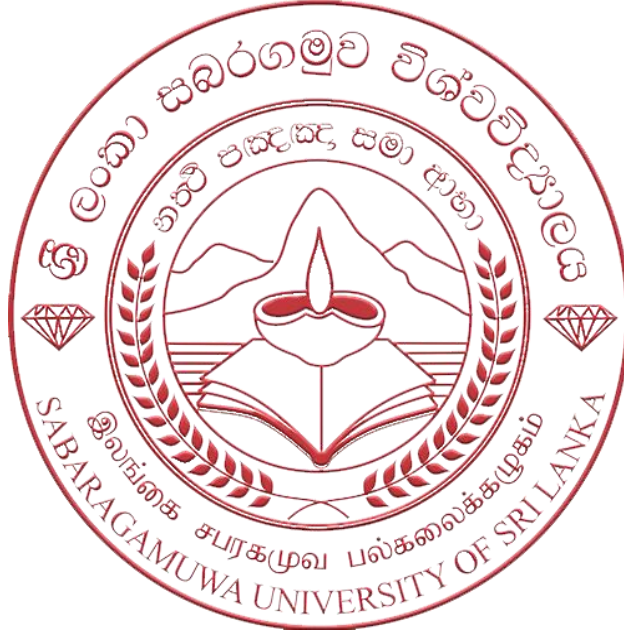


IS2106 - System Analysis & Design



GNDMS - Grama Niladhari Division Management System

GROUP 36

Department of Computing & Information Systems

Faculty of Computing

Sabaragamuwa University of Sri Lanka

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Introduction

Introduction: -

“Grama Niladhari Division Management System” is web-based application which store the data of Grama Niladhari Divisions of Sri lanka. This system helps the people to view the details of Grama Niladhari Division online. The “Grama Niladhari Division Management System” can be entered using a username and password. It is accessible by a Grama Niladhari.

Grama Niladhari only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast. This system objectives of easily & maintainable information.

In “Grama Niladhari Division Management System” we use PHP and MySQL database. This is the project which keeps records of Grama Niladhari Divisions “Grama Niladhari Division Management System” has one module i.e. admin.

Admin Module:-

Dashboard: In this section admin can briefly view total number of listed populations and total number of community organizations and related analysis data.

Population: In this section, admin can manage the population (add/update/delete).

Community ORG: In this section, admin can manage community organizations (add/update/delete).

Pages: In this section, admin can manage the website pages.

Account Setting: In this section, admin can do following activity.

Profile: In this section admin can update his/her profile.

Change Password: In this section admin can change his/her own passwords

Logout: Through this button admin can logout.

Note: In this project MD5 encryption method used.

Users: Users can view the details of Grama Niladhari divisions.(announcements, contact details, important notices).

Purpose

The goal of any system development is to develop and implement the system cost effectively; it most suited to the user's analysis is the heart of the process. Analysis is the study of the various operations performed by the system like as (add, update, delete Grama Niladhari Division details) and maintain relationship within through the system. During analysis, data collected on the files, decision points and transactions handled by the present system.

The Grama Niladhari Division Management System can be entered using a username and password. It is accessible by a Grama Niladhari.

Grama Niladhari only they can add data into the database. The data can be retrieved easily. The main purpose of the development of this system is to give the grama niladhari in Sri Lanka the ability to easily access the information they have. Through this, a more convenient and secure method was obtained instead of the method of collecting information by writing in documents. Another purpose for developing this application is to enable the people of Sri Lanka to easily access the information related to the Grama Niladhari Divisions.

Scope

The “Grama Niladhari Division Management System” of the Sri Lanka is developed to overcome the most of the problems occurring in the manual system by computerizing the existing system. The features of the newly proposed computerized system are described in brief as below:

After computerizing the system, Grama Niladhari can finish their work in least amount of time and efforts. The computerized systems have many gains and efforts which the manual system can't give in any type of situations.

In any manual system if we take, the main problem arising is to maintain the number of records and finding a particular record.

Some of the features of the proposed system are given below:

- Maintaining the Data for Grama Niladhari Division details.
- Getting the information of Grama Niladhari Division.
- Removal of Data Redundancy.
- Data Consistency.

Requirement Specification

Hardware Configuration:

Client Side:

RAM	512 MB
Hard disk	10 GB
Processor	1.0 GHz

Server side:

RAM	1 GB
Hard disk	20 GB
Processor	2.0 GHz

Software Requirement:

Client Side:

Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

Server Side:

Web Server	APACHE
Server side Language	PHP5.6 or above version
Database Server	MYSQL
Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

APACHE

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

The Apache HTTP Server ("httpd") was launched in 1995 and it has been the most popular web server on the Internet since April 1996. It has celebrated its 20th birthday as a project in February 2015.

PHP

- PHP stands for PHP: Hypertext Preprocessor.
- PHP is a server-side scripting language, like ASP.
- PHP scripts are executed on the server.
- PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, Generic ODBC, etc.).
- PHP is an open source software.
- PHP is free to download and use.

MYSQL

- MYSQL is a database server.
- MYSQL is ideal for both small and large applications.
- MYSQL supports standard SQL.
- MYSQL compiles on a number of platforms.
- MYSQL is free to download and use.

Analysis and Design

Analysis:

In present all Grama niladhari record work done on the paper. The whole Grama niladhari record is stored in the registers. We can't generate reports as per our requirements because its take more time to calculate the grama niladhari related report.

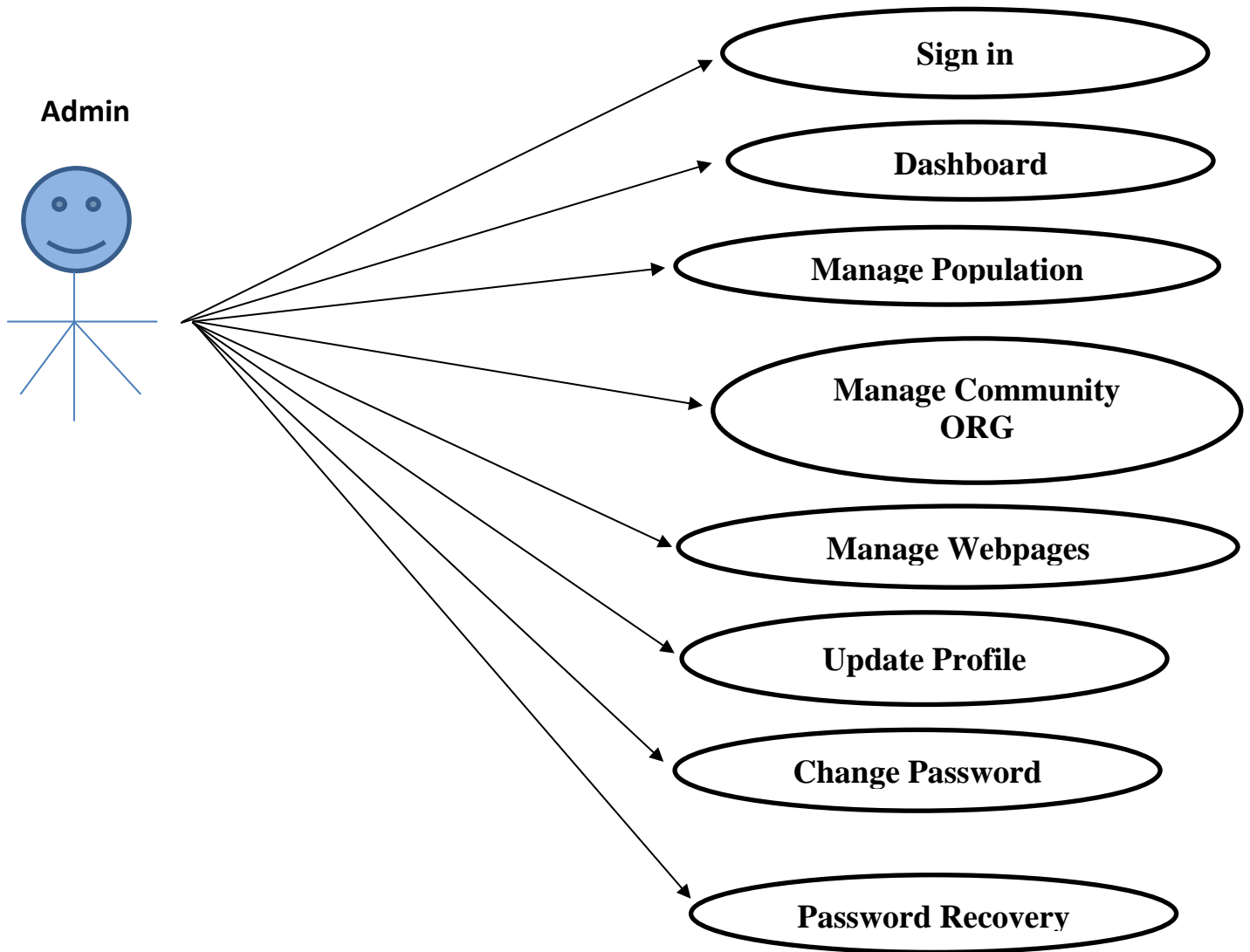
Disadvantage of present system:

- Not user friendly: The present system not user friendly because data is not stored in structure and proper format.
- Manual Control: All report calculation is done manually so there is a chance of error.
- Lots of paper work: Grama niladhari record maintain in the register so lots of paper require storing details.
- Time consuming

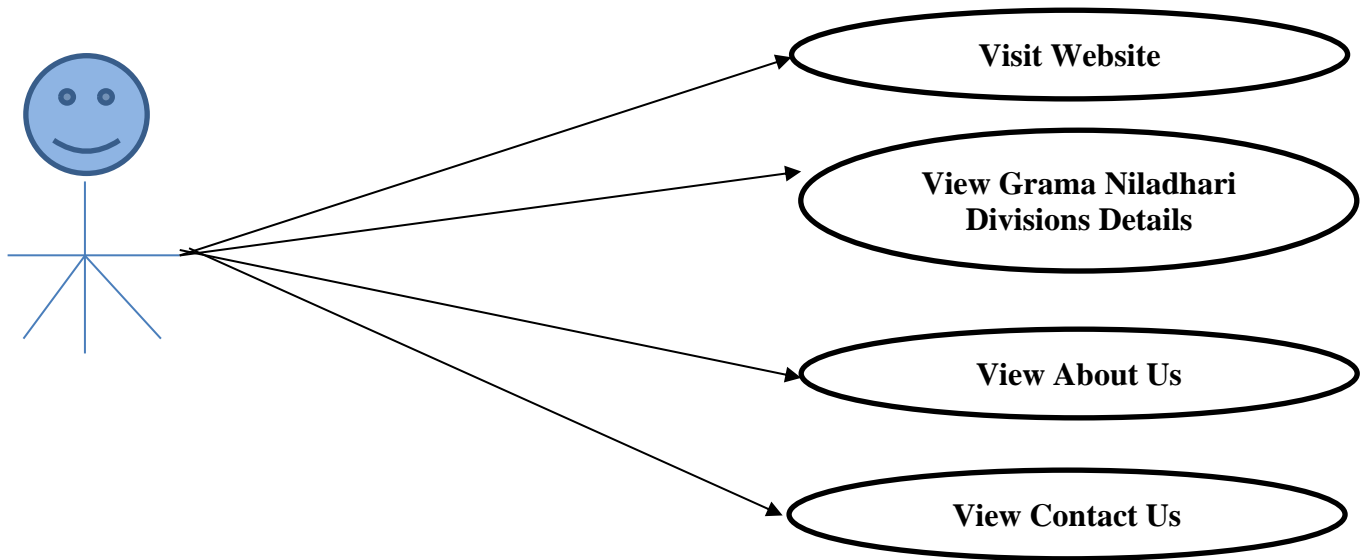
Design Introduction:

Design is the first step in developing any device, process or system. The software design process involves three technical activities - design, coding, implementation and testing. Design decisions impact the success of the software implementation and its maintenance. Design translates customer's requirements into finished software or a system. Preliminary and detailed design are the two steps involved in software design.

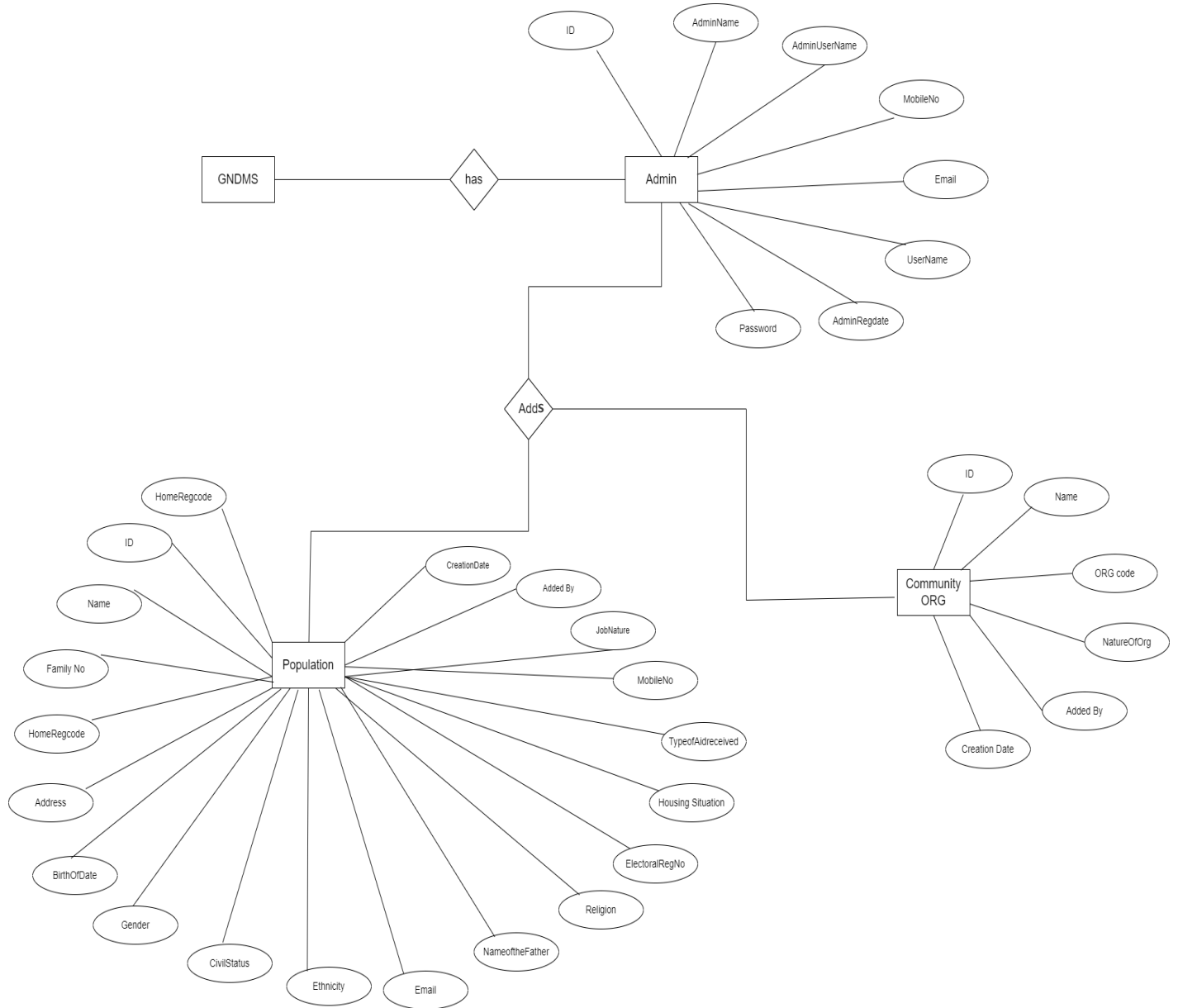
Use Case Diagrams:



Users

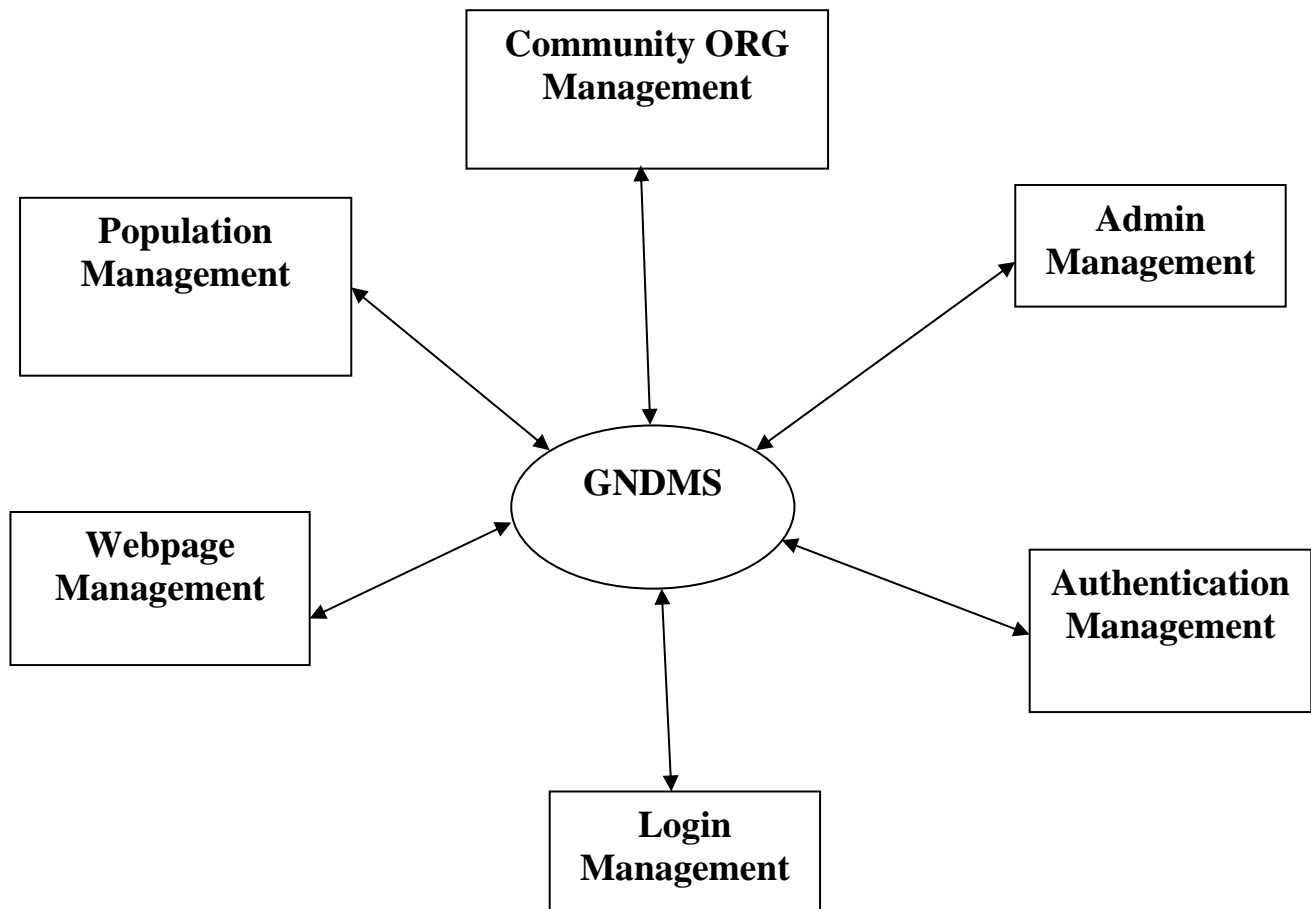


ER Diagram:

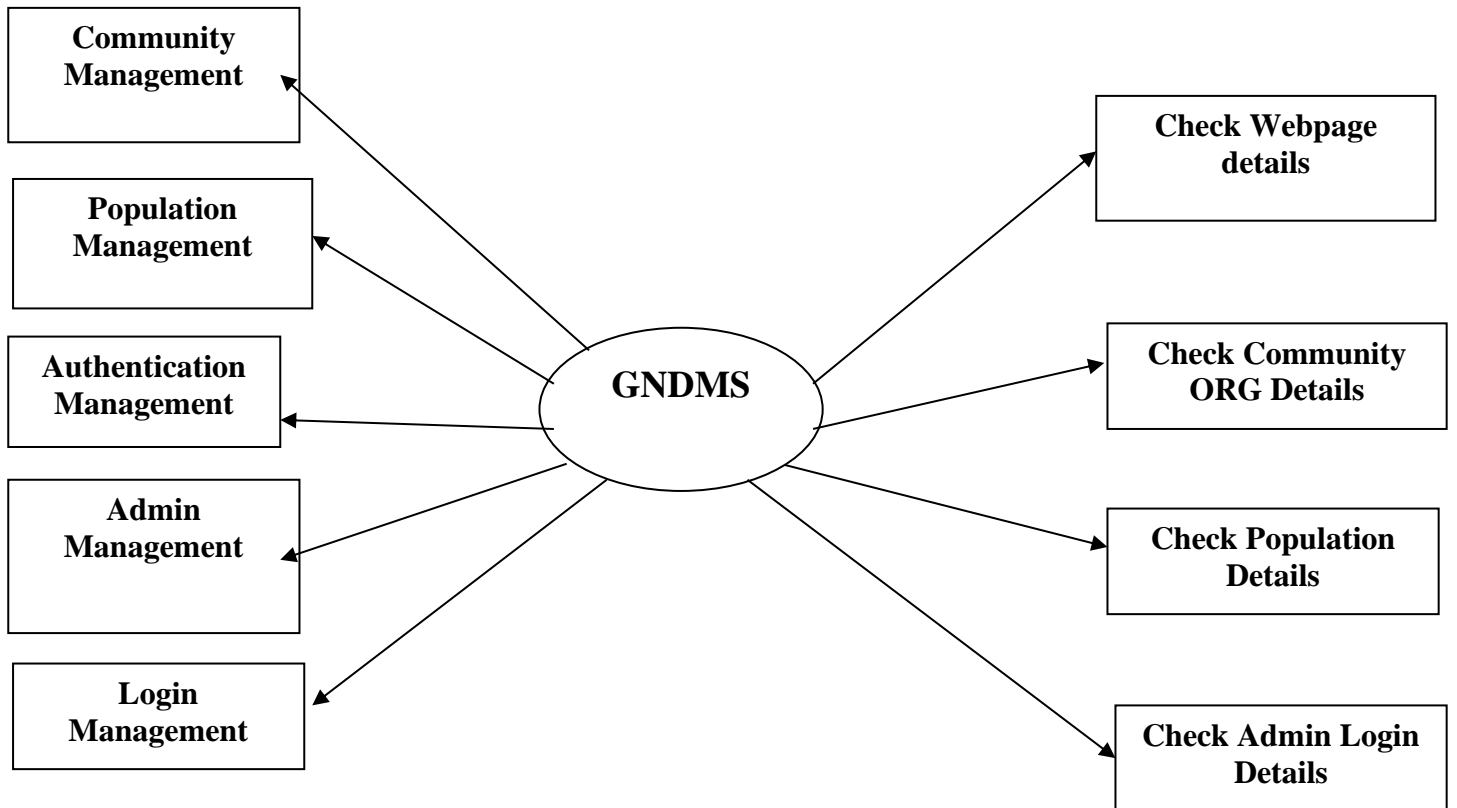


Data Flow Diagram:

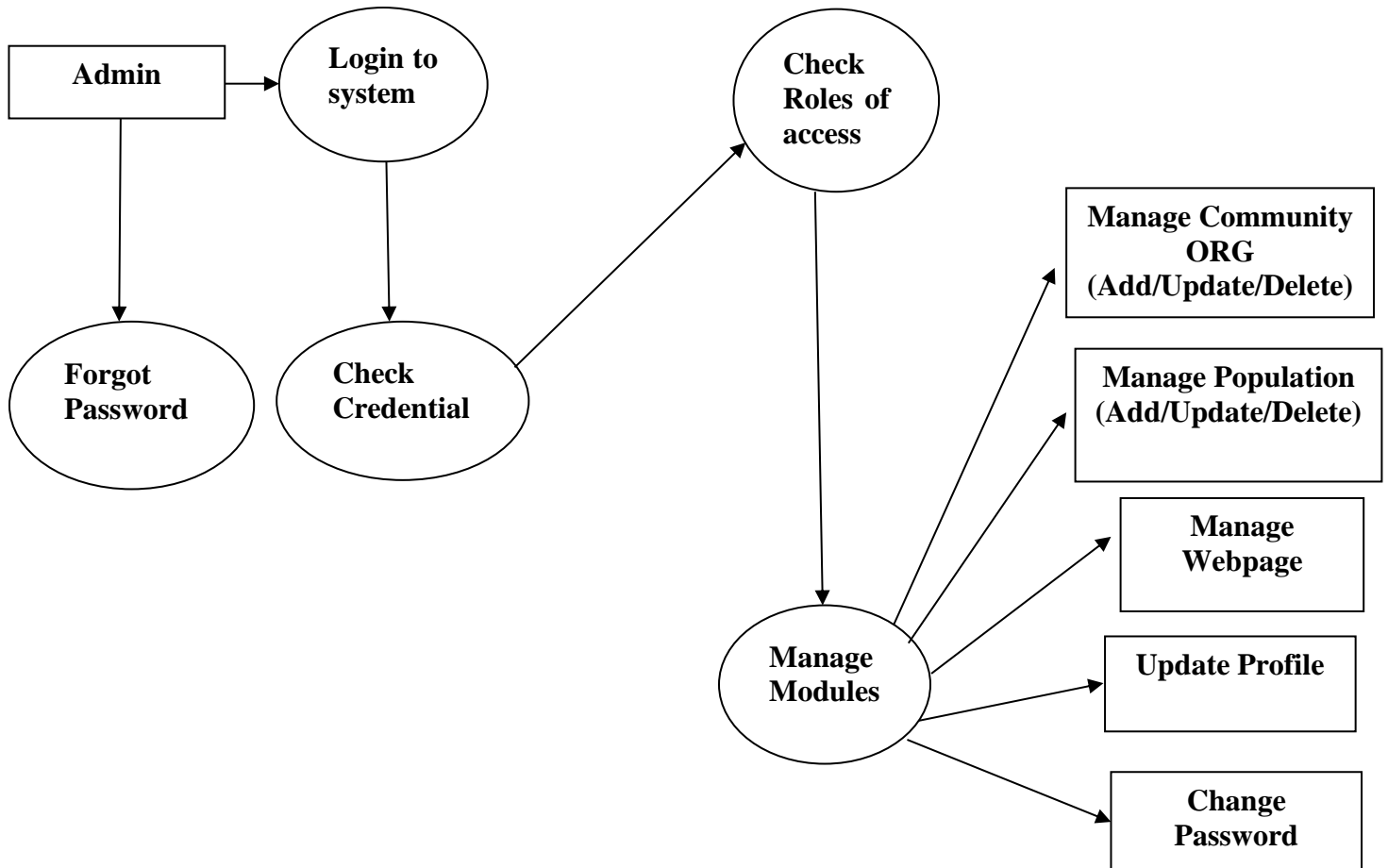
Zero Level DFD



First Level DFD



Second Level DFD



User

