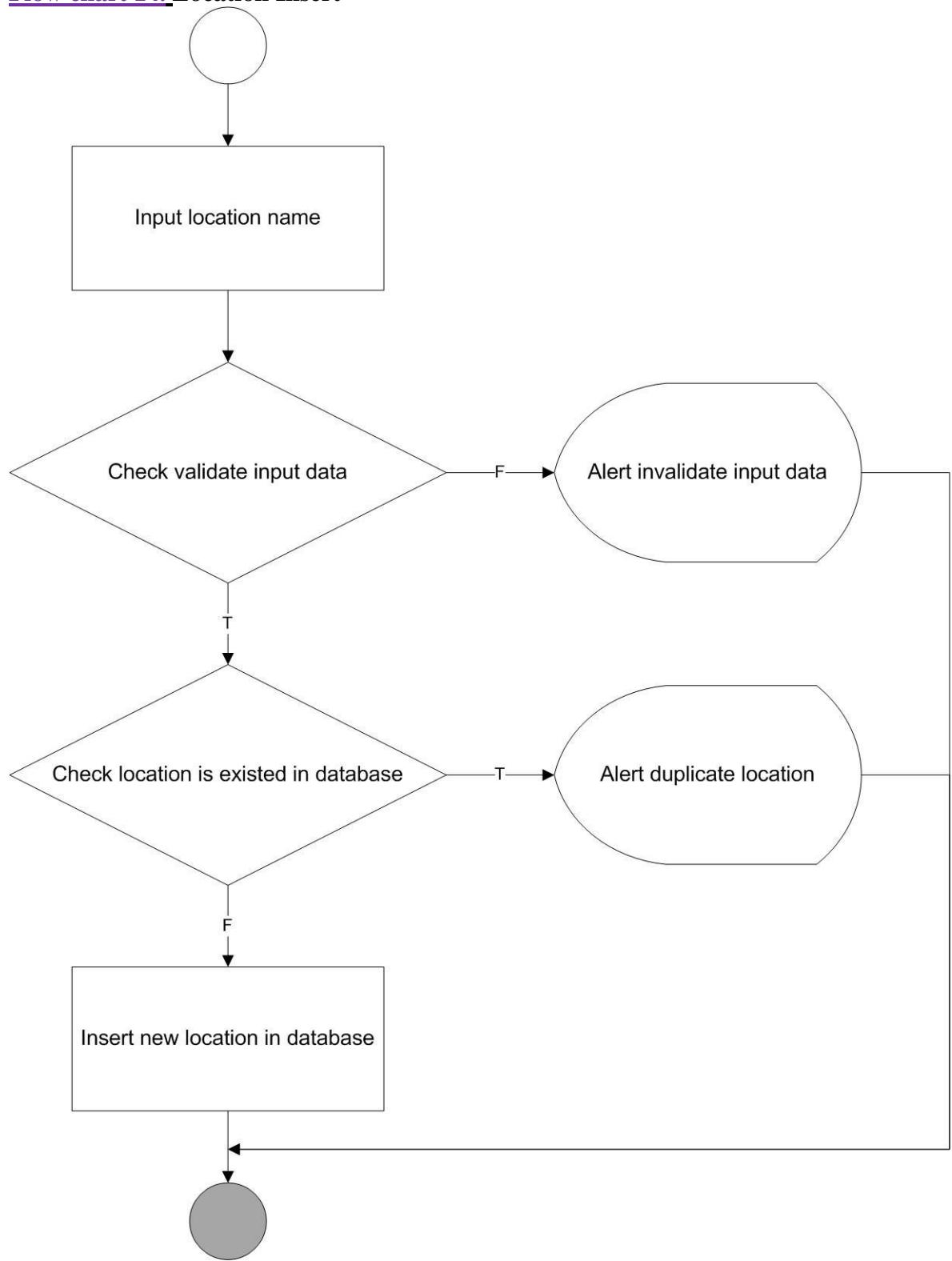
Flow chart 12: Employee_Update

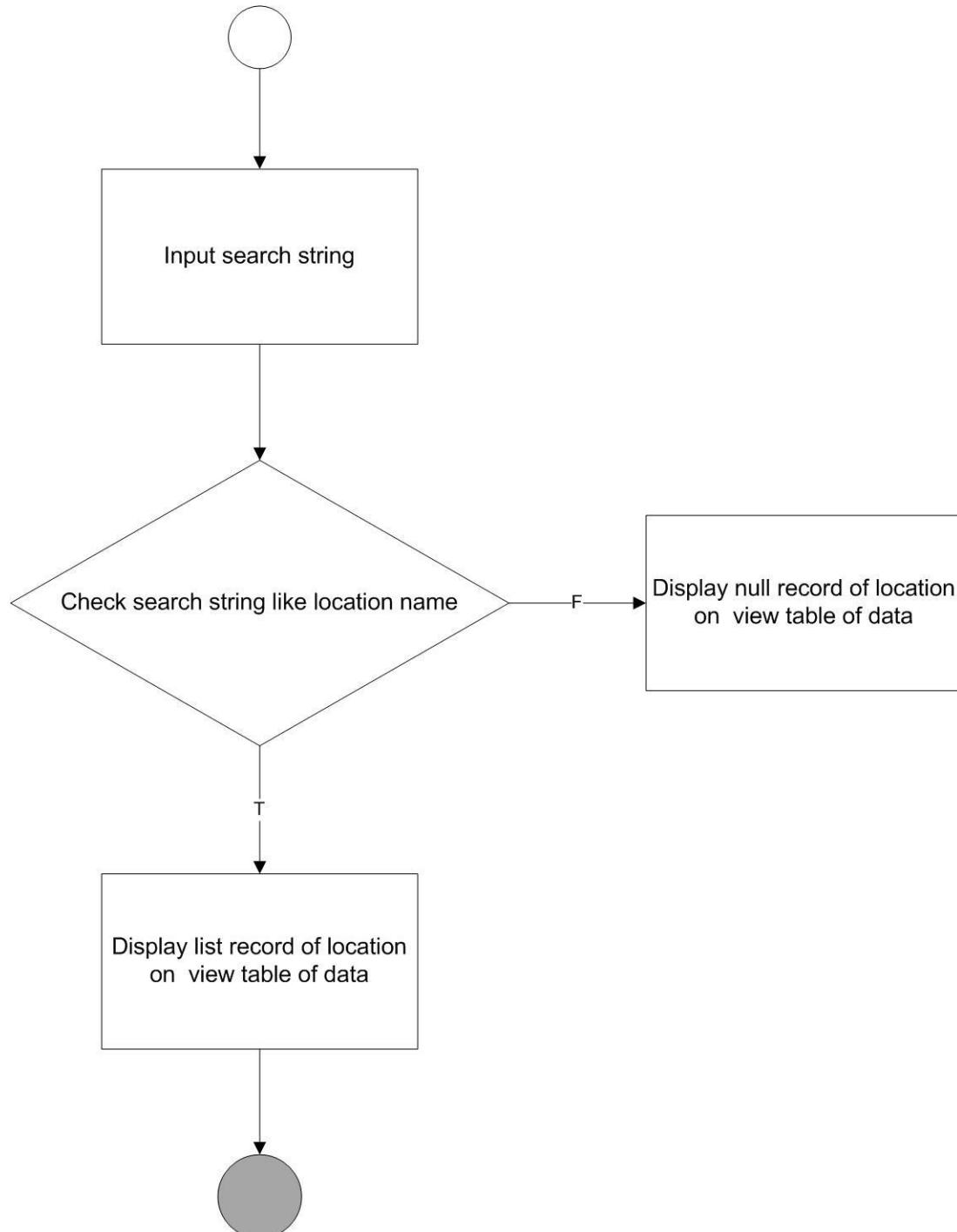


Flow chart 13. Location Delete

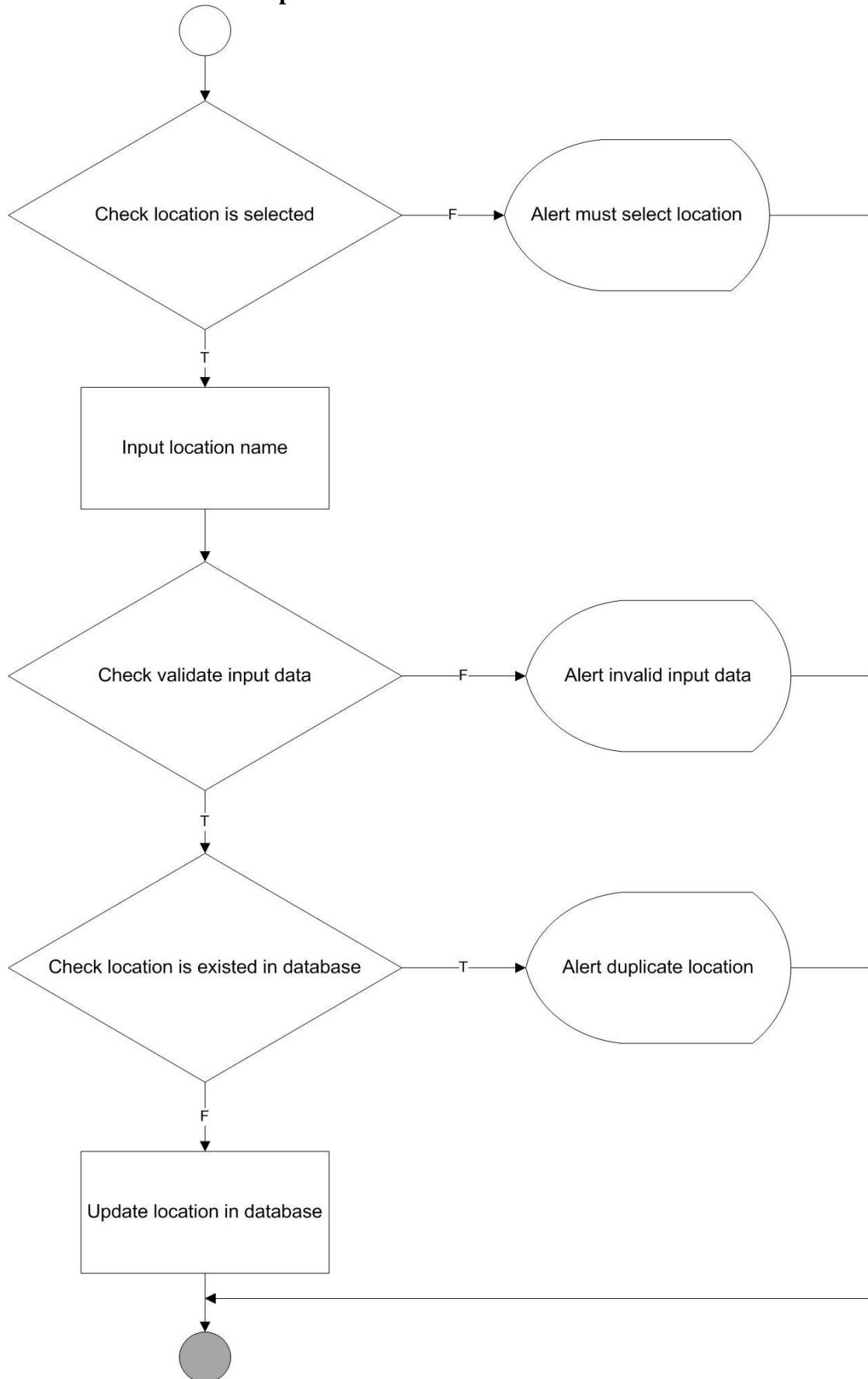


Flow chart 14. Location Insert

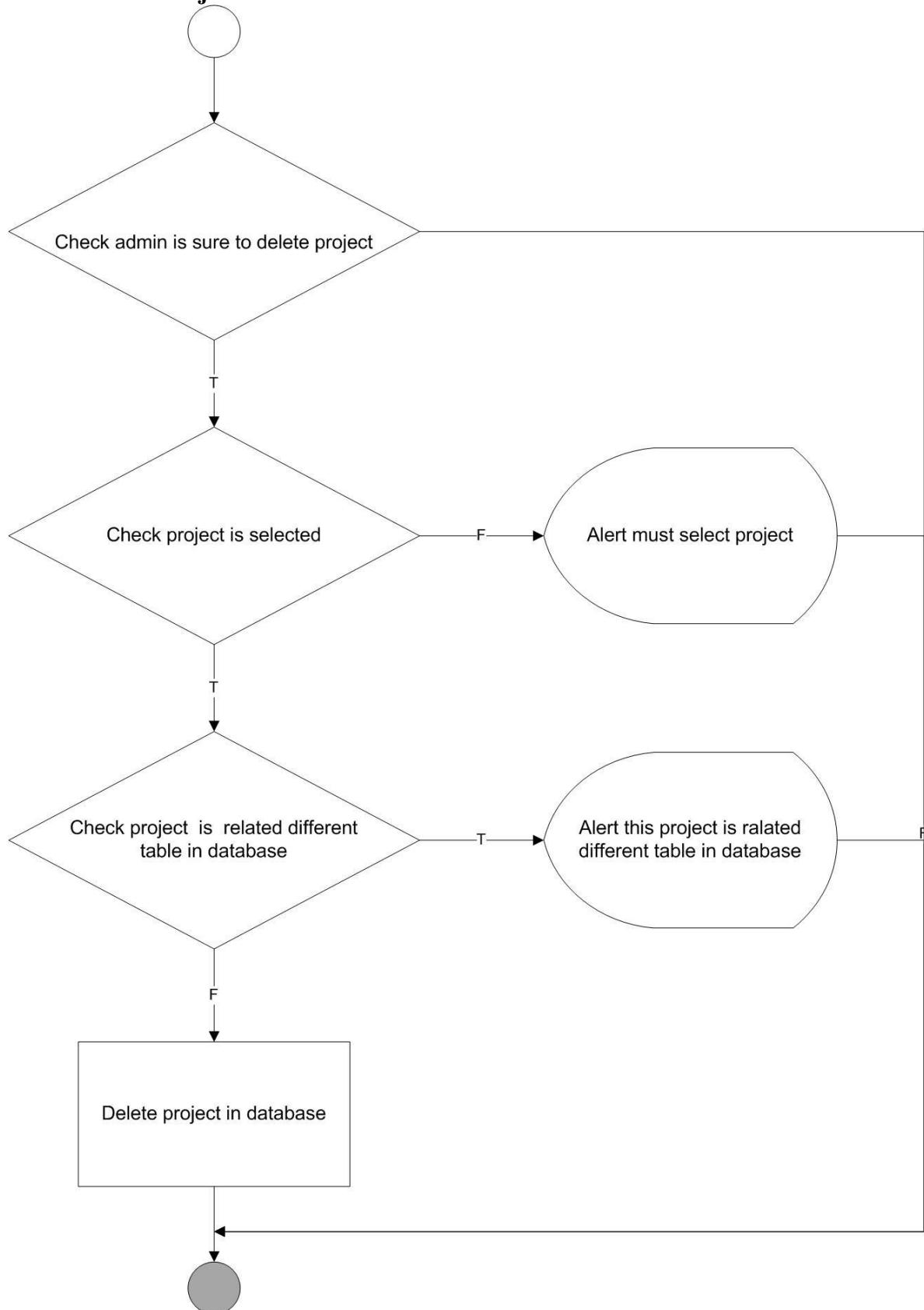


Flow chart 15. Location Search

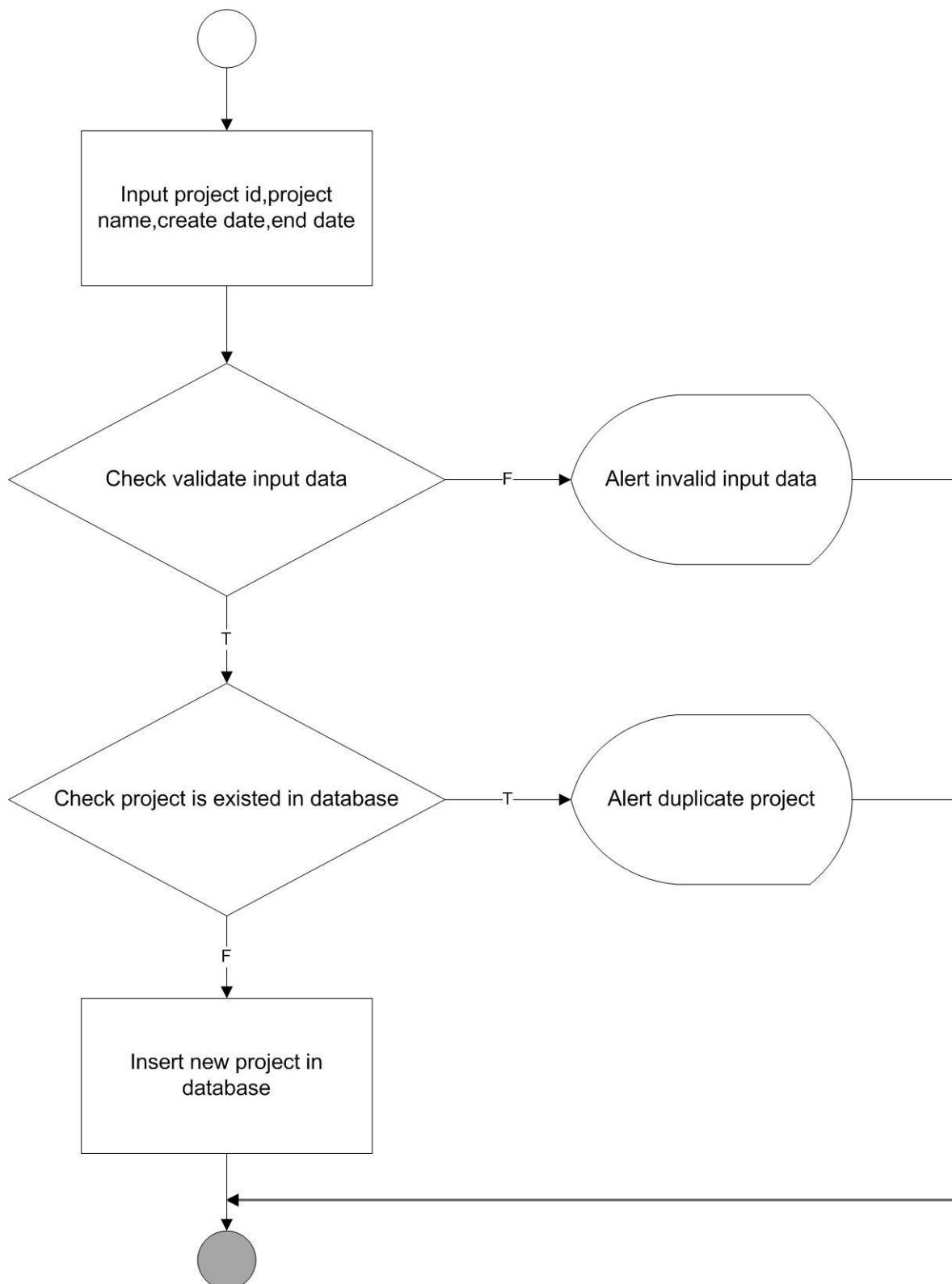
Flow chart 16. Location Update

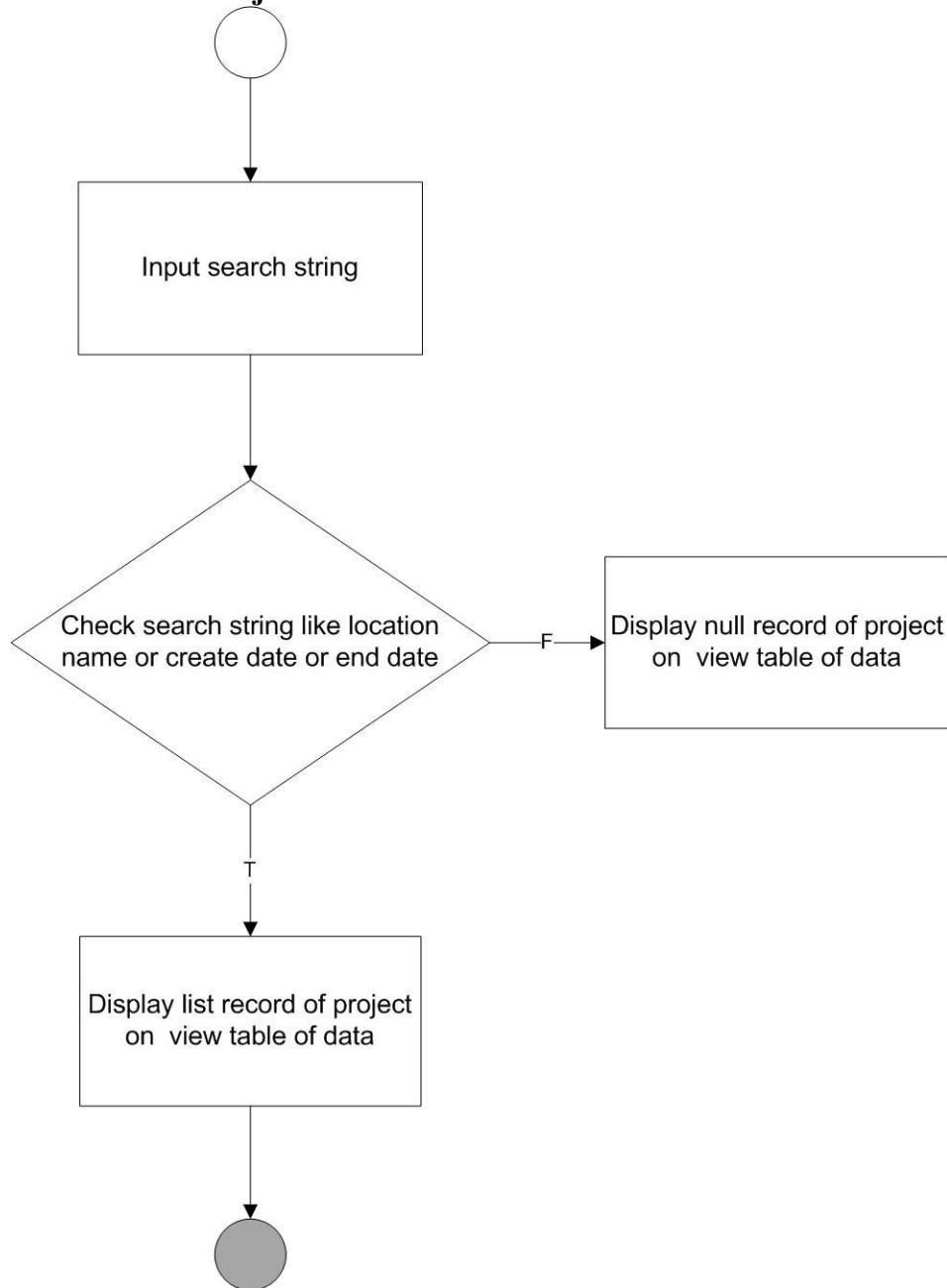


Flow chart 17. Project Delete

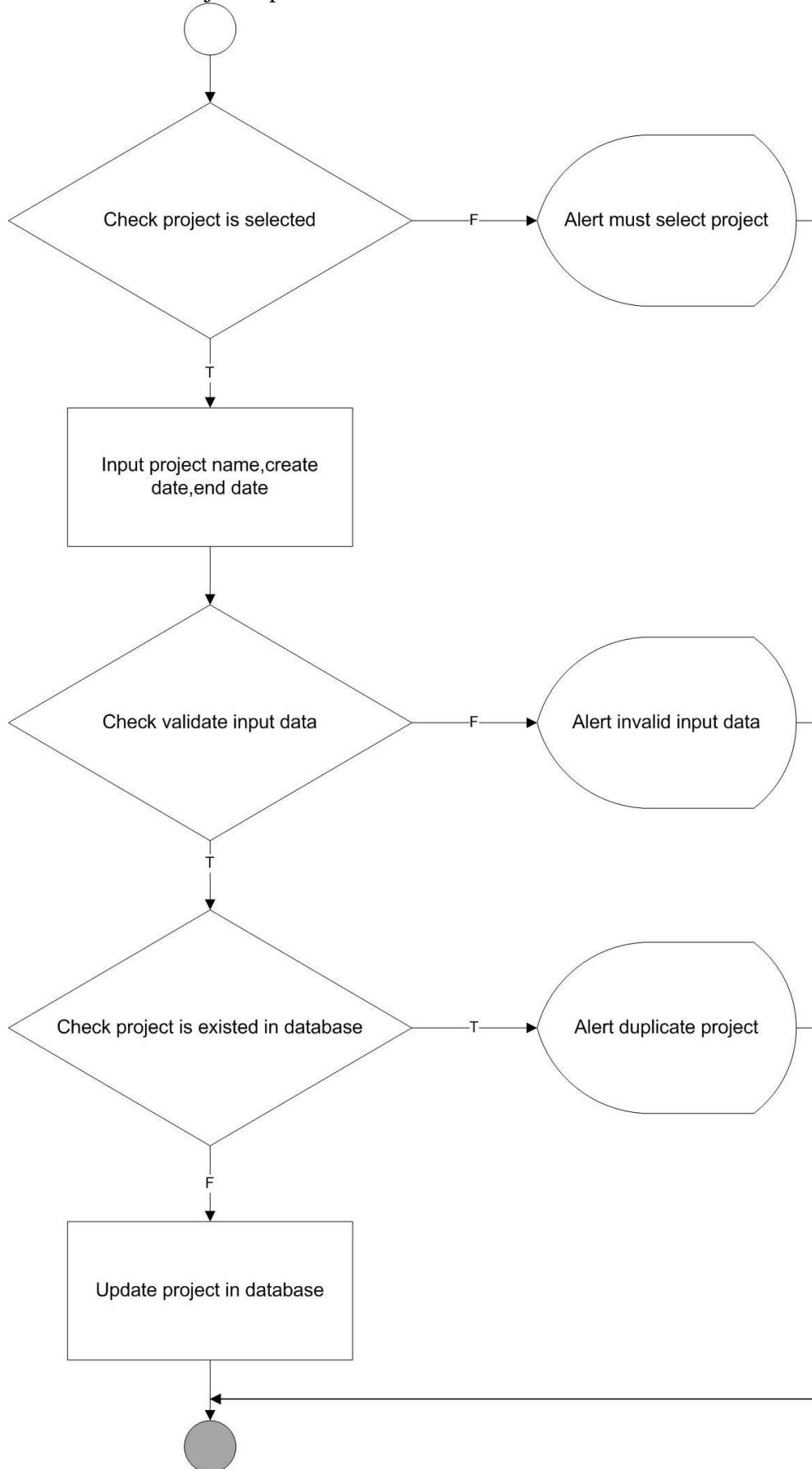


Flow chart 18. Project Insert

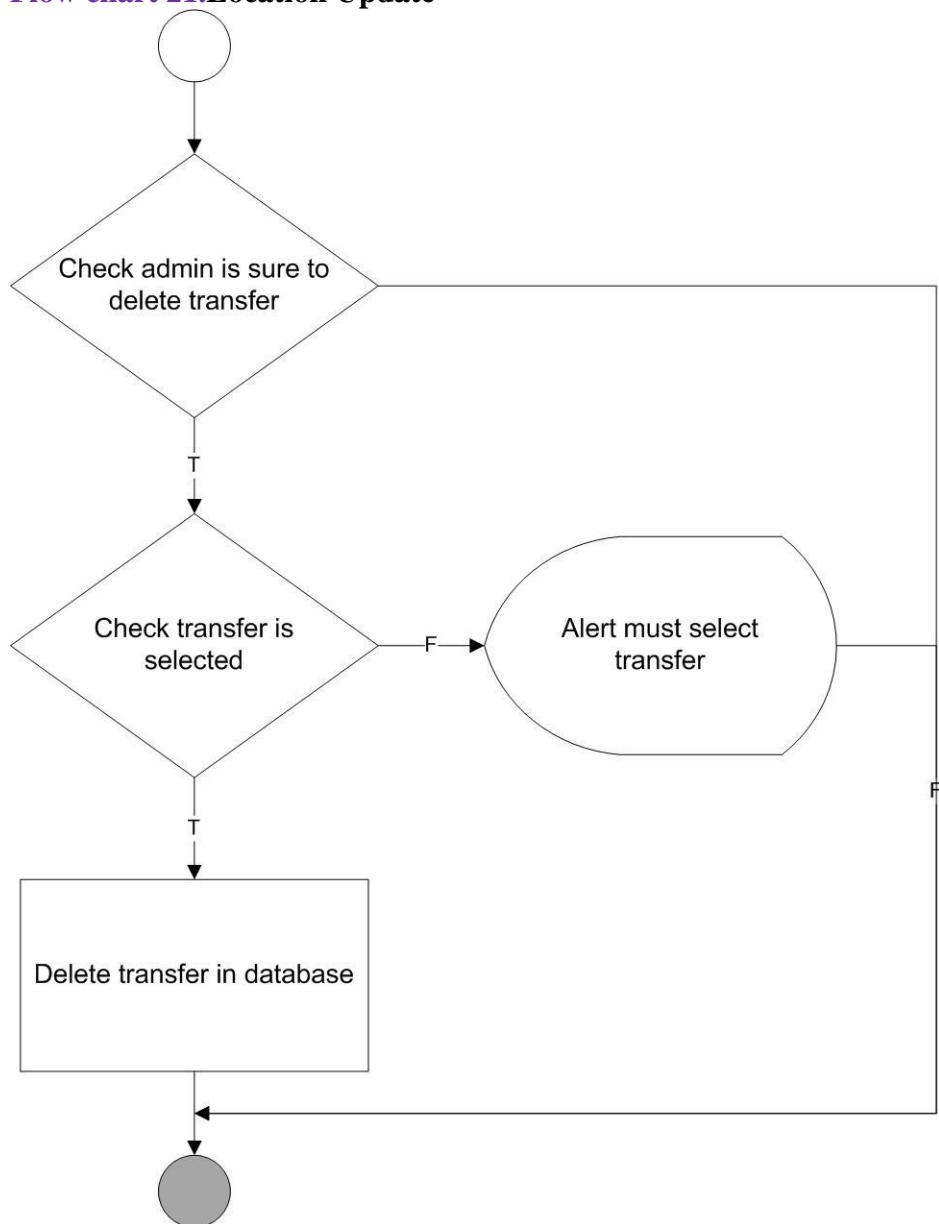


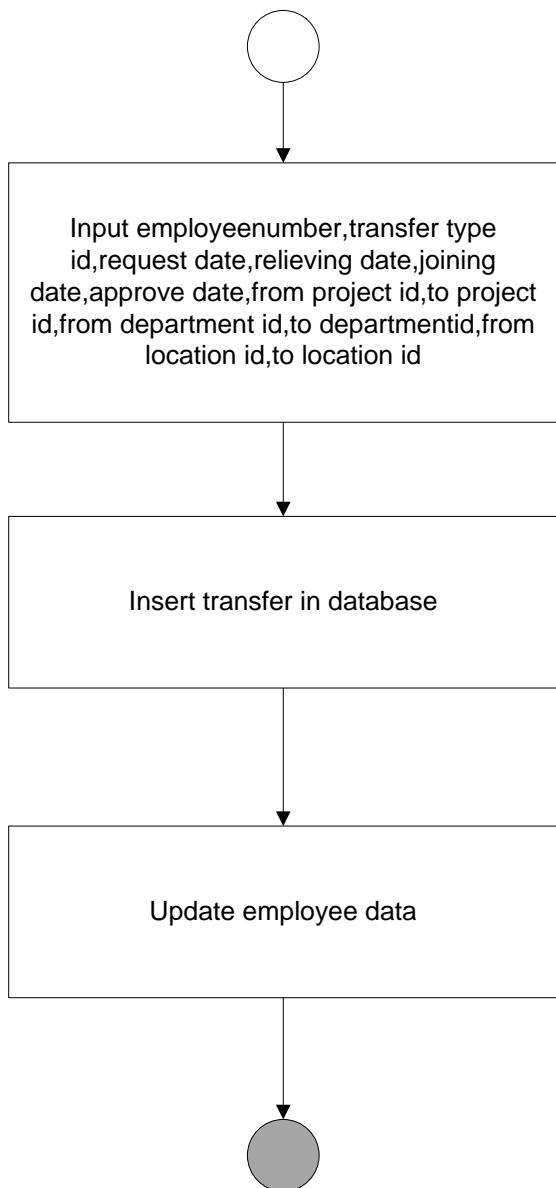
Flow chart 19. Project Search

Flow chart 20.Project Update

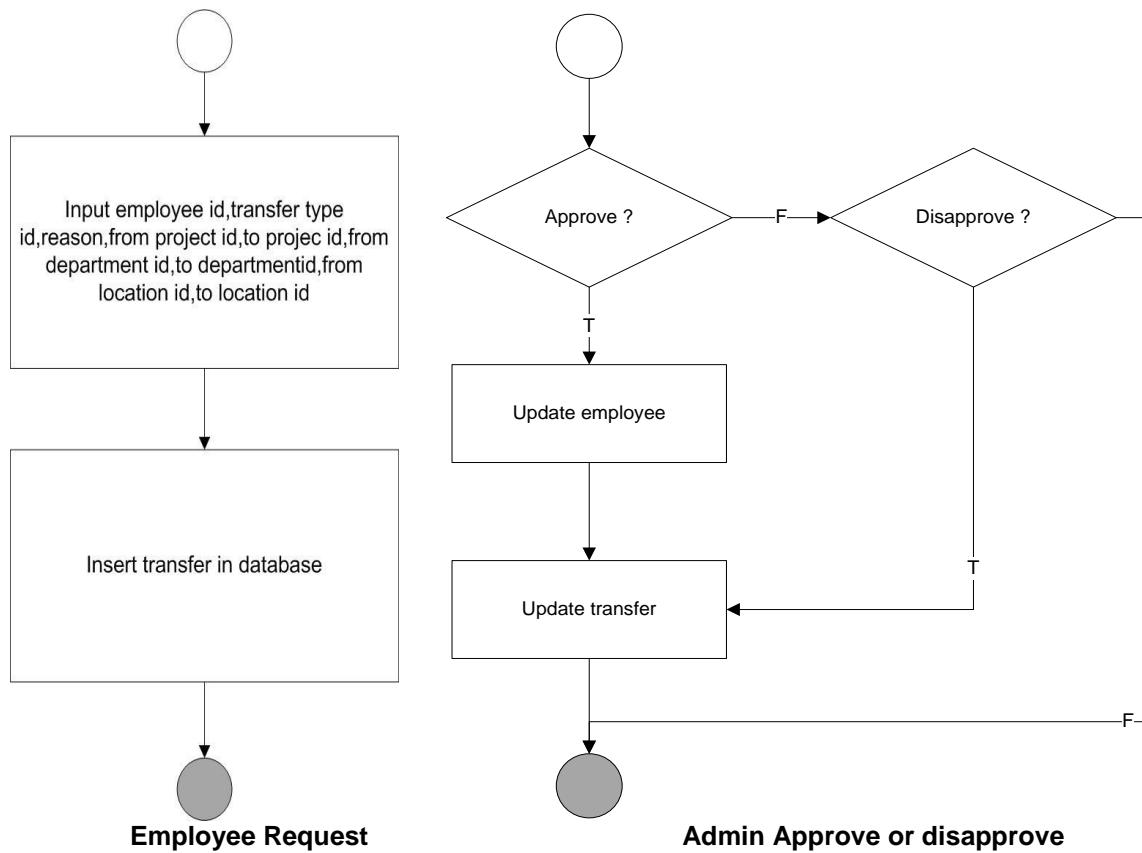


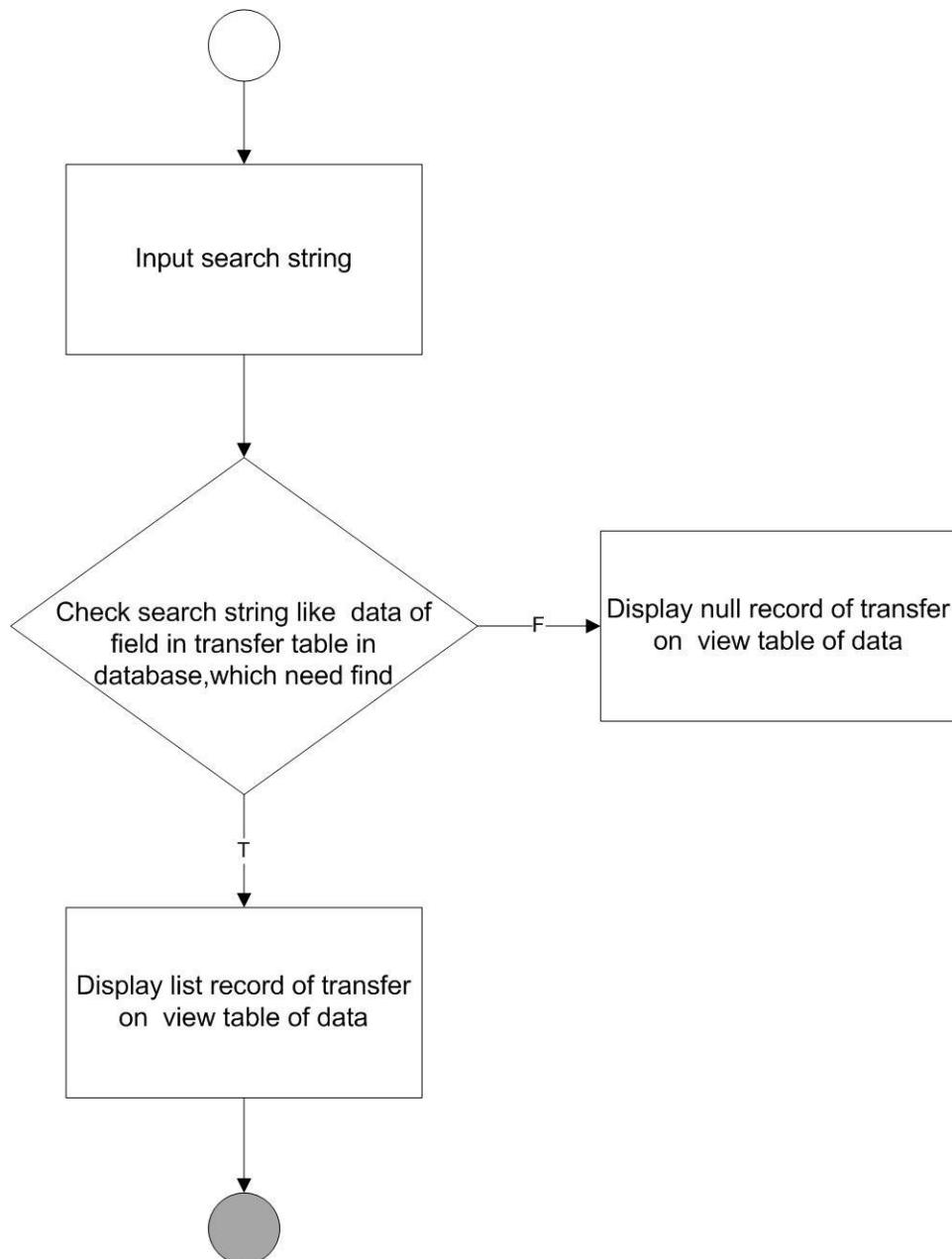
Flow chart 21. Location Update



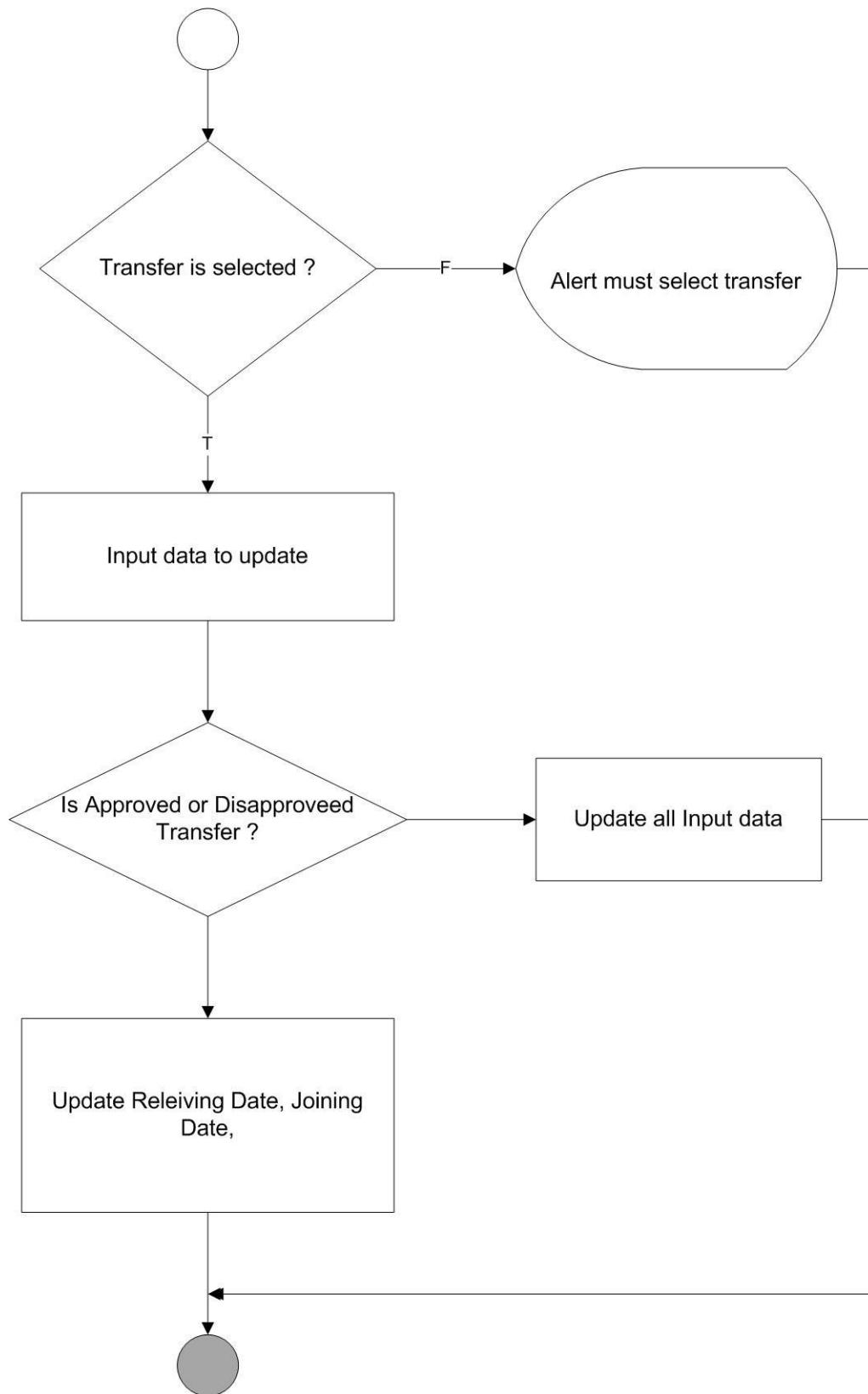
Flow chart 22.Transfer Make New

Flow chart 23. Request Transfer

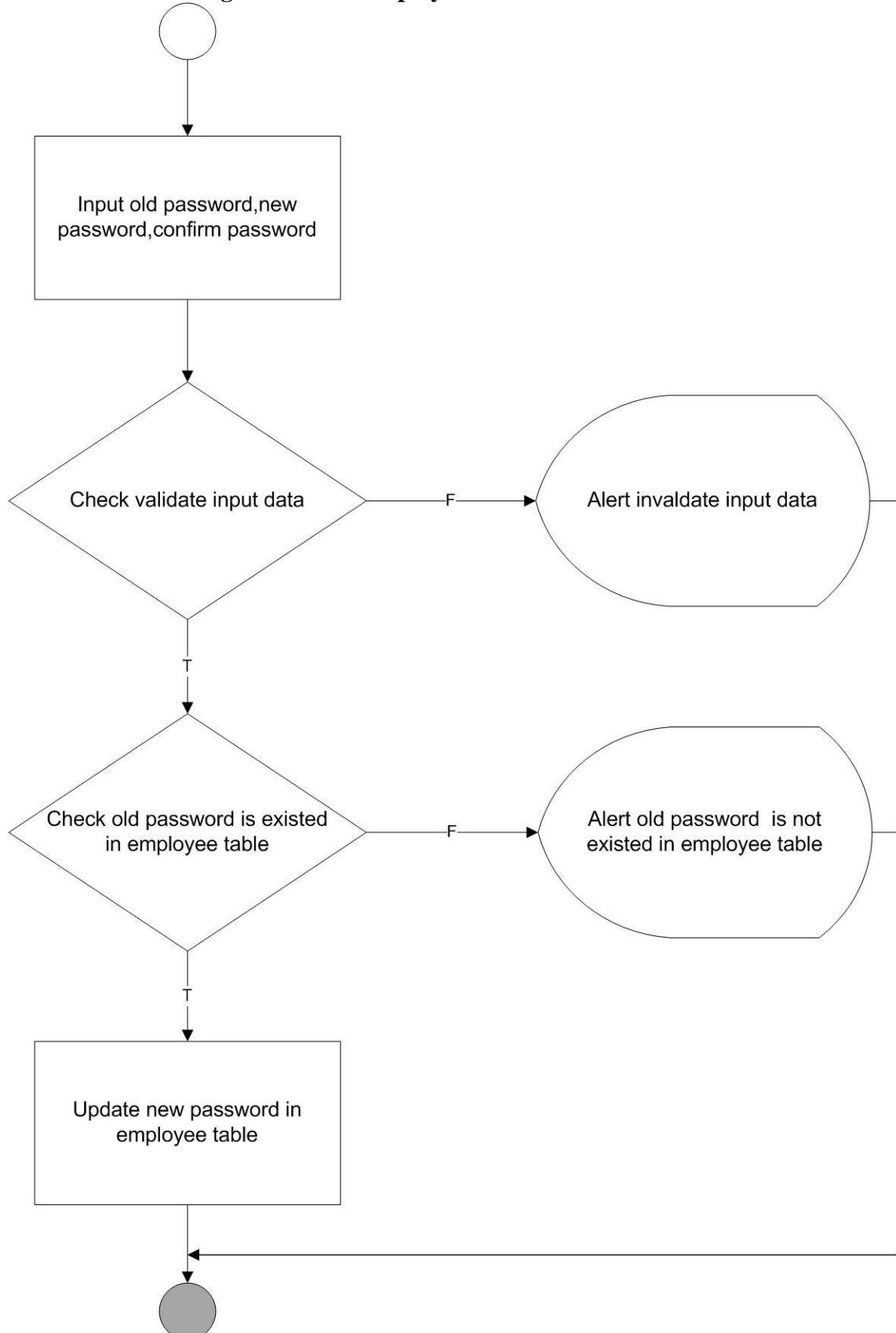


Flow chart 24. Transfer Search

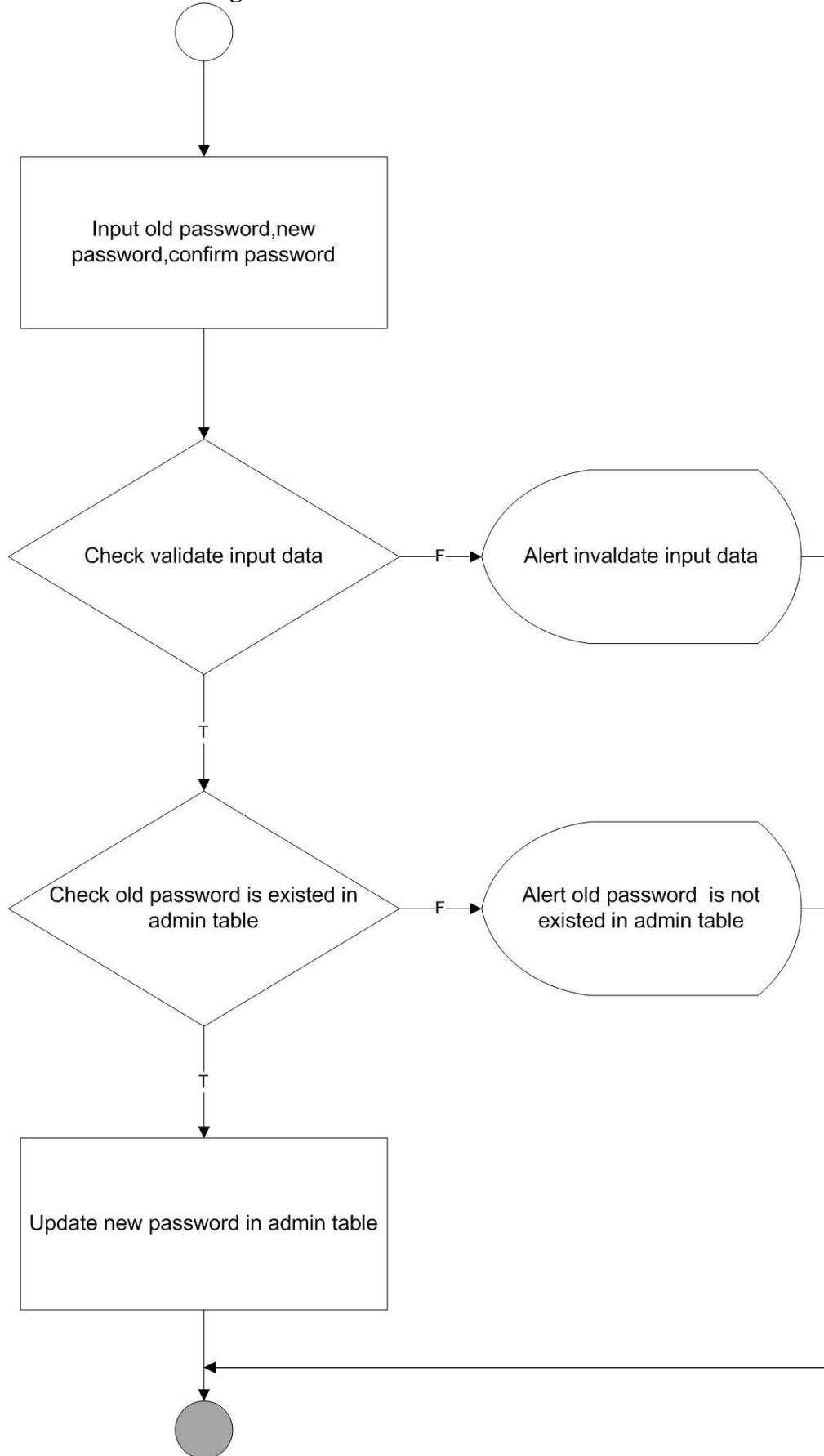
Flow chart 25. Transfer Update



Flow chart 26.Change Password Employee

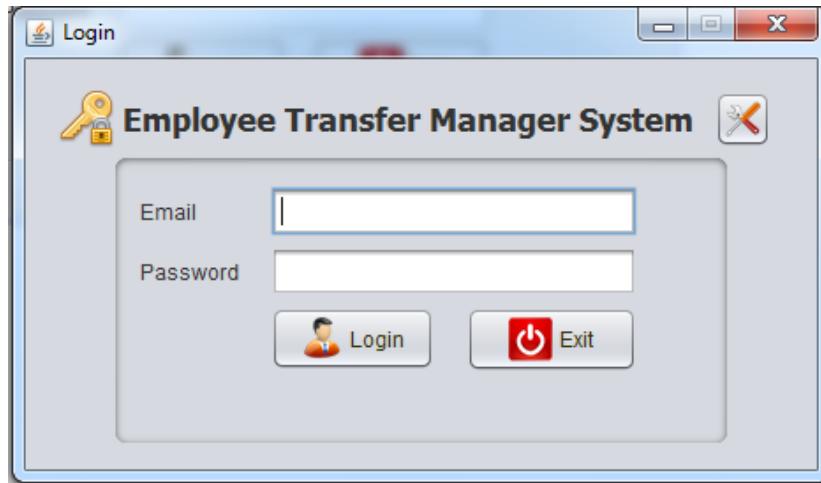


Flow chart 28.Change Password Admin



6. Snapshot

Login Page

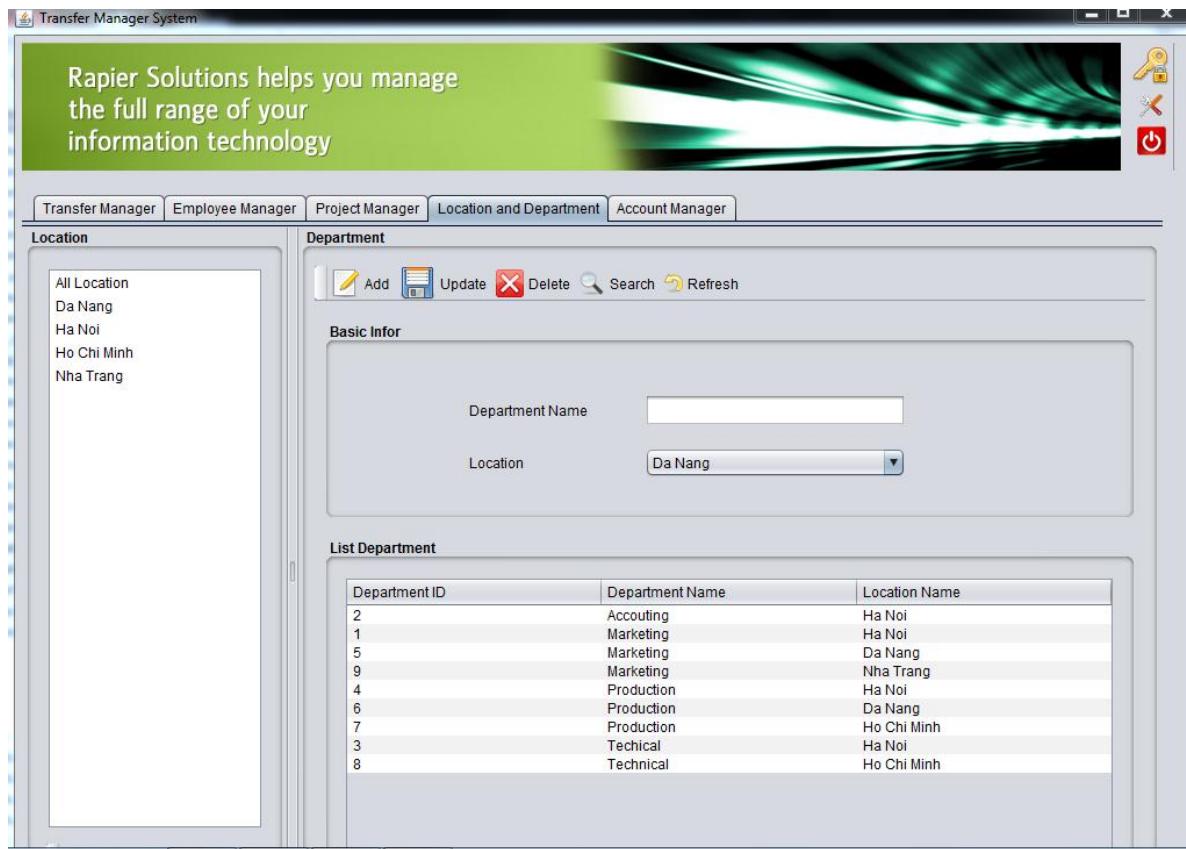


Employee Transfer Manager System

Transfer History

Project Manager

Location and Department



Connect Configuration

Host name	localhost
Port	1433
Database	eproject
Username	sa
Password	*****

Test Save

Employee Profile

Employee Transfer Manager System

BUTLER & LAND INC.
EST. 1947
ELECTRICAL TEST EQUIPMENT & PROCESS CONTROLS
DALLAS • HOUSTON • NEW ORLEANS • TULSA

Employee Profile **Transfer Request** **Transfer History**

Employee Profile

	Basic Information <table border="1"> <tr> <td>Employee Number</td> <td>B1101</td> <td>Birthday</td> <td>1990-05-09</td> </tr> <tr> <td>Full Name:</td> <td>Nguyen Van A</td> <td>Email</td> <td>user01@gmail.com</td> </tr> <tr> <td>Gender</td> <td>Male</td> <td>Address</td> <td>ABC 123</td> </tr> </table>	Employee Number	B1101	Birthday	1990-05-09	Full Name:	Nguyen Van A	Email	user01@gmail.com	Gender	Male	Address	ABC 123	 Change Password Logout
Employee Number	B1101	Birthday	1990-05-09											
Full Name:	Nguyen Van A	Email	user01@gmail.com											
Gender	Male	Address	ABC 123											
Work Information <table border="1"> <tr> <td>Role</td> <td>Manager</td> <td>Current Department</td> <td>Marketing - Ha Noi</td> </tr> <tr> <td>Work Experience</td> <td>3</td> <td>Current Project</td> <td>project 101</td> </tr> <tr> <td>Salary</td> <td>1000.0</td> <td>Current Location</td> <td>Ha Noi</td> </tr> </table>			Role	Manager	Current Department	Marketing - Ha Noi	Work Experience	3	Current Project	project 101	Salary	1000.0	Current Location	Ha Noi
Role	Manager	Current Department	Marketing - Ha Noi											
Work Experience	3	Current Project	project 101											
Salary	1000.0	Current Location	Ha Noi											

Employee Manager

Rapier Solutions helps you manage the full range of your information technology

Transfer Manager **Employee Manager** **Project Manager** **Location and Department** **Account Manager**

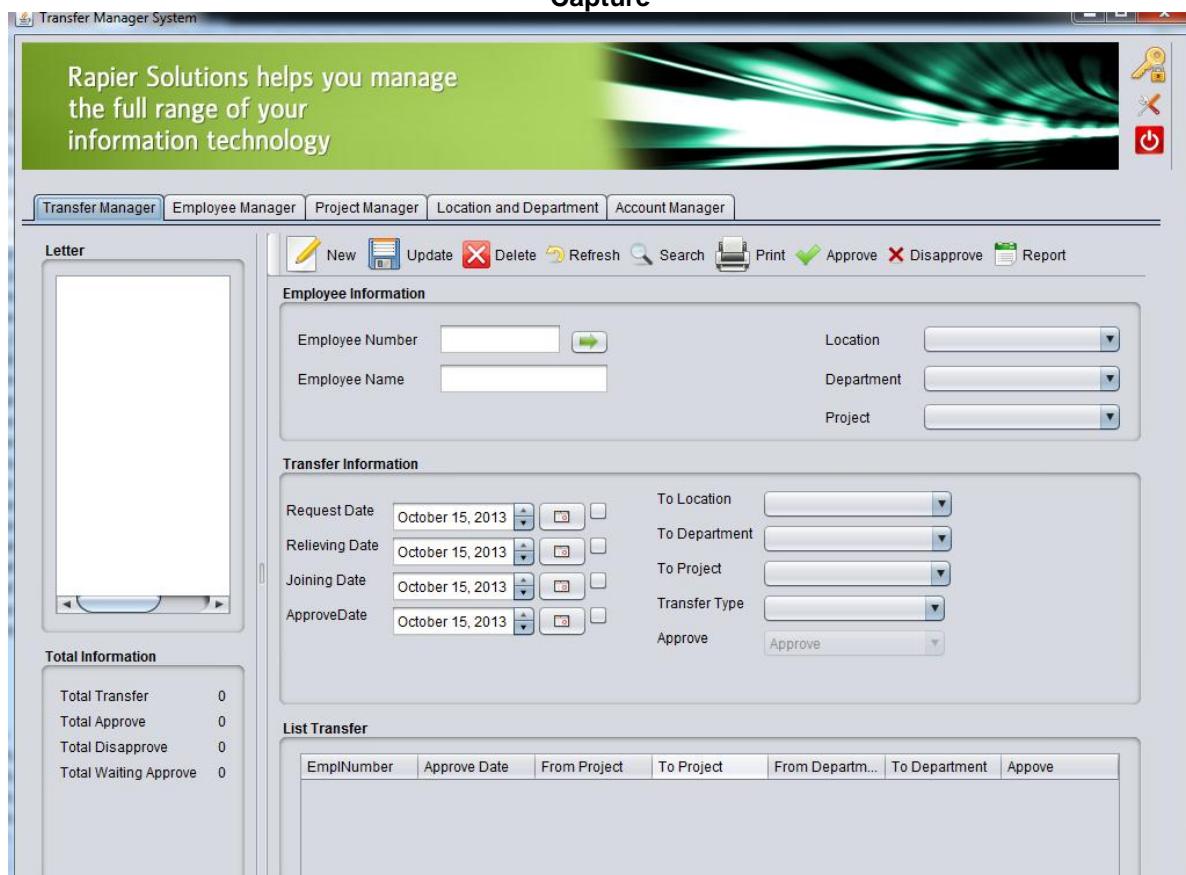
Information

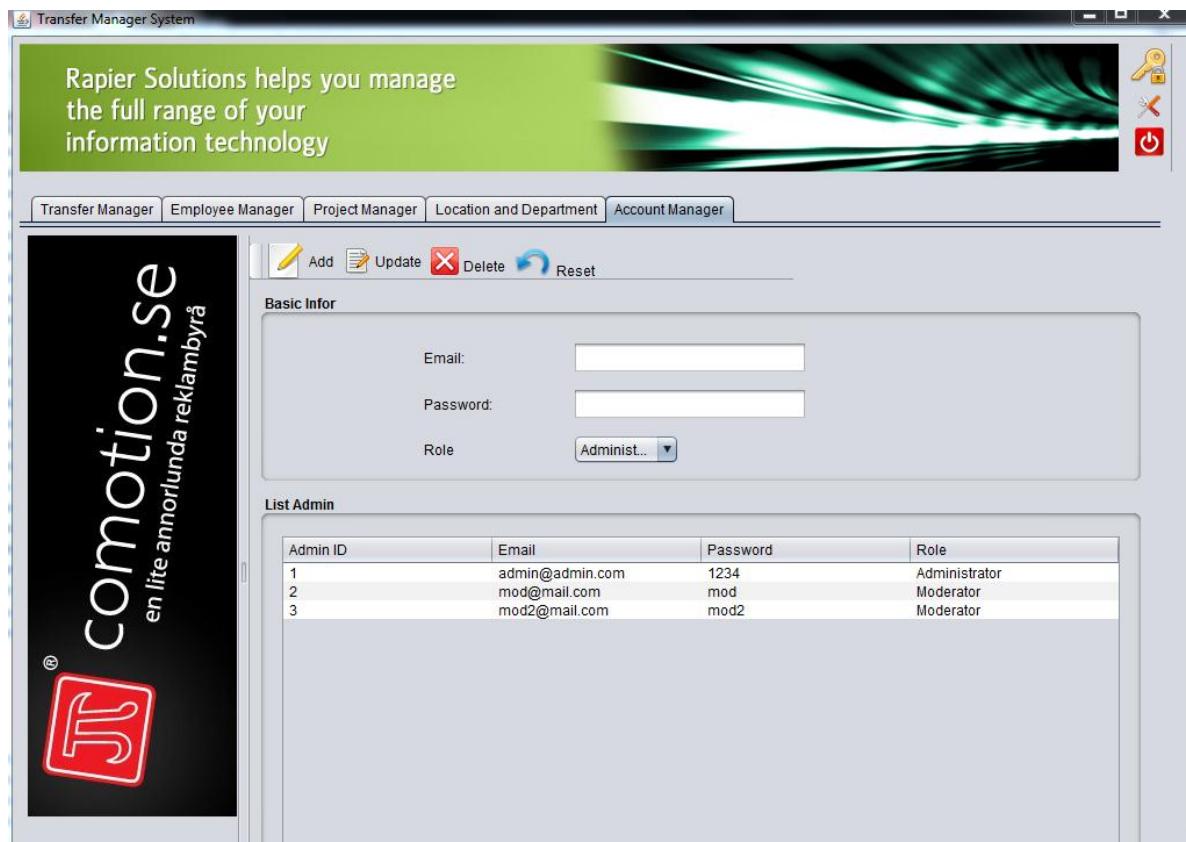
 Number Name Birthday Email Role Dep Project	Add Update Delete Refresh Search																
Basic Information <table border="1"> <tr> <td>Employee Number</td> <td><input type="text"/></td> <td>Gender</td> <td><input type="button"/></td> </tr> <tr> <td>Employee Name</td> <td><input type="text"/></td> <td>Birthday</td> <td><input type="text"/> October 16, 2013 <input type="button"/> <input type="button"/></td> </tr> <tr> <td>Email</td> <td><input type="text"/></td> <td>Address</td> <td><input type="text"/></td> </tr> <tr> <td>Password</td> <td><input type="text"/></td> <td colspan="2"></td> </tr> </table>		Employee Number	<input type="text"/>	Gender	<input type="button"/>	Employee Name	<input type="text"/>	Birthday	<input type="text"/> October 16, 2013 <input type="button"/> <input type="button"/>	Email	<input type="text"/>	Address	<input type="text"/>	Password	<input type="text"/>		
Employee Number	<input type="text"/>	Gender	<input type="button"/>														
Employee Name	<input type="text"/>	Birthday	<input type="text"/> October 16, 2013 <input type="button"/> <input type="button"/>														
Email	<input type="text"/>	Address	<input type="text"/>														
Password	<input type="text"/>																
Work Information <table border="1"> <tr> <td>Role</td> <td><input type="text"/></td> <td>Department</td> <td><input type="button"/></td> </tr> <tr> <td>Work Experience</td> <td><input type="text"/> Year</td> <td>Project</td> <td><input type="button"/></td> </tr> <tr> <td>Salary</td> <td><input type="text"/> USD</td> <td>Allowance</td> <td><input type="text"/> USD</td> </tr> </table>		Role	<input type="text"/>	Department	<input type="button"/>	Work Experience	<input type="text"/> Year	Project	<input type="button"/>	Salary	<input type="text"/> USD	Allowance	<input type="text"/> USD				
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Number	Name	Project	Department														
B1101	Nguyen Van A	project 101	Marketing - Ha Noi														
B1102	Tran Thi B	project 101	Accounting - Ha Noi														

Changes Password



Capture



Account Manager

7. Task Sheet

Project Ref.No.:		Project Title	Active Plan Prepared By:	Date Of Preparation Of Activity Plan:			
Sr. No	Task			Actual Start Date	Actual Days	Team Member Name	Status
Document & GUI							
1	Analyze System	Employee Transfer Management	Group 1	15/09/2013	1 day	Group	Completed
2	Design Database		Group 1	15/09/2013	2 days	Hoang Minh Duong Nguyen Van Luu Vu Hoang	Completed
3	Report		Group 1	10/10/2013	3 days	Nguyen Van Luu Nguyen Van Huy	Completed
4	GUI Admin		Group 1	18/09/2013	1 day	Hoang Minh Duong	Completed
5	GUI Client		Group 1	18/09/2013	1 day	Vu Hoang	Completed
Coding							
6	Transfer Management	Employee Transfer Management	Group 1	20/09/2013	4 days	Hoang Minh Duong	Completed
7	Employee Management		Group 1	20/09/2013	3 days	Nguyen Van Luu	Completed
8	Department Management		Group 1	20/09/2013	1 day	Vu Hoang	Completed
9	Location Management		Group 1	20/09/2013	1 day	Nguyen Van Huy	Completed
10	Project Management		Group 1	24/09/2013	1 day	Nguyen Van Luu Vu Hoang	Completed
11	Account Management		Group 1	25/09/2013	1 day	Nguyen Van Luu	Completed
12	Employee Request		Group 1	26/09/2013	1 day	Hoang Minh Duong	Completed

13	Employee Detail		Group 1	26/09/2013	1 day	Nguyen Van Huy	Completed
14	History Transfer		Group 1	29/09/2013	1 day	Vu Hoang	Completed

8. Checklist of Validations

Option	Validated
Can a new user who gets registered, enter the application after logged in?	Yes
Do all the options present in the application display the correct result?	Yes
Does the application's functionality resolve the user problem, and satisfy their needs?	Yes
Has the hardware and software been correctly chosen?	Yes

9. Submission Checklist

Sr.No	Particular	Yes	No	NA	Comment
1	Are you users able to login to the application after validation is performed on the user name and password?	Yes			
2	Are the users able to modify their details after getting registered?	Yes			
3	Are all the screen contents devoid of spelling mistakes?	Yes			
4	Is the user able to trade on fund which has been selected?	Yes			
5	Is the application user-friendly?	Yes			