

Requiurement Analysis



- 1. Requirement**
- 2. DataFlow Diagram & Process Specification**
- 3. Data Dictionary**

1. Requirement

We analyzed our gathered information and we have decided our system should have following functionalities:

❖ **Authentication of user:**

- ↳ Admin
- ↳ Creation of Register user account
- ↳ Creation of Client user account
- ↳ Creation of Employee account
- ↳ Authorization of admin account
- ↳ Authorization of user account
- ↳ Authorization of employee account

❖ **Functionality Portion:**

- ↳ Admin
- ↳ Employee
- ↳ Visitor
- ↳ Register user
- ↳ Client

❖ **Different types of module:**

- ↳ Login
- ↳ User related Data entries
- ↳ Detailed courier Tracking
- ↳ Summarized courier Tracking

❖ **Web Application of Courier tracking Site:**

- ↳ Visitor: See Services, Contact Details etc....
- ↳ Register user: View profile and Edit Profile
 - Get summary of courier Transaction
 - Modify password
- ↳ Client: View profile and Edit Profile
 - Get details of courier Transaction
 - Modify password

❖ Data Gathering:

For gathering basic needs and functionalities, we had meeting with person who is our guided, also noted down some useful features to be included. by analyzing the information we understand following process requirement for security system

❖ Understanding the process of security system:

- ✓ How to store the data?
- ✓ How to manage login and logout process?
- ✓ How to manage user's privileges to access data?
- ✓ What type of different facilities provide they actually used?

❖ Understand different type of user who uses this software:

- ✓ How much type of users going to use this application?
- ✓ Provide authorization and separated their functionalities?
- ✓ What is the knowledge level of the users?

❖ Extra Constraints:

- ✓ User Friendly
- ✓ Web Application
- ✓ Proper validation
- ✓ Track courier

2. DataFlow Diagram & Process Specification

❖ Notations Used in the DFD

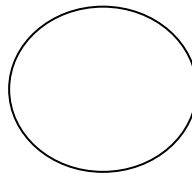
1. External Entity

A Rectangle represents an external entity. It represents the source and destination of the system data.



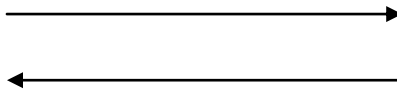
2. Process

The circles represent a process transform incoming or outgoing data.



3. Data Flow

An Arrow represents a data item or a collection of data item. The Arrow head indicates the direction of the data flow.



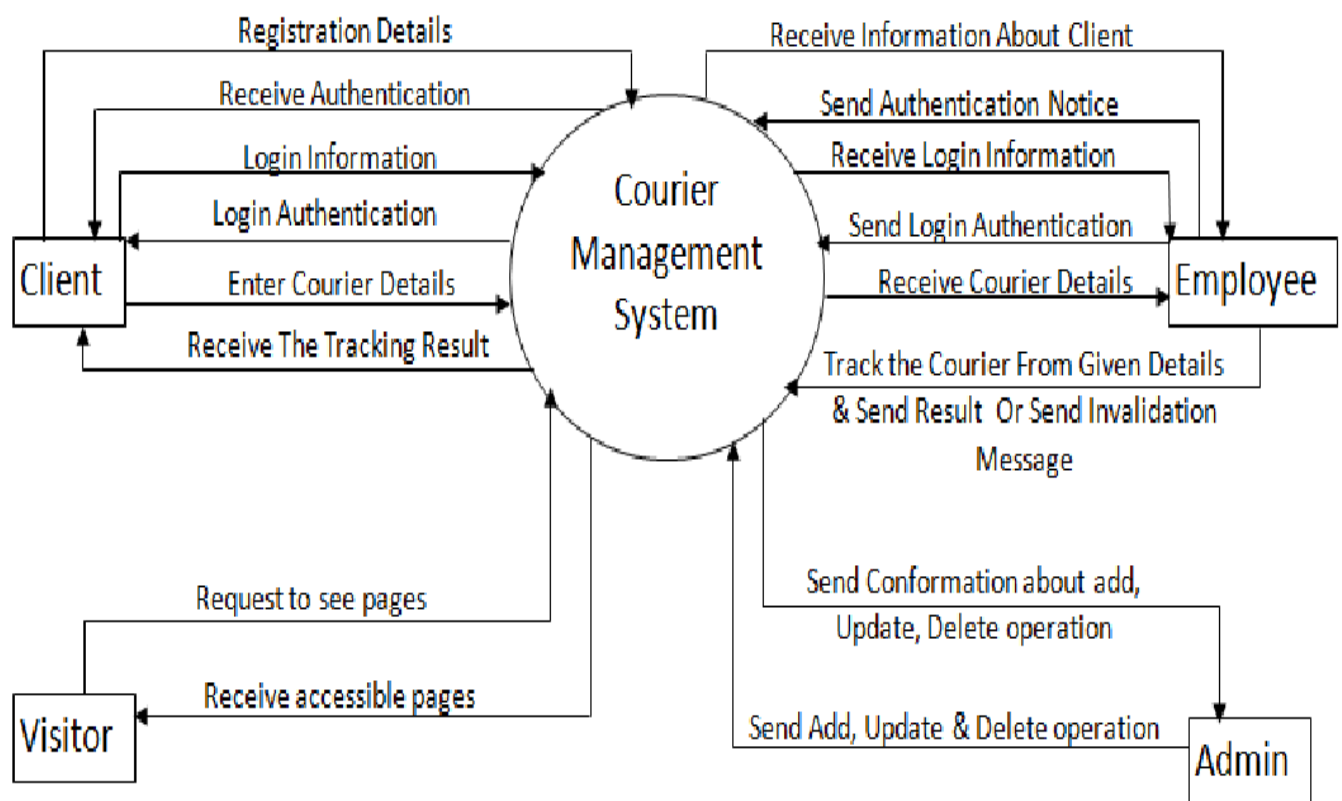
4. Data stores

An Arrow represents a data item or a collection of data item. The Arrow head indicates the direction of the data flow.

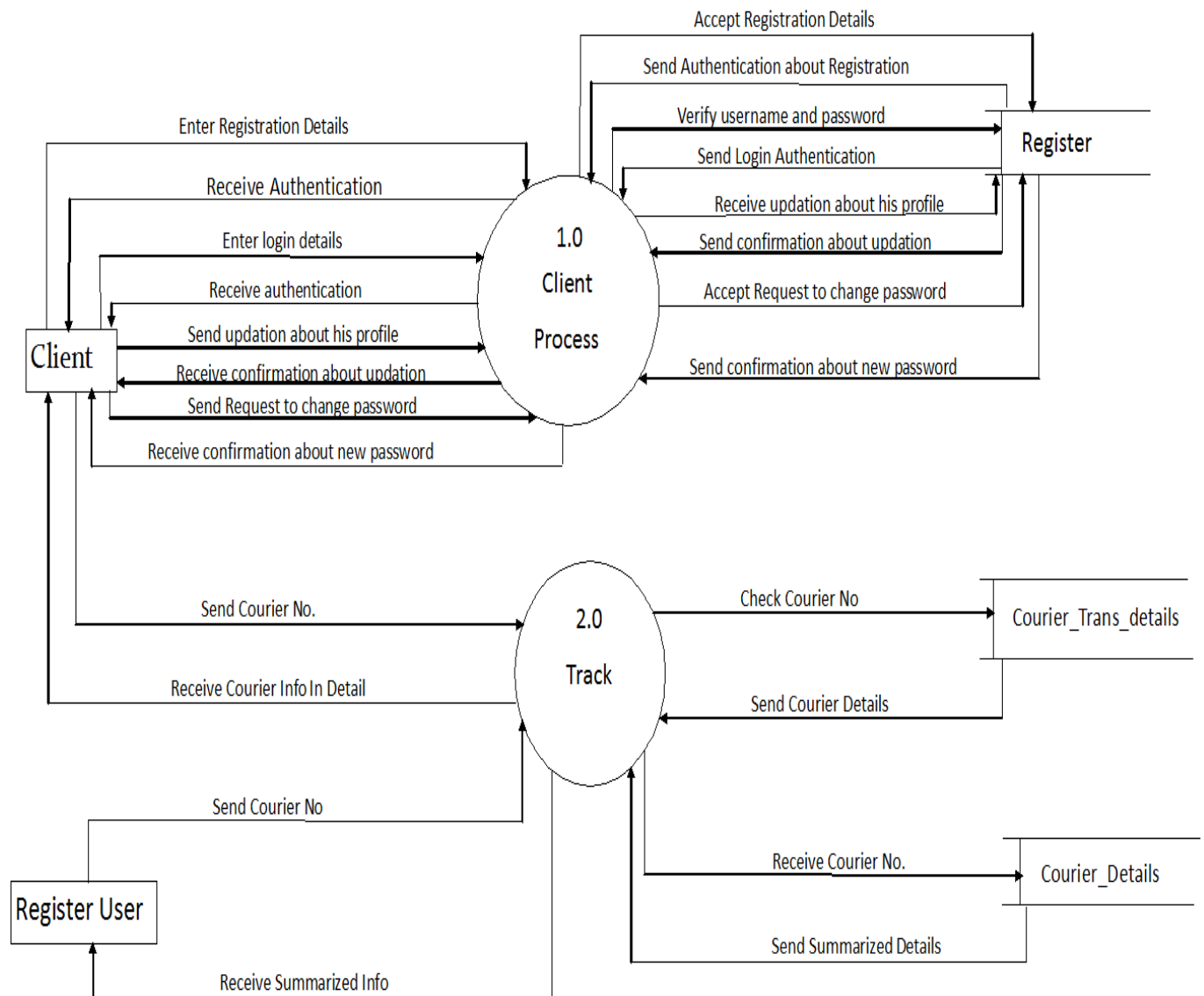


Data Flow Diagram

Context level DFD of CMS

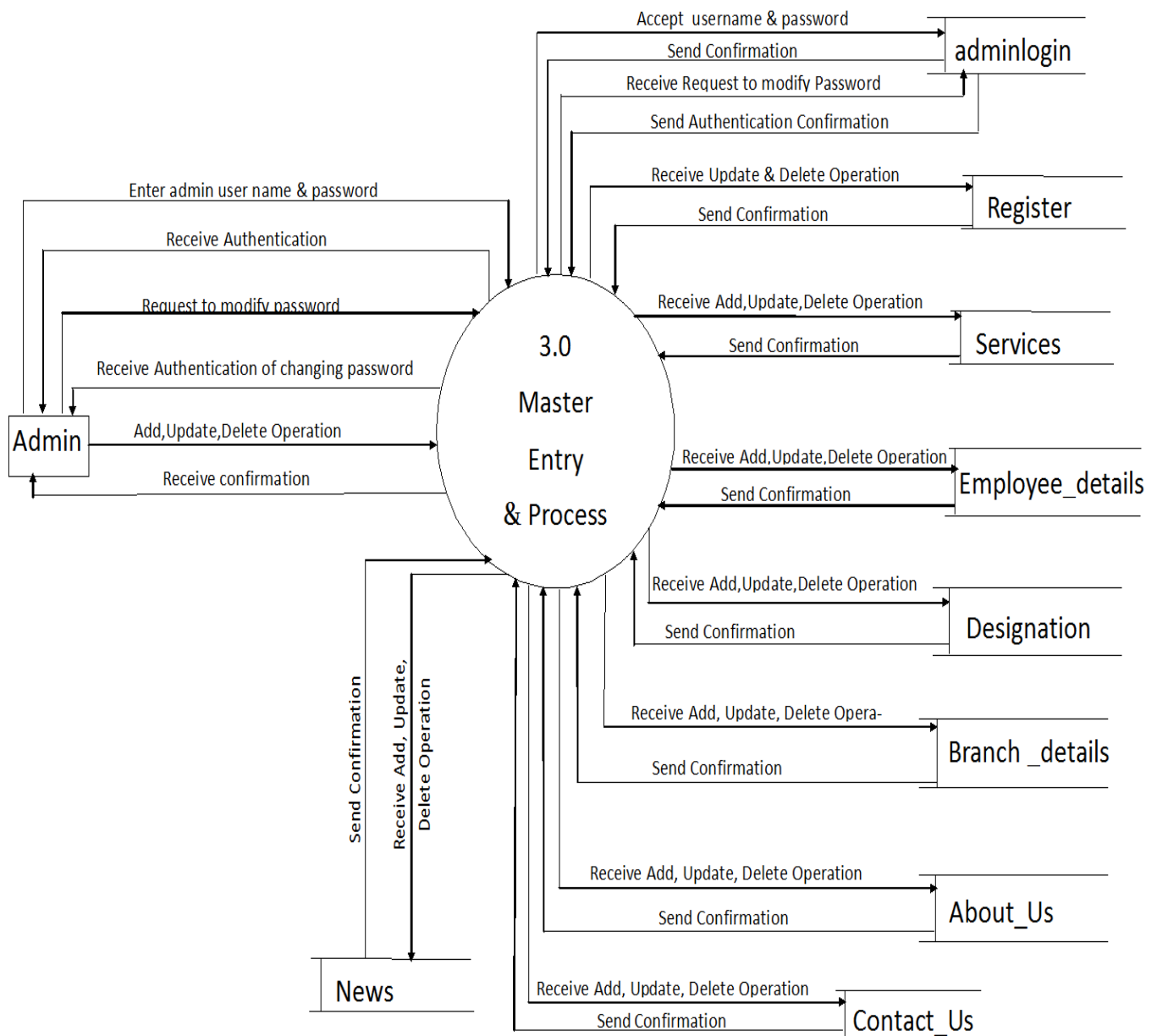


1st level DFD of Client & Register User

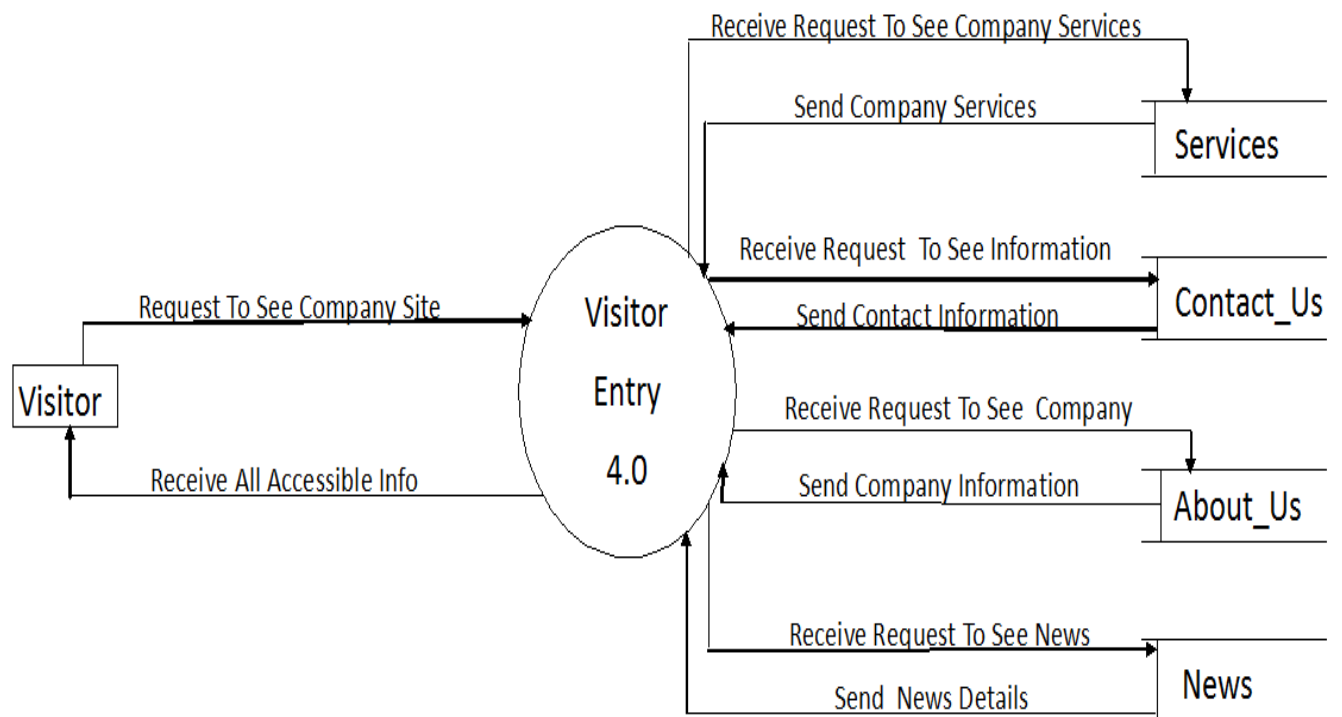


1st level DFD of Admin

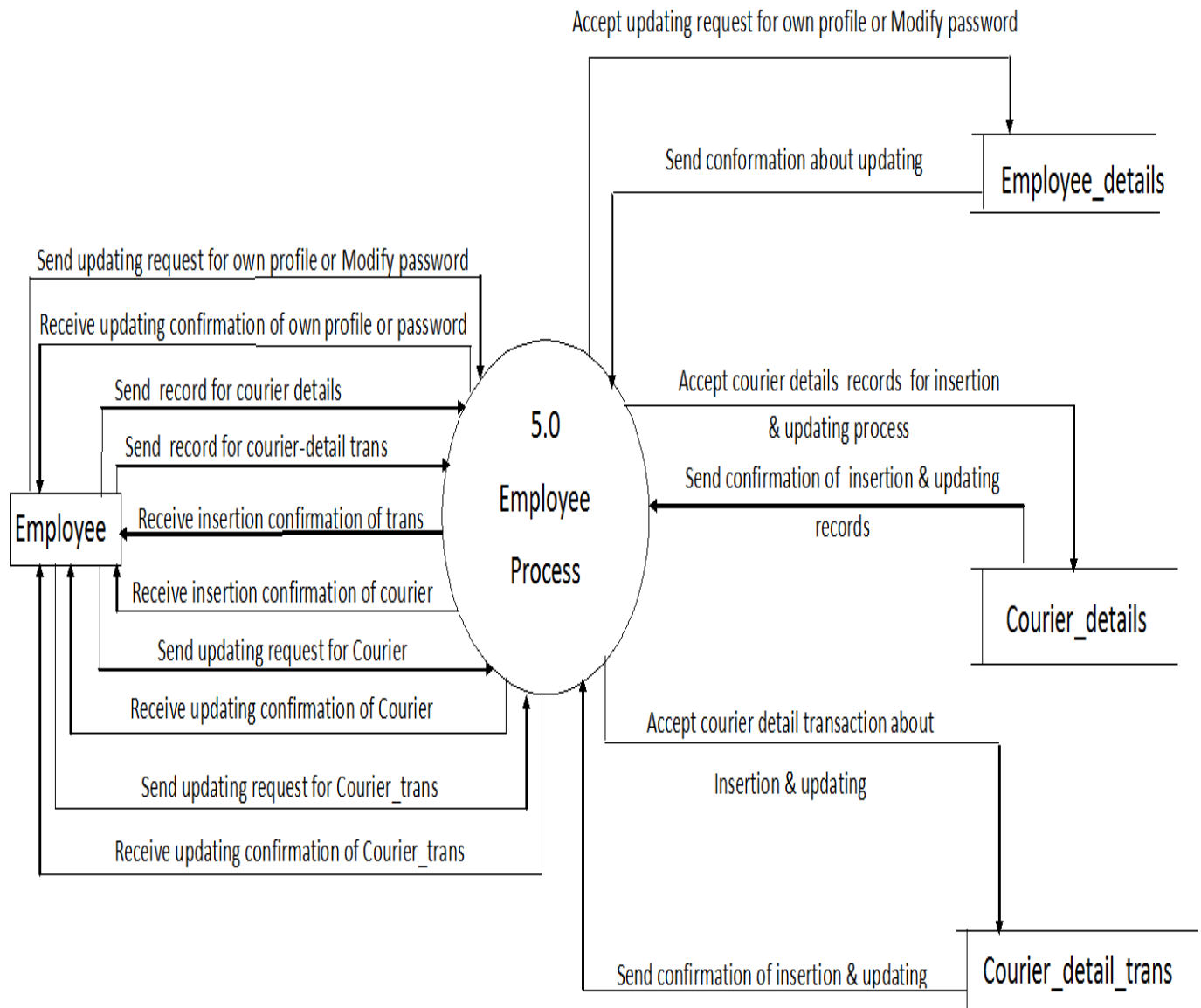
1st level DFD of Admin



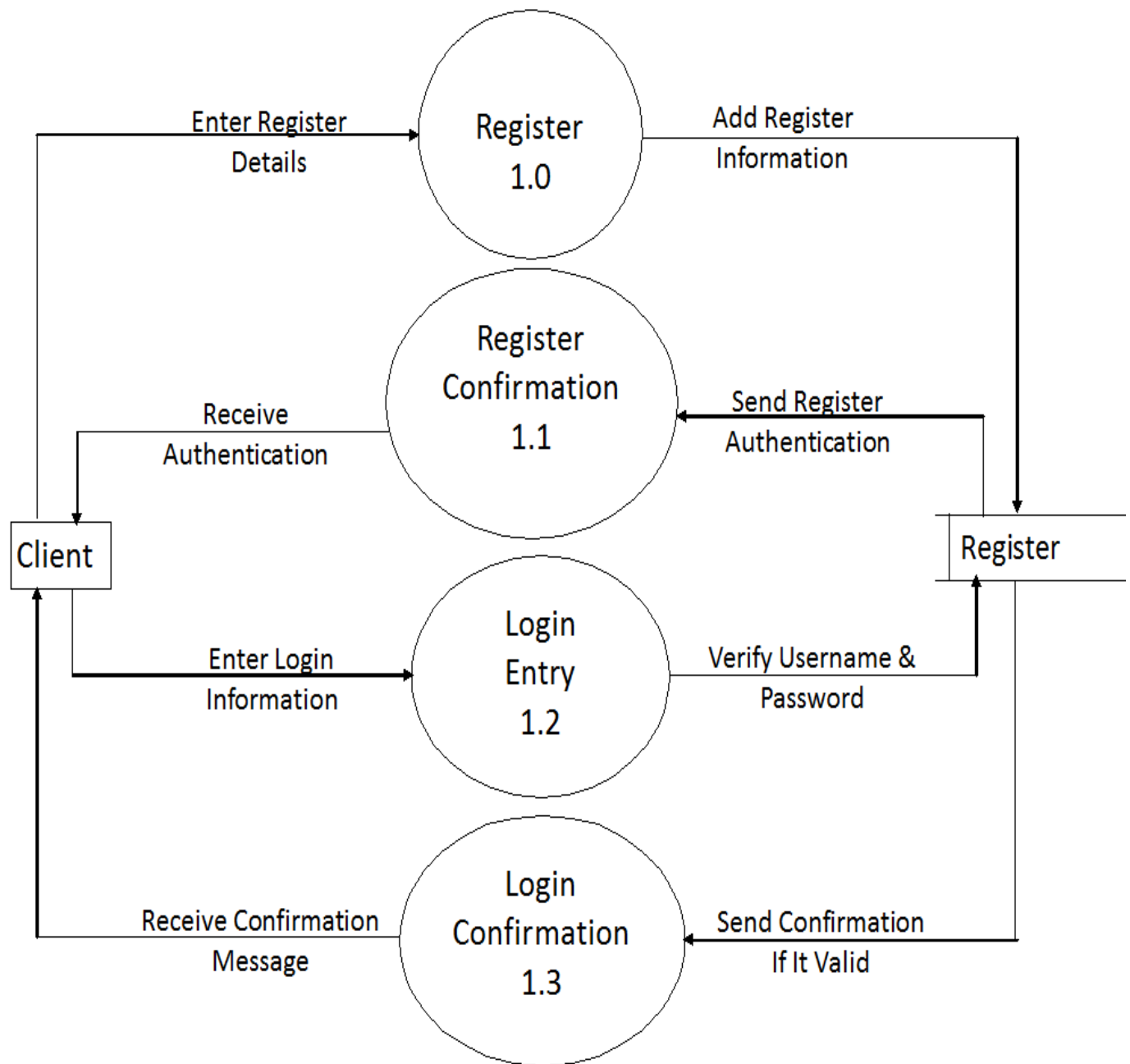
1st level DFD of Visitor



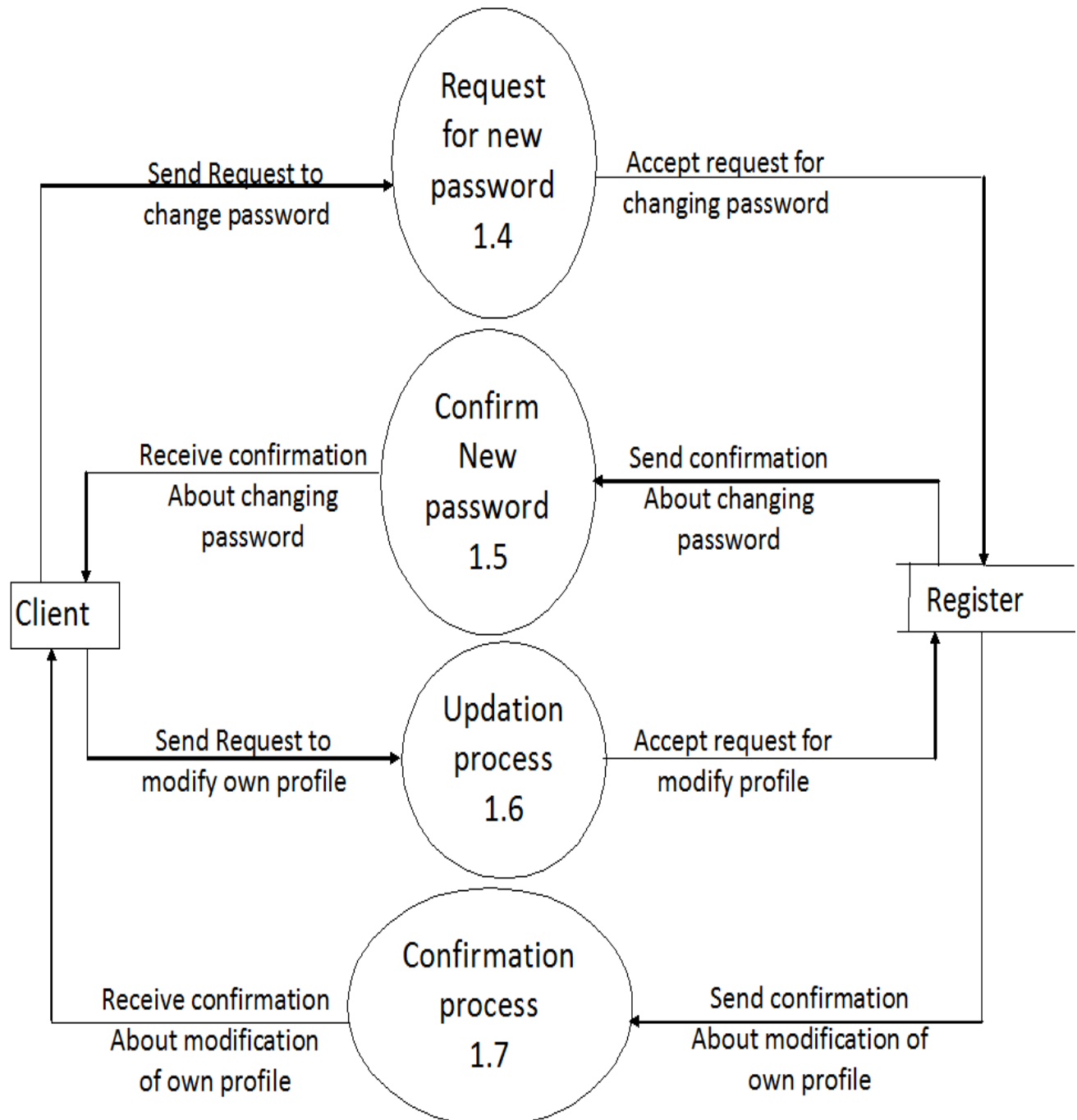
1st level DFD of Employee



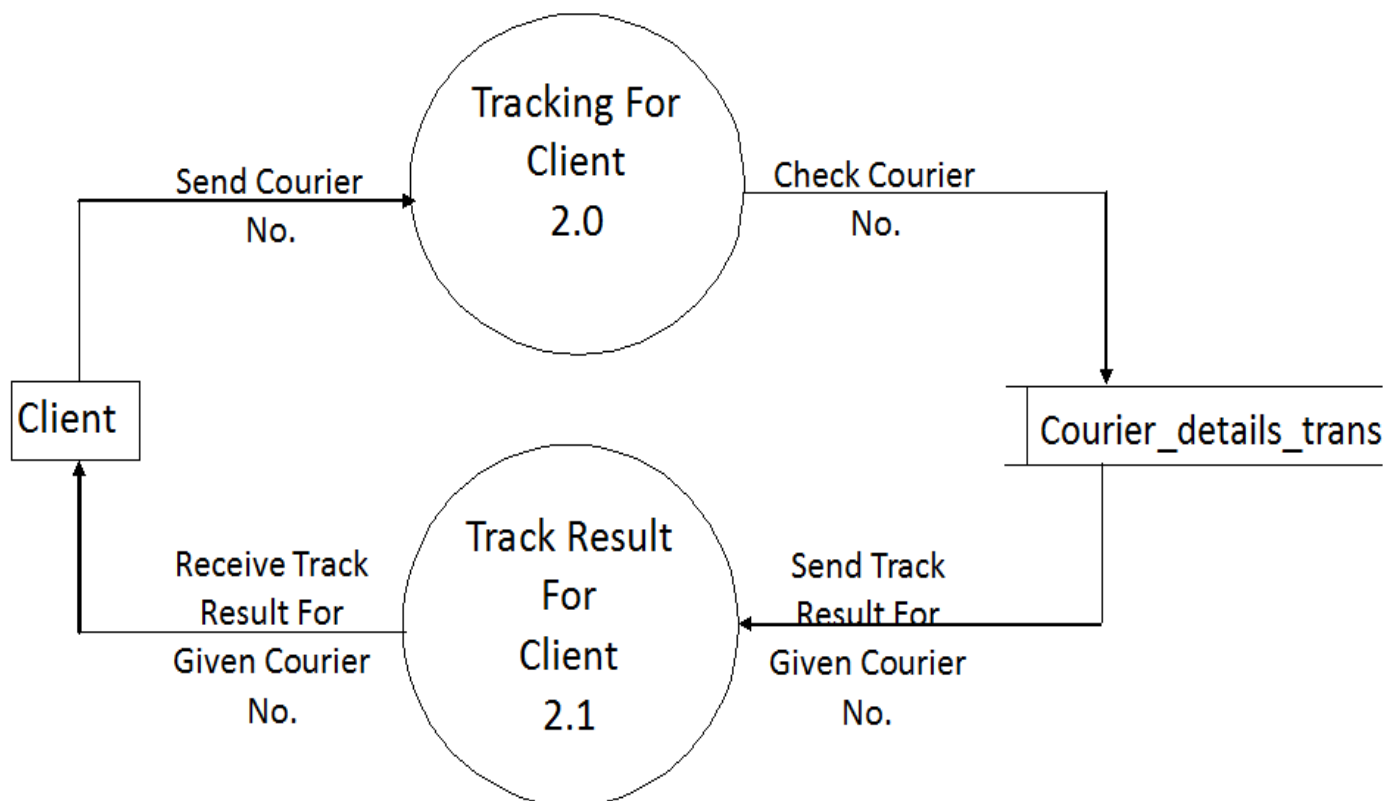
2nd level DFD of Client



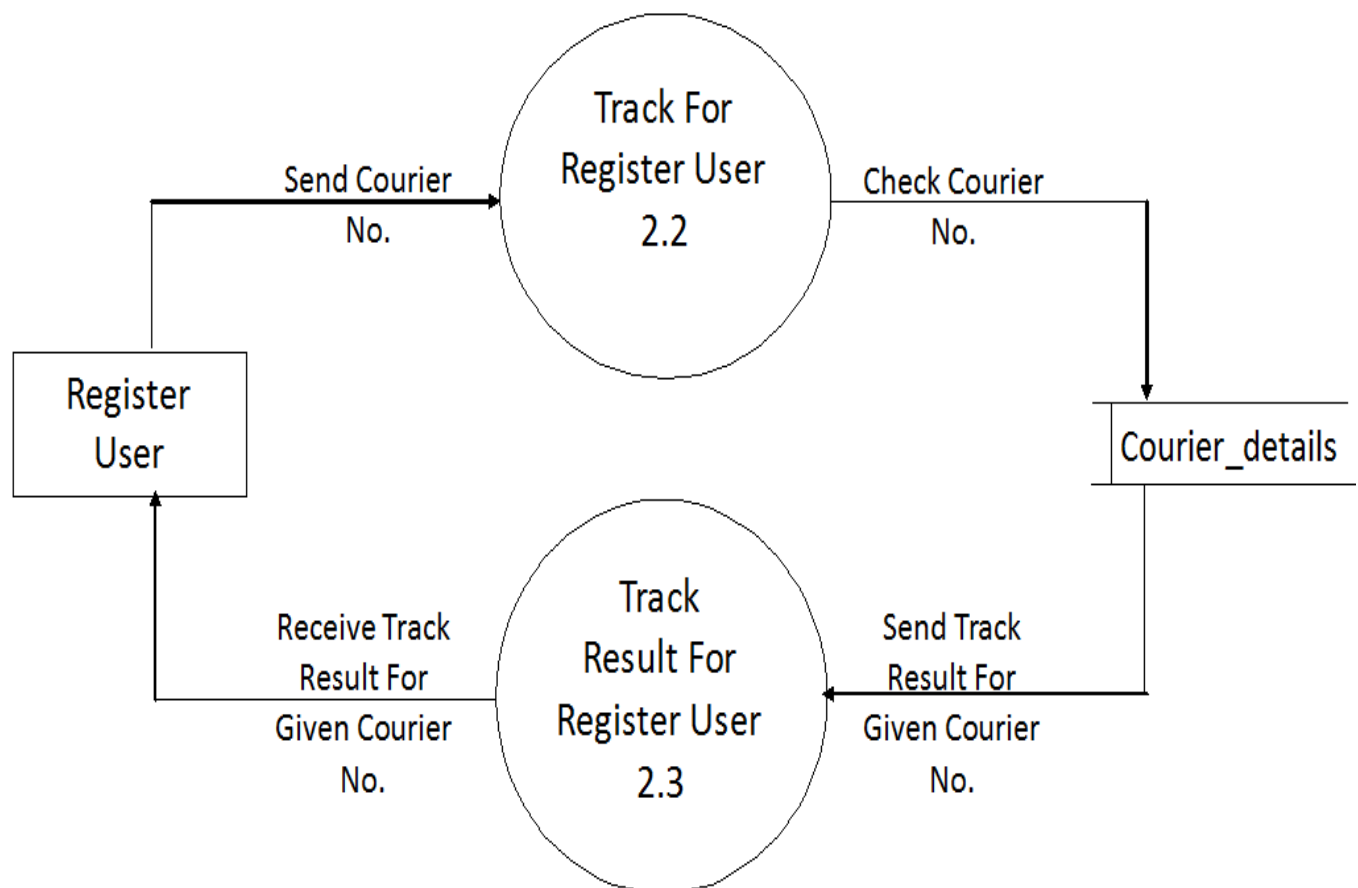
2nd level DFD of Client



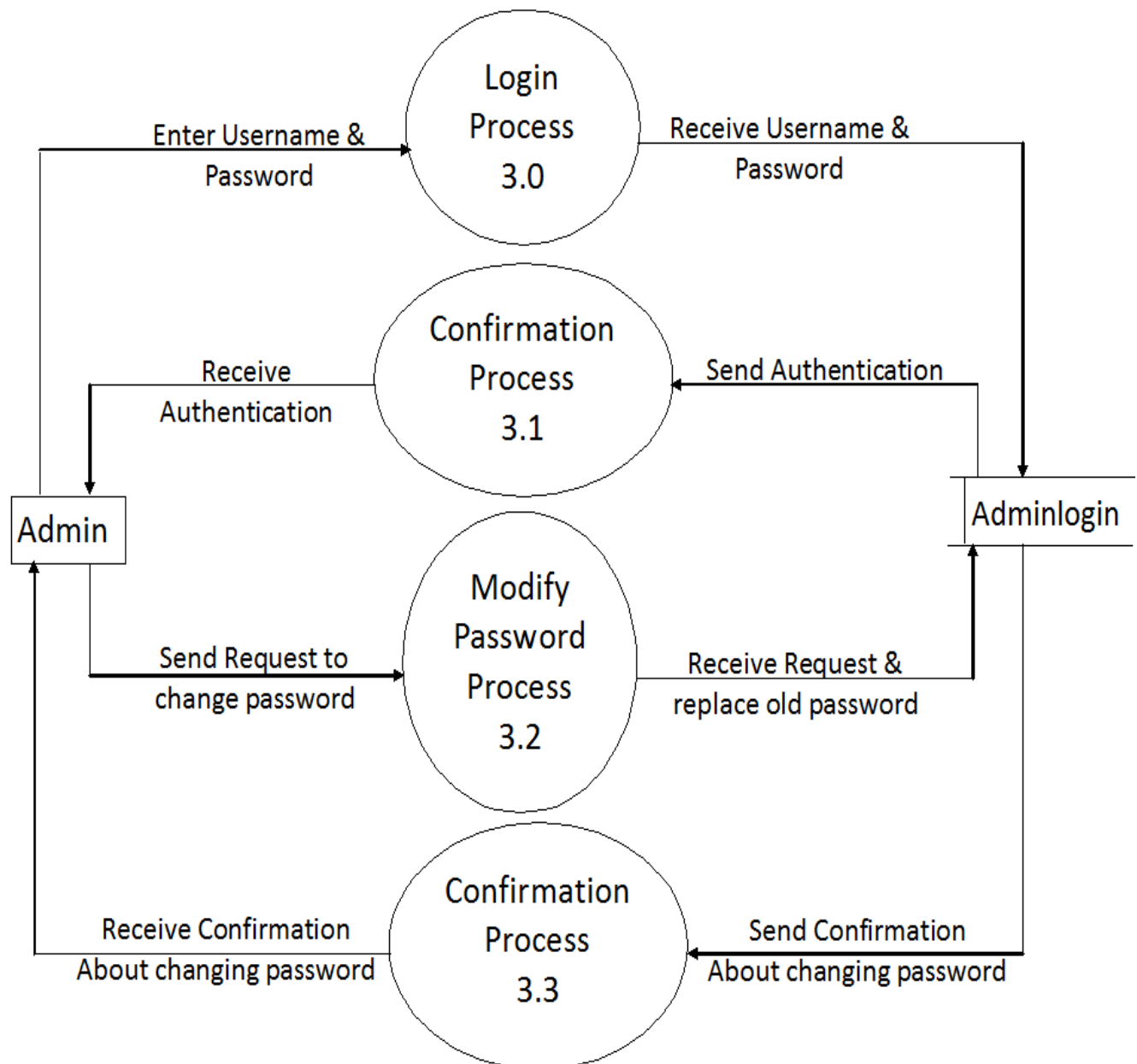
2nd level DFD of Client



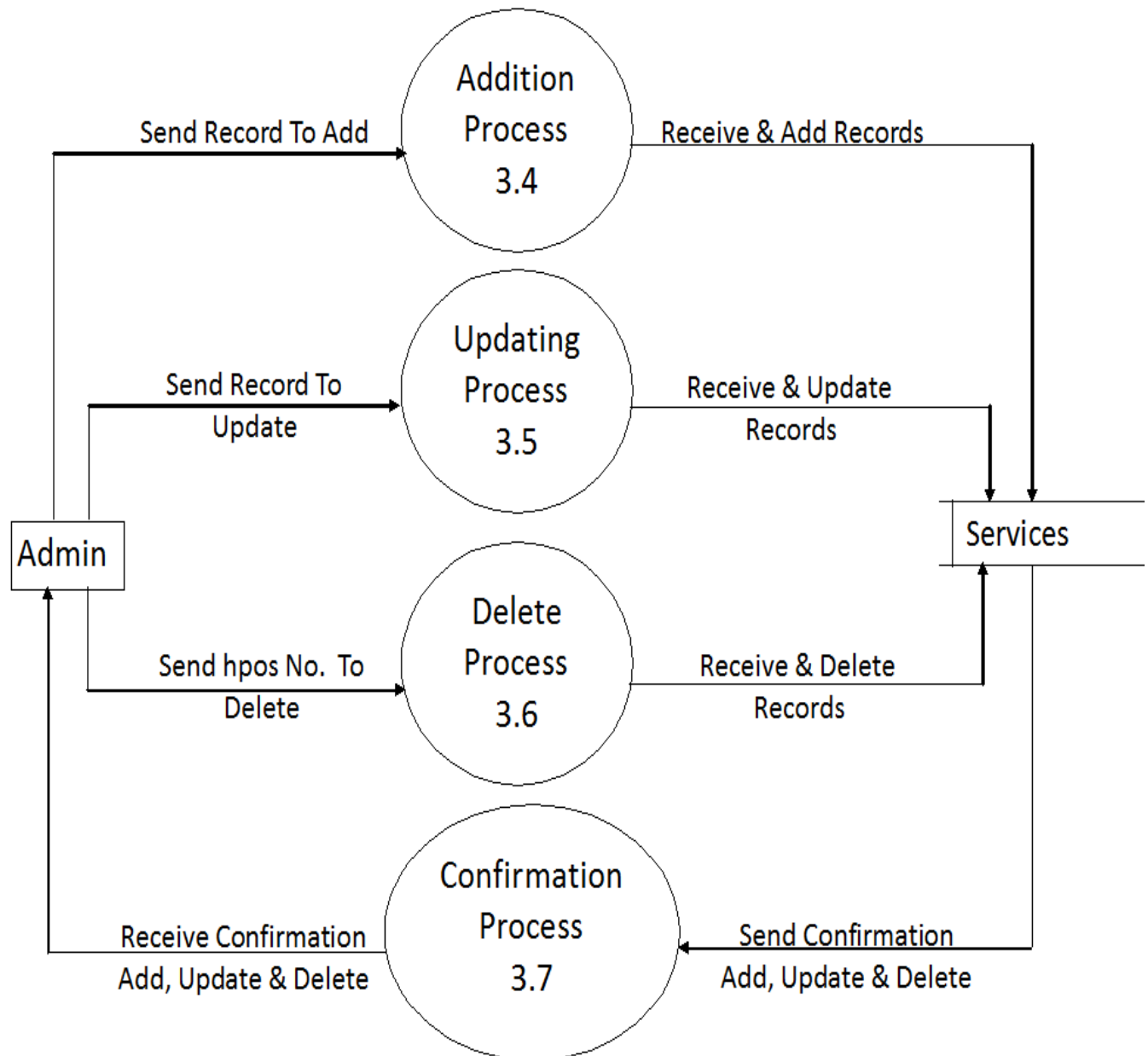
2nd level DFD of Register User



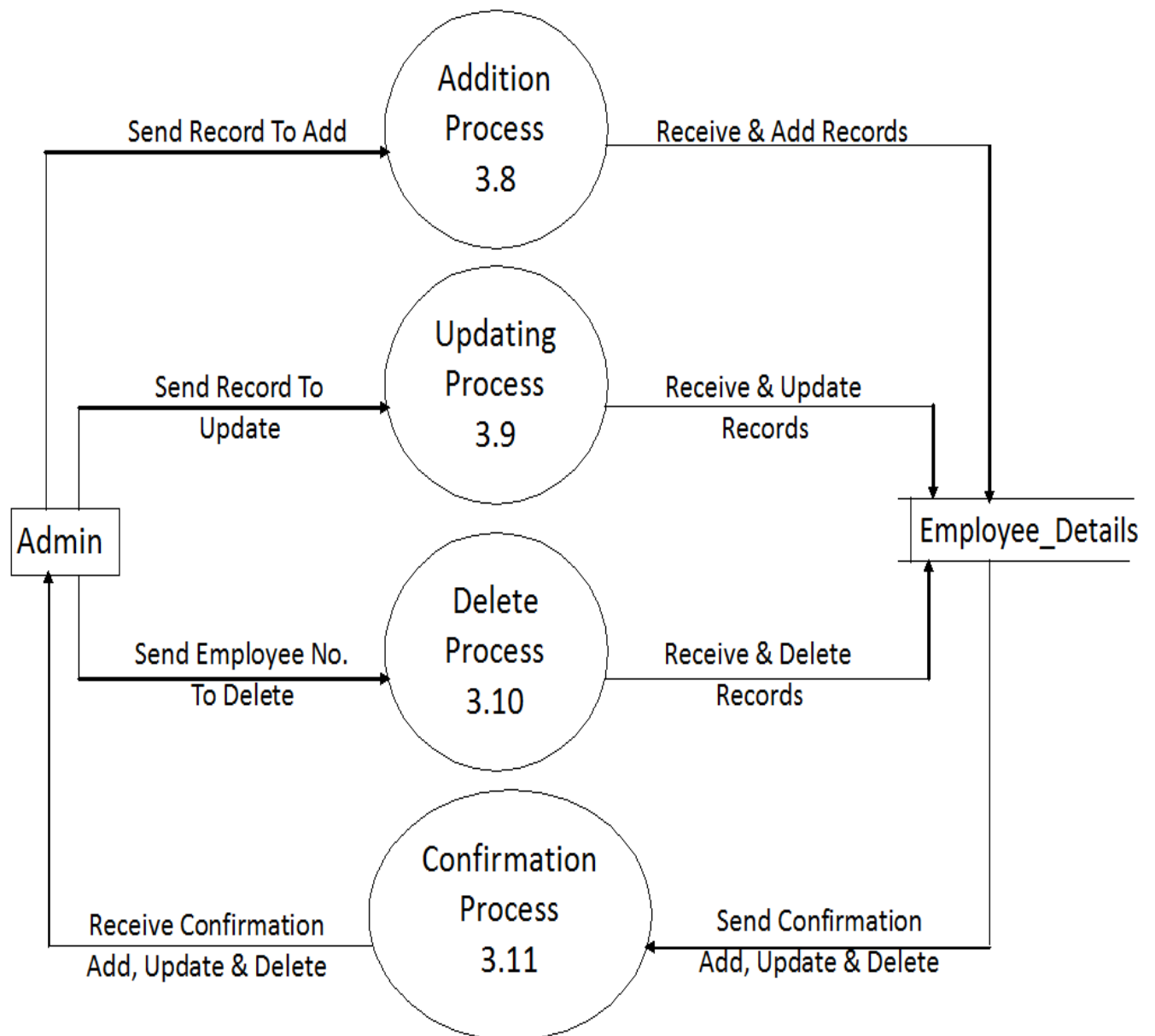
2nd level DFD of Admin



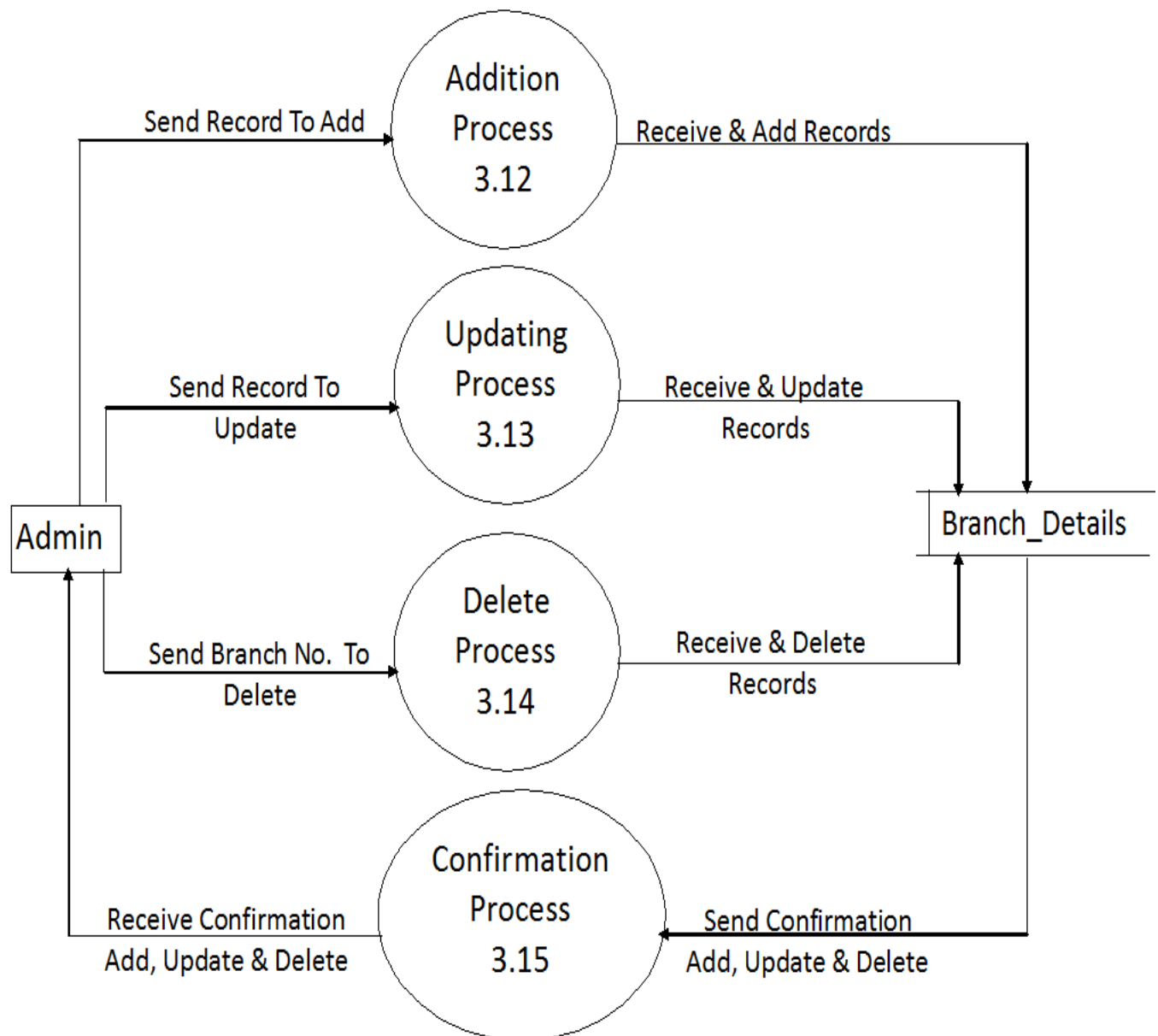
2nd level DFD of Admin



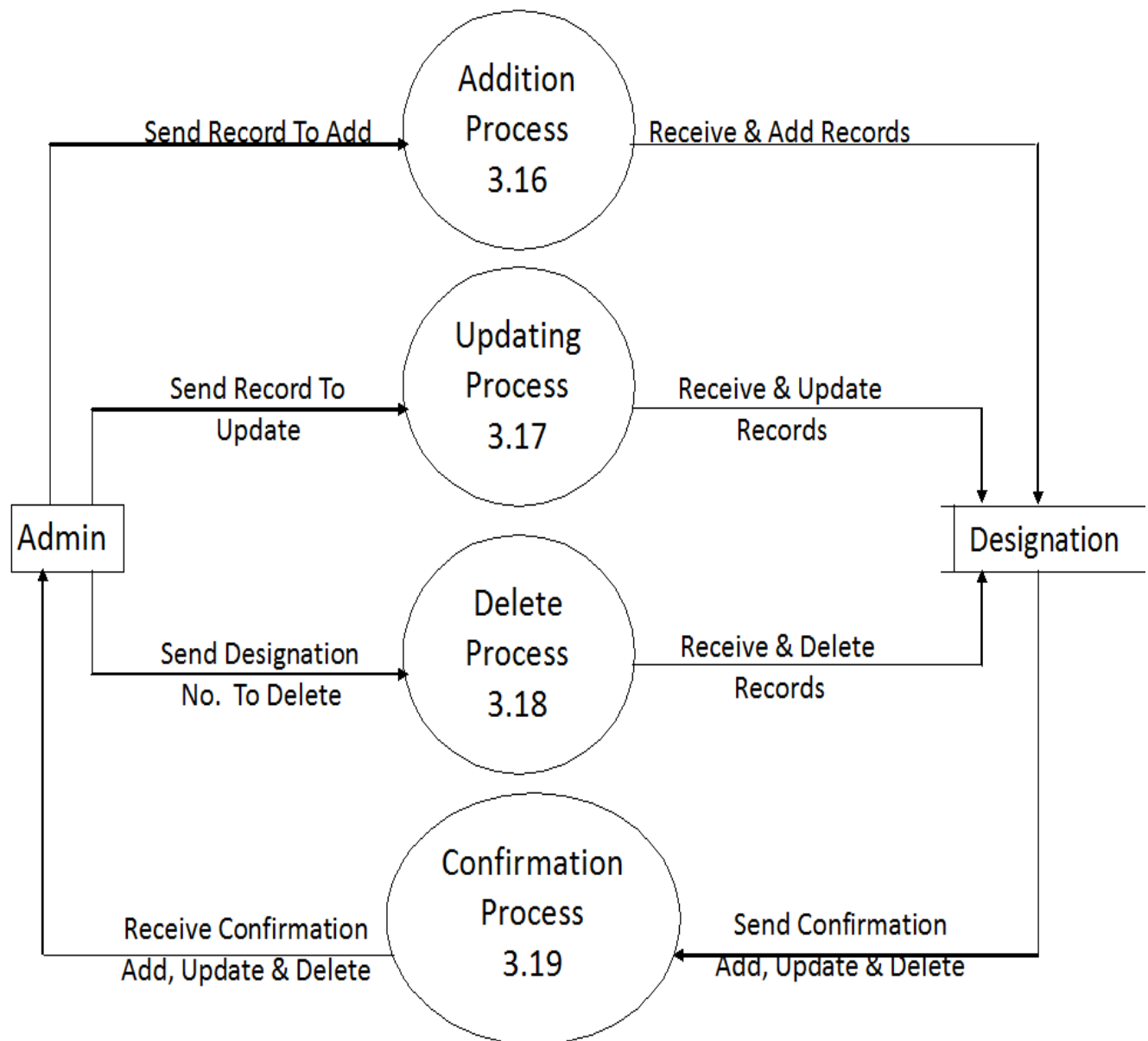
2nd level DFD of Admin



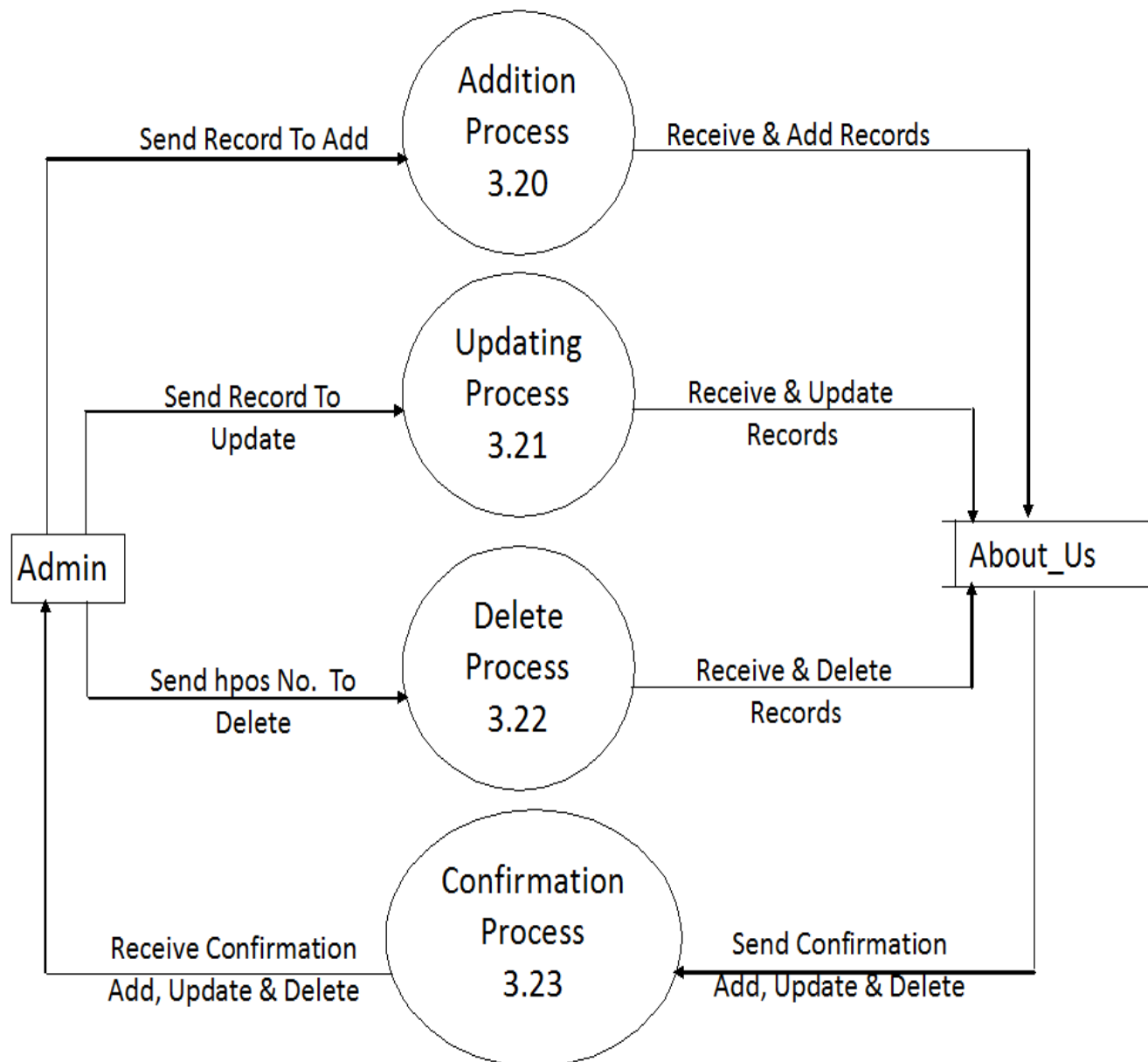
2nd level DFD of Admin



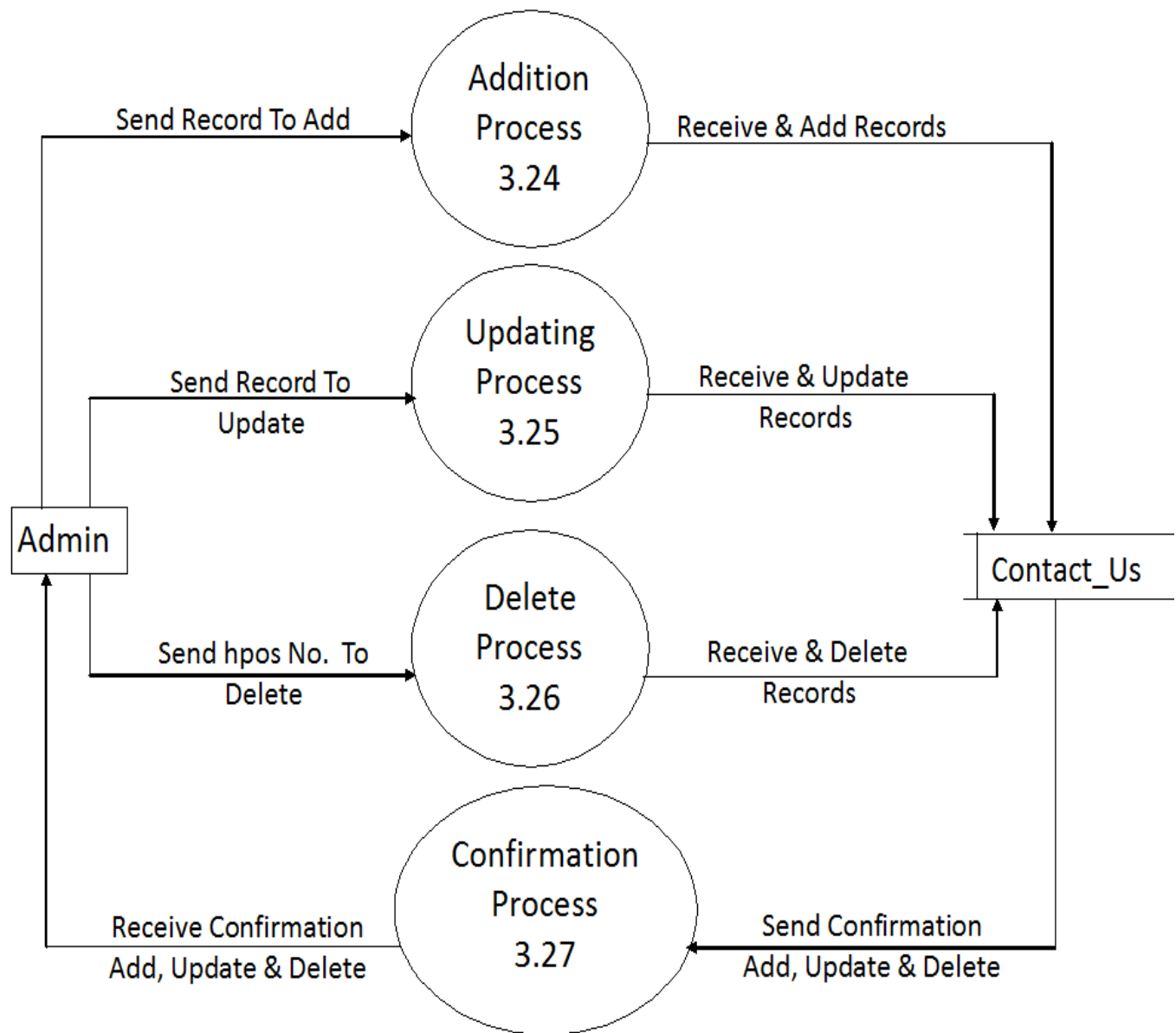
2nd level DFD of Admin



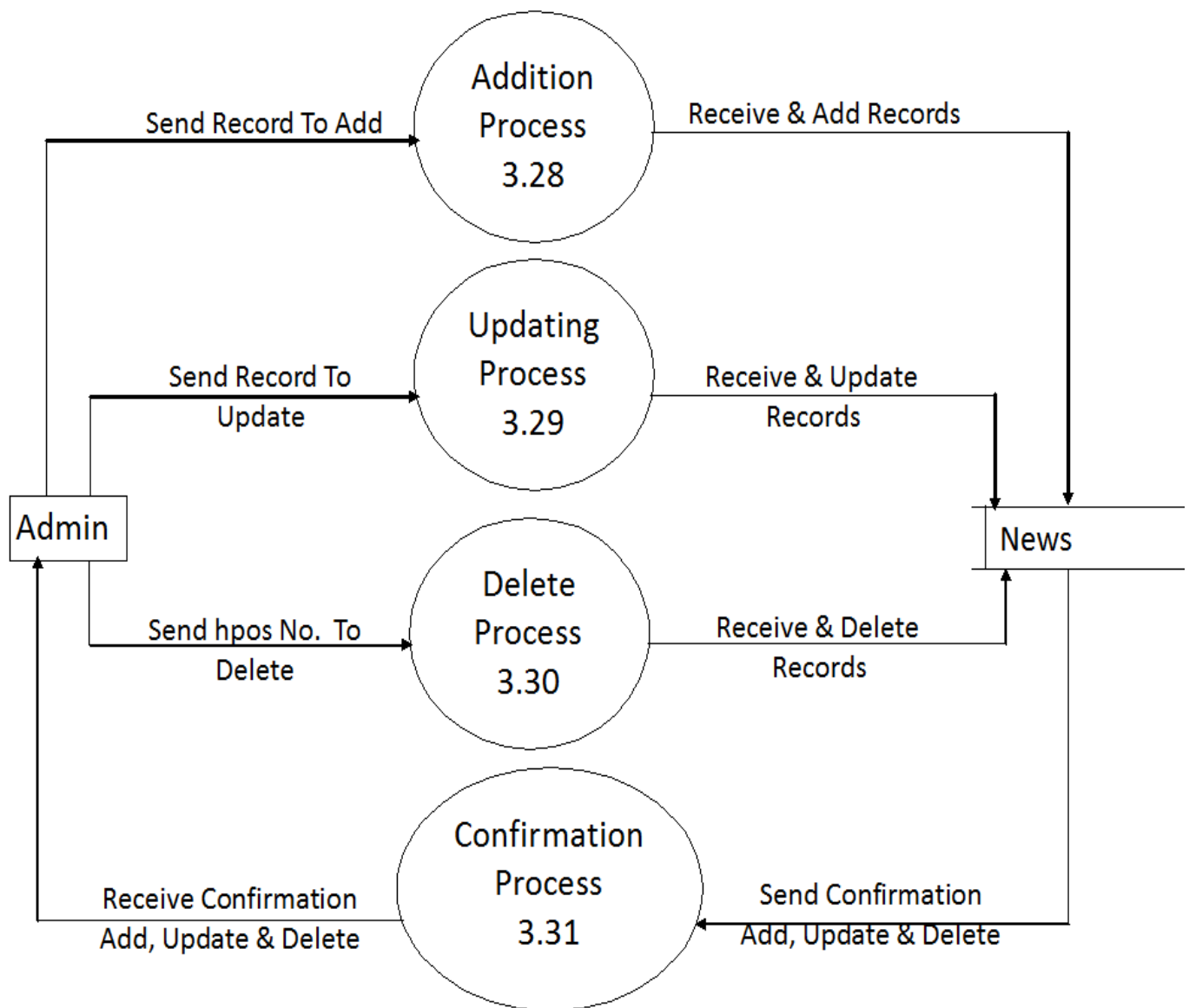
2nd level DFD of Admin



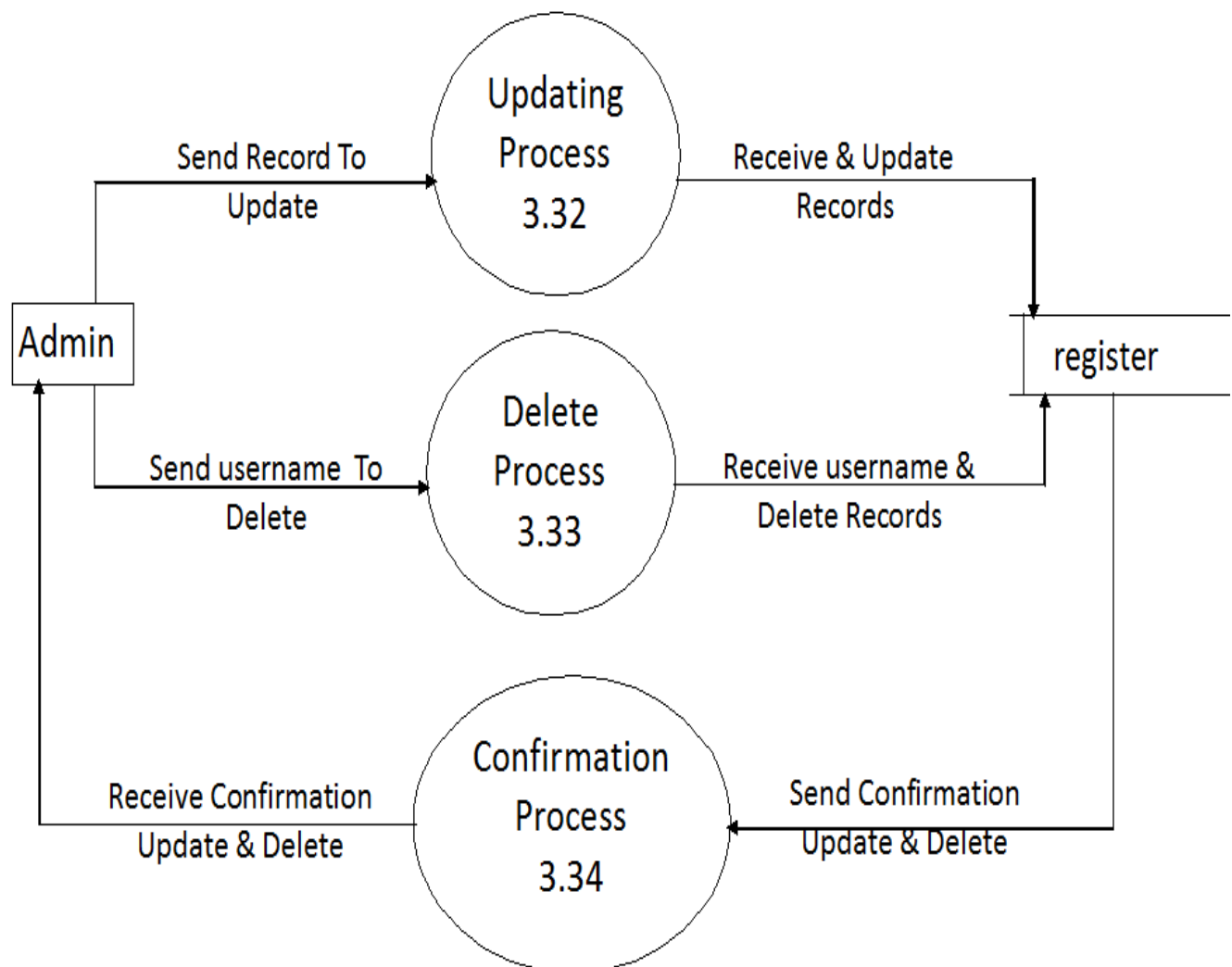
2nd level DFD of Admin



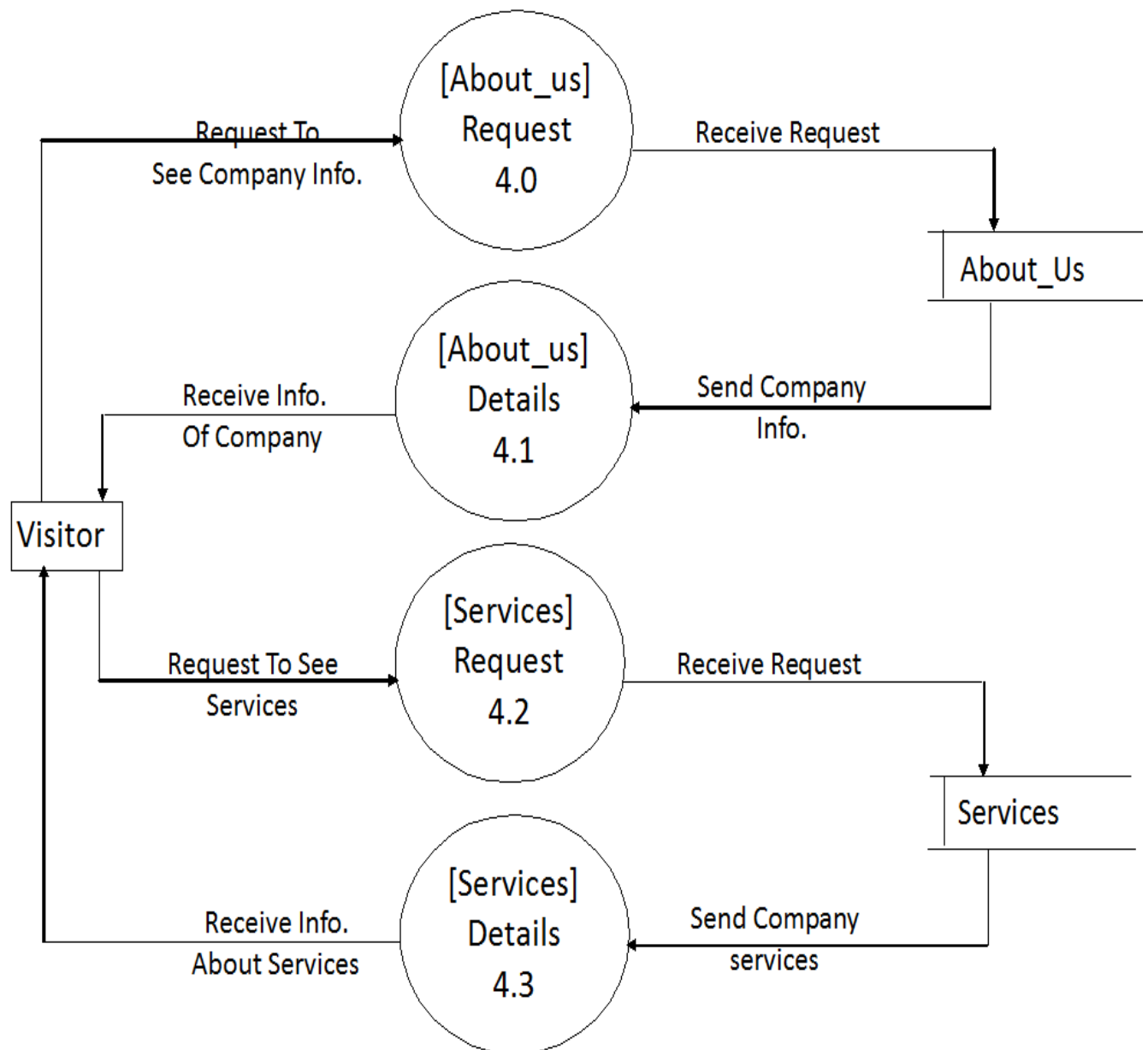
2nd level DFD of Admin



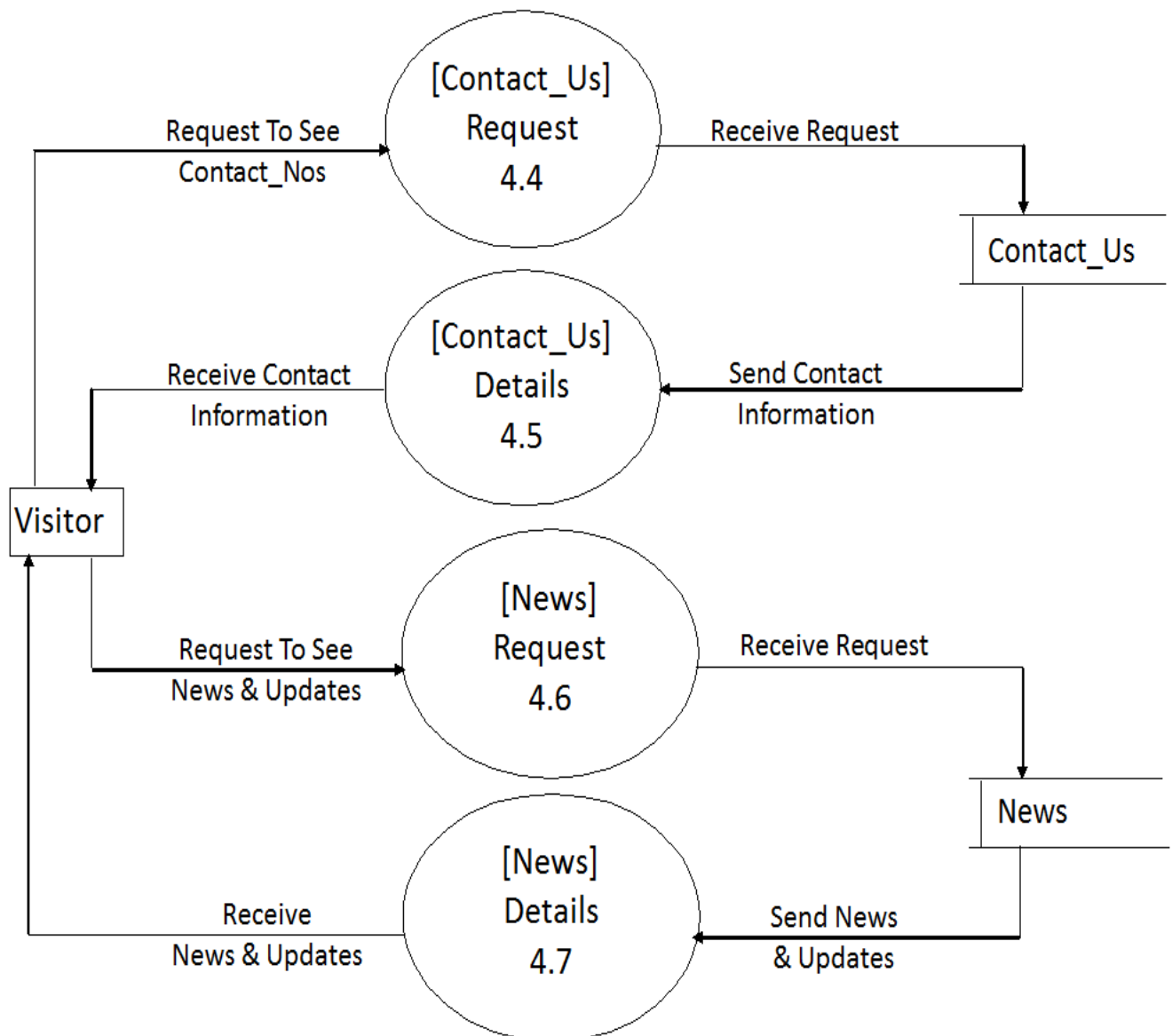
2nd level DFD of Admin



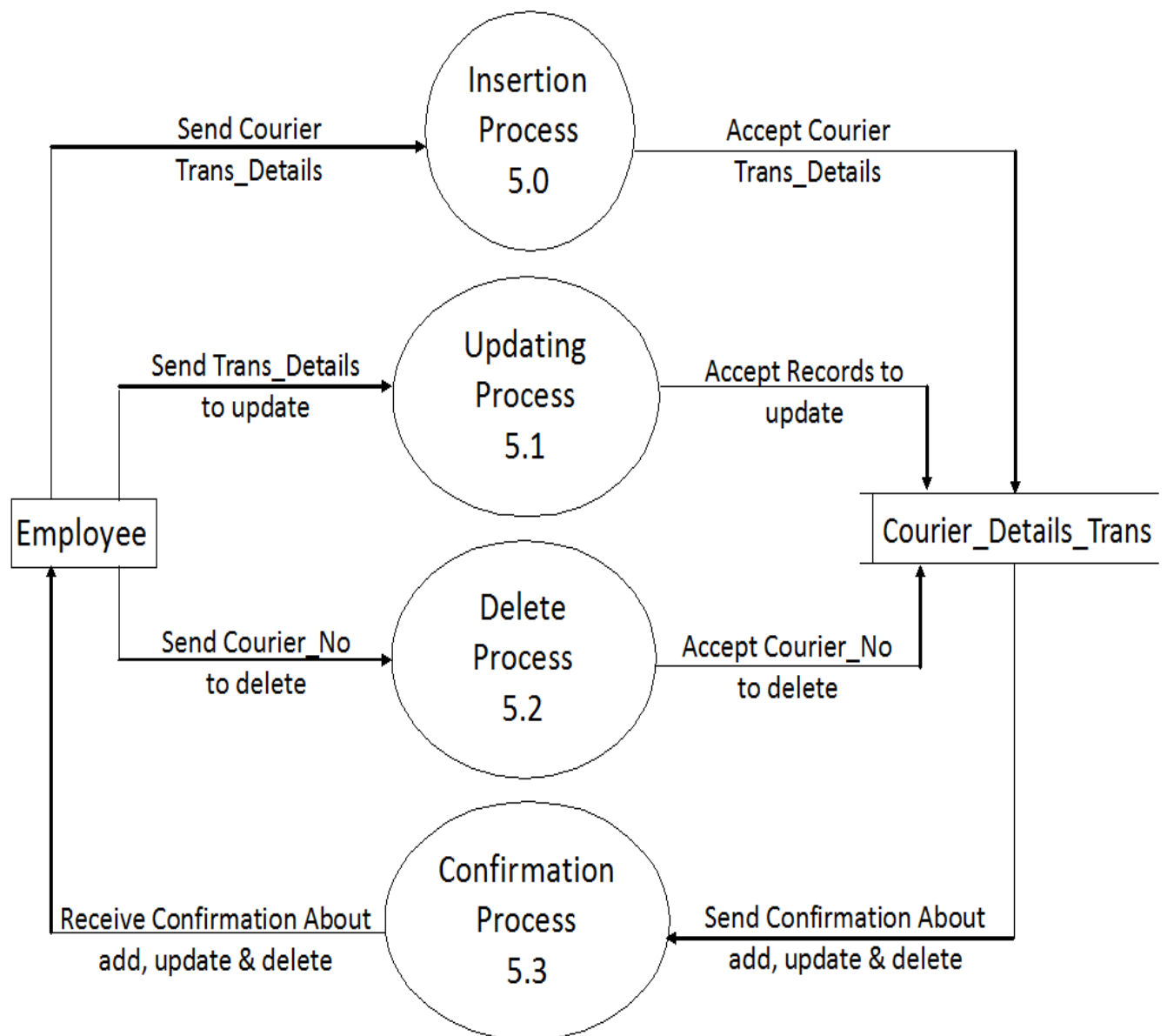
2nd level DFD of Visitor



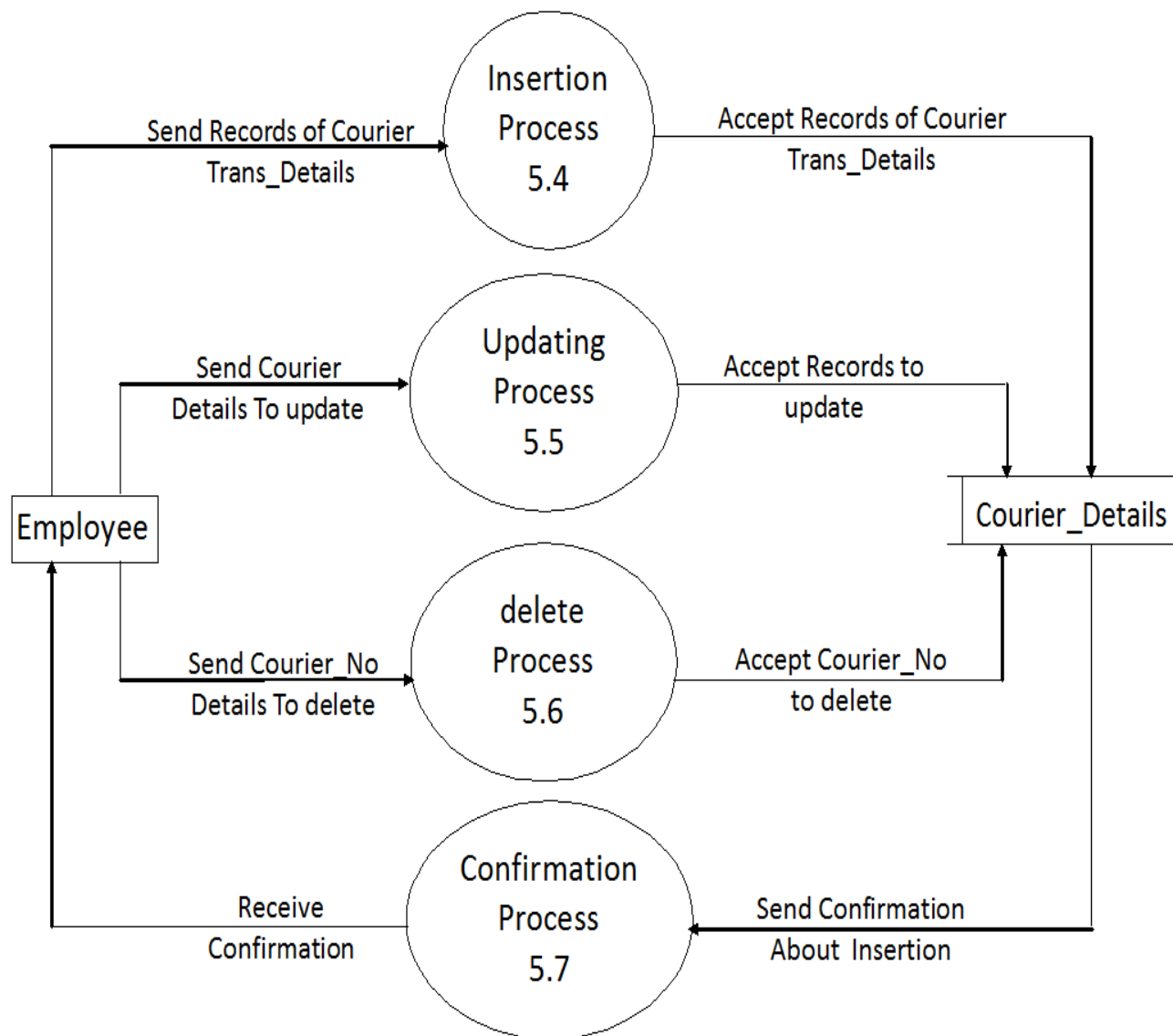
2nd level DFD of Visitor



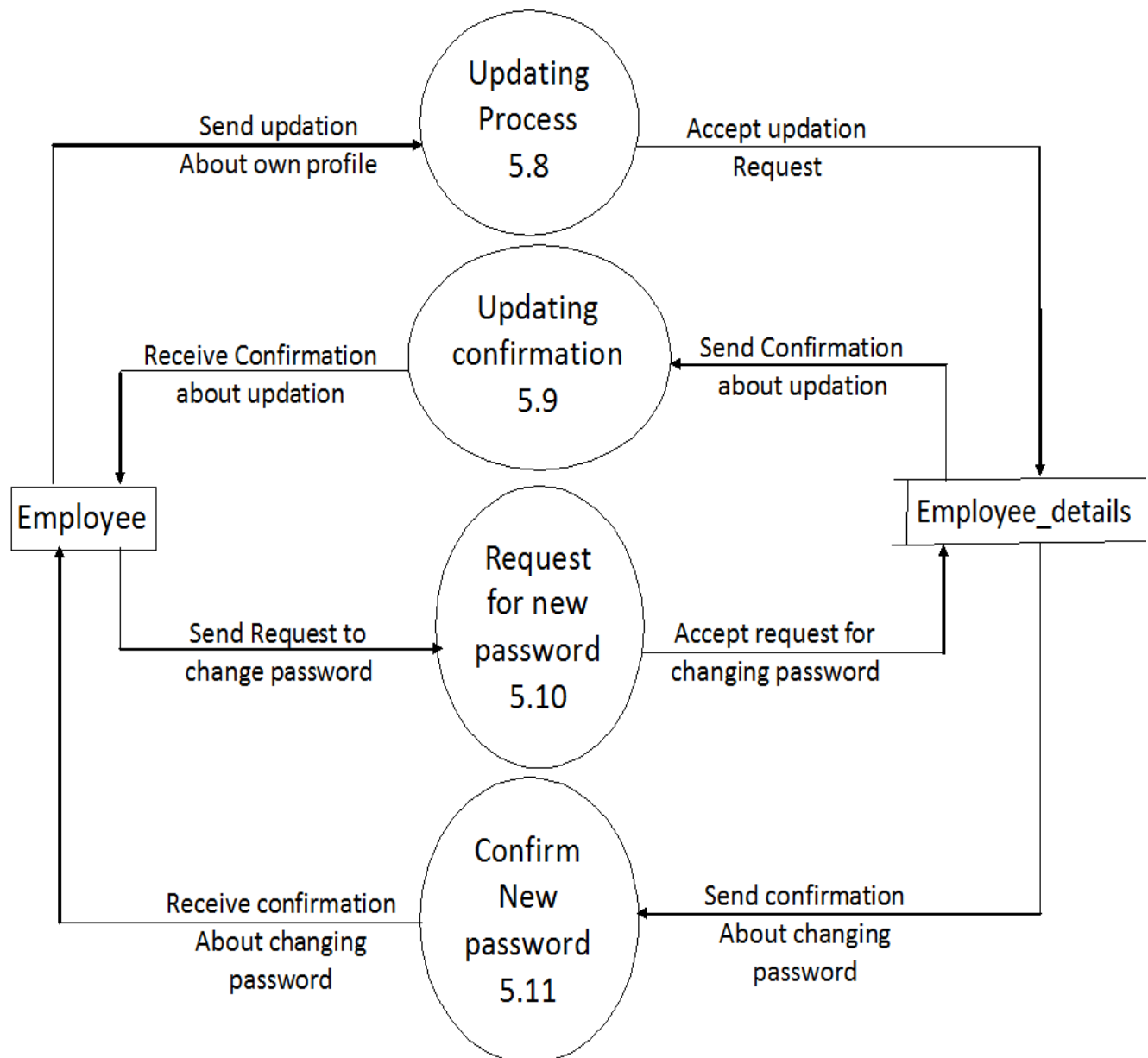
2nd level DFD of Employee



2nd level DFD of Employee

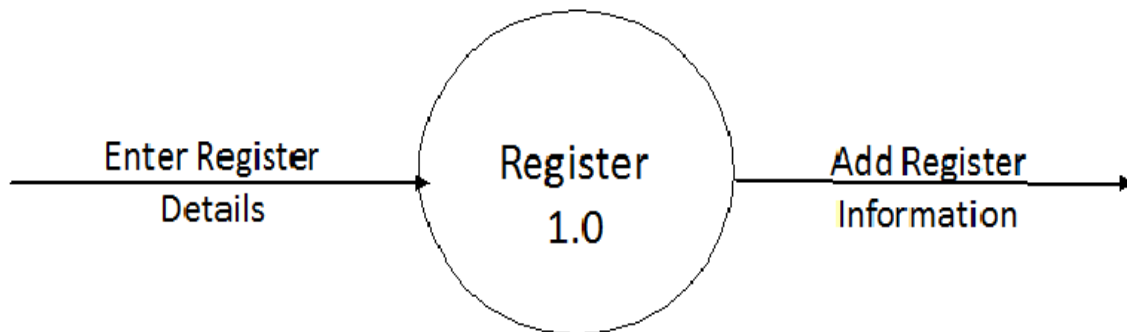


2nd level DFD of Employee



Process specification

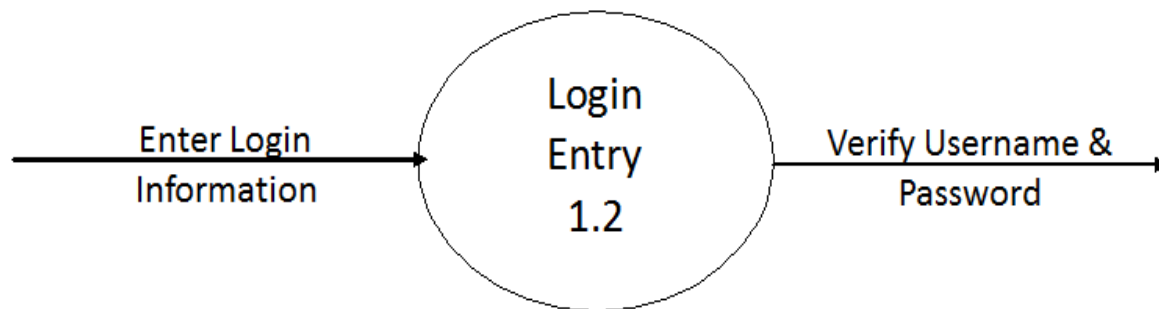
Client Site Processes



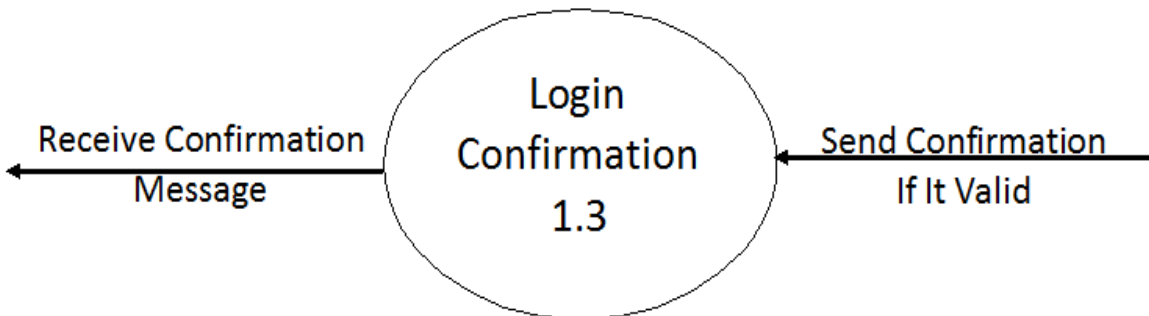
Name:	Register
Input:	client
Output:	Register
Description:	It receive Registration details and insert it into a register table.



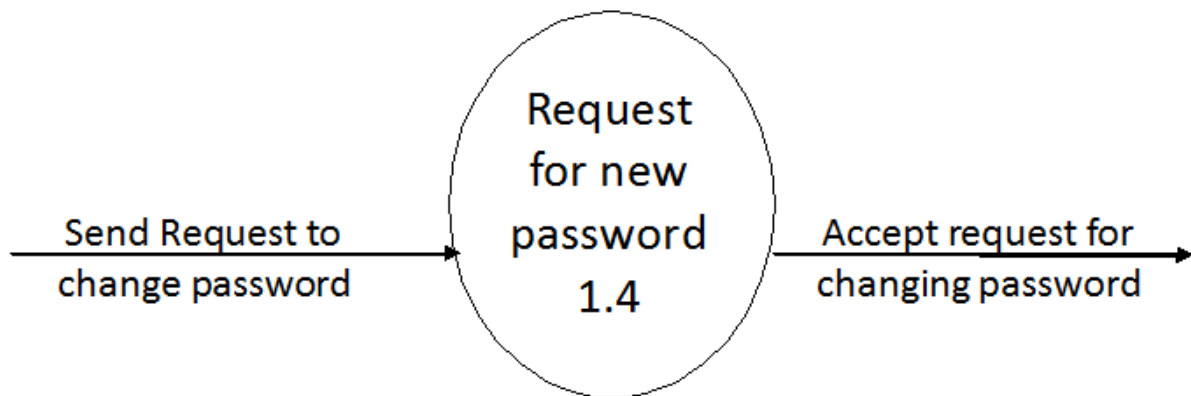
Name:	Register Confirmation
Input:	register
Output:	client
Description:	after inserting registration details send confirmation to client.



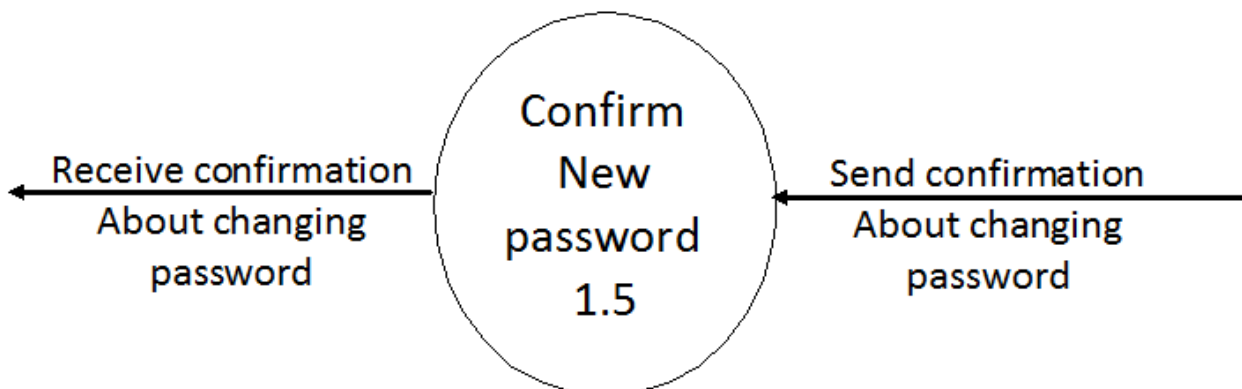
Name:	Login Entry
Input:	client
Output:	Register
Description:	It receive login details and checks whether its valid or not.



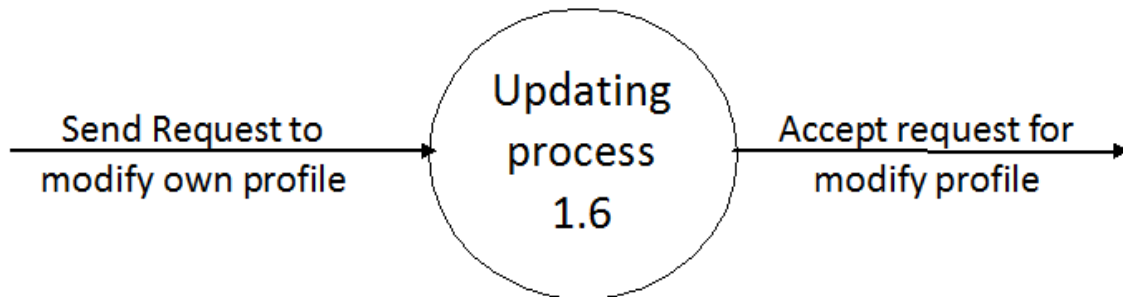
Name:	Login Confirmation
Input:	register
Output:	client
Description:	after checking user_name and password, send confirmation only if user_name and password are valid.



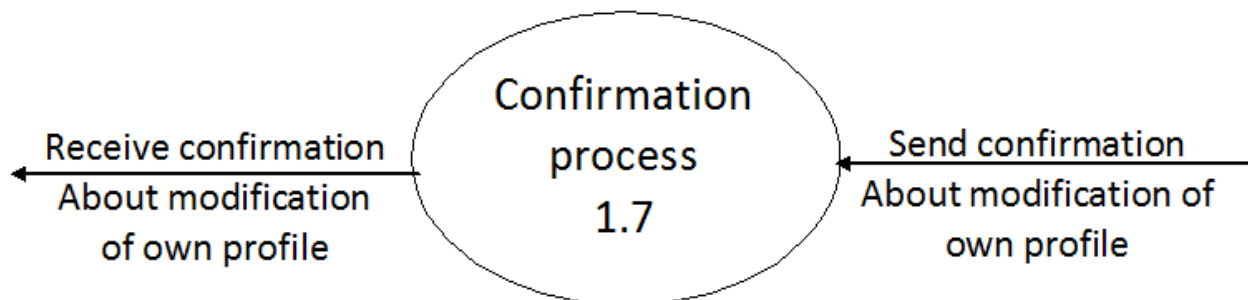
Name:	Request for New Password
Input:	client
Output:	Register
Description:	It send request to change password & register accept that request.



Name:	Confirm New Password
Input:	register
Output:	client
Description:	After accepting request it send conformation that password is now changed.



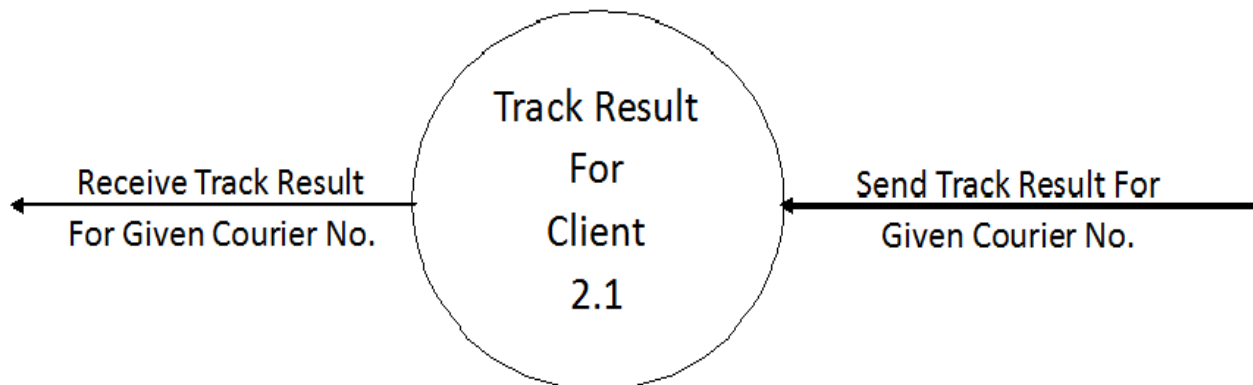
Name:	Updating process for own profile
Input:	client
Output:	Register
Description:	It send request to modify own profile & register accept that request.



Name:	Confirmation process
Input:	register
Output:	client
Description:	After accepting request it send conformation that profile is now modified.



Name:	Tracking for Client
Input:	client
Output:	courier_detail_trans
Description:	It receive client no n checks whether its valid or not.



Name:	Track Result For Client
Input:	courier_details_trans
Output:	client
Description:	after checking courier no, send tracking result only if courier no is valid.

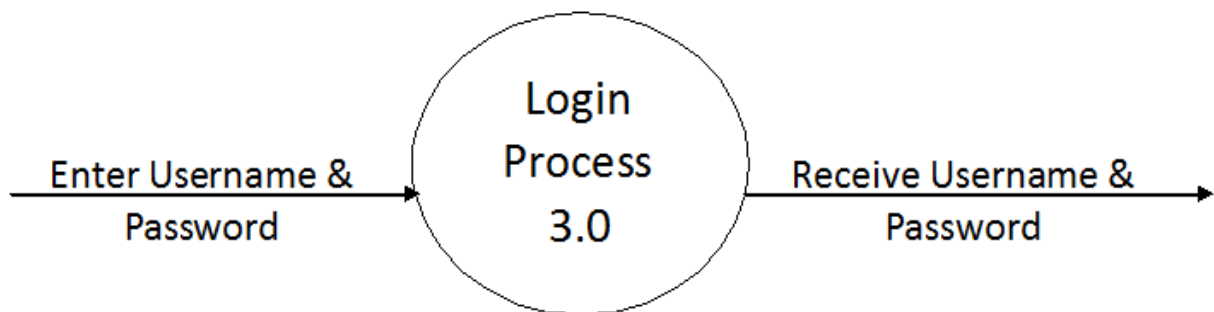


Name:	Tracking for Client
Input:	Register user
Output:	courier_details
Description:	It receive courier no and checks whether its valid or not.

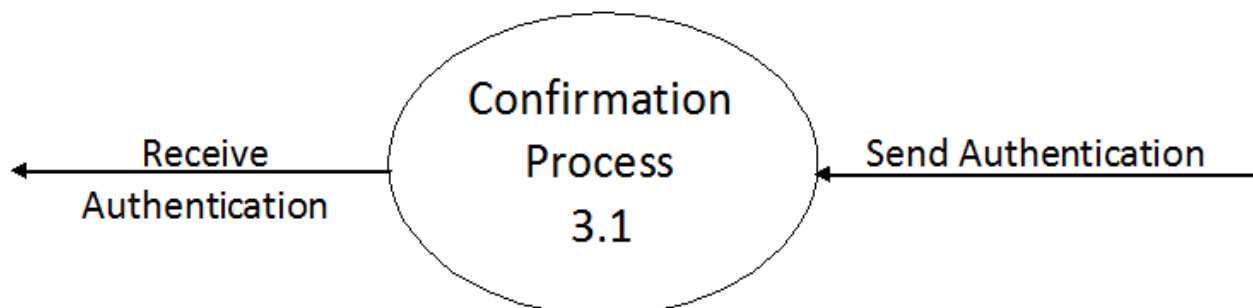


Name:	Track Result For Client
Input:	courier_details
Output:	Register user
Description:	after checking courier no, send Result of tracking only if courier no is valid.

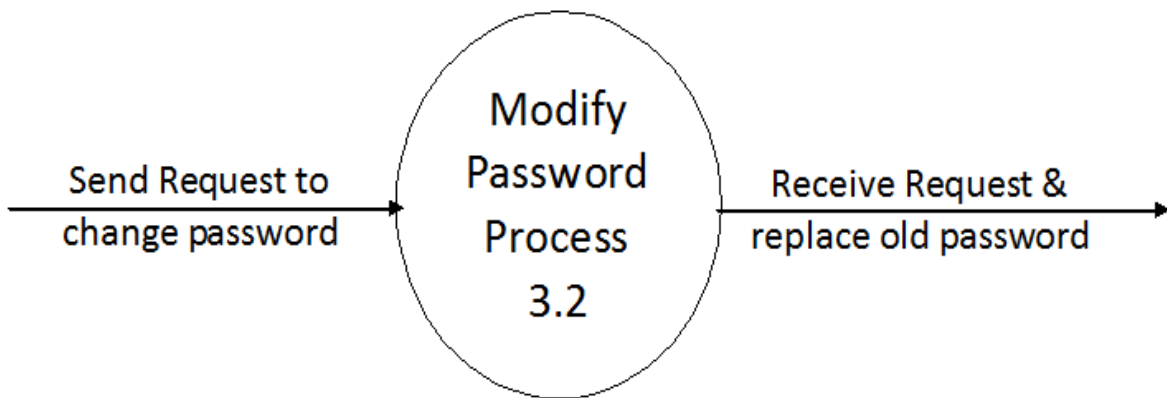
Admin Site Processes



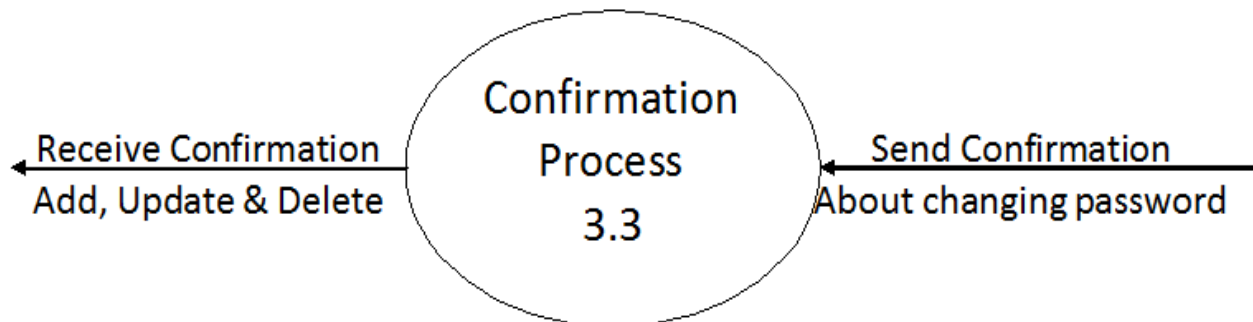
Name:	Login Process
Input:	admin
Output:	adminlogin
Description:	It receive username & password and check whether its right or wrong



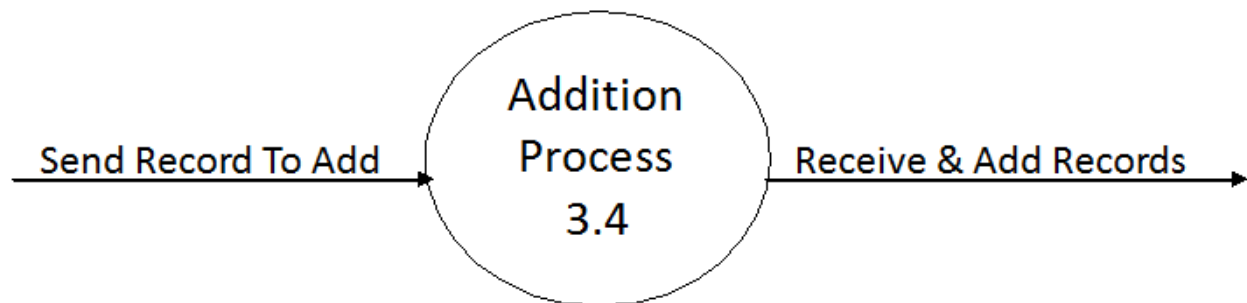
Name:	confirmation Process
Input:	admin
Output:	adminlogin
Description:	it check username & password and send authentication if its valid.



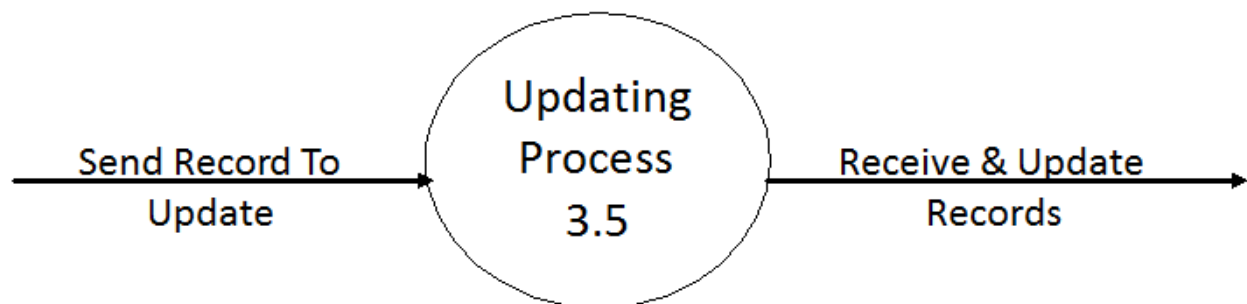
Name:	Modify Password Process
Input:	admin
Output:	adminlogin
Description:	It send request to change password and replace the new password with old password.



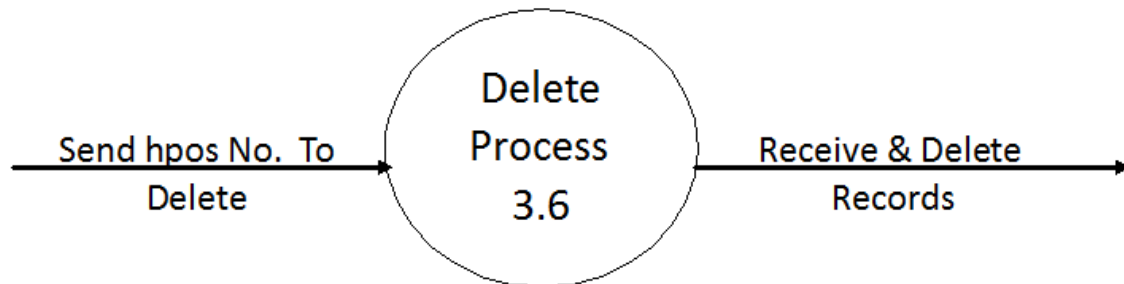
Name:	confirmation Process
Input:	adminlogin
Output:	admin
Description:	It replace the old password with the new password and send authentication.



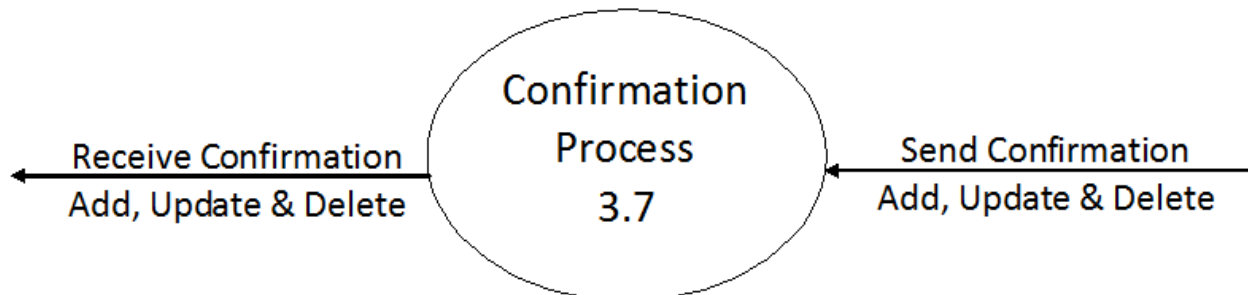
Name:	Addition Process
Input:	admin
Output:	services
Description:	It receive records and insert it into table



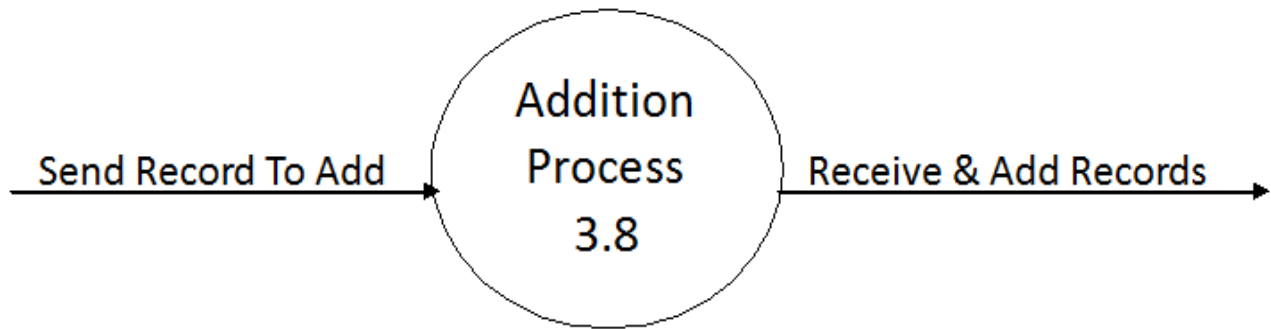
Name:	Updating Process
Input:	admin
Output:	services
Description:	It receive records and Update it into table



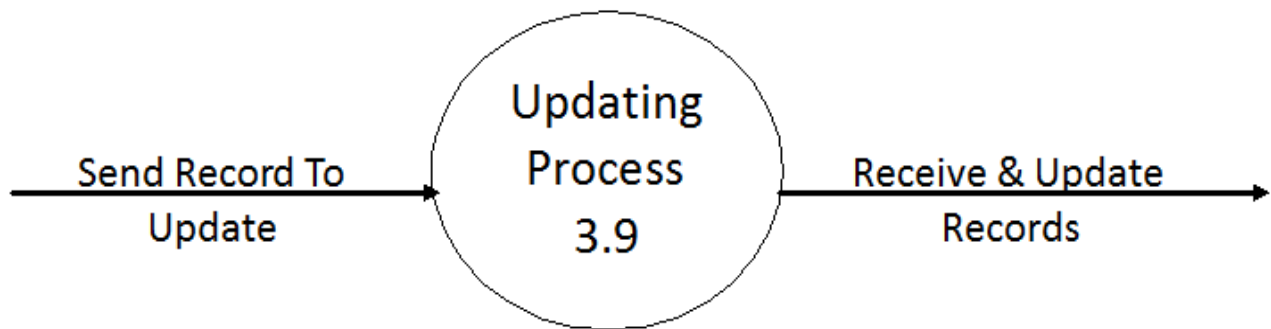
Name:	Delete Process
Input:	admin
Output:	services
Description:	It receive hpos no. and delete it from table.



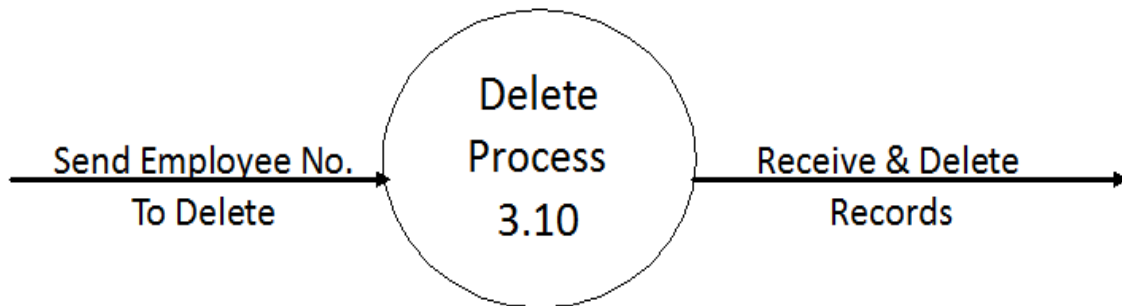
Name:	confirmation Process
Input:	services
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully otherwise send error message.



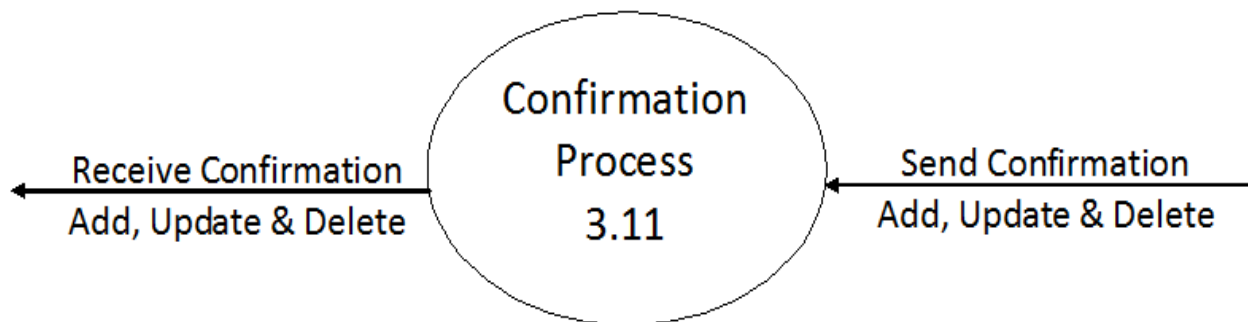
Name:	Addition Process
Input:	admin
Output:	employee_details
Description:	It receive records and insert it into table



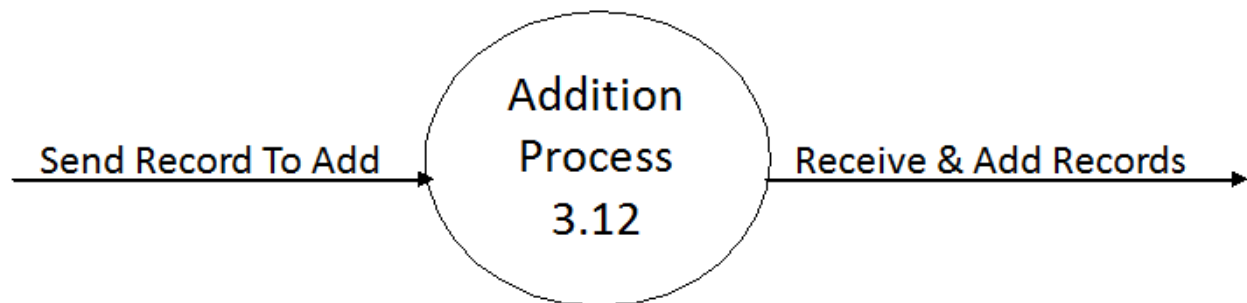
Name:	Updating Process
Input:	admin
Output:	employee_details
Description:	It receive records and Update it into table



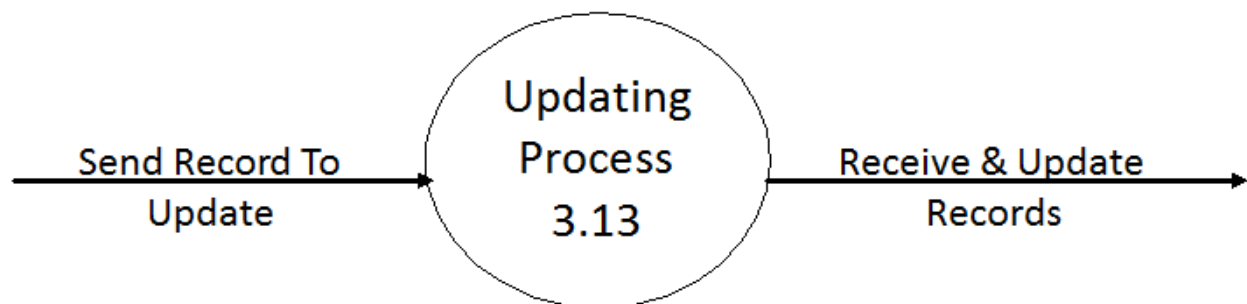
Name:	Delete Process
Input:	admin
Output:	employee_details
Description:	It receive employee no and delete it from table



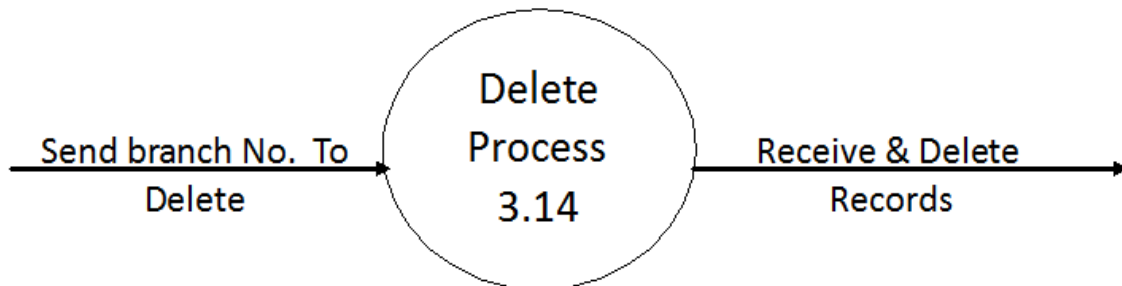
Name:	confirmation Process
Input:	employee_details
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



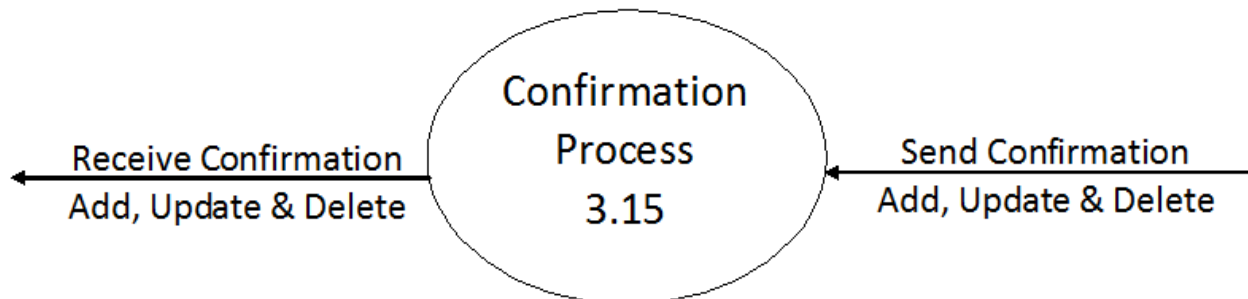
Name:	Addition Process
Input:	admin
Output:	branch_details
Description:	It receive records and insert it into table



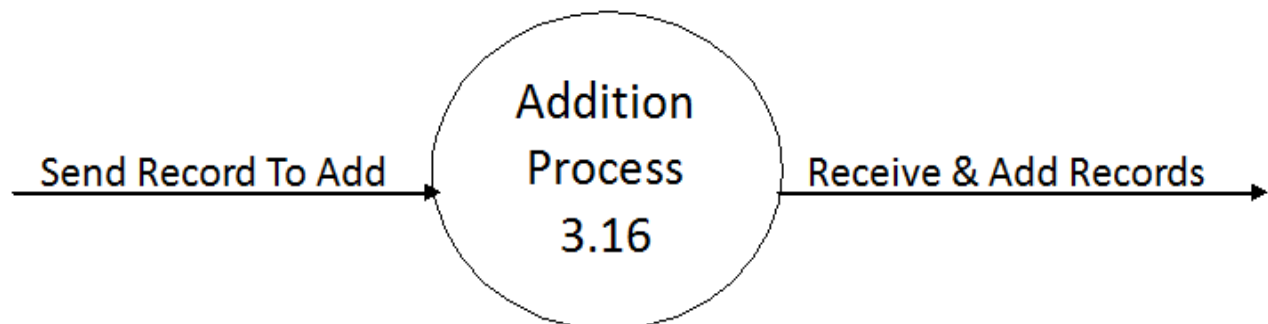
Name:	Updating Process
Input:	admin
Output:	branch_details
Description:	It receive records and Update it into table



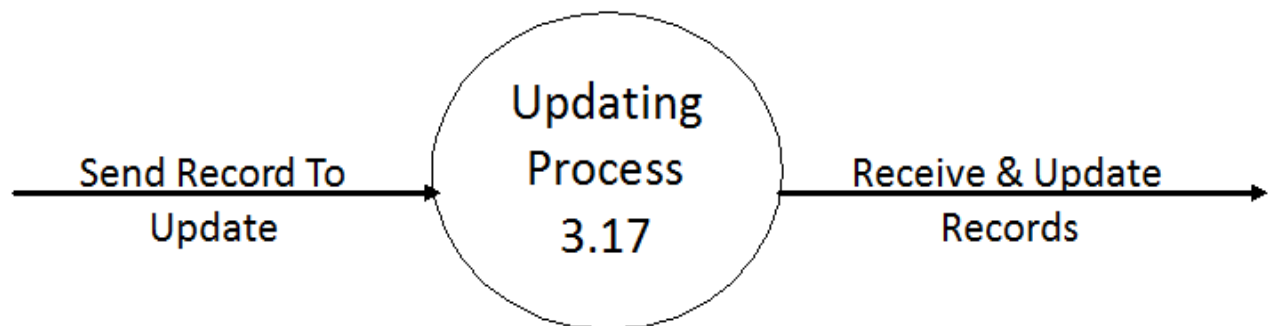
Name:	Delete Process
Input:	admin
Output:	branch_details
Description:	It receive branch no and delete it from table



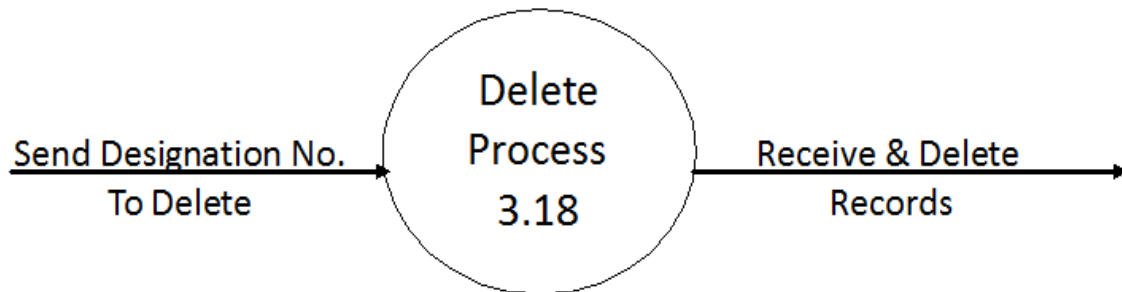
Name:	confirmation Process
Input:	branch_details
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



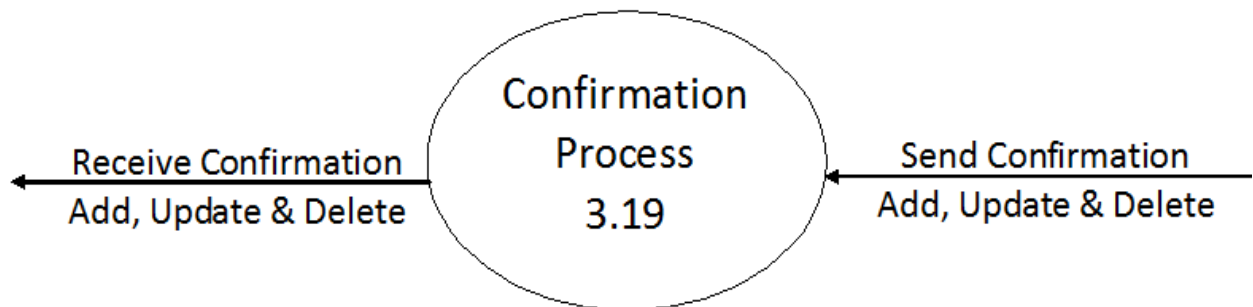
Name:	Addition Process
Input:	admin
Output:	designation
Description:	It receive records and insert it into table



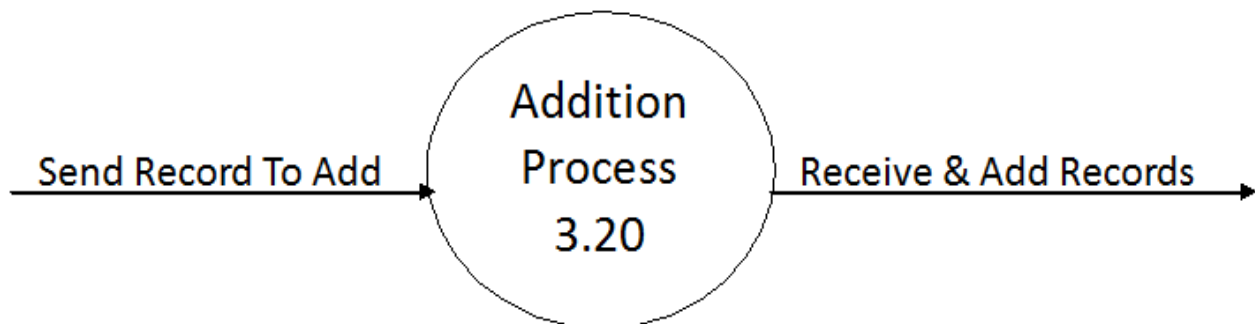
Name:	Updating Process
Input:	admin
Output:	designation
Description:	It receive records and Update it into table



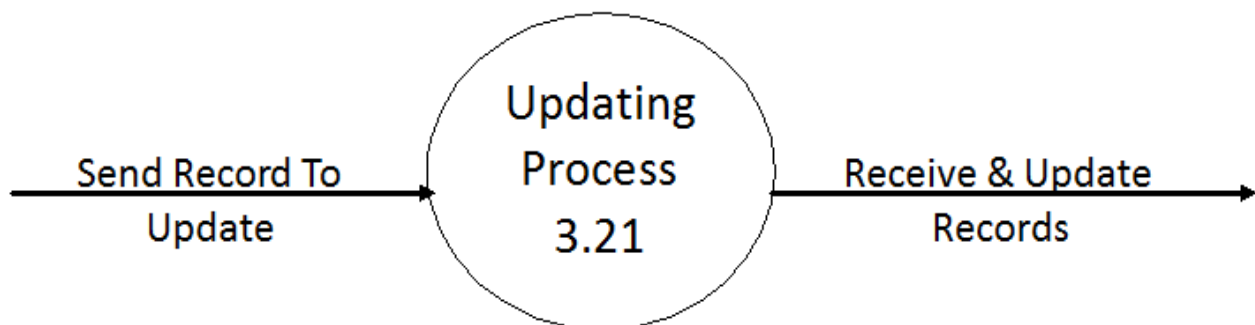
Name:	Delete Process
Input:	admin
Output:	designation
Description:	It receive designation no and delete it from table



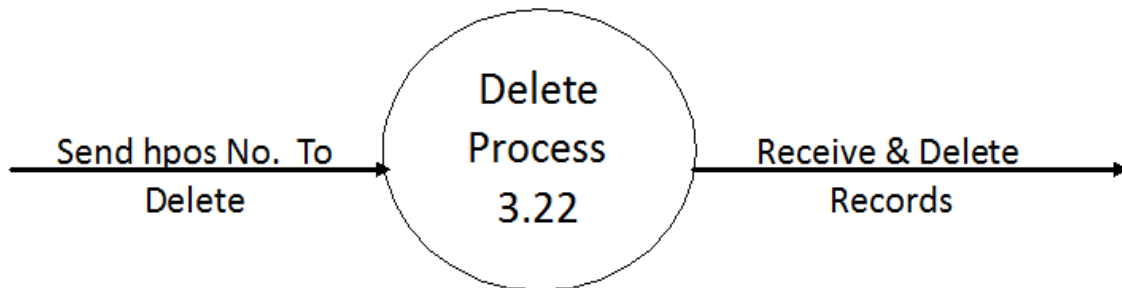
Name:	confirmation Process
Input:	designation
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



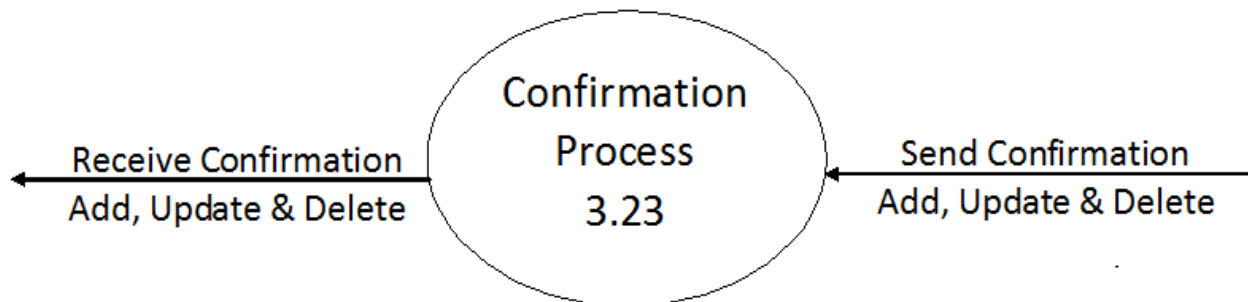
Name:	Addition Process
Input:	admin
Output:	about_us
Description:	It receive records and insert it into table



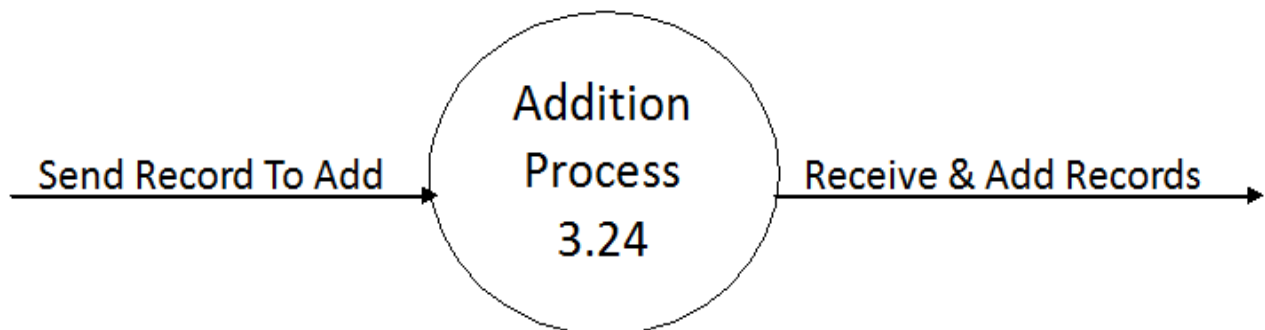
Name:	Updating Process
Input:	admin
Output:	about_us
Description:	It receive records and Update it into table



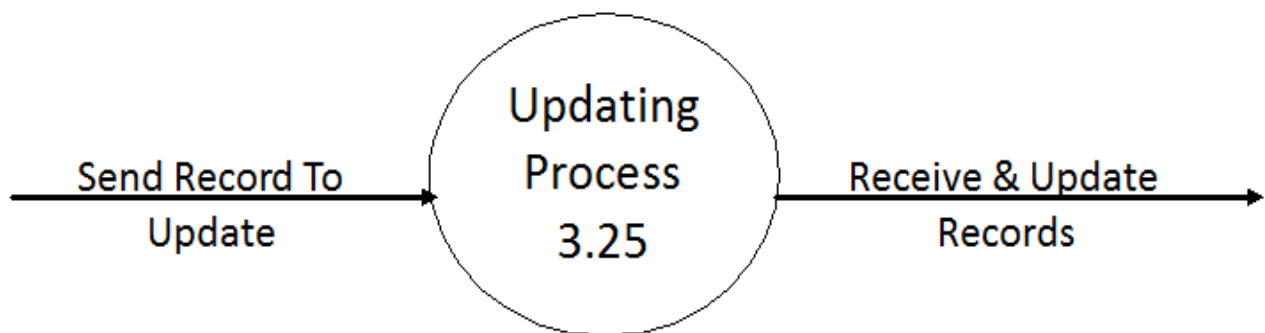
Name:	Delete Process
Input:	admin
Output:	about_us
Description:	It receive hpos no and delete it from table



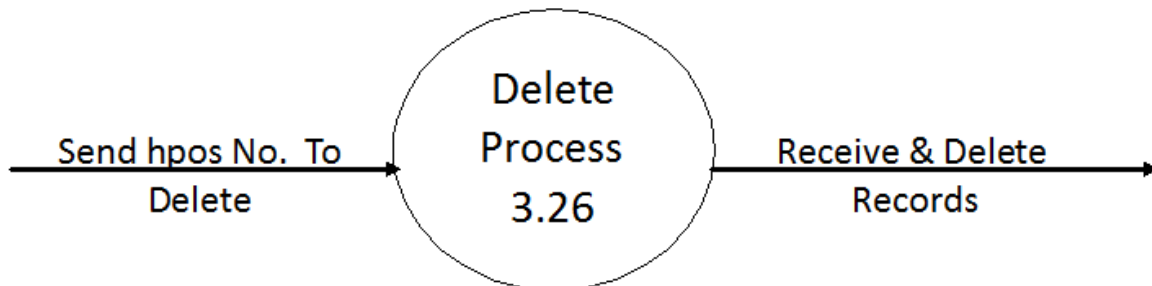
Name:	confirmation Process
Input:	about_us
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



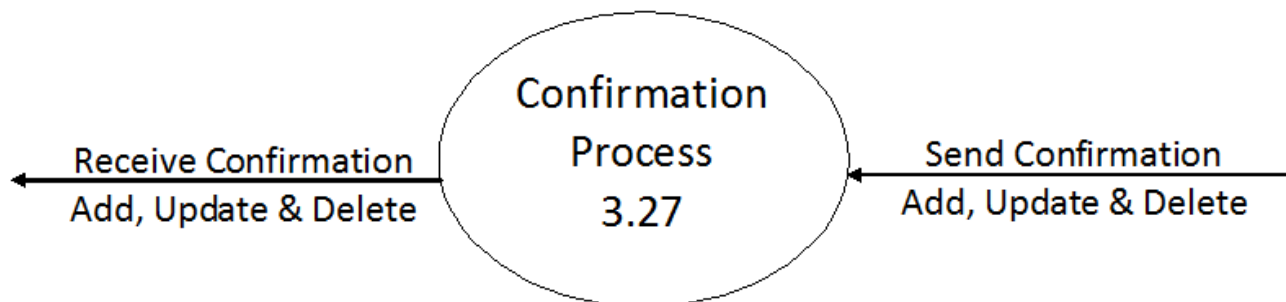
Name:	Addition Process
Input:	admin
Output:	contact_us
Description:	It receive records and insert it into table



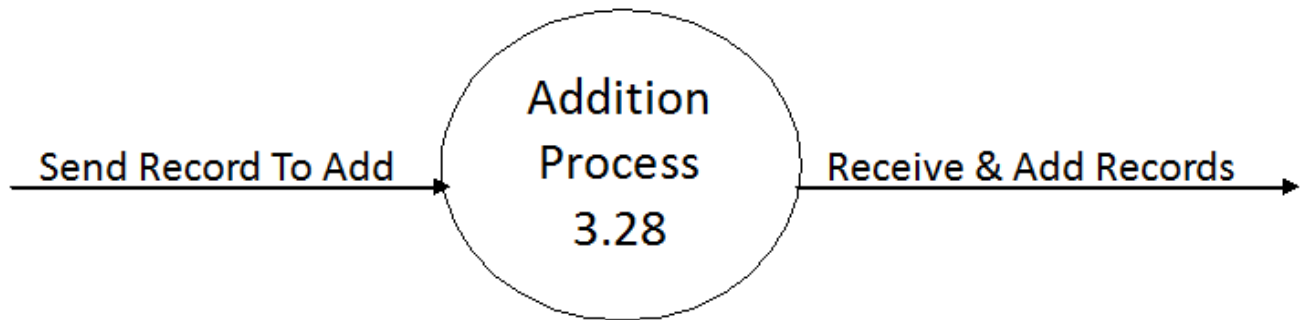
Name:	Updating Process
Input:	admin
Output:	contact_us
Description:	It receive records and Update it into table



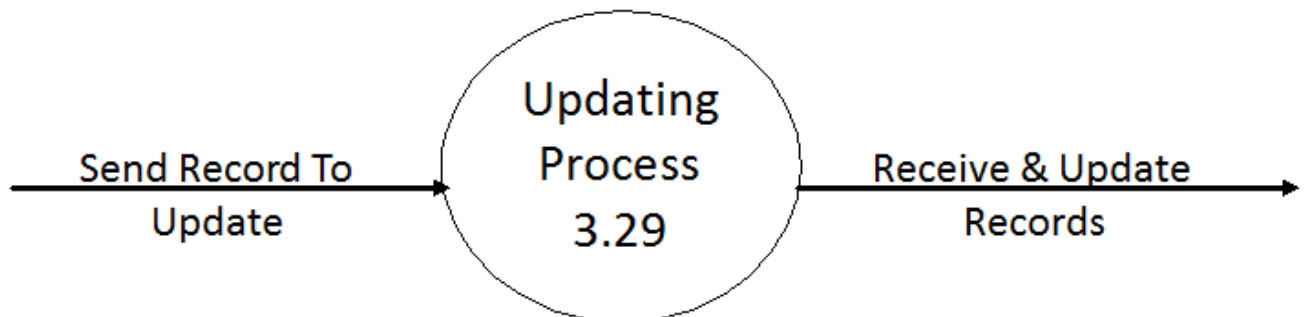
Name:	Delete Process
Input:	admin
Output:	contact_us
Description:	It receive hpos no and delete it from table



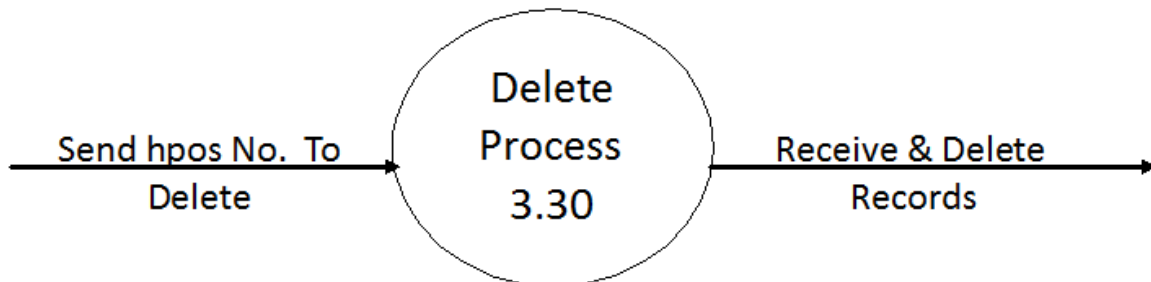
Name:	confirmation Process
Input:	contact_us
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully otherwise send error message



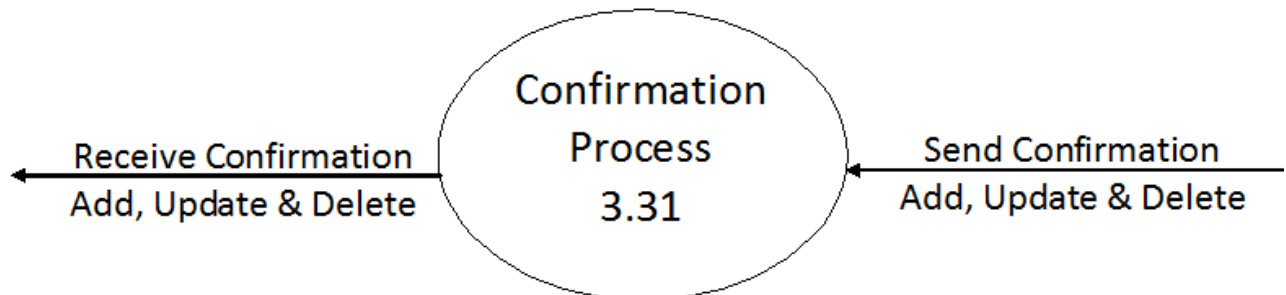
Name:	Addition Process
Input:	admin
Output:	news
Description:	It receive records and insert it into table



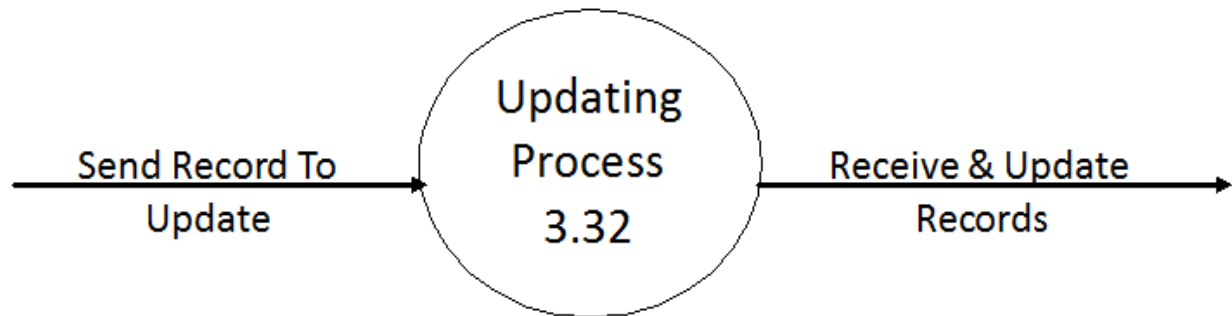
Name:	Updating Process
Input:	admin
Output:	news
Description:	It receive records and Update it into table



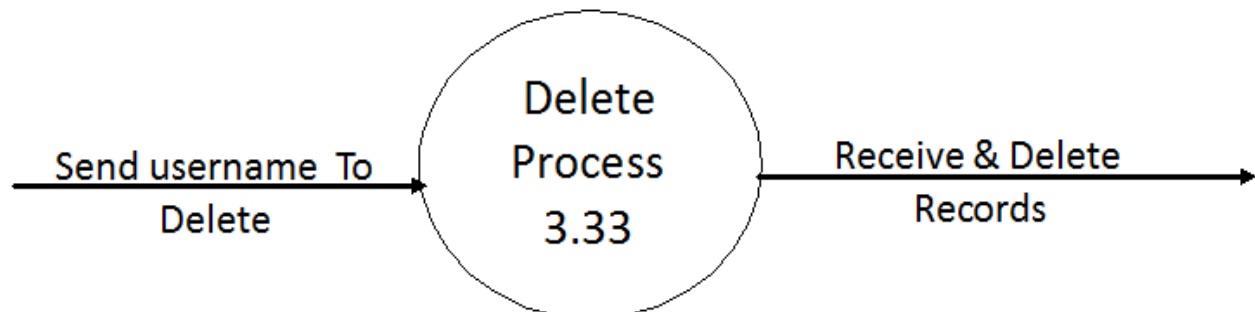
Name:	Delete Process
Input:	admin
Output:	news
Description:	It receive hpos no and delete it from table



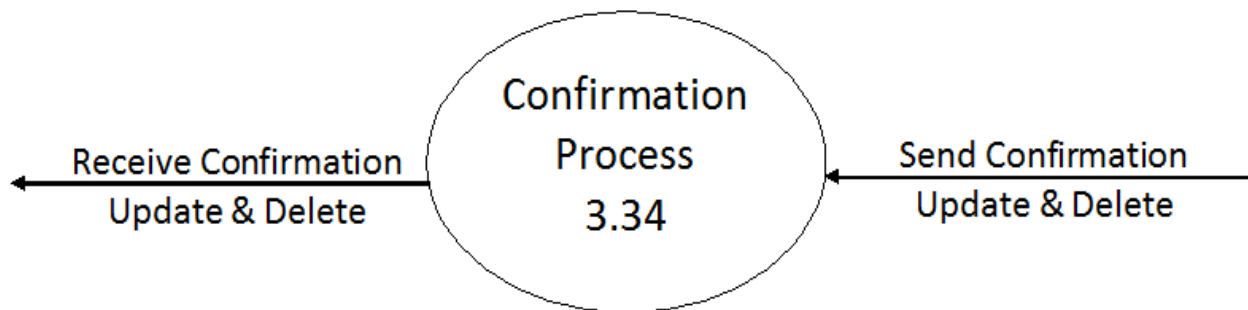
Name:	confirmation Process
Input:	news
Output:	admin
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



Name:	Updating Process
Input:	admin
Output:	register
Description:	It receive records and Update it into table



Name:	Delete Process
Input:	admin
Output:	register
Description:	It receive username and delete it from table

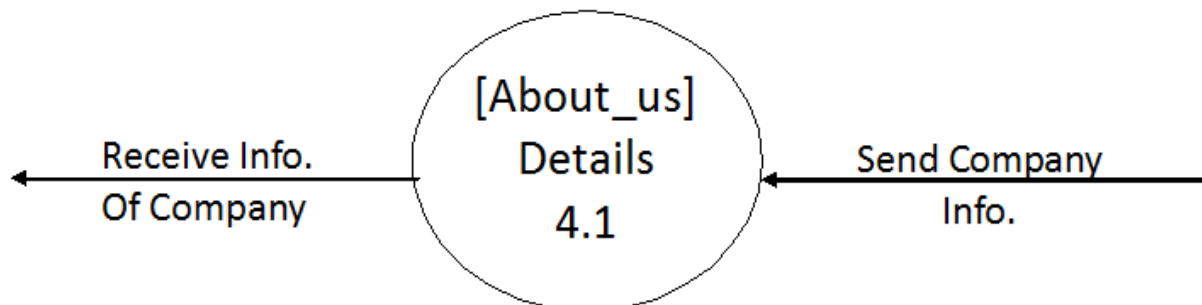


Name:	confirmation Process
Input:	register
Output:	admin
Description:	It send Confirmation of above done operations (update and delete) if its done successfully other-wise send error message

Visitor Site Processes



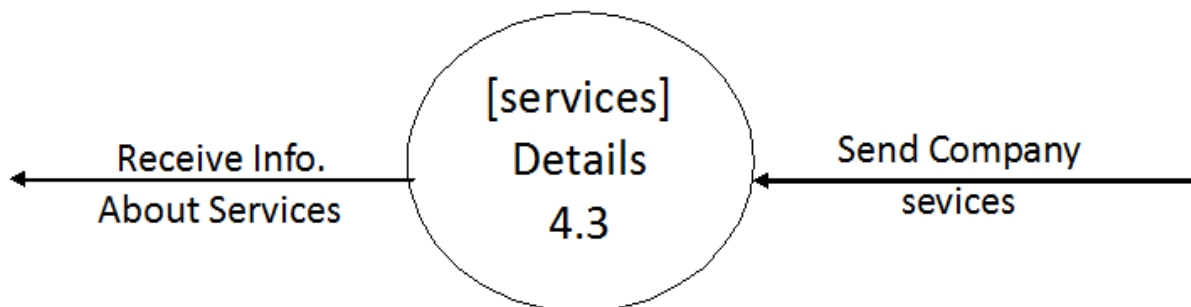
Name:	[about_us] Request
Input:	visitor
Output:	about_us
Description:	It send request to see company information.



Name:	[about_us] details
Input:	about_us
Output:	visitor
Description:	It receive request n send details of company.



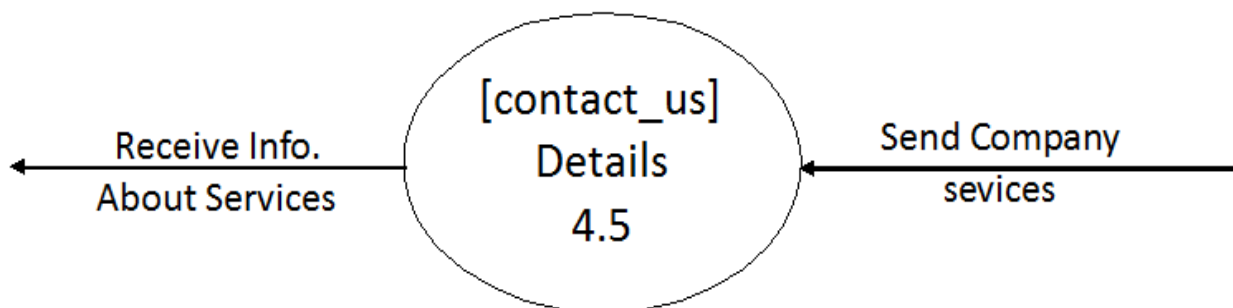
Name:	[about_us] Request
Input:	visitor
Output:	services
Description:	It send request to see company services.



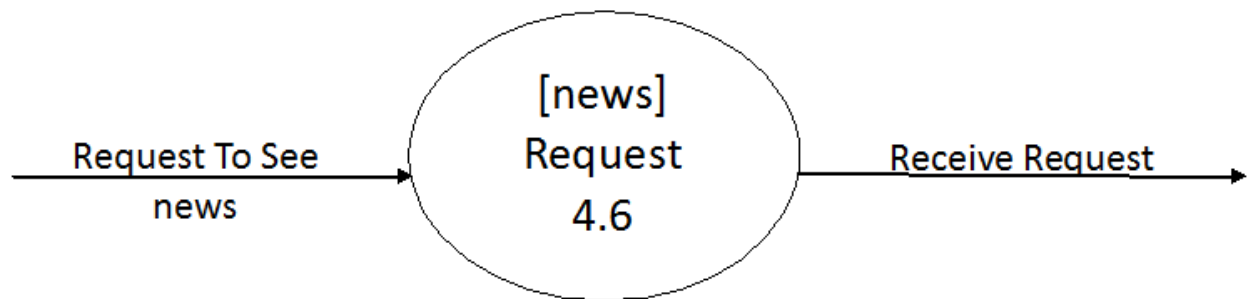
Name:	[about_us] details
Input:	services
Output:	visitor
Description:	It receive request and send details of company services.



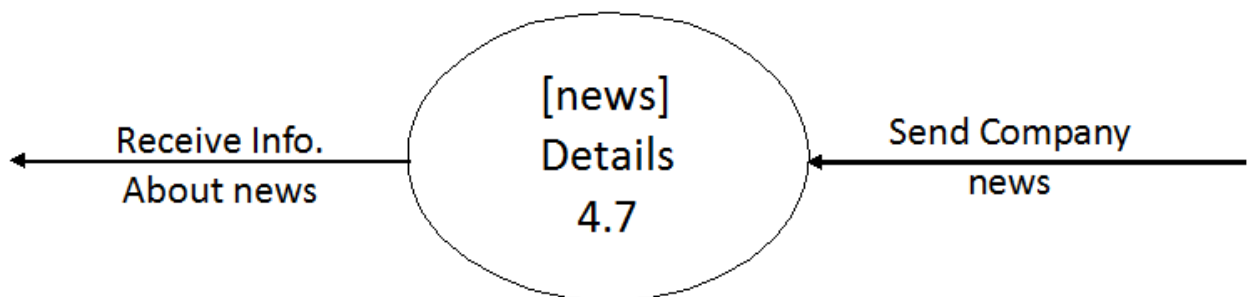
Name:	[contact_us] Request
Input:	visitor
Output:	contact_us
Description:	It send request to see company services.



Name:	[contact_us] details
Input:	contact_us
Output:	visitor
Description:	It receive request and send details of company services.

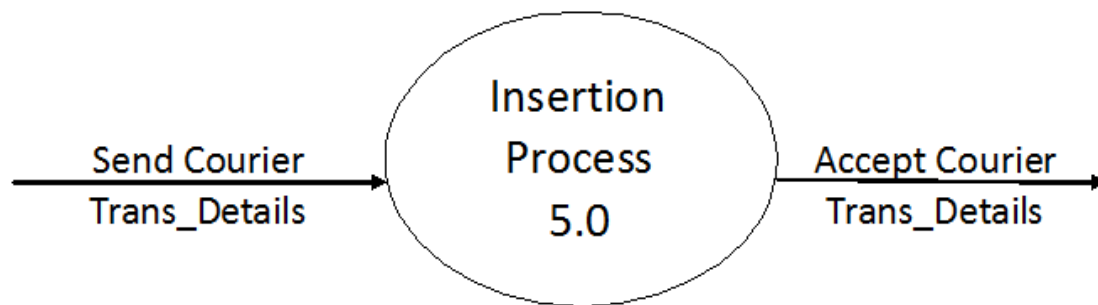


Name:	[news] Request
Input:	visitor
Output:	news
Description:	It send request to see company services.

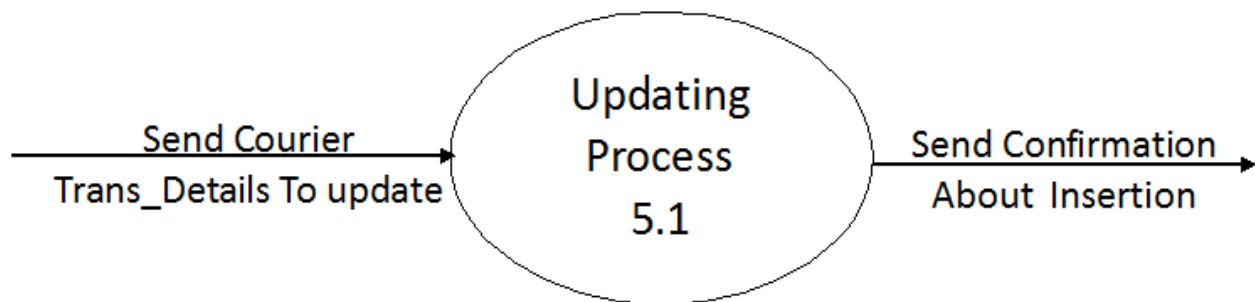


Name:	[news] details
Input:	news
Output:	visitor
Description:	It receive request and send details of company services.

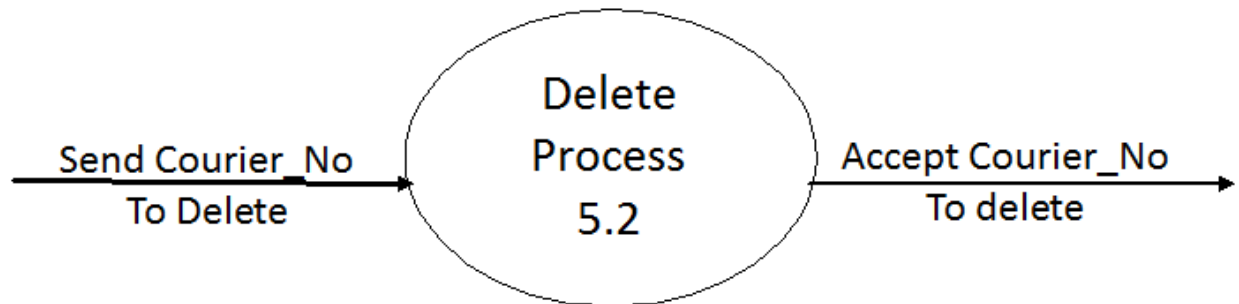
Employee Site Processes



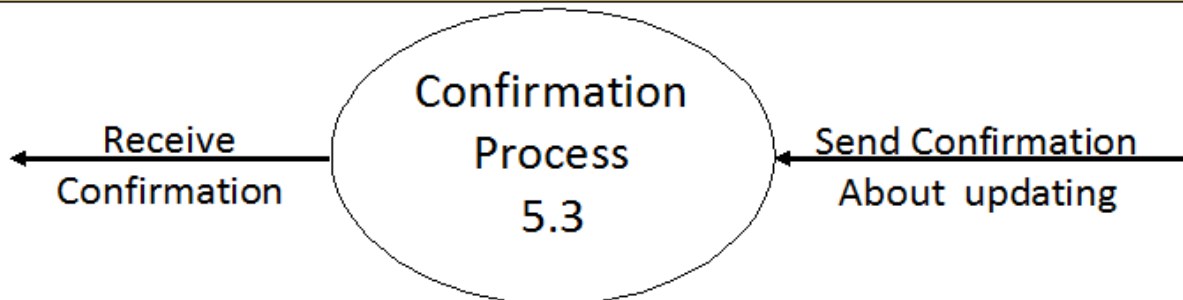
Name:	Insertion Process
Input:	employee
Output:	courier_details_trans
Description:	It send courier_trans_details and insert it into table.



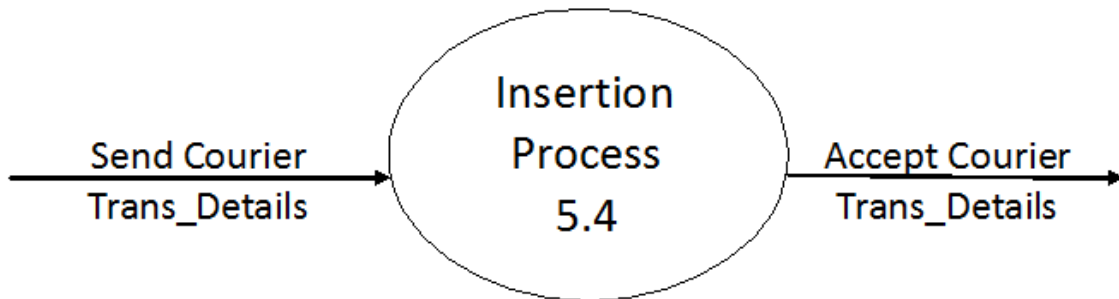
Name:	Updating Process
Input:	employee
Output:	courier_details_trans
Description:	It send courier_trans_details and update it into table.



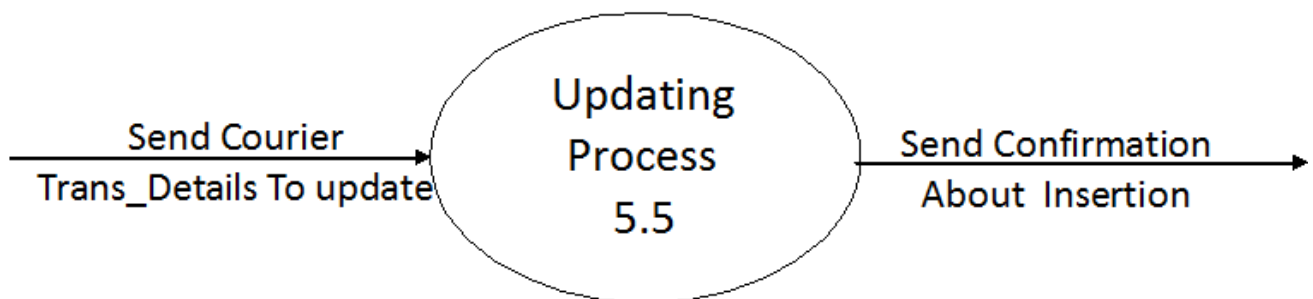
Name:	Delete Process
Input:	employee
Output:	courier_details_trans
Description:	It send courier_trans_details and delete Record by courier No.



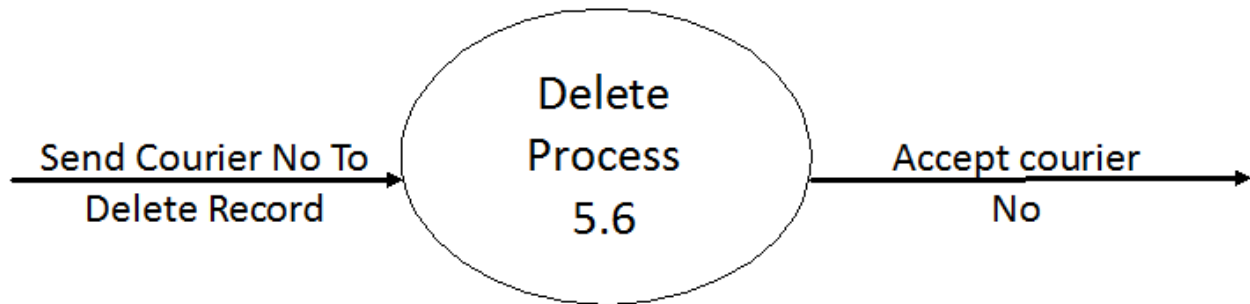
Name:	Confirmation process
Input:	courier_details_trans
Output:	employee
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message



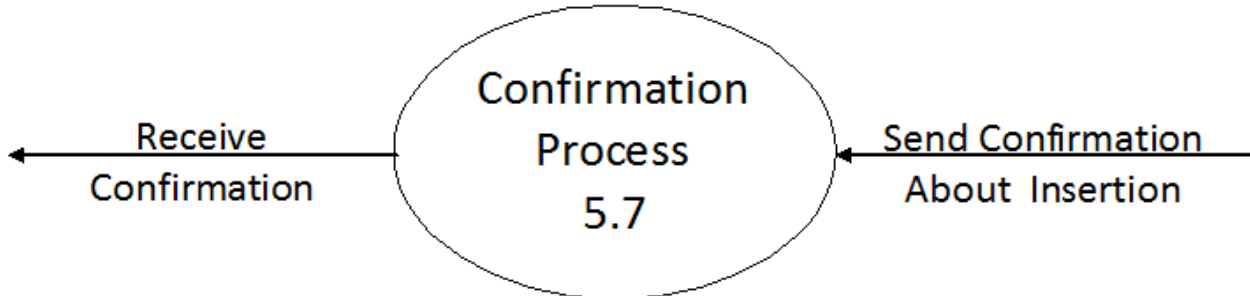
Name:	Insertion Process
Input:	employee
Output:	courier_details
Description:	It send courier details and insert it into table.



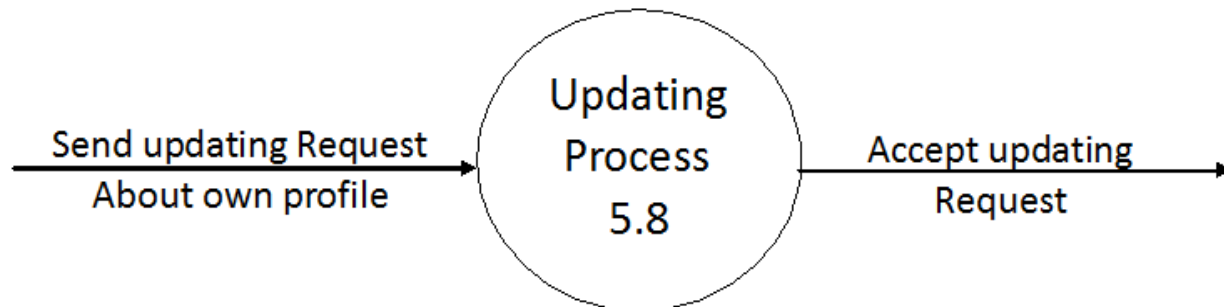
Name:	Updating Process
Input:	employee
Output:	courier_details
Description:	It send courier details and Update it into table.



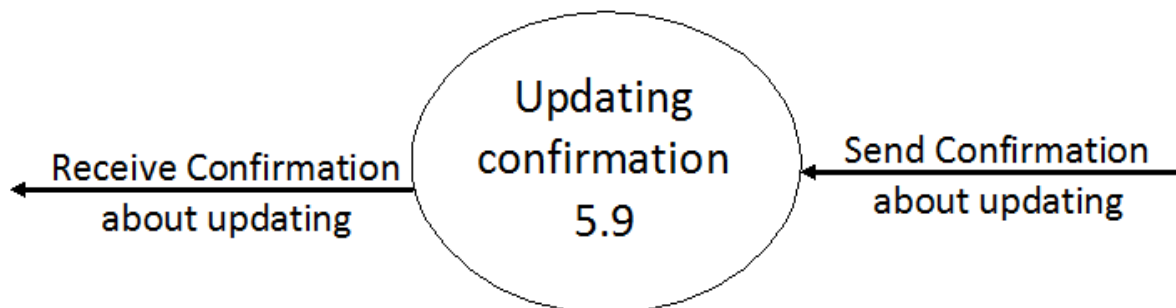
Name:	Delete Process
Input:	employee
Output:	courier_details
Description:	It send courier details and delete records by courier no.



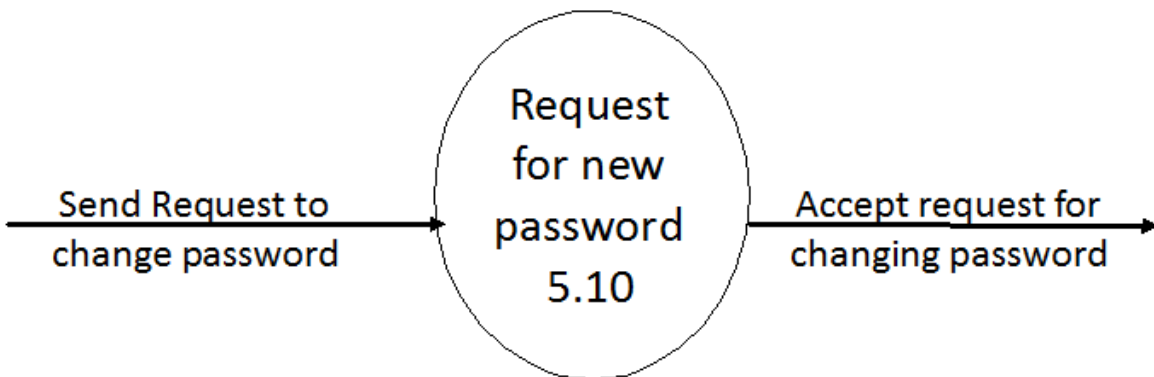
Name:	Confirmation process
Input:	courier_details
Output:	employee
Description:	It send Confirmation of above done operations (add, update and delete) if its done successfully other-wise send error message.



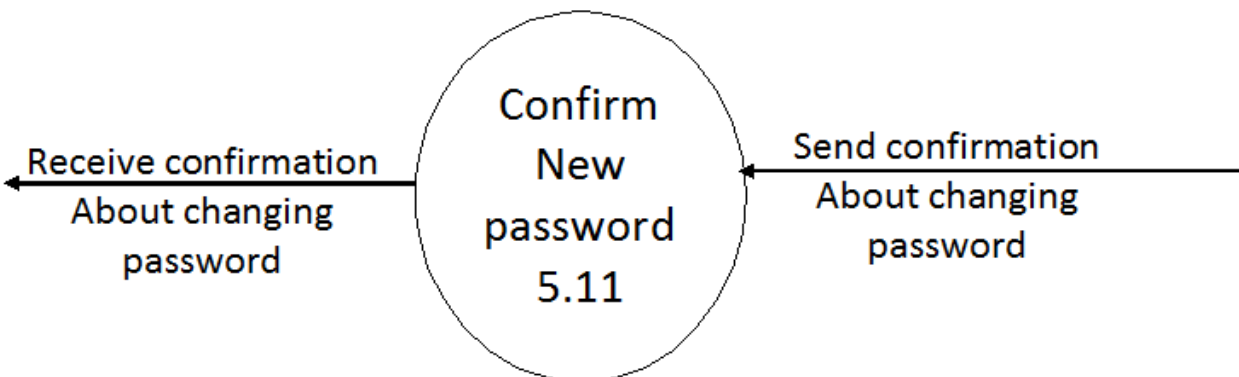
Name:	Updating Process
Input:	employee
Output:	employee_details
Description:	It send modification in own profile and update it into table.



Name:	Updating confirmation
Input:	employee_details
Output:	employee
Description:	It send confirmation of updating if only record updated successfully otherwise Send error message.



Name:	Request for new password
Input:	employee
Output:	employee_details
Description:	It send modification in password and update it into table.



Name:	Confirm new password
Input:	employee_details
Output:	employee
Description:	It send confirmation of modify password if only its modified successfully otherwise Send error message.

Data Dictionary

1. Data Dictionary For register

Name	register
Alias	None
Where Used/ How Used	Registration(Input) Login(Input) Authentication(Output) Register User Information(Output) Edit Register User Information(Input)
Content Description	register=user_name+first_name+last_name +email_id+password+address+contact_no+type

2. Data Dictionary For branch_details

Name	branch_details
Alias	None
Where Used/ How Used	branch Information(Output) Edit branch Information(Input)
Content Description	branch_details=branch_no+branch_name +branch_address+branch_city+branch_contact_no

3. Data Dictionary For courier_details

Name	courier_details
Alias	None
Where Used/ How Used	courier Information(Output) Edit courier Information(Input)
Content Description	courier_details=courier_no+weight+type +sender_name+receiver_detail +sending_branch_no+receiving_branch_no +sender_emp_no+receiver_emp_no+sending_date +sending_time+receive_date+receive_time

4. Data Dictionary For designation

Name	designation
Alias	None
Where Used/ How Used	designation Information(Output) Edit designation Information(Input)
Content Description	designation=design_no+desig_name

5. Data Dictionary For courier_details

Name	courier_details_trans
Alias	None
Where Used/ How Used	Courier track Information(Output) Edit courier track Information(Input)
Content Description	courier_details_trans=track_id+courier_no +sending_branch_no+receiving_branch_no +sending_date+sending_time+receiving_date +receiving_time

6. Data Dictionary For employee_details

Name	employee_details
Alias	None
Where Used/ How Used	employee Information(Output) Edit employee Information(Input)
Content Description	employee_details=employee_no+employee_name +employee_username+password +employee_address+employee_contact_no +employee_branch_no+employee_desig_no

7. Data Dictionary For admin

Name	adminlogin
Alias	None
Where Used/ How Used	Edit admin password (Input) Authentication(Output)
Content Description	adminlogin=password

8. Data Dictionary For services

Name	services
Alias	None
Where Used/ How Used	services Information(Output) Edit services Information(Input)
Content Description	services=hpos+heading+pos+contants

9. Data Dictionary For news

Name	news
Alias	None
Where Used/ How Used	News Information(Output) Edit news Information(Input)
Content Description	news=hpos+heading+pos+contants

10. Data Dictionary For about_us

Name	about_us
Alias	None
Where Used/ How Used	company Information(Output) Edit company Information(Input)
Content Description	about_us=hpos+heading+pos+contants

11. Data Dictionary For contact_us

Name	contact_us
Alias	None
Where Used/ How Used	contact Information(Output) Edit contact Information(Input)
Content Description	contact_us=hpos+heading+pos+contants