PROJECT PROPOSAL
U-WIN AUTOMATION

Name :
Enrollment no :
Collage name :
University name :

Contents

INTRODUCTION 2
OBJECTIVES 3
CATEGORY 4
SYSTEM ANALYSIS 5
Definition 5
DATA FLOW DIAGRAM 6
Context diagram 6
First level data flow diagram – Administrator 7
Second level data flow diagram – Administrator 8
First level data flow diagram – Manager 9
Second level data flow diagram - Manager 10
First level data flow diagram – URA 11
Second level data flow diagram – URA 12
ENTITY RELATIONSHIP DIAGRAM 13
DATABASE DESIGN 14
DATA DICTIONARY 15
MODULES 17
TESTING PROCESS 18
Validation Testing: 18
Defect Testing: 18
Unit Testing: 18
Integration Testing: 18
System Testing: 18
REPORT GENERATION 19
SYSTEM SPECIFICATION 20
Hardware Specification 20
Software Specification 20
SCOPE FOR FUTURE ENHANCEMENT 21

INTRODUCTION

This project is an attempt to automate the process of a U-WIN (Unorganised worker identification number) card generation.

The main purpose of U-WIN card automation system software is to handle the records of the shramyogi collected by category of employees called Asha workers and preparing lists pertaining to it, so that this information can be verified by manager and administrator while creating cards and card generation can be automated.

The objective of this project is to provide the organization with the interface that is required to handle the daily information gathering process. The new proposed project will surely help them in various Manners.

Present system use manual process in which information is filled up in physical form by Asha workers then this forms are submitted to the regional office where regional head verifies the information and fills in the incomplete details if any, then this information is send to the central office where U-Win card generation process is initiated.

Thus the proposed system will prove to be a blessing to all the level of workers and users of U Win card generation process.

OBJECTIVES

- Facilitates U-Win card generation team by providing online collaborative interface.
- They can create their own accounts here. This application stores their updated profile.
- This application is intended to provide interface to employees called Ashaworkers to fill in details of shramyogi.
- This application furnish details collected by asha workers to the regional manager who can verify collected data.
- Information verified by regional manager is forwarded to the Admin who generates U-Win cards.
- This application also maintains a list of all occupation eligible for getting U-Win card.
- Shramyogi can see their profile and can inform the asha worker if any updates or changes are required in the furnished information.

CATEGORY

This project falls under that category “Relational Database Management System”

RDBMS an acronym is very commonly used to refer “Relational Database Management System”

- What is “Relational Database Management System”?

RDBMS stands for Relational Database Management System. RDBMS data is structured in database tables, fields and records. Each RDBMS table consists of database table rows. Each database table row consists of one or more database table fields.

RDBMS store the data into collection of tables, which might be related by common fields (database table columns). RDBMS also provide relational operators to manipulate the data stored into the database tables. Most RDBMS use SQL as database query language.

Edgar Codd introduced the relational database model. Many modern DBMS do not conform to the Codd’s definition of a RDBMS, but nonetheless they are still considered to be RDBMS.

The most popular RDBMS are MS SQL Server, DB2, Oracle and MySQL.

SYSTEM ANALYSIS

Definition

System Analysis is the detailed study of the various operations performed by the system and their relationships within and outside the system.

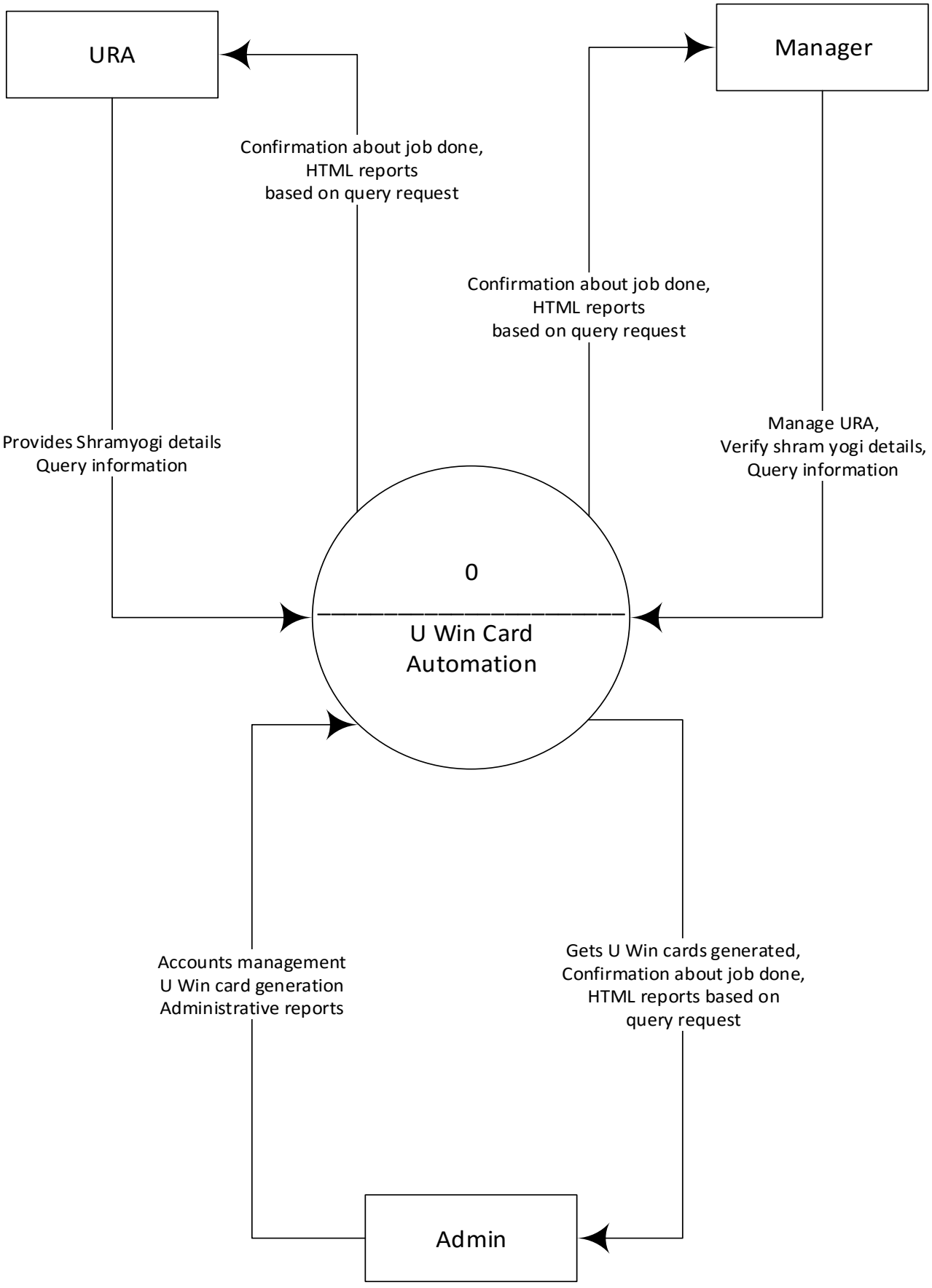
Analysis is the process of breaking something into its parts so that the whole may be understood.

System analysis is concerned with becoming aware of the problem, identifying the relevant and most decisional variables, analysing and synthesizing the various factors and determining an optional or at least a satisfactory solution.

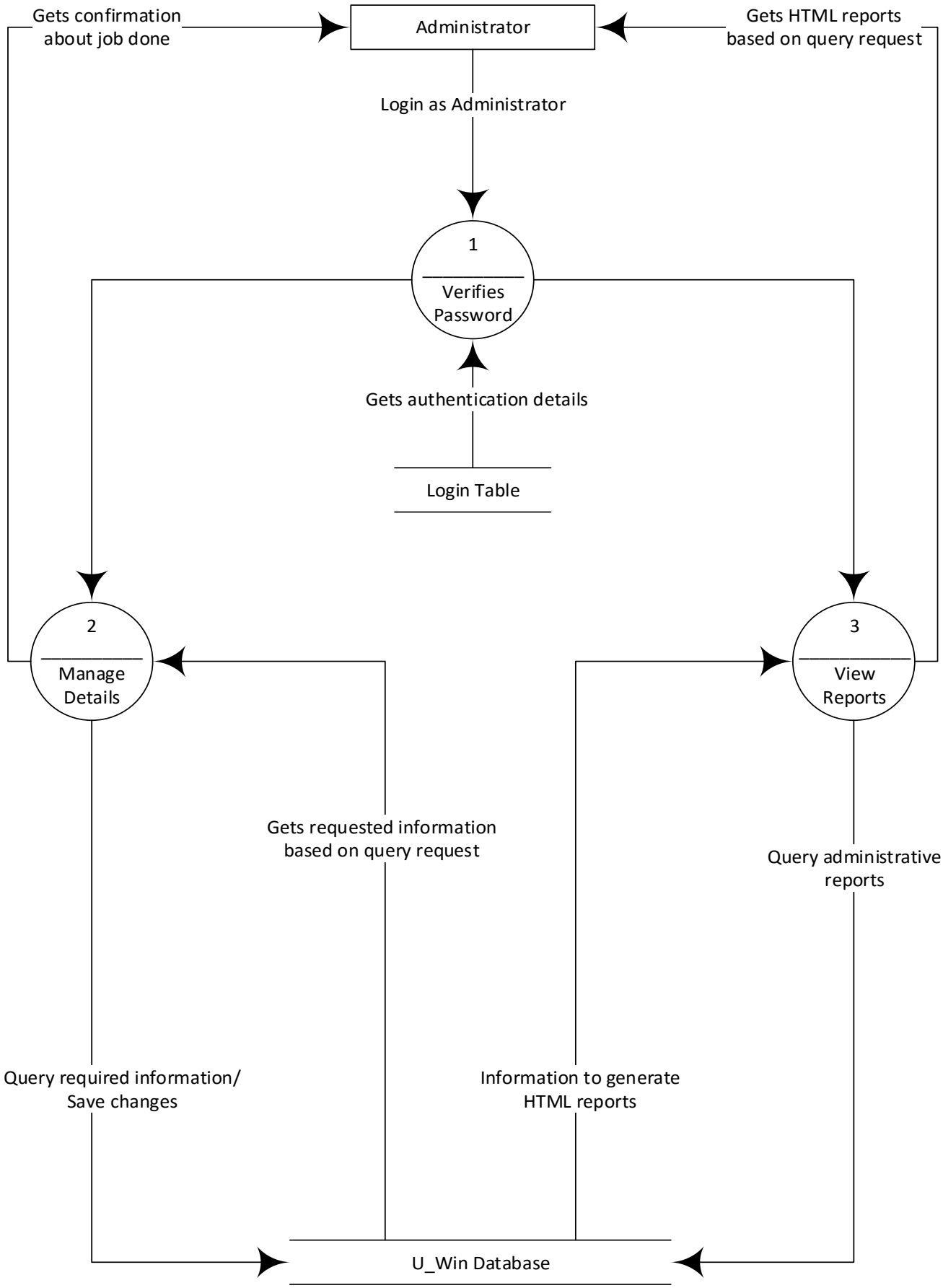
During this a problem is identified, alternate system solutions are studied and recommendations are made about committing the resources used to the system.

DATA FLOW DIAGRAM

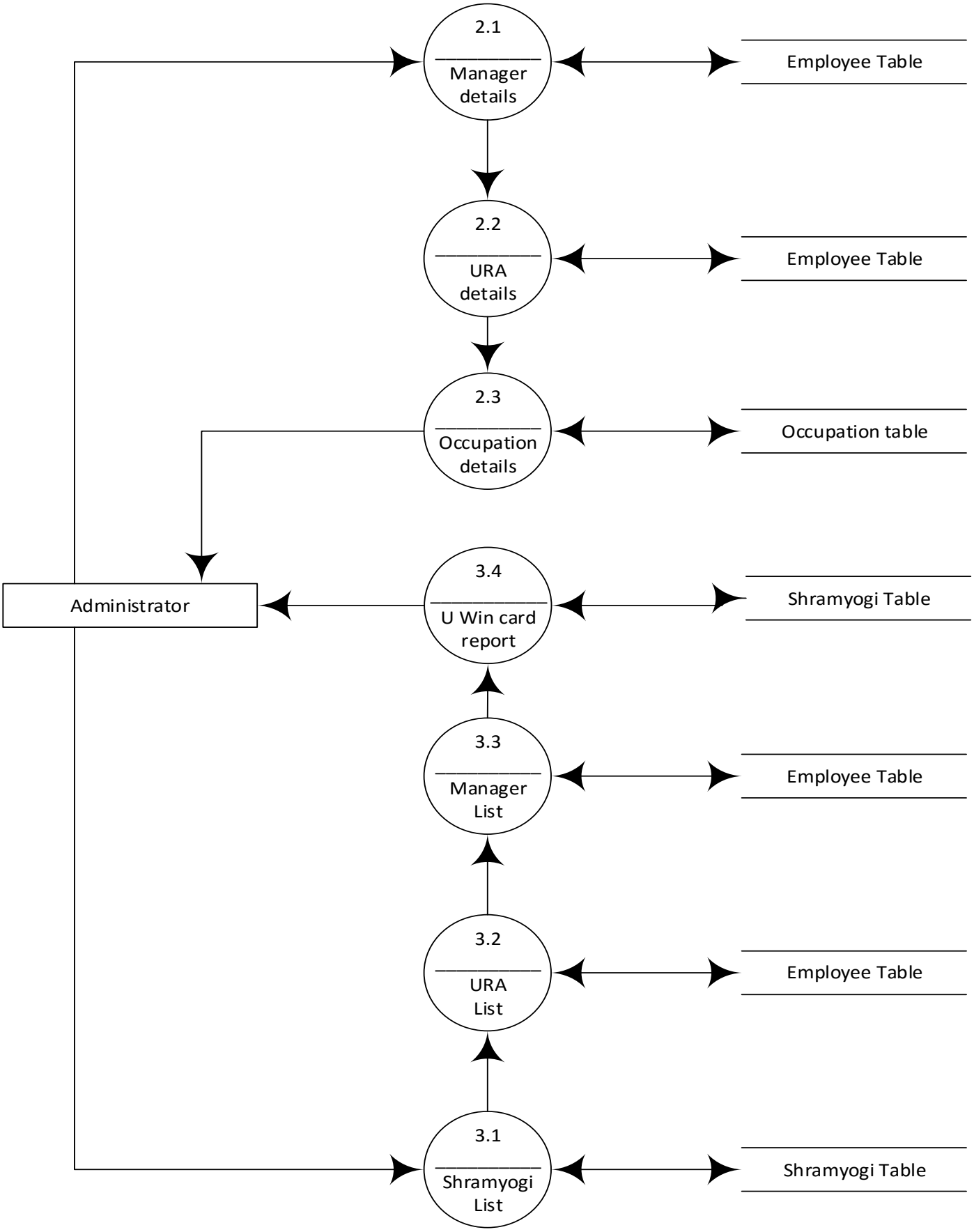
Context diagram



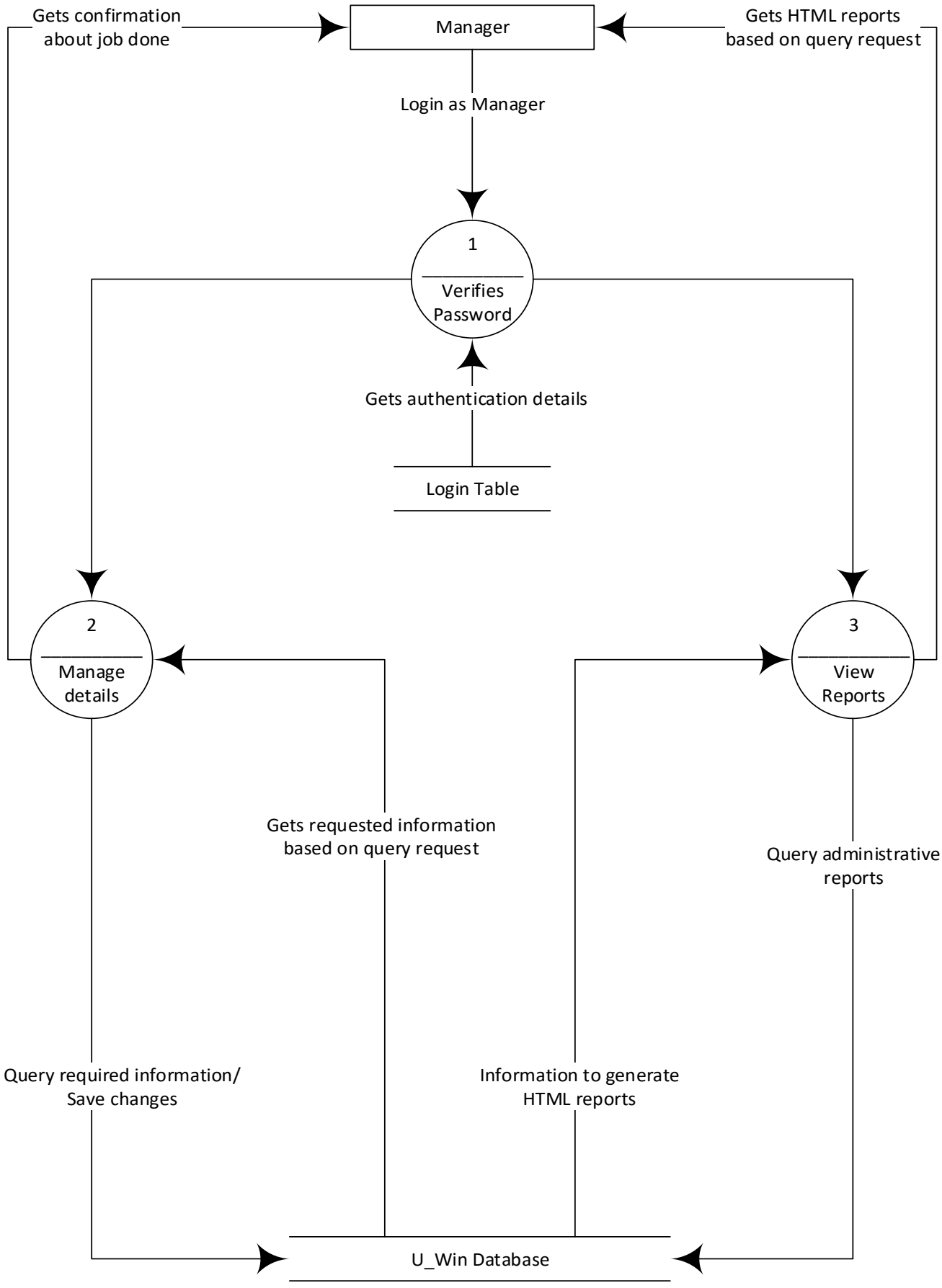
First level data flow diagram – Administrator



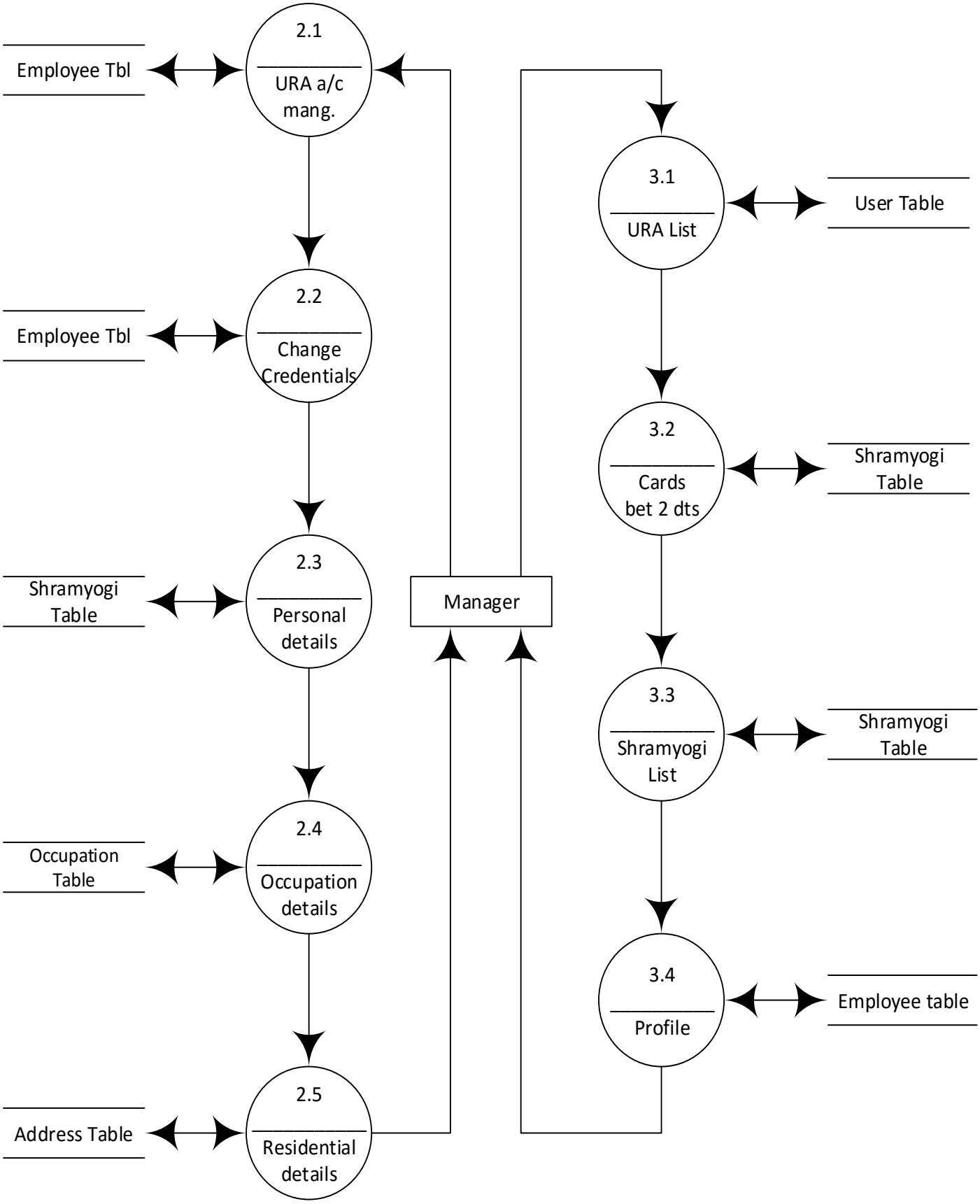
Second level data flow diagram – Administrator



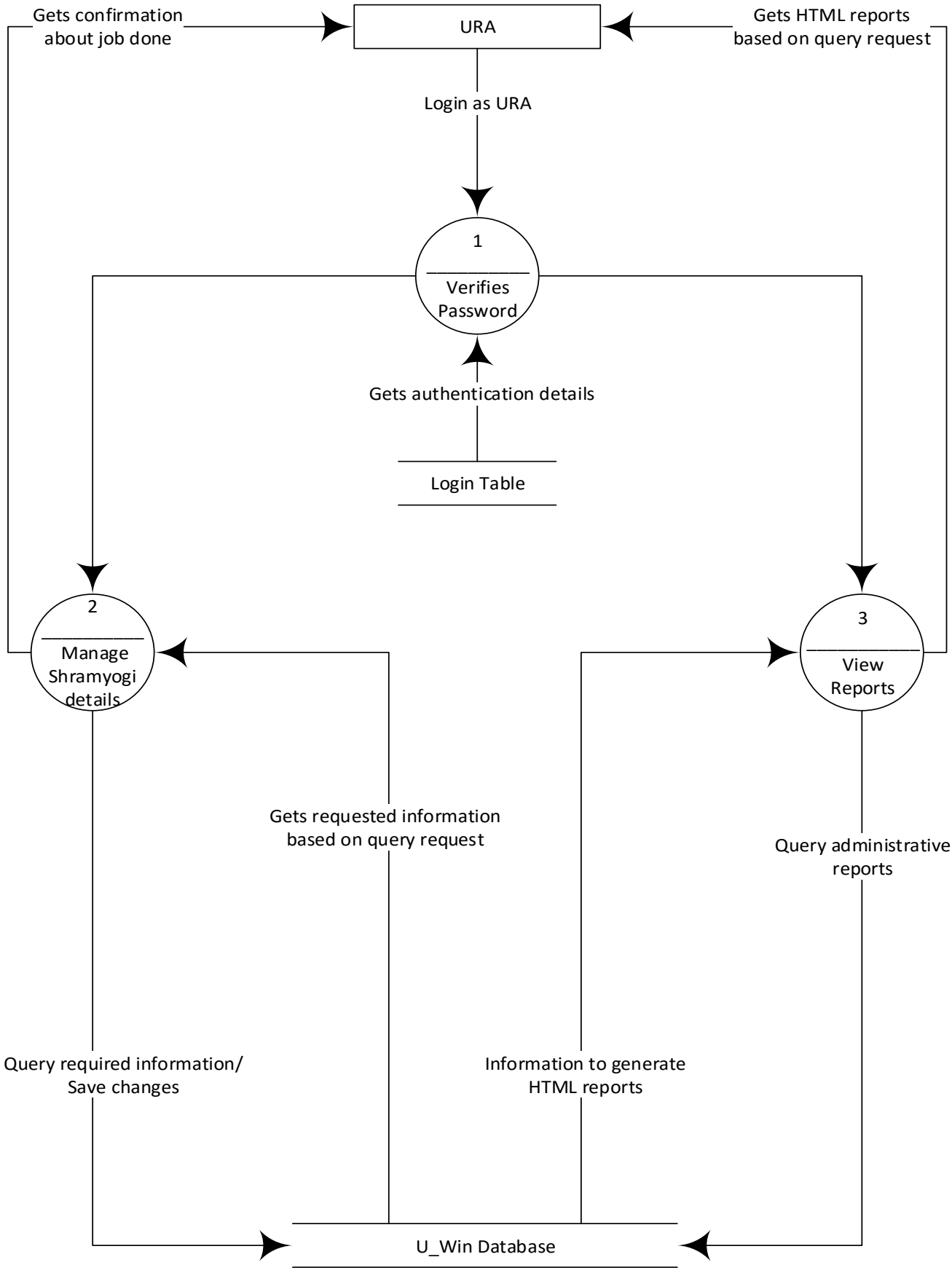
First level data flow diagram – Manager



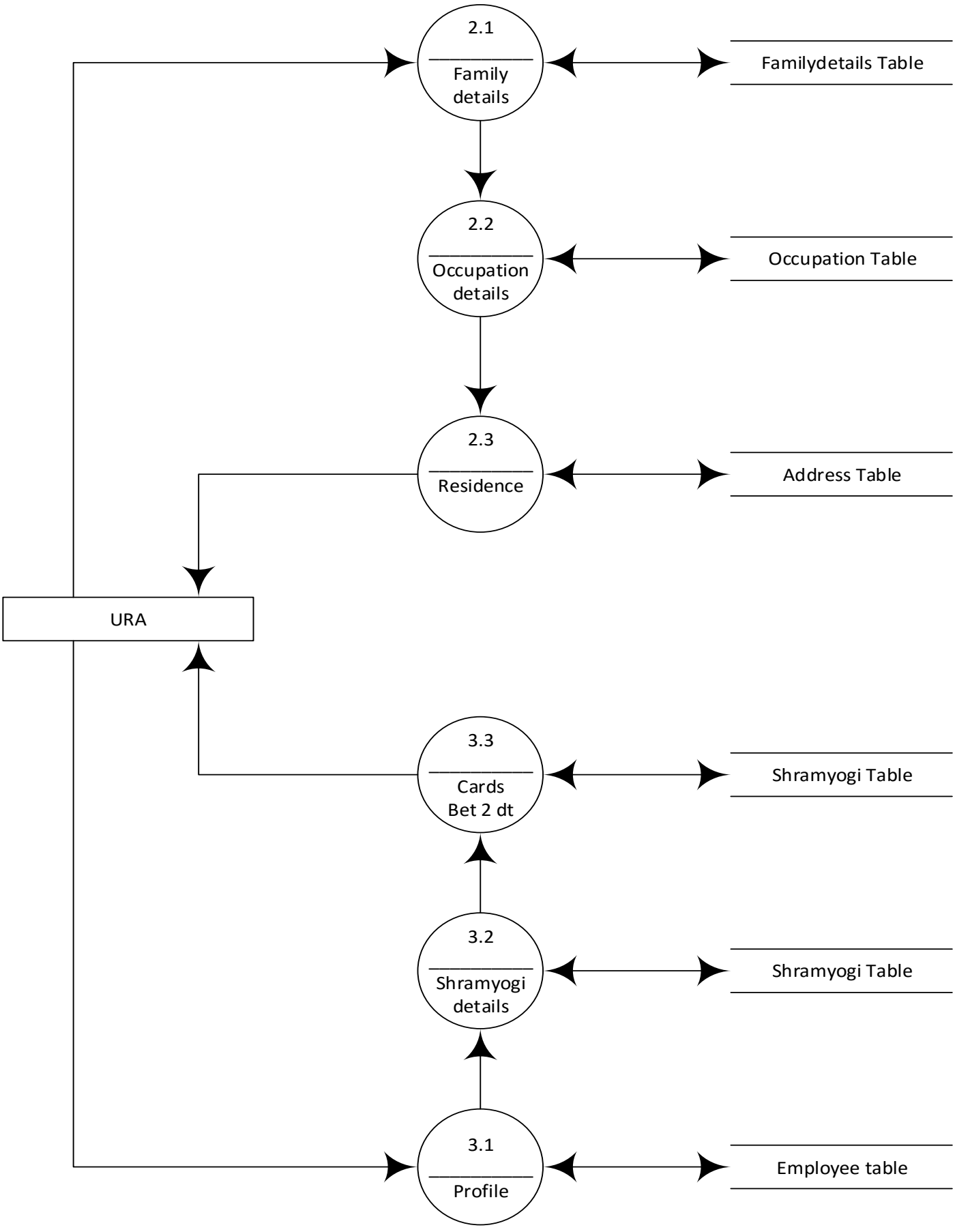
Second level data flow diagram - Manager



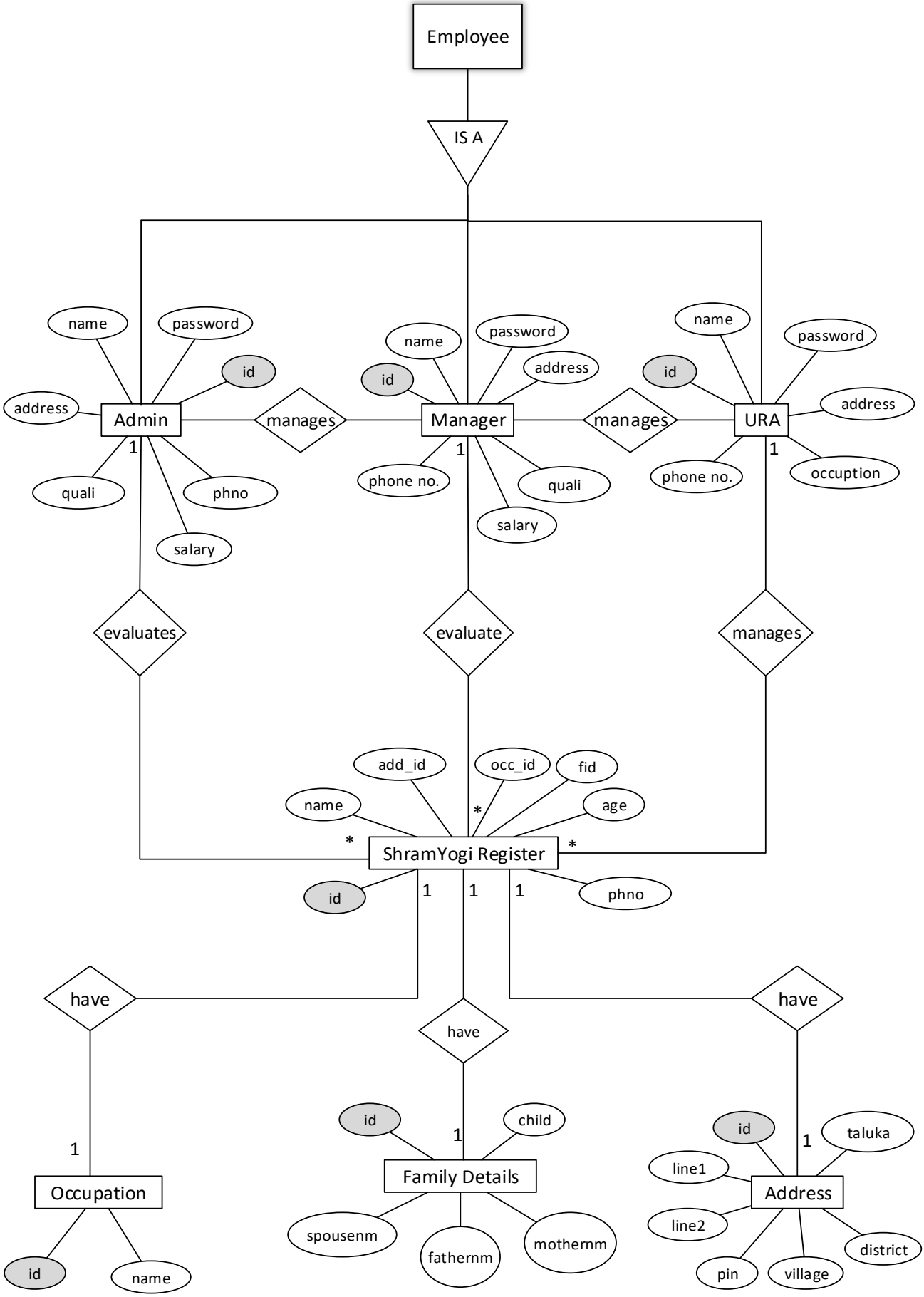
First level data flow diagram – URA



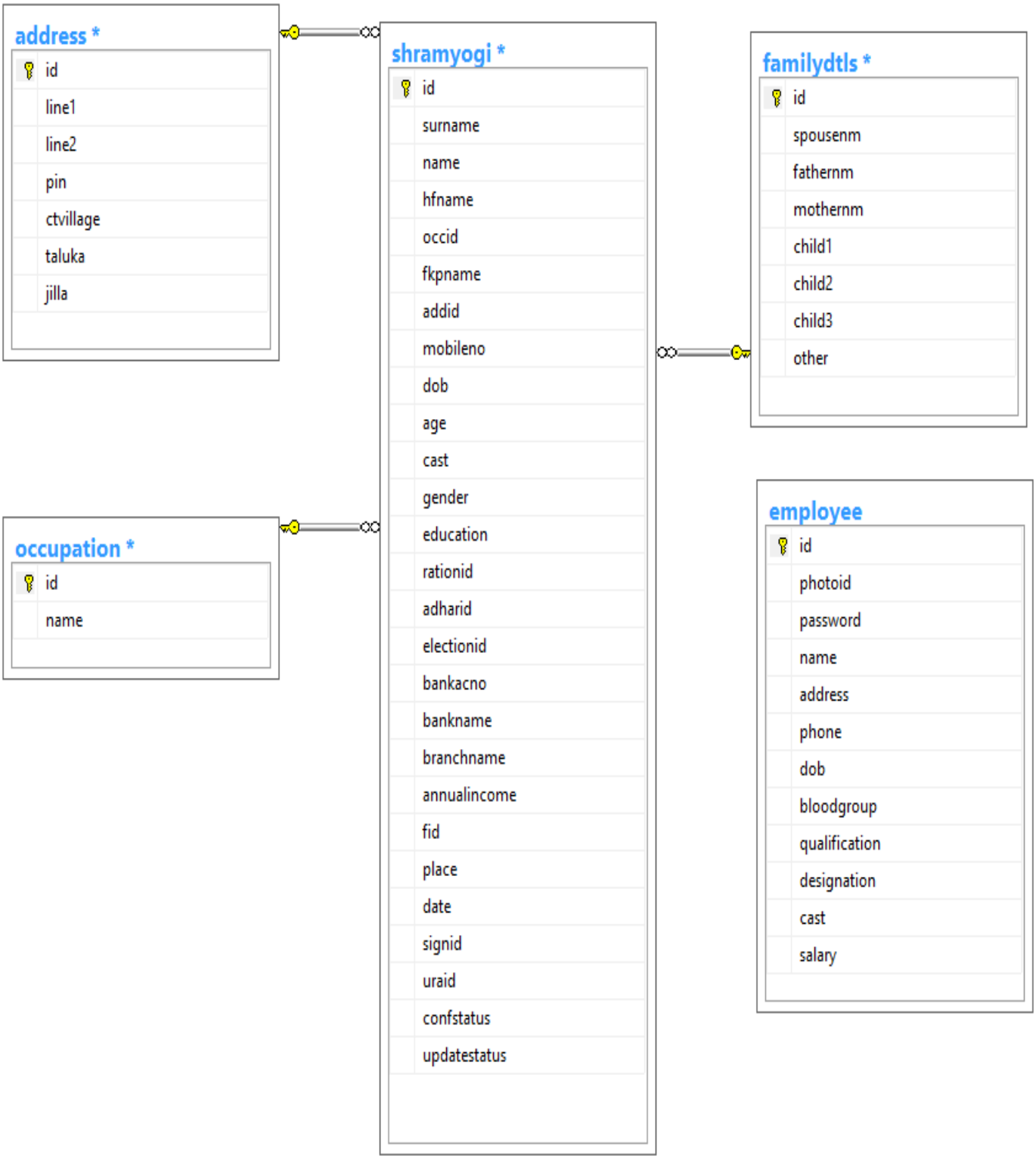
Second level data flow diagram – URA



ENTITY RELATIONSHIP DIAGRAM



DATABASE DESIGN



DATA DICTIONARY

EMPLOYEE			
Field Name	**Data Type**	**Field Size**	**Meta Data**
Id	Number	5	Primary Key
Photoid	Number	3	
Password	Text	10	
Name	Text	10	
Address	Text	50	
Phone	Number	12	
Dob	Date		
Bloodgroup	Text	3	
Qualification	Text	10	
Designation	Text	15	
Cast	Text	15	
Salary	Number	5	

Shramyogi			
Field Name	**Data Type**	**Field Size**	**Meta Data**
Id	Number	10	Primary key
Surname	Text	8	
Name	Text	10	
Spousename	Text	15	(Occupation id)
Occuid	Number	2	Foreign-key : References OCCUPATION-id
Fkpname	Text	15	(family key person name)
Addresseid	Number	5	Foreign-key : References ADDRESS-id
Contact	Number	12	
Dob	Date		
Age	Number	2	
Cast	Text	10	
Gender	Bit		
Education	Text	15	
Rationid	Text	15	(Ration card)
Adharid	Text	15	(Adhar card)
Electionid	Text	15	(Election card)
Bankname	Text	20	(Bank name)
Bankacno	Text	15	(Bank a/c no.)
Branchname	Text	10	(Bank branch name)
Annualincome	Number	5	
Fid	Number	10	Foreign-key : References FAMILY-id
Place	Text	15	
Date	Date		
Signid	Number	5	(signature id)

URAid	Number	5	
Confstatus	Text	10	
Updatestatus	Text	10	

Address			
Field Name	**Data Type**	**Field Size**	**Meta Data**
Id (addid)	Text	10	Primary key
Line1	Text	15	
Line2	Text	15	
Pin	Number	8	
City/village	Text	15	
Taluka	Text	10	
Jilla (District Name)	Text	10	

Occupation			
Field Name	**Data Type**	**Field Size**	**Meta Data**
Id (occid)	text	10	Primary key
name	Text	10	

Family			
Field Name	**Data Type**	**Field Size**	**Meta Data**
Id (fid)	Number	7	Primary key
Spousename	Text	50	
Fathername	Text	50	
Mothername	Text	50	
Child1	Text	50	
Child2	Text	50	
Child3	Text	50	
Other	Text	100	

MODULES

Mod_Employee_Mgmnt:

This module contains logic for managing employee details.

This module contains logic for performing CRUD and search functionality for searching required information on employees.

Mod_Shramyogi_Mgmnt:

This module contains logic for managing shramyogi details.

This module contains logic for performing CRUD and search functionality for searching required information on shramyogi.

Mod_Occupation_Mgmnt:

This module contains logic for keeping track of all the occupations falling under U Win card generation process.

This module contains logic for performing CRUD and search functionality for searching required information on occupation.

Mod_U Win Card:

U Win card generation takes place here. This module contains logic for generating U win cards as well as updating same if required.

TESTING PROCESS

Testing process for this software will include

Validation Testing:

This testing is carried out to demonstrate to the developer and the system customer that the software meets its requirement.

A successful test shows that the system operates as intended.

Defect Testing:

To discover faults or defects in the software where its behaviour is incorrect or not in conformance with its specification.

A successful test is a test that makes the system perform correctly and so exposes a defect in the system.

Unit Testing:

Executing the smallest individually executable code units (isolation).

It is a defect testing process.

It is performed by programmers to assure correctness of functional behaviour of units.

Integration Testing:

This test is carried out when two or more units of components are merged.

It is carried out to detect interface errors and assure the functionality of the combined units.

Performed by programmers or testing group.

System Testing:

Exercising the functionality, performance, reliability and security of entire system.

It is carried out to find the errors in the overall system behaviour establish confidence the overall system functionality, validate non-functional system requirements.

REPORT GENERATION

U Win Card:

U Win card generation is the core intension for development of this system. This report represents the U win card that will be generated for the shramyogi.

Manager List:

This will be an administrative report and will facilitate administrator to know manager details and their working area as well as other details of manager.

URA List:

This report is for administrator as well as for managers.

Administrators will be able to see list of all the URA's along with the concerned manager and other details of the former.

Managers will be able to see list of all the URA's working for him and the concerned details.

Shramyogi list:

Shram yogi is one whose U win card is to be generated.

Administrator will be able to see detailed report of all the shram yogis with concerned URA as well as manager.

Manager will be able to see detailed report of all the shram yogis with concerned URA and falling under his area.

URA will be able to see details of shram yogis filled by him only.

Cards between two dates:

Report that will show all the cards that are generated between two dates.

Administrator will be able to see all cards generated between two dates.

Manager will be able to see all cards generated between two dates and under area he is concerned for.

URA will be able to see all cards generated between two dates and under area he is concerned for.

Profile:

Users of each level will be able to view the personal profile and can request the changes if any to the concerned

Authority, i.e. shramyogi to URA, URA to manager, manager to Admin respectively.

SYSTEM SPECIFICATION

Hardware Specification

CPU	**:**	**PENTIUM IV**
PROCESSOR SPEED	:	2 GHz
COPROCESSOR	:	BUILT IN
TOTAL RAM	:	512 MB
HARD DISK	:	40 GB

Software Specification

FRONT END	**:**	**MICROSOFT C#.NET**
BACK END	:	MICROSOFT SQL EXPRESS
OPERATING SYSTEM	:	WINDOWS 10 PROFESSIONAL

SCOPE FOR FUTURE ENHANCEMENT

This project can be enhanced with following features based on the business needs:

- Improvise security by using encryption techniques.
- Add more features and functionality for administrators for better administration.
- Message alerts to shram yogis and asha workers.
- User feedback service.
- Add more features and functionality to target requirements of organization for generating other cards.
- Enrich application by adding responsiveness.
- Provide mobile interface so that information can be obtained as and when required.
- Depending on shramyogi's salary we can change the color of cards. I.e. if salary < 10,000 then purple color else green color.