USAID Global Health Supply Chain Program
Procurement and Supply Management

Software Requirements Specifications

Contraceptives Logistics Management Information System (cLMIS)

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Revision History

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Pakistan Field Office	17 Aug 2013	First Draft	1.0
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Acronyms

Name	Meaning
BHU	Basic Health Unit
DMO	District Medical Officer
GOP	Government of Pakistan
HF	Health Facility
ICT	Information Communications Technologies
IT	Information Technology
IM	Inventory Management
JSI	John Snow, Inc.
LHW	Lady Health Worker
LMIS	Logistics Management Information System
MDG	Millennium Development Goal
MIS	Management Information System
MNHRC	Ministry of National Health Services, Regulation and Coordination
MIPC	Ministry of Inter Provincial Coordination
SDP	Service Delivery Point
SMS	Short Message Service
SOP	Standard Operating Procedure
UC	Union Council
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development
WHO	World Health Organization
WMS	Warehouse Management System

Analysis

Software Requirement Specifications

1. Introduction

1.1 Purpose

In Pakistan, lack of visibility and accuracy of logistics data was a major issue for policy-level officials of the Department of Health (DOH) and the Population Welfare Department (PWD), which both provide family planning services. The paper based report took a lot of time in being compiled and analyzed at provincial and federal level leading to non-utilization of data for key policy making decision. The outdated and poor quality data negatively affected planning, procurement, and resource mobilization, ultimately impeding the ministries' ability to provide family planning services to the population.

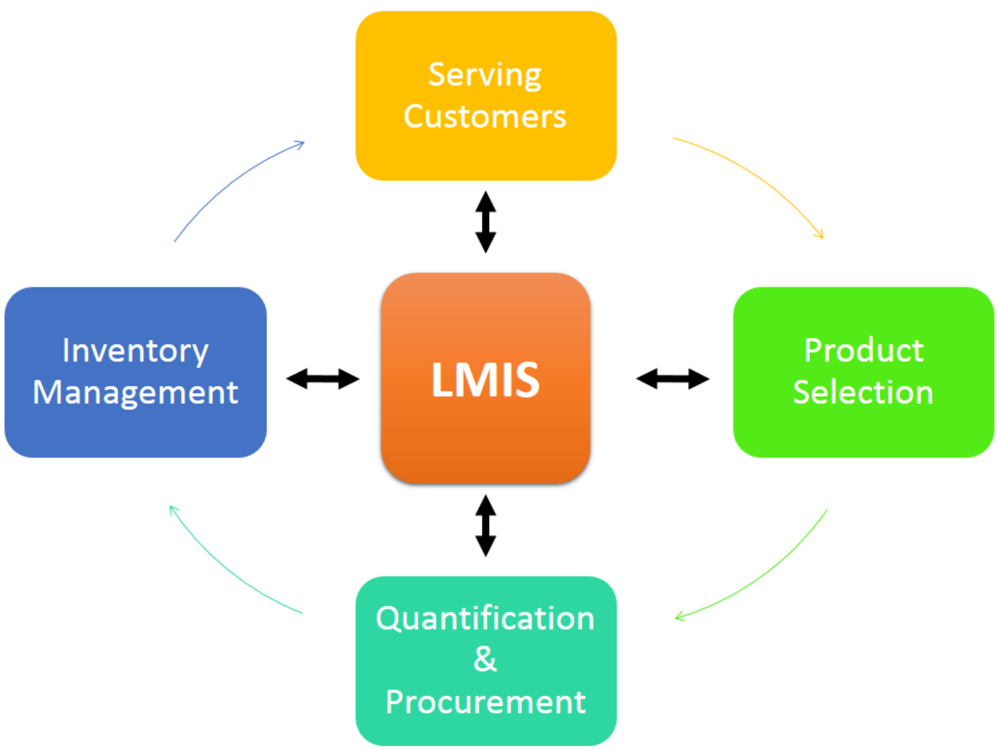
With the two departments having separate reporting systems for contraceptive commodities, it was difficult to analyze the supply situation across departments, and there were concerns that fragmented supply management is leading to stock-outs at district stores and service delivery points.

When USAID and the Government of Pakistan (GOP) tasked the USAID | DELIVER PROJECT with improving data visibility along its public health supply chain, the project modeled the approach on a similar effort in Bangladesh, where training and support is partially outsourced. However, with further analysis, and significant support and collaboration from the GOP, it became clear that building the capacity of workers in the government system would create a more sustainable system and reduce the cost of the initial training.

The USAID | DELIVER PROJECT worked with the GOP to introduce a comprehensive restructuring of the supply chain reporting system, which included a web-based logistics management information system (LMIS) and an integrated reporting and requisition form that both departments could use to report data and to request contraceptive supplies. The purpose of this project is to develop /customized the web-based LMIS ability to incorporate contraceptive data from public as well as private sector i.e. nongovernmental organization (NGO) partners

The Department of Health in Pakistan faced many challenges in managing the procurement and distribution of contraceptive products, supplies and in their information flow. Compounding this challenge is a relative lack of electronic data management systems at many of the service delivery points and a lack of internet connectivity between SDPs and ministry administrative level facilities at the province, districts and health facilities. The basic problem is to determine: how much (quantity and cost) of what (contraceptive) needs to go where (what location) and when to get it there.

GOP and the USAID | DELIVER PROJECT in Pakistan are working with their respective ministries of health, medical stores and other stakeholders to improve the collection, management, and use of logistics data by developing a common technology platform for implementing an electronic Logistics Management Information System for contraceptives distribution. The Data points include actual months of stock on hand, couple year's protection numbers, and the average monthly consumption.



The Logistics Management Information System (LMIS) is a web-based application that will be used to record the logistics of contraceptive products and commodities, describe stock status of contraceptive products at different levels of the supply chain. In addition to creating an automated system to assist with logistics management at different levels of the supply chain, we also need improved data visibility of Stock Out conditions to prevent stock outs of contraceptive commodities, thus helping the country to manage supply challenges. That quest for improved data visibility has led to calls for the computerization of the existing paper-based logistics management information systems (LMIS) as well as communication between systems.

The desired outcome is one fully functional LMIS that should also provide a Web Application Portal along with an offline module.

1.2 Document Conventions

Underlined text is used to emphasize importance.

If there is an outstanding question related to the requirements, it will be noted in red italics and denoted as a question. For example:

[QUESTION: why is such and such done in so and so way?]

If an item is TBD, it is similar noted, but is prefixed with TBD instead. Example:

[TBD: whether such and so field will be dropped]

In the Use Cases section, use cases IDs are prefixed with “UC”. Example: UC001

1.3 Intended Audience and Reading Suggestions

This document is intended mainly for developers with parts customers can easily get important information from (system features and use cases).

This document can also benefit any or all stakeholders and cLMIS project managers.

1.4 Product Scope

LMIS will be a web application that will use database to store information about Contraceptive products and commodities, the related stakeholders, their location and supply chain logistics. It will help the staff who manages the contraceptive supplies to view and enter the contraceptive logistics data and provide statistics about the use of contraceptives nationwide.

1. **Provide a centralized web-accessible data repository of LMIS reported data** from data providers.
2. **Make it possible for Data Providers to do data entry** by using one of two approaches depending upon their internet connectivity:
    a. **Web-based data entry** for data providers with internet connectivity. This includes being able to generate reports for themselves.
    b. **Offline data entry module** which continues to allow data providers who work in the field without internet connectivity to supply data to LMIS. The goal here is provide a single "object" that resides on the user's machine that is capable of gathering all needed data and sending it to the central system. The module should add client-side validation in order to ensure that the information sent from the data provider's machine is valid and can be reported to LMIS.
3. **Make it possible for Administrator to manage LMIS** and create all of the necessary data in order to assist users to continue to provide and review logistics data.
4. **Make it possible for Data Reviewers to access the LMIS** and get reports about the country's provinces and districts to help them in logistical decision-making regarding supply chain management in their assigned districts.

2. Overall Description

A general description of the requirements is best understood by understanding the stakeholders, the users of the system, and the scenarios that are required to be supported for each type of user.

2.1 Stakeholders

Stakeholder and level specific activities users can perform in LMIS:

Stakeholder	Activity	Level				
		CWH*	**Health Facility**	**District**	**Province**	**National**
Population Welfare Department	IM	✓				
	Data Entry		✓	✓	✓	
	Reports	✓	✓	✓	✓	✓
	Graphs	✓	✓	✓	✓	✓
	Maps	✓	✓	✓	✓	✓
Lady Health Workers' Program	IM					
	Data Entry	✓	✓	✓	✓	
	Reports	✓	✓	✓	✓	✓
	Graphs	✓	✓	✓	✓	✓
	Maps	✓	✓	✓	✓	✓
Department of Health	IM				✓	
	Data Entry	✓	✓	✓		
	Reports	✓	✓	✓	✓	✓

	Graphs	✓	✓	✓	✓	✓
	Maps	✓	✓	✓	✓	✓
Private Sector	IM					
	Data Entry	✓		✓	✓	
	Reports	✓	✓	✓	✓	✓
	Graphs	✓	✓	✓	✓	✓
	Maps	✓	✓	✓	✓	✓

** The Central Warehouse will be responsible for entering all central level stock status updates into the LMIS.*

2.2 User Types

The following actors and responsibilities have been identified as potential users in cLMIS:

Guest User

SDP Level	Actor	Access Mode	Responsibilities
Guest User/ Anonymous User	Any Web User	Web	View the logistics data information of other warehouses. View geographical and periodic logistics information in tabular and graphical formats.

Data Entry Operator/Stakeholder Specific User

SDP Level	Actor	Access Mode	Responsibilities
Data Entry Operator (DEO) /		Web	Enter/View monthly reported data of products for the assigned Warehouse/Store.

Stakeholder Specific User	District Store Operator Field Store Operator Central Warehouse Operator Provincial Warehouse Operator		View the logistics data information of other warehouses. View geographical, stake holder and periodic logistics information in tabular and graphical formats. Change account password. Import data (exported from PC client) to LMIS.
		PC Client	Enter/View logistics data of products for the assigned Warehouse/Store.

Administrator

SDP Level	Actor	Access Mode	Responsibilities
Administrator	Database Manager	Web	Manage and administer all control data (e.g. users, locations, stakeholders, products, etc.) Manage Month of Stock scale. Manage list of stakeholders with rights to Add/Delete/Update. Assign products to Stakeholder. Add/Delete/Update Stakeholder's offices. Approve data entered by data providers

Sub-Administrator

Sub-Administrator	Provincial Manager	Edit warehouse data and create users and warehouse stores. Will also manage province related specialized productivity and performance reports.

2.3 Project Documentation

- SRS and Use Case Document
- User Manual for Data Entry Operators and System Administrator
- Training Manual for Data Entry Operators and System Administrator

2.4 Assumptions and Dependencies

All users are expected to know how to use basic Internet tools.

3. External Interface Requirements

3.1 User Interfaces

No external User interfaces will be required.

3.2 Hardware Interfaces

The user navigates and inputs information with a mouse and keyboard.

3.3 Software Interfaces

LMIS uses a SQL database to store all information about users, stakeholders, products, geographical location records and statistics.

3.4 Communications Interfaces

LMIS is a web application used through a web browser. The login will use HTTPS (secure http) to protect passwords and HTTP and HTTPS to send information back and forth.

4. Functional Requirements

4.1 Introductory remarks

The level of detail provided in these scenarios will vary according to how much is needed by the project team.

In some cases (e.g. logging in and logging out), and simple create-read-update-delete (CRUD) functionality for a simple control structure, not much is said because there is a well-understood set of common functions that are expected to be provided.

As far as validation goes, it will be called out specifically if the team perceives that doing so adds value to the scenario's intent.

Also, there is an assumption that the user will be alerted to a data entry issue as early as it is detectable. So, for example, if a user enters a bad date, they should be told right away and not be allowed to submit the form. Additional checking should be done by server-side processes.

In all cases, there is an implicit assumption that the implementation team will enforce these basic constraints:

Name	The name of a thing is always required and should be relatively short (i.e. must not exceed 100 characters), must be unique across the object type unless otherwise noted. For example, a product might be named "X" and a program might also happen to be named "X", but that is alright, because they are different types.
Description	The description of a thing is always required and. It should not exceed 255 characters.
Text	In general, text fields will have an upper maximum length of 4000 characters. When/where possible, if user can be given feedback as to the current length typed, that would be a nice-to-have.
Email	Always checked to be sure it is a valid email format.
Date	The date format to appear on forms and reports is either: mm YYYY; or, if specific day is needed: dd-mm-YY

The application, when it detects an error (and it should always detect things like: invalid/timed-out session, JavaScript turned off). Upon detecting such conditions, an error should be reported – both to the user through the user interface (common error page), but also logged to the system log.

In that vein, exception handling, and general error handling, should always take the user to a common error page that is branded/styled as part of the PPMR application. So, for example, regardless of whether the session timed out or some sort of database error occurred, a single error page should be used; what will vary is the nature of the specific error.

Also, when reviewing the scenarios, it might be useful to have the High Order Concept Model handy. It is a graphical (static view) depiction of the concepts at work in the PPMR system.

4.2 Secure data entry and role based access

Users will log in securely to prevent unauthorized changes to LMIS records. User can login as a Guest user, a DEO, or an Administrator. Each user will have role based access depending on their user types.

If the user types a wrong password the system prompts for incorrect login credentials.

Administrator and DEOs should also be able to change their passwords

4.2.1 Forgot Password

If the user forgets their password, they can go to a page where they can provide their email address. If the system identifies that there is such an email address, then it sends the password reminder to the email address.

Validation: email address is “known” in LMIS (i.e. must exist for exactly 1 user)

4.2.2 Welcome User / Home Page

When a user first accesses the website, there is a public home page that welcomes the user with content accessible to everyone. Note: in addition, depending on whether the user is logged in, other options may appear. For example, if the user is logged in, there is an option to logout. Other options may appear depending on the type of user. For example, a Data Provider will have option(s) related to data entry whereas a Data Reviewer might only have access to data reporting options.

4.2.3 Change Password

The following scenarios apply to Stakeholder specific users/Data Entry Operators and Administrators – provided they have successfully logged in.

Once a user has logged in, they have the option of changing their password. This is the typical interface for that feature – e.g. accepting and processing:

Current Password

New Password

Confirm Password

Validation: if the existing password is correct and the new passwords are valid according to the technical requirements for legal passwords, and the two new passwords match, the change the password.

4.2.4 Logoff

When a user logs off, any session data that might have been saved should be discarded and no longer available. All pages in LMIS that provide some function that requires understanding what user is logged on and what type of user they are (with corresponding privileges) must have a valid login check (ensure login is valid if page requires it).

4.3 LMIS Guest and Stakeholder Specific User Requirements

4.3.1 Dashboard

Dashboard should contain multiple dashlets i.e. Consumption v Average Monthly Consumption, CYP and also the stock status (Stock out and Overstock) of each product for the selected geographical level and stakeholder for the specified period of time. Dashboard should reflect both Public and Private sectors. Also one dashlet should show central warehouse MOS of each product.

4.3.2 LMIS Explorer

Users should be able to view the reported data of all Districts/Field offices for each product filtered by stakeholders.

4.3.3 Summary Reports

These reports should provide geographical summary of logistics indicators

4.3.3.1 National report

This report should provide the information about the consumption, average monthly consumption (AMC), quantity on hand of all products and month of stock (MOS) for each product at the National level.

4.3.3.2 Stakeholder report

This report should provide the information about consumption and average monthly consumption of all stakeholders for the selected product.

4.3.3.3 Province report

This report should provide the information about the consumption, average monthly consumption (AMC), quantity on hand of all products and month of stock (MOS) for each product at the Provincial Level.

4.3.3.4 District report

This report should provide the information about the consumption, average monthly consumption (AMC), quantity on hand of all products and month of stock (MOS) for each product at the District Level.

4.3.3.5 Public private sector report

This report should provide the public and private sector share of logistic indicators i.e. Consumption, AMC, Stock on Hand and MOS at National, Provincial, District and Field level.

4.3.4 Performance reports

These reports should reflect the geographical wise performance of the stores / health facilities.

4.3.4.1 Non/Reported districts

This Report should provide the reporting rate of District Stores, Field Stores and Health Facilities which have reported or not reported for a particular month. If "all" is selected from the option "Type", all level stakeholders for a particular month will appear in the list. This report also provides the list of on-time and late reported Stores/Facilities.

4.3.4.2 District wise compliance report

This report should provide the monthly reporting status of district store and reporting rate of the health facilities in that district over the whole year.

4.3.4.3 Health facility wise compliance report

This report should provide the information about the monthly reporting status of each health facility in a district over the whole year.

4.3.4.4 Quarterly reporting rate

This report should provide the Stakeholder wise Reporting Rate for each month of the selected quarter of a year at Provincial Level.

4.3.4.5 Provincial reporting rate

This report should provide the Province wise reporting rates of District Stores, Field Stores and Overall Reporting Rates for the public sector stakeholders.

4.3.4.6 Inventory turnover

This report should provide the inventory turnover analysis for selected geographical level.

4.3.5 Yearly reports

These reports should provide the month by month data for the selected logistic indicators and geographical levels

4.3.5.1 District stock report

This report should provide the district wise information about the issued stock, received stock, consumption and quantity on hand of the selected product.

4.3.5.2 Central/Provincial warehouse

This report should provide the monthly values of different inventory indicators i.e. Issued, Stock on Hand and received stock of stakeholder's central or provincial warehouse / stores.

4.3.5.3 Provincial Yearly Report

This report should provide the provincial yearly report month for the selected stakeholder, indicator and year. There will be five main indicators that can be viewed i.e. Issuance (Consumption), Couple Years of Protection (CYP), Stock on Hand and Received (District and Field). This report should show the aggregate of the selected Indicator from district and field.

4.3.5.4 Private Sector Yearly Report

This report should provide the monthly values of different inventory indicators i.e. Consumption, Stock on Hand and received stock for private sector stakeholder's warehouses/stores in a particular month.

4.3.6 Stock Reports

These reports should provide the stock information in stores/health facilities.

4.3.6.1 Stock availability report

This report should provide the information about the average monthly consumption (AMC), stock on hand (SOH) and month of stock (MOS) at three levels i.e. Federal, Provincial and District.

4.3.6.2 Field availability report

This report should provide the information about the average monthly consumption (AMC), quantity on hand of all products and month of stock (MOS) for each product at health facility level.

4.3.6.3 Projected contraceptive requirements

This report should provide the projected contraceptive requirement for a selected product in each district based on the previous consumption of the product. The report should show average monthly consumption (AMC), stock available in the district store, at the field and sum of the two for the selected ending month. It should also show desired stock level for 3 months and the requested replenishment stock for the selected store.

4.3.6.4 Stock sufficiency report

This report should provide the information about the product wise month of stock (MOS) at district level, field level and overall MOS at each district of the selected province.

4.3.6.5 Stock Issuance report

This report should provide the information about the stock issued by the central warehouse across the country.

4.3.6.6 Stock Shipment report

This report should provide the information about the total number of Issue Vouchers and Receive Vouchers by a Central, Provincial or District Store.

4.3.6.7 Contraceptive Distribution Report

This report should provide the information about the stock distributed by Transportation Mode across the country.

4.3.6.8 Procurement planning management report

The Procurement Planning and Monitoring Report (PPMR) should describe the stock status of contraceptive products. Data will be reported by trained cLMIS operators of Public and Private sector stakeholder. Shipment data will be pulled from RHI (i.e. https://www.myaccessrh.org)

4.3.7 PWD Reports

These reports should be for PWD users only.

4.3.7.1 Pakistan Bureau of statistics

These reports should provide the performance of the health facilities on different parameters like consumption, CYP, surgery cases and clients.

4.3.7.1.1 Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets (Form-14)

This report should provide service outlet wise and district wise monthly performance of each product for the selected province.

4.3.7.1.2 District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)

This report should provide the district wise monthly stock and sale report for the selected province and product.

4.3.7.1.3 District wise Provincial Contraceptive Surgery Cases Report (SPR-1)

This report should provide the district wise performed surgery cases during the month for the selected province.

4.3.7.1.4 District Wise Monthly Report on Acceptor by Method (SPR-2)

This report should provide the district wise old and new clients of each product for the selected service outlet and province.

4.3.7.1.5 District Wise Monthly Report on Acceptor by Method (PWD-3)

This report should provide the district wise mother care and general ailment for the selected service outlet and province.

4.3.7.2 Provincial reports

4.3.7.2.1 Provincial Summary of Contraceptive Performance (SPR-3)

This report should provide the service outlet wise and district wise performance of each product for the selected time interval and province.

4.3.7.2.2 Outlet-wise CYP performance

This report should provide the service outlet wise comparison of CYP in the selected month and its previous month for the selected province.

4.3.7.2.3 District-wise CYP performance

This report should provide the district wise comparison of CYP in the selected month and its previous month for the selected province.

4.3.7.3 District Reports

4.3.7.3.1 District Monthly Report of Family Planning Activities (SPR-8)

This report should provide the health facility wise old and new client data of each product for the selected district and time interval.

4.3.7.3.2 District Monthly Contraceptive Performance Report (SPR-9)

This report should provide the service outlet wise performance of each product and also performed surgery cases for the selected district and time interval.

4.3.7.3.3 District Contraceptive Performance (SPR-10)

This report should provide the health facility wise performance of each product for the selected district and time interval.

4.3.7.3.4 Project Wise Summary of Contraceptive Performance & CYP (SPR-11)

This report should provide the service outlet wise performance in terms of CYP and Users of each product for the selected district and time interval.

4.3.7.3.5 District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)

This report should provide the health facility wise stock and sale of each product for the selected district and time interval.

4.3.7.3.6 District Contraceptive Stock Report (CLR-15)

This report should provide the stock and sale of each service outlet and district store stock of each product along with surgery cases for the selected district and time interval.

4.3.7.3.7 District Monthly Report of Family Planning Activities (DPW-F1)

This report should provide the health facility wise old and new clients and sales of each product along with surgery cases and mother and child care for the selected district and time interval.

4.3.7.3.8 Sale Proceeds of Contraceptives

This report should provide the total sales in terms of currency for the selected month and its corresponding previous month.

4.3.7.3.9 Monthly Performance Report of Satellite Camps

This report should provide the monthly performance of each product along with mother and child care of satellite camps held.

4.3.8 Graphs for representing different logistic indicators

- LMIS should have the capability to plot graphs for basic indicators (CYP, Amount Dispensed, MOS and Stock on Hand) for products using geographical, periodic and stakeholder data.
- LMIS should have the capability to plot comparison graph based on Annual data at National, Provincial and District levels using basic indicators (CYP, Amount Dispensed, MOS and Stock on Hand), products, geographical, and stakeholder data filters.
- LMIS should be able to compare Stakeholder data at National, Provincial and District levels using basic indicators (CYP, Amount Dispensed, MOS and Stock on Hand), products, geographical, and periodic data filters.

4.3.9 Maps for representing different logistic indicators

LMIS should have the capability to plot geographical maps for basic indicators (CYP, Amount Dispensed, MOS, reporting rate and Stock on Hand) for products using geographical, periodic and stakeholder data.

4.3.9.1 Month of Stock

This map should show the month of stock of a product for the selected geographical level and stakeholder. The map should be able to show the district or field level MOS. The map should also provide the facility to show the last three month stock availability trend. Different colors should be used to show the MOS intensity.

4.3.9.2 Consumption

This map should show the consumption/Avg. consumption of a product for the selected geographical level and stakeholder. The map should be able to show the last three month consumption trend. Different colors should be used to show the consumption/Avg. consumption intensity.

4.3.9.3 Couple Year Protection

This map should show the CYP of a product for the selected geographical level and stakeholder. The map should be able to show the last three month CYP trend. Different colors should be used to show the CYP intensity.

4.3.9.4 Couple Year Protection by Population

This map should show the CYP normalized by population of a product for the selected geographical level and stakeholder. Different colors should be used to show the CYP intensity.

4.3.9.5 Reporting Rate

This map should show the reporting rate of a product for the selected geographical level and stakeholder. Different colors should be used to show the CYP intensity.

4.4 Stakeholder Specific User's Requirements

In addition to all of the above requirements, the stakeholder specific users will also be able to add monthly data into LMIS. The requirements below are specific to stakeholder specific users.

4.5 Inventory Management

4.5.1 Stock Receive (Supplier)

Stock receiving from supplier feature will enable Central Warehouse Karachi (CW&S) managers to record stock received details in cLMIS.

Stock details includes the funding source, product, manufacturer/Brand and batch information, production date, expiry date, unit price and quantity of the received product etc.

4.5.2 Stock Receive (Warehouse)

Stock receive (warehouse) feature enables district storekeepers to receive their stock issued by Central Warehouse manager using cLMIS.

District Storekeeper will be able to receive products against the issue voucher number provided by the central warehouse manager while issuing stock to the respective district store.

4.5.3 Stock Receive Search (History)

User will be able to search received stock history by receive number, batch number, product and by funding source. System will also provide an option to print filtered search and individual transaction.

4.5.4 Placement Locations

For a better warehouse management it's very much important that managers should know exactly which stock is placed where in the warehouse for this purpose 'Placement Locations' feature will enable the warehouse/store manager to add warehouse locations (bins) information in the system, by using this feature user will ab able to add locations bin information along with these elements, Store Area, Row, Rack, Rack Type, Pallet and Level, user also will be able to make Active or Inactive these locations bins in case some racks removed etc.

4.5.5 Location Status

View Status: Warehouse/Store manager should be able to place stock on locations (bin) and also should be able to view placed stock details at any bin at any time, Location Status Feature will enable user to select area and level to view all bins, where user can view each location (bin) status by selecting any location/bin.

Place more Stock: User will also have an option to place more stock on any selected location/bin.

Transfer Stock: User should be enable to transfer stock one location/bin to another location/bin.

4.5.6 Batch Management

Batch management is an important feature of inventory management system where the products supply is based on first expiry first out (FEFO). cLMIS will provide a section for batch management of each product. Each batch will have a status i.e. Running, Stacked and Finished. User will be able to change the status from Running to Stacked as desired.

Products can be issued only if their batch status is set to Running by the system. All new batches for any product will be set as Running. One or more batches can be set to running depending on the quantity and expiry date of the product.

System will also provide a summary of batches of each product with a total quantity.

User also will be able to view batch placement information in batch management.

4.5.7 Stock Issue to other Stores

By this link, National, provincial and district users will be able to issue stock. At national level the issuance will be based on the districts requisition (CLR-6) while districts will issue stock to health facility on the bases of sub-district products' consumption. Provincial and district storekeepers will also be able to issue back to their respective upper level store if required, stock issuance details includes Issue Date, Reference, Product, Batch, Quantity and respective provincial/district store.

4.5.8 Stock Issue against Requisition (CLR-6)

Districts will create requisition and electronically submit to central warehouse Karachi. These requisitions will be reviewed by the Central Warehouse Manager and stock will be issued as per stock availability and approval.

4.5.9 Stock Issue Search (History)

User will be able to search issued stock by issue number, batch number, product and store. System will also provide an option to print filtered search and individual transaction. User will be able to print issue voucher based on summary of issued stock by product and location, a detailed print voucher based on location and product.

4.5.10 Stock Picking

User will be able to pick stock with respect to the issued vouchers, where user will be able to get list of issued vouchers between date ranges and then can pick bathes one by one for all issued vouchers.

4.5.11 Adjustments & Search Adjustments

Due to any reason warehouse/store managers need to make adjustments in inventory, so user will be able to add adjustments of stock in case of theft, lost, lost recovered, expired or damaged or another reason. User also will be able to search adjustments (history). System will also provide an option to print filtered search and individual transaction.

4.5.12 Bin Card

Bin Card is very important for any warehouse/store where daily bases store managers/keepers can see the current status of any location/bin or event complete row/rack. Bin card option will enable users to view and print stock placed at any row/rack of the warehouse/store.

4.5.13 New Gate Pass & View Gate Pass

No consignment/container will leave warehouse/store premises until it shows the approved/valid gate pass to the gate keeper, so new gate pass feature will enable user to generate gate passes based on issued vouchers and take a print to give the container respective responsible and user also can view generated gate pass history.

4.5.14 Summary Reports (Dashboard)

User will be provided with some important inventory summary reports in the form of dashboard which enables users to make decision related to different operations of inventory management in warehouse/store having a single glance on the summary (dashboard) reports, these will include Issuance and Stock On hand, Expiry status of the batches, Stock/Inventory summary, months of stock etc.

4.6 Requisitions (CLR6)

Data entry users should be able to generate requisitions to the central warehouse. Users should also be able to see their requested requisitions. Any action taken on these requisitions by central warehouse must be reflected to the users as well

4.6.1 New Requisition (CRL6)

Data entry users will click on New Requisition link from the Manu. User will be given the options to select the time interval for which requisitions will be generated. User will click the create Requisition button. Requisition will be generated based on the previous data entry. Following columns will be shown in the Requisition form.

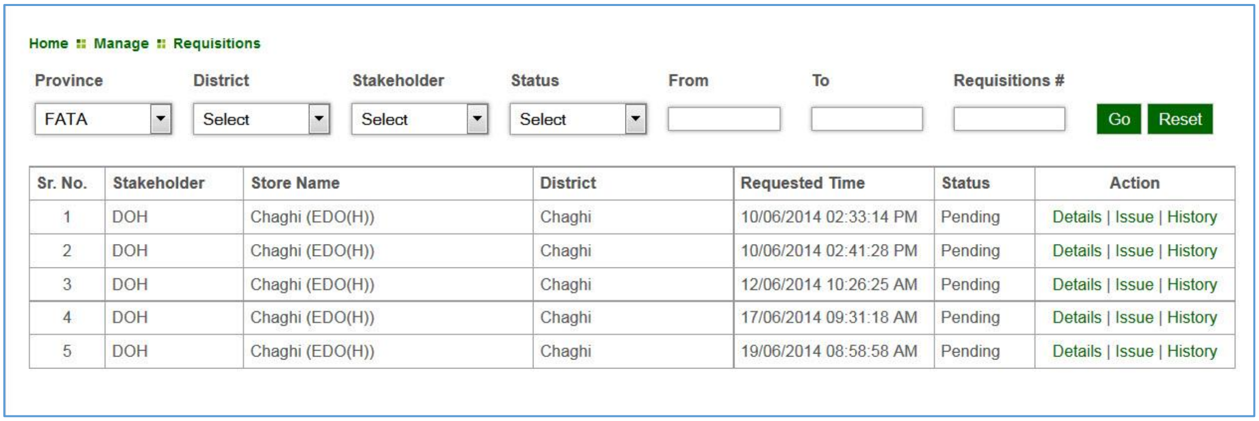
S.No.	*Factor*	*Description*
1	*Consumption During Last Quarter*	*This will show the reported consumption of commodities during the last quarter*
2	*Stock at the end of last quarter at district Store*	*This will show the SOH of the district store at the end of last quarter*
3	*Stock at the end of last quarter at health outlets*	*This will show the SOH at the facilities/Field level at the end of last quarter*
4	*Total Stock Available*	*This will show the total available stock at district level i.e. sum of stock at district level and facilities / field level*
5	*Desired stock level for 2 quarters*	*This will show the stock required for the next 2 quarters i.e.* *Consumption During Last Quarter * 2*
6	*Replenishment Requested*	*This will show the stock that is required to fulfill the requirements i.e.* *Desired stock level for 2 quarters - Total Stock Available*

4.6.2 View Requisition (CRL6)

Requested requisitions should be viewed any time by the requesters. They will be also be able to the status of their requisitions i.e. Pending, Approved, Issue in Process or Issued.

4.6.3 Manage Requisition (CRL6)

Central stores will be able to manage requisition requests by district stores. System will provide options to view detail Requisition (CLR-6), issue against any requisition and view history.



Home :: Manage :: Requisitions

Province	District	Stakeholder	Status	From	To	Requisitions #		
FATA	Select	Select	Select				Go	Reset

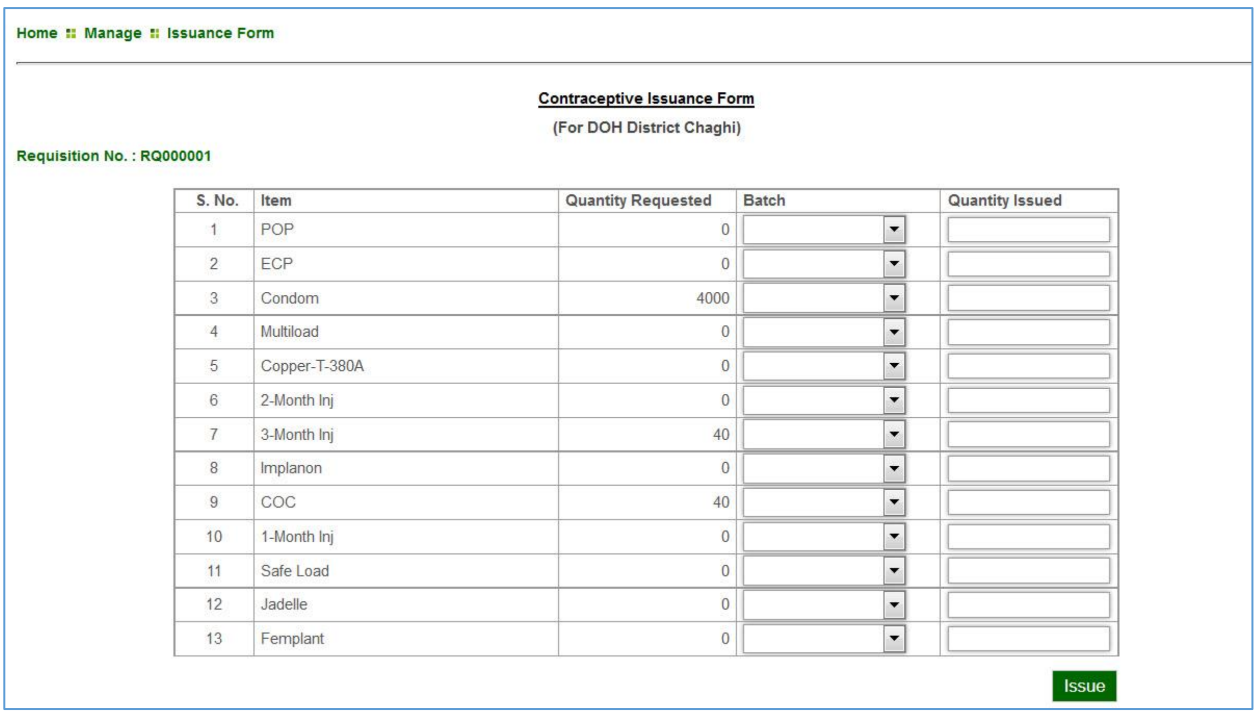
Sr. No.	Stakeholder	Store Name	District	Requested Time	Status	Action
1	DOH	Chaghi (EDO(H))	Chaghi	10/06/2014 02:33:14 PM	Pending	Details | Issue | History
2	DOH	Chaghi (EDO(H))	Chaghi	10/06/2014 02:41:28 PM	Pending	Details | Issue | History
3	DOH	Chaghi (EDO(H))	Chaghi	12/06/2014 10:26:25 AM	Pending	Details | Issue | History
4	DOH	Chaghi (EDO(H))	Chaghi	17/06/2014 09:31:18 AM	Pending	Details | Issue | History
5	DOH	Chaghi (EDO(H))	Chaghi	19/06/2014 08:58:58 AM	Pending	Details | Issue | History

4.6.3.1 CLR-6 Details

System will provide an option to view the submitted Requisition (CLR-6) by the district store which can be printed at any time.

4.6.3.2 Issue Stock

System will allow the central and provincial stores to issue stock against each requisition.



Home :: Manage :: Issuance Form

Contraceptive Issuance Form

(For DOH District Chaghi)

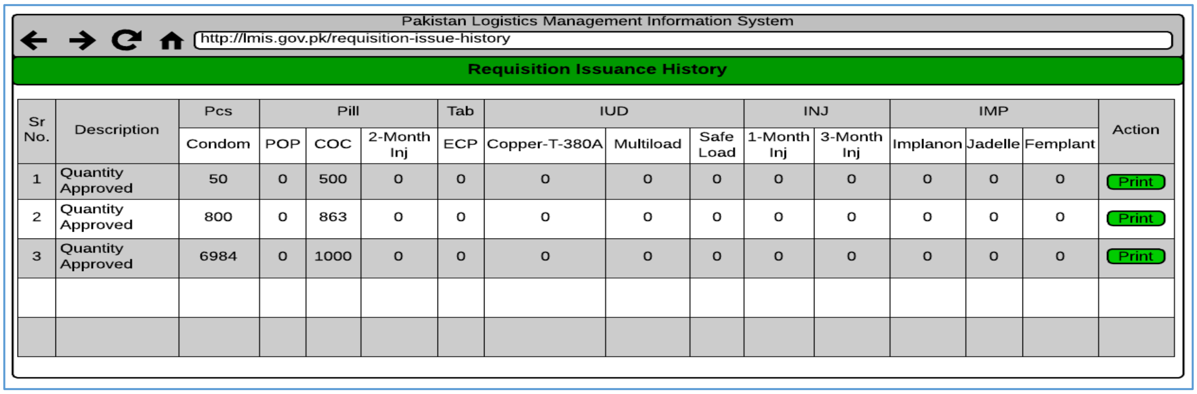
Requisition No. : RQ000001

S. No.	Item	Quantity Requested	Batch	Quantity Issued
1	POP	0		
2	ECP	0		
3	Condom	4000		
4	Multiload	0		
5	Copper-T-380A	0		
6	2-Month Inj	0		
7	3-Month Inj	40		
8	Implanon	0		
9	COC	40		
10	1-Month Inj	0		
11	Safe Load	0		
12	Jadelle	0		
13	Femplant	0		

Issue

4.6.3.3 Issue History

System will provide a history of previously issue stock against each requisition of a district store.



Sr No.	Description	Pcs	Pill			Tab	IUD			INJ		IMP			Action
		Condom	POP	COC	2-Month Inj	ECP	Copper-T-380A	Multiload	Safe Load	1-Month Inj	3-Month Inj	Implanon	Jadelle	Femplant	
1	Quantity Approved	50	0	500	0	0	0	0	0	0	0	0	0	0	Print
2	Quantity Approved	800	0	863	0	0	0	0	0	0	0	0	0	0	Print
3	Quantity Approved	6984	0	1000	0	0	0	0	0	0	0	0	0	0	Print

4.7 Data entry to LMIS

System should allow the data entry operator user to add logistics data to LMIS for each warehouse/field office. District Operators will enter data for field offices. Each field office should be defined individually in the system for the assigned Data Entry Operator's account for the related District, so that the data for each field office can be added separately. Data for different field offices can also be consolidated and added to a single field office entry.

Data can be entered for each month on or after the 1st date of the next month.

Data entry operators can edit data for the last entered month for that warehouse/field office. Data from previous months cannot be edited.

Commodity	**Opening Balance**		**Received**	**Issued**	**Adjustments**		**Closing Balance**	
	Calculated	**Actual**			**(+)**	**(-)**	**Calculated**	**Actual**

Reset **Save**

4.7.1 Data Layers

Data will be reported on 5 levels: National, Provincial, District, Field and Health Facility. LMIS should be capable of handling the data layers. Data in all layers should be segregated. It is possible to enter aggregated data in layer 4 (Field) level due to the lack of internet infrastructure in the sub districts and other remote areas.

Layer	Geographical Indicator
Layer 1	National
Layer 2	Provincial
Layer 3	District
Layer 4	Field
Layer 5	Health Facility

4.7.2 Viewing Reported data of different months

Data entry operators should be able to view their reported data of previous months for each product.

Data entry operators should be able to view the reported data of other Districts/Field offices for each product filtered by stakeholders.

4.7.3 Data can be exported to spreadsheets

System should be able to export data in LMIS to PDF and Excel file formats.

4.8 LMIS Administrator Requirements

The following requirements apply to the administrator of LMIS. The LMIS administrator can only manage and administer all control data. The administrator user cannot view reports or enter data into LMIS.

4.8.1 LMIS Administration should be able to Manage ACL

Administrator should have able to manage ACL. Administrator should be able to add/edit Roles, Resources and must be able to assign resources to the roles. User should be given to access only to assigned resources.

4.8.2 LMIS Administration should be able to manage users

Administrator should have the capability to create users. For creating a user Administrator should be able to select from a list of pre-defined Stakeholders.

Administrator should be able to specify Province from a list of available provinces. On selecting the province, the Districts for that province should populate dynamically. User should be able to select one, more or all of the Districts. For each of the selected District, the Warehouse/Store for that district should populate dynamically. User should be able to select one, more or all of the Warehouses/Stores. The following fields should be provided for data entry:

Login ID
Password
Confirm Password
Full name
Email
Phone/Cell number
Fax Number
Address
User Picture
Department
Designation

A list of existing users should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on districts.

4.8.3 LMIS Administration should be able to manage warehouses

To create a Warehouse/Store, the Administrator should be able to select from a list of pre-defined Stakeholders. On selecting the stakeholder, the Office types for that stakeholder should populate dynamically. For each stakeholder, only one office type can be selected.

Administrator should be able to select from a list of pre-defined Provinces. On selecting the province, the Districts for that Province should populate dynamically. For each Province, only one District can be selected.

There should be a field for specifying Warehouse name.

A list of existing Warehouses/Stores should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on Stakeholders and Office Types.

4.8.4 LMIS Administration should be able to manage locations

To create a location administrator should be able to select from a list of pre-defined location levels. On selecting the location level, the location types should populate dynamically. For each Location level, only one location type can be selected.

Administrator should be able to select from a list of pre-defined Provinces.

There should be a field for specifying location name.

A list of existing locations should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on Location Name and Location Level.

4.8.5 LMIS Administration should be able to manage stakeholders

To create a stakeholder there should be a field for specifying location name.

The jurisdiction for the stakeholder should be specified. The options include National, Provincial, District or Field.

Stakeholder should be specified as either public or private stakeholder.

A list of existing stakeholders should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on Stakeholder Name.

4.8.6 Managing Stakeholder's Office

To create a stakeholder’s Office there should be a field for specifying Stakeholder Office name.

The jurisdiction for the stakeholder should be specified. The options include National, Provincial, District or Field.

Stakeholder should be specified as either public or private stakeholder.

A list of existing stakeholders should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on Stakeholder Name.

4.8.7 Managing Stakeholder’s Products

User should be able to select a stakeholder and then assign products to that stakeholder. User should be able to select one or more or all of the products.

A list of existing stakeholders and their assigned products should display. Each entry in the list can be edited.

The existing users should have the capability to be filtered based on Stakeholder Name.

4.8.8 LMIS Administration should be able to manage products

For adding a product the following data entry fields must be provided:

Product name

Unit of measure of product

Category

Status

Description

Each product should have an index entry that helps determine the hierarchy of products for displaying them in a list.

Each product can be assigned to one or more stakeholders.

Each product may belong to a product group.

A list of existing products should display. Each entry in the list can be edited and/or deleted.

4.8.9 LMIS Administration should be able to manage groups

User should be able to add a product group. The added groups should display in a table and each entry should be editable and delete-able. The table entries should provide capability to be filtered using group name.

4.8.10 Manage the Month of Stock scale data for products.

MOS (Month of Stock) is defined as:

$$\frac{\text{Stock in Hand}}{\text{Average Monthly Consumtion}}$$

Administrator should be able to define levels for MOS scale for each product on all levels (National, Provincial, District and Sub-District) so that the MOS status for each level can be identified every month.

To create MOS scale entry:

For each product, user should be able to specify a Scale start and end value with a color code for that scale value. The MOS scale entry can be defined for all stakeholders and at all levels. User can also specify description for that scale.

A list of existing MOS scale entries should display. Each entry in the list can be edited and/or deleted.

The existing users should have the capability to be filtered based on products.

4.8.11 Create/Update/Delete product types for commodities

Administrator must be able to add/edit/delete product types. Product types specify the type of product like tablet, injection or pill, etc. User should be able to view a list of existing product types.

User should be able to filter product types.

4.8.12 Create product categories

Administrator must be able to add/edit/delete product category. User should be able to view a list of existing product categories. User should be able to filter product categories.

4.8.13 Create/Update/Delete product status identifiers

Administrator must be able to add/edit/delete product status. User should be able to view a list of existing product statuses. User should be able to filter product status.

4.8.14 Unlock data entry

Administrator should be able to unlock data entry access to the users for which data entry access will be restricted due to non-reporting of data in the last month.

Use Cases

6. Use Cases

A use case shows a user and a computerized system interacting to reach a goal. Use cases are meant to be read by a potentially wide range of team members and are therefore written in text prose, unaccompanied by technical symbols or notations. Use cases answer the question:

What are the specific responsibilities of the system within a use case?

Make sure the use case is initiated by a business event, and provides value to some actor. Exceptions, more commonly known as “alternate courses” should be created for each scenario/use case.

Figure 1: Component of a Use Case Diagram

An actor represents a user or another system that will interact with the system that is being modeled. A use case is an external view of the system that represents an action the user may perform in order to complete a given task.

Please note:

- The use cases are documented as potential applications of the proposed system. Not every use case needs to be implemented in the solution.
- The system relies on mobile phone networks and computer networks therefore any service outage may affect the system performance

The following use cases are based on possible scenarios that may be encountered in the cLMIS system.

6.1 Login

Use Case ID	UC 001
Level	User-level
Actors	Administrators, Data Entry Operators, Guest Users
Goal	User is authenticated to use the system and is granted role based access to the system
Pre-Conditions	A user account has been created for the user and login credentials provided to the user
Post-Conditions	User can successfully access the system and perform tasks based on their roles
Stakeholder Interest	Based on the role, the user may want to access the logistics data, apply settings, or enter data.
Main Success Scenario	**1.** User navigates their browser to the LMIS web site. **2.** User enters their user name and password. **3.** System validates username and password. **4.** System determines the user's role. **5.** System provides the actions that user can perform based on their role.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over 1a: System provides contact information to the users. 3a: User not recognized 1: System denies access and notifies user of bad user name 3b. Password incorrect 1: System denies access and notifies user of incorrect password 3c: Forgot password 1: System prompts for an email address to verify the user and email the password to the user.
Special Requirements	Internet access
Notes/Issues	none

6.2 Viewing Dashboard

Use Case ID	UC 002
Description	Viewing dashboards of selected indicators and sector
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view dashboard of the selected indicators
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the dashboards in LMIS.
Stakeholder Interest	User wants to view dashboard
Main Success Scenario	**General** 1. User logs in. 2. User clicks dashboard link in the main menu 3. System displays the dashlets. 4. User selects the Month. 5. User selects the Year. 6. User selects the Office level. 7. User Selects the Product 8. System populates dashlets for the selected compare option.
Requirements	Reference to corresponding system requirements: 4.3.1
Notes/Issues	none

6.3 Viewing Warehouse Monthly Report

<table>
<tr><th>Use Case ID</th><th>UC 003</th></tr>
<tr><td>Description</td><td>Viewing Warehouse Monthly Report</td></tr>
<tr><td>Level</td><td>User-level</td></tr>
<tr><td>Actors</td><td>Data Entry Operators / Stakeholder Specific Users</td></tr>
<tr><td>Goal</td><td>User can view monthly warehouse reports in LMIS for his assigned and other warehouses</td></tr>
<tr><td>Pre-Conditions</td><td>User must be logged into the system and have a Stakeholder specific account or guest account.</td></tr>
<tr><td>Post-Conditions</td><td>User can successfully view monthly warehouse reports in LMIS for his assigned and other warehouses.</td></tr>
<tr><td>Stakeholder Interest</td><td>User may want to access the logistics data for different warehouses.</td></tr>
<tr><td>Main Success Scenario</td><td>Viewing Reports of Assigned Warehouses of Previous Months
1. User logs in.
2. User clicks My Reports under Monthly Reports tab.
3. System displays My Report screen.
4. User selects the Month.
5. User selects the Year.
6. User selects the Warehouse from a list of warehouses assigned.
7. User selects OK.
8. System validates each entry field and displays data for the selected warehouse and populated the following fields for each product:
a. Opening Balance = Beginning balance from the remaining balance of previous reporting period.
b. Received = Total Quantity Received
c. Issued = Total Quantity Dispensed/Issued from that warehouse
d. Adjustments = Losses & Adjustments. (+) specified recovery of lost units, (-) represents loss of commodities.
e. Closing Balance = Quantity remaining at month’s end.

View Monthly Warehouse Report
1. User logs in.
2. User clicks Other Warehouse Reports under Monthly Reports tab.
3. System displays View Monthly Warehouse Report screen.
4. User selects the Month.</td></tr>
</table>

	5. User selects the Stakeholder. 6. System validates the Stakeholders and populates the Provinces for those stakeholders. 7. User selects the Province from a list of provinces. 8. System validates the Provinces and populates the Districts for those Provinces. 9. User selects OK. 10. System validates each entry field and displays data for the selected Stakeholder for that district. 11. System populates the following fields for each product: a. Selected Month b. Selected Year c. Product: displays the products. d. Warehouse: displays the warehouse e. Opening Balance = Beginning balance from the remaining balance of previous reporting period. f. Received = Total Quantity Received g. Issued = Total Quantity Dispensed/Issued from that warehouse h. Adjustments = Losses & Adjustments. (+) specified recovery of lost units, (-) represents loss of commodities. i. Closing Balance = Quantity remaining at month's end.
Extensions	a. * At any time, browser crashes. 1: User recovers browser and starts over 9a: User presses OK without selecting Stakeholder. 1: System populates data for all stakeholders in all districts
Requirements	Reference to corresponding system requirements: 4.7.2
Notes/Issues	none

6.4 Report Monthly Data

Use Case ID	**UC 004**
Description	Report Monthly Data

Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can submit monthly warehouse reports in LMIS for his assigned warehouses
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully submit monthly warehouse reports in LMIS for his assigned warehouses
Stakeholder Interest	User wants to submit monthly report for assigned warehouses.
Main Success Scenario	**General** 1. User logs in. 2. User clicks Data Entry tab. 3. System displays Data Entry screen. 4. User selects the warehouse. 5. System displays the last submitted report link. 6. User clicks the report link. 7. System displays the last submitted warehouse report. 8. System populates the following fields: a. Product: displays the products b. Opening Balance = Beginning balance from the remaining balance of previous reporting period. Calculated = Quantity Issued from previous month – Quantity Remaining from previous month Actual refers to the actual number of units of that product entered by the operator. c. Received = Total Quantity Received d. Issued = Total Quantity Dispensed/Issued from that warehouse e. Adjustments = Losses & Adjustments. (+) specified recovery of lost units, (-) represents loss of commodities. f. Closing Balance = Quantity remaining at month's end. Calculated = Quantity received – Quantity issued Actual refers to the actual number of units of that product entered by the operator. 9. User enters data for the month in all fields. 10. User clicks SAVE. 11. System prompts successful saving of data. **Reset Report**

1. User logs in.
2. User clicks Data Entry tab.
3. System displays Data Entry screen.
4. User selects the warehouse.
5. System displays the last submitted report link.
6. User clicks the report link.
7. System displays the last submitted warehouse report.
8. User clicks RESET DATA to reset data.
9. System provides the following fields for data entry:
   a. Opening Balance = Beginning balance from the remaining balance of previous reporting period.
      Calculated = Quantity Issued from previous month – Quantity Remaining from previous month
      Actual refers to the actual number of units of that product entered by the operator.
   b. Received = Total Quantity Received
   c. Issued = Total Quantity Dispensed/Issued from that warehouse
   d. Adjustments = Losses & Adjustments. (+) specified recovery of lost units, (-) represents loss of commodities.
   e. Closing Balance = Quantity remaining at month's end.
      Calculated = Quantity received – Quantity issued
      Actual refers to the actual number of units of that product entered by the operator.
10. User clicks SAVE.
11. System prompts successful saving of data.

Edit Report

1. User logs in.
2. User clicks Data Entry tab.
3. System displays Data Entry screen.
4. User selects the warehouse.
5. System displays the last submitted report link.
6. User clicks the report link.
7. System displays the last submitted warehouse report.
8. User can edit the data in the following fields:
   a. Opening Balance = Beginning balance from the remaining balance of previous reporting period.
      Calculated = Quantity Issued from previous month – Quantity Remaining from previous month
      Actual refers to the actual number of units of that product entered by the operator.

	b. Received = Total Quantity Received **c.** Issued = Total Quantity Dispensed/Issued from that warehouse **d.** Adjustments = Losses & Adjustments. (+) specified recovery of lost units, (-) represents loss of commodities. **e.** Closing Balance = Quantity remaining at month's end. Calculated = Quantity received – Quantity issued Actual refers to the actual number of units of that product entered by the operator. **9.** User clicks SAVE. **10.** System prompts successful saving of data.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over 7a: User presses OK without selecting Warehouse. 1: System prompts users to select warehouse for generating report
Requirements	Reference to corresponding system requirements: 4.7
Notes/Issues	none

6.5 Viewing Reports

6.5.1 Summary Reports

6.5.1.1 Viewing National Report

Use Case ID	UC 005
Description	Viewing National Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view the monthly national summary of commodities
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the national summary report in LMIS.
Stakeholder Interest	User wants to view the national summary data for commodities.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks National Summary Report under the Reports tab. **3.** System displays National Summary Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the sector (Public or private) **7.** User presses GO. **8.** System populates the data in the following fields: **a.** Product: displays the products **b.** Consumption: the number of units issues from the national warehouse **c.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **d.** Stock On Hand = Stock Issued - Consumption **e.** MOS = Stock on Hand/AMC
Requirements	Reference to corresponding system requirements: 4.3.3.1
Notes/Issues	none

6.5.1.2 Viewing Stakeholder Report

Use Case ID	UC 006
Description	Viewing Stakeholder Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view the monthly Stakeholder based summary of commodities
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the Stakeholder summary report in LMIS.
Stakeholder Interest	User wants to view the provincial summary data for commodities.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stakeholder Summary Report under the Reports tab. **3.** System displays National Stakeholder Summary Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the product **7.** User presses GO. **8.** System populates the following data in the following fields: **a.** Stakeholder: displays the Stakeholder **b.** Consumption: the number of units issues from the national warehouse **c.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **9.** User can click the Stakeholder entries to drill-down to the provincial stakeholder summary report. System populates the following data in the following fields: **a.** Stakeholder: displays the Stakeholder **b.** Consumption: the number of units issues from the national warehouse **c.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **d.** Stock On Hand = Stock Issued - Consumption **e.** MOS = Stock on Hand/AMC

Requirements	Reference to corresponding system requirements: 4.3.3.2
Notes/Issues	none

6.5.1.3 Viewing Provincial Report

Use Case ID	**UC 007**
Description	Viewing Provincial Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view the monthly provincial summary of commodities
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the provincial summary report in LMIS.
Stakeholder Interest	User wants to view the provincial summary data for commodities.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Provincial Summary Report under the Reports tab. **3.** System displays Provincial Summary Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the stakeholder **7.** User selects the product **8.** User presses GO. **9.** System populates the following data in the following fields: **a.** province: displays the provinces **b.** Consumption: the number of units issues from the national warehouse **c.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **d.** Stock On Hand = Stock Issued - Consumption **e.** MOS = Stock on Hand/AMC **10.** User can click the province entries to drill-down to the district report.
Requirements	4.3.3.3

Notes/Issues	none

6.5.1.4 Viewing of District Report

Use Case ID	**UC 008**
Description	Viewing District Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the District summary of commodities
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the District summary report in LMIS.
Stakeholder Interest	User wants to view the District summary data for commodities.
Main Success Scenario	**General** 1. User logs in. 2. User clicks District Summary Report under the Reports tab. 3. System displays District Summary Report screen. 4. User selects the month. 5. User selects the year. 6. User selects the stakeholder 7. User selects the province 8. User selects the product 9. User presses GO. 10. System populates the following data in the following fields: f. Districts: displays the districts g. Consumption: the number of units issues from the national warehouse h. AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months i. Stock On Hand = Stock Issued - Consumption j. MOS = Stock on Hand/AMC
Requirements	Reference to corresponding system requirements: 4.3.3.4
Notes/Issues	None

6.5.1.5 Viewing Public/Private Sector Report

Use Case ID	UC 009
Description	Viewing Public/Private Sector Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the Public-Private Sector Yearly Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the Public-Private Sector Report in LMIS.
Stakeholder Interest	User wants to view the provincial summary data for commodities.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Public-Private Sector Yearly Report under the Reports tab. **3.** System displays Public-Private Sector Yearly Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the Level. **7.** User selects the Province **8.** User presses GO. **9.** System populates the following data in the following fields: **a.** Product names **b.** Side by side values of public and private sector displaying the following fields: **a.** Consumption: the number of units issues from the national warehouse **b.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **c.** Stock On Hand = Stock Issued - Consumption **d.** MOS = Stock on Hand/AMC.
Requirements	Reference to corresponding system requirements: 4.3.3.5
Notes/Issues	none

6.5.2 Viewing Performance Reports

6.5.2.1 Viewing Non/Reported Districts

Use Case ID	UC 010
Description	Viewing non/reported Districts
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view non-reported Districts
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the non-reported Districts report in LMIS.
Stakeholder Interest	User wants to view the Districts that have not reported their monthly data.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Non-Reported Districts under the Reports tab. **3.** System displays Non-Reported Districts Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the Stakeholder. **7.** User selects province. **8.** User selects the Type (district or field). **9.** User presses GO. **10.** System populates the following data in the following fields: **a.** Stakeholder: Displays the stakeholder name **b.** Province/Region: Displays the Province/Region **c.** District: Displays the district **d.** Warehouse Type: Displays the warehouse type **e.** Warehouse Name: Displays the warehouse name **f.** Last Updated: Displays the Date and time when the record was last updated **g.** IP address: Displays the IP Address of the system data is entered/updated from **h.** Status: Whether its reported on-time or reported late
Requirements	Reference to corresponding system requirements: 4.3.4.1
Notes/Issues	none

6.5.2.2 Viewing District Wise Compliance Report

Use Case ID	**UC 011**
Description	Viewing District Wise Compliance Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view District Wise Compliance Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the District Wise Compliance Report in LMIS.
Stakeholder Interest	User wants to view the District Wise Compliance Report.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Compliance Report(District) **3.** System displays District wise compliance report **4.** User selects the Ending month. **5.** User selects the year. **6.** User selects the Stakeholder. **7.** User selects province. **8.** User presses GO. **9.** System populates the following data in the following fields: **a.** District: Displays the district name **b.** Month Wise reporting rate of districts based on health facilities **c.** Month Wise reporting rate of district store
Requirements	Reference to corresponding system requirements: 4.3.4.2
Notes/Issues	none

6.5.2.3 Viewing Health Facility Wise Compliance Report

Use Case ID	**UC 012**
Description	Viewing Health Facility Wise Compliance Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users

Goal	User can view Health Facility Wise Compliance Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Health Facility Wise Compliance Report
Stakeholder Interest	User wants to view the Health Facility Wise Compliance Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Compliance Report (HF). **3.** System displays Health Facility Wise Compliance Report. **4.** User selects the Ending month. **5.** User selects the year. **6.** User selects the Stakeholder. **7.** User selects province. **8.** User selects district. **9.** User presses GO. **10.** System populates the following data in the following fields: **a.** Health facility: Displays the health facility name **b.** Month Wise reporting status of health facility
Requirements	Reference to corresponding system requirements: 4.3.4.3
Notes/Issues	none

6.5.2.4 Viewing Quarterly Reporting Rate

Use Case ID	**UC 013**
Description	Viewing Quarterly Reporting Rate
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view Quarterly Reporting Rate
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the Quarterly Reporting Rate in LMIS.
Stakeholder Interest	User wants to view the view the Quarterly Reporting Rate
Main Success Scenario	**General**

	1. User logs in. 2. User clicks Quarterly Reporting Rate. 3. System displays Quarterly Reporting Rate Report. 4. User selects the Quarter 5. User selects the year. 6. User presses GO. 7. System populates the following data in the following fields: a. Province: Displays the province name b. Side by Side quarterly reporting rate of public stakeholders
Requirements	Reference to corresponding system requirements: 4.3.4.4
Notes/Issues	none

6.5.2.5 Viewing Province Reporting Rate

Use Case ID	**UC 014**
Description	Viewing Province Reporting Rate
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view Province Reporting Rate
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view Province Reporting Rate in LMIS.
Stakeholder Interest	User wants to view the Province Reporting Rate
Main Success Scenario	**General** 1. User logs in. 2. User clicks Province Reporting Rate. 3. System displays Province Reporting Rate. 4. User selects the month. 5. User selects the year. 6. User presses GO. 7. System populates the following data in the following fields: a. Province: Displays the province name b. Side by Side monthly reporting rate of District and Field stores for public stakeholders

Requirements	Reference to corresponding system requirements: 4.3.4.5
Notes/Issues	none

6.5.2.6 Viewing Inventory Turnover Report

Use Case ID	**UC 015**
Description	Viewing Inventory Turnover Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view Inventory Turnover Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the Inventory Turnover Report in LMIS.
Stakeholder Interest	User wants to view the Inventory Turnover Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Inventory Turnover Report **3.** System displays Inventory Turnover Report **4.** User selects the ending quarter. **5.** User selects the year. **6.** User selects the sector. **7.** User select the stakeholder **8.** User selects the Product. **9.** User selects the geographical level. **10.** User presses GO. **11.** System populates the Inventory Turnover graph for the selected parameters
Requirements	Reference to corresponding system requirements: 4.3.4.6
Notes/Issues	none

6.5.3 Viewing Yearly Reports

6.5.3.1 Viewing District Stock Report

Use Case ID	**UC 016**

Description	Viewing District Stock Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view District Stock Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the District Stock Report in LMIS.
Stakeholder Interest	User wants to view the District Stock Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks District Stock Report **3.** System displays District Stock Report **4.** User selects the ending month. **5.** User selects the year. **6.** User selects the sector. **7.** User selects the stakeholder **8.** User selects the Province **9.** User selects the Product. **10.** User selects the Indicator(Issued, Received, Consumption, Stock On Hand) **11.** User presses GO. **12.** System populates the following data in the following fields **a.** District: Displays the district name **b.** Stakeholder: Displays the stakeholder name **c.** Month wise value of the indicator selected
Requirements	Reference to corresponding system requirements: 4.3.5.1
Notes/Issues	None

6.5.3.2 Viewing Central/Provincial Report

Use Case ID	**UC 017**
Description	Viewing Central/Provincial Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users

Goal	User can view Central/Provincial Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the Central/Provincial Report in LMIS.
Stakeholder Interest	User wants to view the Central/Provincial Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Central/Provincial Report **3.** System displays Central/Provincial Report **4.** User selects the year. **5.** User selects the stakeholder **6.** User selects the Indicator(Issued, Received, Stock On Hand) **7.** User selects the warehouse (Central/Provincial) **8.** User presses GO. **9.** System populates the following data in the following fields **a.** Product: Displays the Product name **b.** Month wise value of the indicator selected
Requirements	Reference to corresponding system requirements: 4.3.5.2
Notes/Issues	none

6.5.3.3 Viewing Provincial Yearly Report

Use Case ID	**UC 018**
Description	Viewing Provincial Yearly Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view Provincial Yearly Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Provincial Yearly Report in LMIS.
Stakeholder Interest	User wants to view the Provincial Yearly Report
Main Success Scenario	**General** **1.** User logs in.

	2. User clicks Provincial Yearly Report 3. System displays Provincial Yearly Report 4. User selects the year. 5. User selects the sector 6. User selects the stakeholder 7. User selects the Province 8. User selects the Indicator(Consumption, CYP, Stock On Hand, Received by District, Received by Field) 9. User presses GO. 10. System populates the following data in the following fields a. Product: Displays the product name b. Month wise value of the indicator selected
Requirements	Reference to corresponding system requirements: 4.3.5.3
Notes/Issues	none

6.5.3.4 Viewing Private Sector Yearly Report

Use Case ID	**UC 019**
Description	Viewing Private Sector Yearly Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view Private Sector Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Private Sector Yearly Report in LMIS.
Stakeholder Interest	User wants to view the Private Sector Yearly Report
Main Success Scenario	**General** 1. User logs in. 2. User clicks Private Sector Yearly Report 3. System displays Private Sector Yearly Report 4. User selects the year. 5. User selects the stakeholder from the Private stakeholders 6. User selects the Indicator(Consumption, Received, Stock On Hand) 7. User presses GO. 8. System populates the following data in the following fields

	a. Product: Displays the product name b. Month wise value of the indicator selected
Requirements	Reference to corresponding system requirements: 4.3.5.4
Notes/Issues	none

6.5.4 Stock Reports

6.5.4.1 Viewing Stock Availability Report

Use Case ID	**UC 020**
Description	Viewing Stock Availability
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the monthly Stock Availability chain for central warehouse up to district level
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the Stock Availability report in LMIS.
Stakeholder Interest	User wants to view the Stock Availability Report.
Main Success Scenario	**General** 1. User logs in. 2. User clicks Stock Availability Report under the Reports tab. 3. System displays Stock Availability Summary Report screen. 4. User selects the month. 5. User selects the year. 6. User selects the Stakeholder. 7. User selects province. 8. User selects the product 9. User presses GO. 10. System populates the following data in the following fields: a. Stakeholder: displays the Stakeholder b. Consumption: the number of units issues from the national warehouse c. AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months

	d. MOS = Stock on Hand/AMC
Requirements	Reference to corresponding system requirements: 4.3.6.1
Notes/Issues	none

6.5.4.2 Viewing Field Stock Availability Report

Use Case ID	**UC 021**
Description	Viewing Field Stock Availability
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the monthly Field Stock Availability Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the Field Stock Availability report in LMIS.
Stakeholder Interest	User wants to view the Field Stock Availability report.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Field Stock Availability Report under the Reports tab. **3.** System displays Field Stock Availability Summary Report screen. **4.** User selects the month. **5.** User selects the year. **6.** User selects the Stakeholder. **7.** User selects province. **8.** User selects the district **9.** User selects the product **10.** User selects the indicator (Over Stock, Satisfactory, Under Stock, Over Stock) **11.** User presses GO. **12.** System populates the following data in the following fields: **a.** District: displays the District **b.** Health Facility: displays the Health Facility Name **c.** AMC = average of Total Quantity Issued for last 3 months Average Monthly Consumption is calculated as average of aggregated consumption of the last three non-zero consumption months **d.** SOH: Stock on Hand

	e. MOS = Stock on Hand/AMC
Requirements	Reference to corresponding system requirements: 4.3.6.2
Notes/Issues	none

6.5.4.3 Viewing Projected Contraceptive Requirements

Use Case ID	**UC 022**
Description	Viewing Projected Contraceptive Requirements Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the Projected Contraceptive Requirements Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account.
Post-Conditions	User can successfully view the Projected Contraceptive Requirements Report in LMIS.
Stakeholder Interest	User wants to view the Projected Contraceptive Requirements Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Projected Contraceptive Requirements Report **3.** System displays Projected Contraceptive Requirements Report **4.** User selects the Ending month. **5.** User selects the year. **6.** User selects the number of demand months **7.** User selects the sector **8.** User selects the Stakeholder. **9.** User selects province. **10.** User selects the product **11.** User presses GO. **12.** System populates the following data in the following fields: **a.** Province: displays the Province **b.** District: displays the District **c.** Stakeholder: displays the stakeholder **d.** Product: displays the product name **e.** AMC: displays the Average Monthly Consumption **f.** SOH: displays the stock on hand for district and field stores

	g. Desired Stock: displays the desired stock for the selected demanding months h. Replenishment Requested: displays how much stock needed
Requirements	Reference to corresponding system requirements: 4.3.6.3
Notes/Issues	none

6.5.4.4 Viewing Stock Sufficiency Report

Use Case ID	**UC 023**
Description	Viewing Stock Sufficiency Report
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the Stock Sufficiency Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account.
Post-Conditions	User can successfully view the Stock Sufficiency Report in LMIS.
Stakeholder Interest	User wants to view the Stock Sufficiency Report
Main Success Scenario	**General** 1. User logs in. 2. User clicks Stock Sufficiency Report 3. System displays Stock Sufficiency Report 4. User selects the month. 5. User selects the year. 6. User selects province. 7. User presses GO. 8. System populates the following data in the following fields: a. District: displays the District b. MOS of district and field stores for each product is shown side by side.
Requirements	Reference to corresponding system requirements: 4.3.6.4
Notes/Issues	none

6.5.4.5 Viewing Stock Issuance Report

Use Case ID	UC 024
Description	Viewing Stock Issuance Report
Level	User-level
Actors	Central Warehouse Stakeholder Specific Users
Goal	User can view the Stock Issuance Report
Pre-Conditions	User must be logged into the system and have a central washhouse Stakeholder specific account.
Post-Conditions	User can successfully view Stock Issuance Report in LMIS.
Stakeholder Interest	User wants to view the Stock Issuance Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stock Issuance Report **3.** System displays Stock Issuance Report **4.** User selects the date interval **5.** User selects the Product **6.** User selects the Stakeholder **7.** User selects province **8.** User selects the district **9.** User selects the Warehouse/Supplier **10.** User presses GO. **11.** System populates the following data in the following fields: **a.** Issue Date: displays the voucher issue date **b.** Issue Ref: displays the Issue reference number **c.** Issue Number: displays the issue number **d.** Product: displays the Product name **e.** Batch Number: displays the batch number **f.** Expiry: displays the expiry date of the bath **g.** Stakeholder: displays the stakeholder name **h.** Issue To: displays the warehouse name stock is issued to **i.** District: displays the district name **j.** Province: displays the province name **k.** Quantity: displays the quantity issued
Requirements	Reference to corresponding system requirements: 4.3.6.5

Notes/Issues	none

6.5.4.6 *Viewing Stock Shipment Report*

Use Case ID	**UC 025**
Description	Viewing Stock shipment Report
Level	User-level
Actors	Central Warehouse Stakeholder Specific Users
Goal	User can view the Stock shipment Report
Pre-Conditions	User must be logged into the system and have a central washhouse Stakeholder specific account.
Post-Conditions	User can successfully view Stock shipment Report in LMIS.
Stakeholder Interest	User wants to view the Stock shipment Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stock shipment Report **3.** System displays Stock shipment Report **4.** User selects the ending month **5.** User selects the Year **6.** User selects the Office type **7.** User presses GO. **8.** System populates the following data in the following fields: **a.** Store Name: displays the store name **b.** Displays the month wise total number of issued and Received vouchers side by side
Requirements	Reference to corresponding system requirements: 4.3.6.6
Notes/Issues	none

6.5.4.7 *Viewing Country-wide Distribution Report*

Use Case ID	**UC 026**
Description	Viewing Stock Country-wide Distribution Report
Level	User-level

Actors	Central Warehouse Stakeholder Specific Users
Goal	User can view the Stock Country-wide Distribution Report
Pre-Conditions	User must be logged into the system and have a central washhouse Stakeholder specific account.
Post-Conditions	User can successfully view Country-wide Distribution Report in LMIS.
Stakeholder Interest	User wants to view the Stock Country-wide Distribution Report
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stock Country-wide Distribution Report **3.** System displays Stock Country-wide Distribution Report **4.** User selects the Province **5.** User selects the District **6.** User selects the Stakeholder **7.** User selects the Product **8.** User selects the time interval **9.** User selects the Transportation Mode **10.** User presses GO. **11.** System populates the following data in the following fields: **a.** Province: displays the Province name **b.** District: displays the district name **c.** Stakeholder: displays the stakeholder name **d.** Product: displays the Product name **e.** Batch: displays the batch number **f.** Quantity: displays the quantity **g.** Cartons: displays the quantity in cartons **h.** Transportation Mode: displays the transportation mode
Requirements	Reference to corresponding system requirements: 4.3.6.7
Notes/Issues	none

6.5.4.8 Viewing Procurement Planning Management

Use Case ID	**UC 027**
Description	Viewing Procurement Planning Management
Level	User-level

Actors	Data Entry Operators / Stakeholder Specific Users
Goal	User can view the Viewing Procurement Planning Management Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view the Viewing Procurement Planning Management in LMIS
Stakeholder Interest	User wants to view the Viewing Procurement Planning Management report.
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Procurement Planning Management. **3.** System displays Procurement Planning Management Report **4.** User selects the month. **5.** User selects the year. **6.** User selects the Sector **7.** User presses GO. **8.** System populates the following data in the following fields: **a.** Product: displays the Product name **b.** SOH: displays the Stock on Hand **c.** Avg. Consumption: displays the average monthly consumption **d.** MOS = displays the month of stock. **e.** Details of any upcoming shipments if any
Requirements	Reference to corresponding system requirements: 4.3.6.8
Notes/Issues	none

6.5.5 Viewing PWD Reports

6.5.5.1 PBS Reports

6.5.5.1.1 Viewing Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets Report (Form-14)

Use Case ID	**UC 028**
Description	Viewing Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets Report (Form-14)
Level	User-level
Actors	PWD stakeholder Specific user

Goal	User can view the Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets Report (Form-14)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets Report (Form-14) in LMIS
Stakeholder Interest	User wants to view the Provincial Summary of Contraceptive Performance Delivery Services by Category of Service Outlets Report (Form-14)
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Form-14 Report **3.** System displays Form-14 Report **4.** User selects the month. **5.** User selects the year. **6.** User selects the Province **7.** User presses GO. **8.** System populates the following data in the following fields: **9.** This report displays the two portions **i.** Service Outlet wise a. Service Outlet: displays the Name of Service Outlet b. No. of Outlets: displays the Total number of service outlets in the province c. Product wise performance of each service outlet d. CYP: displays the couple year protection e. User: displays the users for the performance **ii.** District wise a. District: displays the district name b. No. of Outlets: displays the Total number of service outlets in the c. Product wise performance of each service outlet d. CYP: displays the couple year protection e. User: displays the users for the performance
Requirements	Reference to corresponding system requirements: 4.3.7.1.1
Notes/Issues	none

6.5.5.1.2 Viewing District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)

Use Case ID	**UC 029**

Description	Viewing District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)
Stakeholder Interest	User wants to view the District Wise Provincial Contraceptive Stock and Sale Report (CLR-11)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks CLR-11 Report **3.** System displays CLR-11 Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User selects the Product **8.** User presses GO **9.** System populates the following data in the following fields: **a.** District: displays the District name **b.** District Store: displays the Stock status(Opening Balance, Receive, Issue, Closing Balance) in district store **c.** Field Store: displays the Stock status(Opening Balance, Receive, Issue, Closing Balance) in field store **d.** Service outlet wise Stock status(Opening Balance, Receive, Issue, Closing Balance) of each service outlet
Requirements	Reference to corresponding system requirements: 4.3.7.1.2
Notes/Issues	none

6.5.5.1.3 District wise Provincial Contraceptive Surgery Cases Report (SPR-1)

Use Case ID	**UC 030**
Description	Viewing District wise Provincial Contraceptive Surgery Cases Report (SPR-1)

Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District wise Provincial Contraceptive Surgery Cases Report (SPR-1)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District wise Provincial Contraceptive Surgery Cases Report (SPR-1)
Stakeholder Interest	User wants to view the District wise Provincial Contraceptive Surgery Cases Report (SPR-1)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-1 Report **3.** System displays SPR-1 Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User presses GO **8.** System populates the following data in the following fields: **a.** District: displays the District name **b.** RHS-A Centers: displays the surgery cases performed in RHS-A Centers **c.** RHS-B Centers: displays the surgery cases performed in RHS-B Centers **d.** Total: displays the total surgery cases performed in RHS-A and RHS-B Centers
Requirements	Reference to corresponding system requirements: 4.3.7.1.3
Notes/Issues	none

6.5.5.1.4 Viewing District Wise Monthly Report on Acceptor by Method(SPR-2)

Use Case ID	**UC 031**
Description	Viewing District Wise Monthly Report on Acceptor by Method(SPR-2)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Wise Monthly Report on Acceptor by Method(SPR-2)

Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Wise Monthly Report on Acceptor by Method(SPR-2)
Stakeholder Interest	User wants to view the District Wise Monthly Report on Acceptor by Method(SPR-2)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-2 Report **3.** System displays SPR-2 Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User selects the Health Facility Type **8.** User presses GO **9.** System populates the following data in the following fields: **a.** District: displays the District name **b.** Product wise clients of each product **c.** Surgery Cases: displays the gender wise surgery cases
Requirements	Reference to corresponding system requirements: 4.3.7.1.4
Notes/Issues	none

6.5.5.1.5 Viewing District Wise Monthly Report on Acceptor by Method (PWD-3)

Use Case ID	**UC 032**
Description	Viewing District Wise Monthly Report on Acceptor by Method (PWD-3)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Wise Monthly Report on Acceptor by Method (PWD-3)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Wise Monthly Report on Acceptor by Method (PWD-3)
Stakeholder Interest	User wants to view the District Wise Monthly Report on Acceptor by Method (PWD-3)

Main Success Scenario	**General** **1.** User logs in **2.** User clicks PWD-3 Report **3.** System displays PWD-3 Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User selects the Health Facility Type **8.** User presses GO **9.** System populates the following data in the following fields: **a.** District: displays the District name **b.** Mother care (No. of cases): displays the Ante-natal and Post-natal **c.** Children: displays the adults and children treated **d.** General Ailment: displays the treatment for general ailment
Requirements	Reference to corresponding system requirements: 4.3.7.1.5
Notes/Issues	none

6.5.5.2 Provincial Reports

6.5.5.2.1 Viewing Provincial Summary of Contraceptive Performance Report (SPR-3)

Use Case ID	**UC 033**
Description	Viewing Provincial Summary of Contraceptive Performance Report (SPR-3)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the Provincial Summary of Contraceptive Performance Report (SPR-3)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Provincial Summary of Contraceptive Performance Report (SPR-3)
Stakeholder Interest	User wants to view the Provincial Summary of Contraceptive Performance Report (SPR-3)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-3 Report

	3. System displays SPR-3 Report **4.** User selects the time interval **5.** User selects the Province **6.** User presses GO **7.** System populates the following data in the following fields: **8.** This report displays the two portions **i.** Service Outlet wise a. Service Outlet: displays the Name of Service Outlet b. No. of Outlets: displays the Total number of service outlets in the province c. Product wise performance of each service outlet d. CYP: displays the couple year protection e. User: displays the users for the performance **ii.** District wise a. District: displays the district name b. No. of Outlets: displays the Total number of service outlets in the c. Product wise performance of each service outlet d. CYP: displays the couple year protection e. User: displays the users for the performance
Requirements	Reference to corresponding system requirements: 4.3.7.2.1
Notes/Issues	none

6.5.5.2.2 Viewing Outlet Wise CYP Performance Report

Use Case ID	**UC 034**
Description	Viewing Outlet Wise CYP Performance Report
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the Outlet Wise CYP Performance Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Outlet Wise CYP Performance Report
Stakeholder Interest	User wants to view the Outlet Wise CYP Performance Report
Main Success Scenario	**General** **1.** User logs in

	2. User clicks Outlet Wise CYP Performance Report **3.** System displays Outlet Wise CYP Performance Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Outlet: displays the service outlet name **b.** CYP: displays the CYP in current month and previous month **c.** Increase/Decrease: displays the CYP increased or decreased from the last month **d.** Percentage: displays the percentage of CYP increased or decreased in the current month
Requirements	Reference to corresponding system requirements: 4.3.7.2.2
Notes/Issues	none

6.5.5.2.3 Viewing District Wise CYP Performance Report

Use Case ID	**UC 035**
Description	Viewing District Wise CYP Performance Report
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Wise CYP Performance Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Wise CYP Performance Report
Stakeholder Interest	User wants to view the District Wise CYP Performance Report
Main Success Scenario	**General** **1.** User logs in **2.** User clicks District Wise CYP Performance Report **3.** System displays District Wise CYP Performance Report **4.** User selects the month **5.** User selects the year **6.** User selects the Province **7.** User presses GO

	8. System populates the following data in the following fields: **a.** District: displays the district name **b.** CYP: displays the CYP in current month and previous month **c.** Increase/Decrease: displays the CYP increased or decreased from the last month **d.** Percentage: displays the percentage of CYP increased or decreased in the current month
Requirements	Reference to corresponding system requirements: 4.3.7.2.3
Notes/Issues	none

6.5.5.3 District Reports

6.5.5.3.1 Viewing District Monthly Report of Family Planning Activities (SPR-8)

Use Case ID	**UC 036**
Description	Viewing District Monthly Report of Family Planning Activities (SPR-8)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Monthly Report of Family Planning Activities (SPR-8)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Monthly Report of Family Planning Activities (SPR-8)
Stakeholder Interest	User wants to view the District Monthly Report of Family Planning Activities (SPR-8)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-8 Report **3.** System displays SPR-8 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Name of Outlet: displays the Health facility name **b.** Product wise clients for each product

	c. Surgery cases: displays the Surgery cases in the health facility **d.** Mother care cases: displays the Mother and childcare data for each health facility
Requirements	Reference to corresponding system requirements: 4.3.7.3.1
Notes/Issues	none

6.5.5.3.2 Viewing District Monthly Contraceptive Performance Report (SPR-9)

Use Case ID	**UC 037**
Description	Viewing District Monthly Contraceptive Performance Report (SPR-9)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Monthly Contraceptive Performance Report (SPR-9)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Monthly Contraceptive Performance Report (SPR-9)
Stakeholder Interest	User wants to view the District Monthly Contraceptive Performance Report (SPR-9)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-9 Report **3.** System displays SPR-9 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Service Outlet: displays the Service Outlet Name **b.** No. of Outlet: displays the total number of the facilities of the type **c.** Product wise performance/consumption of each product **d.** Surgery cases: displays the Performed and referred Surgery cases
Requirements	Reference to corresponding system requirements: 4.3.7.3.2

Notes/Issues	none

6.5.5.3.3 District Contraceptive Performance (SPR-10)

Use Case ID	**UC 038**
Description	Viewing District Contraceptive Performance Report (SPR-10)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Contraceptive Performance Report (SPR-10)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Contraceptive Performance Report (SPR-10)
Stakeholder Interest	User wants to view the District Contraceptive Performance Report (SPR-10)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-10 Report **3.** System displays SPR-10 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Outlet: displays the Health Facility Name **b.** Product wise performance/consumption of each product **c.** Surgery cases: displays the Performed and referred Surgery cases **d.** CYP: displays the Couple Year Protection
Requirements	Reference to corresponding system requirements: 4.3.7.3.3
Notes/Issues	none

6.5.5.3.4 Project Wise Summary of Contraceptive Performance & CYP Report (SPR-11)

Use Case ID	**UC 039**
Description	Viewing Project Wise Summary of Contraceptive Performance & CYP Report (SPR-11)

Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the Project Wise Summary of Contraceptive Performance & CYP Report (SPR-11)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Project Wise Summary of Contraceptive Performance & CYP Report (SPR-11)
Stakeholder Interest	User wants to view the Project Wise Summary of Contraceptive Performance & CYP Report (SPR-11)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks SPR-11 Report **3.** System displays SPR-11 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Outlet Name: displays the Outlet name **b.** No. of Outlet: displays the total number of the facilities of the type **c.** Product wise performance/consumption of each product **d.** Surgery cases: displays the Performed Surgery cases **e.** CYP: displays the Couple Year Protection **f.** Users: displays the user for the performance reported
Requirements	Reference to corresponding system requirements: 4.3.7.3.4
Notes/Issues	none

6.5.5.3.5 District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)

Use Case ID	**UC 040**
Description	Viewing District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)
Level	User-level
Actors	PWD stakeholder Specific user

Goal	User can view the District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)
Stakeholder Interest	User wants to view the District Wise Provincial Contraceptive Stock and Sale Report (CLR-13)
Main Success Scenario	**General** **1.** User logs in **2.** User clicks CLR-13 Report **3.** System displays CLR-13 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Health Facility: displays the Health Facility name **b.** No. of Outlet: displays the total number of the facilities of the type **c.** Product wise Stock status(Opening Balance, Issued, Received, Closing Balance) of each product
Requirements	Reference to corresponding system requirements: 4.3.7.3.5
Notes/Issues	none

6.5.5.3.6 District Contraceptive Stock Report (CLR-15)

Use Case ID	**UC 041**
Description	Viewing District Contraceptive Stock Report (CLR-15)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Contraceptive Stock Report (CLR-15)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Contraceptive Stock Report (CLR-15)
Stakeholder Interest	User wants to view the District Contraceptive Stock Report (CLR-15)

Main Success Scenario	**General** **1.** User logs in **2.** User clicks CLR-15 Report **3.** System displays CLR-15 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **9.** This report displays the two portions **i.** District Store Data a. District Store: displays the District store stock status (Opening Balance, Issued, Received, Closing Balance) of each product b. Surgery Cases: displays the Performed Surgery cases **ii.** Field Store data a. Field: displays the stock status of each service outlet b. Surgery Cases: displays the Performed Surgery cases in the service outlet c. Field Data = SUM(All Service Outlets)
Requirements	Reference to corresponding system requirements: 4.3.7.3.6
Notes/Issues	none

6.5.5.3.7 Viewing District Monthly Report of Family Planning Activities (DPW-F1)

Use Case ID	**UC 042**
Description	Viewing District Monthly Report of Family Planning Activities (DPW-F1)
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the District Monthly Report of Family Planning Activities (DPW-F1)
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view District Monthly Report of Family Planning Activities (DPW-F1)
Stakeholder Interest	User wants to view the District Monthly Report of Family Planning Activities (DPW-F1)

Main Success Scenario	**General** **1.** User logs in **2.** User clicks DPW-F1 Report **3.** System displays DPW-F1 Report **4.** User selects the Time interval **5.** User selects the Province **6.** User selects the District **7.** User presses GO **8.** System populates the following data in the following fields: **a.** Health Facility: displays the Health Facility name **b.** Product type wise clients (New & Old) of each type **c.** Surgery Cases: displays the referred surgery cases **d.** MCH and General Patient: displays the Ante-natal, Post-natal, Mother and child care and number of general patients data
Requirements	Reference to corresponding system requirements: 4.3.7.3.7
Notes/Issues	none

6.5.5.3.8 Viewing Sale Proceeds of Contraceptives Report

Use Case ID	**UC 043**
Description	Viewing Sale Proceeds of Contraceptives Report
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the Sale Proceeds of Contraceptives Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Sale Proceeds of Contraceptives Report
Stakeholder Interest	User wants to view the Sale Proceeds of Contraceptives Report
Main Success Scenario	**General** **1.** User logs in **2.** User clicks Sale Proceed Report **3.** System displays Sale Proceed Report **4.** User selects the Month **5.** User selects the Year **6.** User presses GO

	7. System populates the following data in the following fields: **a.** Current Month: displays the Current Month sales **b.** Previous Month: displays the Previous Month sales **c.** Corr. Month of Last Year: displays the sales of the Correspondence Month of Last Year **d.** Current Month Over Previous Month %: displays the sales % increased or decreased of the current month over previous month **e.** Current Month Over Correspondence Month %: displays the sales % increased or decreased of the current month over Correspondence month of the last year
Requirements	Reference to corresponding system requirements: 4.3.7.3.8
Notes/Issues	none

6.5.5.3.9 Viewing Satellite Camps Report

Use Case ID	**UC 044**
Description	Viewing Satellite Camps Report
Level	User-level
Actors	PWD stakeholder Specific user
Goal	User can view the Satellite Camps Report
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	User can successfully view Satellite Camps Report
Stakeholder Interest	User wants to view the Satellite Camps Report
Main Success Scenario	**General** **1.** User logs in **2.** User clicks Satellite Camps Report **3.** System displays Satellite Camps Report **4.** User selects the Month **5.** User selects the Year **6.** User selects the Province **7.** User selects the District **8.** User selects the Satellite Camp **9.** User presses GO **10.** System populates the following data in the following fields:

	a. Camps Target: displays the Total targeted camps **b.** Camps Held: displays the total held camps **c.** Performance: displays the product wise performance / consumption of each product **d.** MCH Cases: displays the MCH Cases Attended **e.** Ailments: displays the No. of Patient Provided Medicines for Minor Ailments
Requirements	Reference to corresponding system requirements: 4.3.7.3.9
Notes/Issues	none

6.6 Viewing Graphs

6.6.1 Viewing Comparison Graphs

Use Case ID	**UC 045**
Description	Viewing comparison reports of selected indicators
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view graphs of the selected indicators
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the non-reported Districts report in LMIS.
Stakeholder Interest	User wants to view graphs of he selected indicators
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Comparison graphs under the Graphs tab. **3.** System displays Graph Report screen. **4.** User selects the Indicator. **5.** User selects the Compare option. System populates the following options: **Years (National, Provincial or District)**

	Stakeholder (National, Provincial or District) **Geographical (Provincial, District)** 6. User selects the Stakeholder. 7. User selects Product. 8. User selects the Time Interval. 9. User Selects the Years. 10. User selects Chart Type. 11. User presses Generate. 12. System populates the Graphical report comparison for the selected compare option.
Requirements	Reference to corresponding system requirements: 4.3.8
Notes/Issues	none

6.6.2 Viewing Simple Graphs

Use Case ID	**UC 046**
Description	Viewing graphical reports of selected indicators
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view graphs of the selected indicators
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view the non-reported Districts report in LMIS.
Stakeholder Interest	User wants to view graphs of he selected indicators
Main Success Scenario	**General** 1. User logs in. 2. User clicks Simple graphs under the Graphs tab. 3. System displays Graph Report screen. 4. User selects the Indicator. 5. User selects the Geographical option. System populates the following options: **National** **Provincial** **District**

	6. User selects the Stakeholder. **7.** User selects Product. **8.** User selects the Time Interval. **9.** User Selects the Years. **10.** User selects Chart Type. **11.** User presses Generate. **12.** System populates the Graphical report comparison for the selected compare option.
Requirements	Reference to corresponding system requirements: 4.3.8
Notes/Issues	none

6.7 Viewing Maps

6.7.1 Viewing Month of Stock Map

Use Case ID	**UC 047**
Description	Viewing Month of Stock Map
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view Month of Stock Map
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view Month of Stock Map in the LMIS
Stakeholder Interest	User wants to view Month of Stock Map
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Month of Stock under the Maps tab. **3.** System displays Month of Stock Map **4.** User Selects the Years. **5.** User Selects the Sector. **6.** User selects the Stakeholder.

	7. User Selects the Province. **8.** User selects Product. **9.** User selects level. **10.** User presses Go **11.** System populates the Map for the selected options
Requirements	Reference to corresponding system requirements: 4.3.9.1
Notes/Issues	none

6.7.2 Viewing Consumption Map

Use Case ID	**UC 048**
Description	Viewing Consumption Map
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view Consumption Map
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view Consumption in the LMIS
Stakeholder Interest	User wants to view the Consumption Map
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Consumption under the Maps tab. **3.** System displays Consumption Map **4.** User Selects the Years. **5.** User Selects the Sector. **6.** User selects the Stakeholder. **7.** User Selects the Province. **8.** User selects Product. **9.** User selects Type (Consumption or Avg. Consumption). **10.** User presses Go **11.** System populates the Map for the selected options
Requirements	Reference to corresponding system requirements:

	4.3.9.2
Notes/Issues	none

6.7.3 Viewing CYP Map

Use Case ID	**UC 049**
Description	Viewing CYP Map
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view CYP Map
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view CYP in the LMIS
Stakeholder Interest	User wants to view CYP Map
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks CYP under the Maps tab. **3.** System displays CYP Map **4.** User Selects the Date From. **5.** User Selects the Date To **6.** User selects the Sector **7.** User selects the Stakeholder. **8.** User Selects the Province. **9.** User selects Product. **10.** User presses Go **11.** System populates the Map for the selected options
Requirements	Reference to corresponding system requirements: 4.3.9.3
Notes/Issues	none

6.7.4 Viewing CYP by Population Map

Use Case ID	**UC 050**

Description	Viewing CYP by Population Map
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view CYP by Population Map
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view CYP by Population in the LMIS
Stakeholder Interest	User wants to view CYP by Population Map
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks CYP by Population under the Maps tab. **3.** System displays CYP by Population Map **4.** User Selects the Date From. **5.** User Selects the Date To **6.** User selects the Sector **7.** User selects the Stakeholder. **8.** User Selects the Province. **9.** User selects Product. **10.** User presses Go **11.** System populates the Map for the selected options
Requirements	Reference to corresponding system requirements: 4.3.9.4
Notes/Issues	none

6.7.5 Viewing CYP by Population Map

Use Case ID	**UC 051**
Description	Viewing Reporting Rate Map
Level	User-level
Actors	Data Entry Operators / Stakeholder Specific Users / Guest Users
Goal	User can view Reporting Rate Map

Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account.
Post-Conditions	User can successfully view Reporting Rate in the LMIS
Stakeholder Interest	User wants to view Reporting Rate Map
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Reporting Rate under the Maps tab. **3.** System displays Reporting Rate Map **4.** User Selects the Year **5.** User selects the Sector **6.** User selects the Stakeholder. **7.** User Selects the Province. **8.** User selects Product. **9.** User presses Go **10.** System populates the Map for the selected options
Requirements	Reference to corresponding system requirements: 4.3.9.5
Notes/Issues	none

6.8 Inventory Management (IM) Use Case

6.8.1 Stock Receive (Supplier)

Use Case ID	**UC 052**
Description	Receive stock from supplier
Level	User-level
Actors	National or Provincial Warehouse/Store Managers/Keepers.
Goal	User can receive stock from supplier in cLMIS.
Pre-Conditions	User must be logged into the system and have National or Provincial Store Operator's account.
Post-Conditions	User can successfully enter the received stock in cLMIS

Stakeholder Interest	User wants to enter received stock from suppliers.
Main Success Scenario	**Stock Receive (Supplier)** 1. User logs in. 2. User clicks **Stock Receive (Supplier)** tab. 3. System displays Stock Receive screen. 4. In **Receive No.** system generates a read-only Receive voucher number. 5. User enters **Receive Date**. 6. User enters **Receive Reference**. 7. User enters **Supplier/Funding source**. 8. User enters **Product**. 9. User enters **Manufacturer** 10. User enters the **Batch**. 11. User enters **Unit Price**. 12. User enters **Production Date**. 13. User enters **Expiry Date**. 14. User enters **Quantity** 15. User clicks **Save** to save the received entries in the system.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.1
Notes/Issues	None

6.8.2 Receive Stock (Warehouse)

Use Case ID	**UC 053**
Description	Receive stock from Warehouse/Store
Level	User-level
Actors	National, Provincial, District Operators
Goal	Receive stock issued by upper/lower level warehouse/store in cLMIS.
Pre-Conditions	User must be logged into the system and have National, Provincial, District Operator’s account.
Post-Conditions	User can successfully receive issued stock in cLMIS.

Stakeholder Interest	User wants to receive issued stock from warehouses/store.
Main Success Scenario	**Stock Received from Warehouse** 1. User logs in. 2. User clicks **Receive from Warehouse** tab. 3. System displays **Receive from Warehouse** screen. 4. User enters **Issue Number** and clicks **Search**. 5. System populated the received items in a table with following information: a. Product b. Batch c. Issued Quantity d. Adjust Quantity e. Adjustment Type f. Remarks 6. User selects the required list entry to add it to the received list. 7. User clicks **Save**. 8. System prompts successful saving of data.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.2
Notes/Issues	None

6.8.3 Stock Receive Search (History)

Use Case ID	**UC 054**
Description	Search received stock history.
Level	User-level
Actors	National, Provincial, Divisional, District or Tehsil users
Goal	User can search received stock using different criteria.
Pre-Conditions	User must be logged into the system and have National, Provincial, Divisional Store Operator’s account.
Post-Conditions	User can successfully search received stock by using different criteria.
Stakeholder Interest	User can successfully search received stock by using different criteria.
Main Success Scenario	**Stock Receive Search (History)**

	1. User logs in. 2. User Selects Stock Receive Search tab. 3. System displays Stock Receive Search page. 4. User will select different criteria and click search button all stock received with respect to selected criteria will be shown. 5. In case no data found system will display message no record found.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.3
Notes/Issues	None

6.8.4 Placement Locations

Use Case ID	**UC 055**
Description	User will be able to add locations/bins
Level	User-level
Actors	National, Provincial, Divisional, District or Tehsil users
Goal	User can add locations/bins in cLMIS.
Pre-Conditions	User must be logged into the system and have National, Provincial, Divisional Store Operator's account.
Post-Conditions	User can successfully add location/bin information in the system.
Stakeholder Interest	User wants to add/register locations/bins in the system.
Main Success Scenario	**Placement Locations** 1. User logs in. 2. User clicks Placement Locations tab. 3. System displays Manage locations/bins page. 4. In **Issue No.** field, system generates a read-only Issue number. 5. User selects the **Warehouse/Store area**. 6. User selects the **Row/Rack/Pallet/Level and Rack type**. 7. User clicks Save button. 8. Location/bin will be added/registered in the system.
Extensions	a.* At any time, browser crashes.

	1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.4
Notes/Issues	None

6.8.5 Location Status

Use Case ID	**UC 056**
Description	To view location status i.e. placed stock at any location.
Level	User-level
Actors	National, Provincial, Divisional, District or Tehsil users
Goal	User can view warehouse/store locations/bin status i.e. stock placed at any location.
Pre-Conditions	User must be logged into the system and have National, Provincial, Divisional Store Operator's account.
Post-Conditions	User can successfully view locations status.
Stakeholder Interest	User wants to view/see locations status i.e. placed stock at any location.
Main Success Scenario	**Location Status** 1. User logs in. 2. User selects Location Status tab. 3. System will display location status. 4. User can select area and level and will click show status. 5. System will display locations/bins against selected area and level. 6. User can select any location to view placed stock on that location.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.5
Notes/Issues	None

6.8.6 Batch Management

Use Case ID	UC 057
Description	Managing Product Batches
Level	User-level
Actors	National, Provincial, District Warehouse Operators
Goal	User can assign status to batches based on FEFO.
Pre-Conditions	User must have a National, Provincial, District Warehouse Operator account.
Post-Conditions	User can successfully assign status to batches based on FEFO.
Stakeholder Interest	User wants to manage the status of product batches.
Main Success Scenario	**Managing Batches** 1. User logs in. 2. User will click Batch management tab. 3. System will display Batch Management screen. 4. User will select the Product from the drop-down. 5. User clicks search button. 6. System will display batches list with selected status. 7. User can change Status from Running to Stacked or vice versa.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.6
Notes/Issues	none

6.8.7 Issue Stock to Other Stores

Use Case ID	UC 058
Description	User can issue stock to other stores
Level	User-level
Actors	National, Provincial, Divisional, District or Tehsil users
Goal	User issue selected products and batches to other stores.
Pre-Conditions	User must be logged into the system and have National, Provincial, Divisional Store Operator’s account.
Post-Conditions	User can successfully issue stock to other stores.
Stakeholder Interest	User wants to issue stock to other stores.
Main Success Scenario	**Stock Issue to Other Stores** 1. User logs in. 2. User selects the Stock Issue tab. 3. System displays Stock Issue screen. 4. In **Issue No.** system generates automatically Issue number. 5. In **Issue To**, user specifies the warehouse level where the product is to be issued. According to the selection, the following drop-downs are populated. 6. User selects the **Product**. 7. User selects the **Date of Issue**. 8. User enters **Issue Reference**. 9. User enters the **Batch**. 10. User enters **Issued Quantity**. 11. User clicks **Save**. 12. System prompts successful saving of data.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.7
Notes/Issues	none

6.8.8 Stock Issue against Requisition (CLR-6)

Use Case ID	UC 059
Description	User can issue stock base on requisition sent by down level district store.
Level	User-level
Actors	National, Provincial, Divisional, District or Tehsil users
Goal	User can issue stock against requested requisition by any district store.
Pre-Conditions	User must be logged into the system and have National, Provincial, Divisional Store Operator’s account.
Post-Conditions	User can successfully issue stock against selected requisition.
Stakeholder Interest	User wants to issue stock against selected requisition.
Main Success Scenario	**Stock Issue Against requisition** 1. User logs in. 2. User will click Requisition Request tab. 3. System displays Requisites page. 4. User can search requisitions requests based on different criteria. 5. Repulsions list will be displayed. 6. User can view and approve/unapproved requisition. 7. If requisition approved then user can issue stock according to the approved quantity. 8. User clicks Issue/Save button to issue and save stock against requisition. 9. System prompts for success/failure.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.8
Notes/Issues	none

6.8.9 Stock Issue Search (History)

Use Case ID	UC 060
Description	Search for Stock Issued
Level	User-level
Actors	National, Provincial, District Operators
Goal	User can view the stock issued in cLMIS for his assigned warehouses.
Pre-Conditions	User must be logged into the system and have National, Provincial, District Operator’s account.
Post-Conditions	User can successfully view the issued stock in cLMIS.
Stakeholder Interest	User wants to view stock issued to warehouses/stores.
Main Success Scenario	**View Stock Issued** 1. User logs in. 2. User clicks **Stock Issue Search** tab. 3. System displays Stock Issue screen. 4. User can selects one of the following criteria: a. **Issue No.** = to search for a record using this option, select Issue No. and then specify the issue no. b. **Issue Ref.** = to search for a record using this option, select Issue Ref. and then specify the issue ref. c. **Batch No.** = to search for a record using this option, select Batch No. and then specify the Batch No. 5. User selects the **Product**. 6. User selects **Warehouse/Store (Issued To)**. 7. User selects the **To** and **From** Date. 8. User clicks **Search**. 9. System displays searched issue data with the following fields: a. Date b. Issue No c. Issue To d. Ref No e. Product f. Batch No g. Quantity h. Unit

	i. Expiry Date 1. User clicks print. 2. System prints the issue voucher.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.9
Notes/Issues	None

6.8.10 Stock Picking

Use Case ID	**UC 061**
Description	User will be able to pick stock according to the issued vouchers
Level	User-level
Actors	National, Provincial, District user
Goal	Pick stock with respect to the issued voucher.
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully pick issued stock.
Stakeholder Interest	User wants pick issued stock.
Main Success Scenario	**Stock Picking** 1. User logs in. 2. User clicks **inventory management** tab. 3. User selects the **Stock Pick** Sub-menu 4. System displays stock picking screen. 5. User can search issued vouchers based on date range. 6. System displays issued voucher products list. 7. User can pick batches one by one.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.10
Notes/Issues	None

6.8.11 New Stock Adjustments

Use Case ID	**UC 062**
Description	Add new stock adjustments.
Level	User-level
Actors	National, Provincial, District user
Goal	Add stock adjustments to cLMIS.
Pre-Conditions	User must be logged into the system and have National, Provincial, District Store account.
Post-Conditions	User can successfully add stock adjustments in cLMIS
Stakeholder Interest	User wants to add adjustments.
Main Success Scenario	**Add Stock Adjustment** 1. User logs in. 2. User selects the **New Adjustments** tab. 3. System displays Adjustments screen. 4. User specifies **Adjustment Date**. 5. User specifies **Ref No**. 6. User specifies **Adjustment From**. 7. User specifies **Product**. 8. User specifies **Batch No**. 9. User specifies **Adjustment Type**. 10. User enters **Quantity**. 11. User enters **Comment**. 12. User clicks **Save**. 13. System prompts successful saving of data.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.11
Notes/Issues	None

6.8.12 Search Adjustments

Use Case ID	**UC 063**

Description	User can search stock adjustments history.
Level	User-level
Actors	National, Provincial, District user
Goal	Search stock adjustments.
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully search and view stock adjustments.
Stakeholder Interest	User wants to search and view stock adjustments.
Main Success Scenario	**Search Stock Adjustments** 1. User logs in. 2. User clicks **inventory management** tab. 3. User selects the **Search Adjustments** Sub-menu 4. System displays Adjustments screen 5. User can specify different criteria to search adjustments. 6. User specify **Adjustment No.** 7. User specify **Adjustment Type**. The following options are included in list: a. Theft b. Lost c. Expired d. Returned e. Lost Recovered 8. User enters Date Range in **From** and **To** fields. 9. User clicks Search. 10. System populates the adjustments with respect to the selected criteria.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.11
Notes/Issues	None

6.8.13 Bin Card

Use Case ID	**UC 064**
Description	User can view bin cards.

Level	User-level
Actors	National, Provincial, District user
Goal	User can view and print Bin card.
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully view and print bin card.
Stakeholder Interest	User wants view and print bin card.
Main Success Scenario	**Bin Card** 1. User logs in. 2. User clicks **inventory management** tab. 3. User selects the **Bin Card** Sub-menu 4. System displays Bin Card screen. 5. User can select area and row to view bin card. 6. User can click print to print bin card.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.12
Notes/Issues	None

6.8.14 New Gate Pass

Use Case ID	**UC 065**
Description	User can generate new gate pass.
Level	User-level
Actors	National, Provincial, District user
Goal	User can generate new gate pass with respect to the stock issued vouchers.
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully generate gate pass.
Stakeholder Interest	User wants to generate gate pass.

Main Success Scenario	**New Gate Pass** 1. User logs in. 2. User clicks **Gate Pass** tab. 3. User selects the **New Gate Pass** Sub-menu 4. System displays New Gate Pass screen 5. User can search different issued vouchers and can generate gate pass by specify product, batch and quantity. 6. User click save to add new gate pass.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.13
Notes/Issues	None

6.8.15 Search Gate Pass

Use Case ID	**UC 066**
Description	User can search gate pass history.
Level	User-level
Actors	National, Provincial, District user
Goal	Search gate pass history.
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully search gate pass history.
Stakeholder Interest	User wants to search gate pass history.
Main Success Scenario	**Search Gate Pass** 1. User logs in. 2. User clicks **Gate Pass** tab. 3. User selects the **View Gate Pass** Sub-menu 4. System displays gate pass screen. 5. User can select different criteria to search gate pass history. 6. User clicks Search button. 7. System will display gate pass list with respect to selected criteria.
Extensions	a.* At any time, browser crashes.

	1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.13
Notes/Issues	None

6.8.16 Summary Reports (Dashboard)

Use Case ID	**UC 067**
Description	User can view top priority inventory management summary reports as a dashboard view.
Level	User-level
Actors	National, Provincial, District user
Goal	User can view inventory management summary reports
Pre-Conditions	User must be logged into the system and have National, Provincial, District account.
Post-Conditions	User can successfully view inventory management summary reports.
Stakeholder Interest	User wants to view inventory management summary reports.
Main Success Scenario	**Summary Reports (Dashboard)** 1. User logs in. 2. User clicks **dashboard** tab. 3. System displays summary reports (dashboard) including 4. Distribution and SOH (Will display stock issuance and Stock On hand summary report). 5. Expiry Status (Will display batches expiry status). 6. Product Summary (Will display products summary) 7. Months of Stock (Will display months of the stock for selected product).
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over.
Requirements	Reference to corresponding system requirements: 4.5.14
Notes/Issues	None

6.9 Requisition and CLR6 Use Cases

6.9.1 New Requisition (CLR-6)

Use Case ID	**UC 068**
Description	New CLR-6
Level	User Level
Actors	District Store Operator
Goal	User will be able to submit requisition
Pre-Conditions	User must be logged into the system and have District Store Operator's account.
Post-Conditions	User can successfully send requisition of stock request
Stakeholder Interest	User wants to send requisition to Central or Provincial Stores.
Main Success Scenario	**New CLR-6** 1. User logs in. 2. User clicks **New CLR-6** tab. 3. System displays a criteria for requisition. 4. User selects an ending month for which the stock is requested. 5. User selects year and issuer. 6. User clicks **Create** 7. System generates CLR-6 8. User clicks **Save** 9. System prompts successful saving of data.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.6.1
Notes/Issues	None

6.9.2 View Requisition (CLR-6)

Use Case ID	**UC 069**

Description	View CLR-6
Level	User Level
Actors	District Store Operator
Goal	User will be able to view requisition
Pre-Conditions	User must be logged into the system and District Store Operator’s account.
Post-Conditions	User can successfully view its requisitions
Stakeholder Interest	User wants to view requisition sent to the Central and Provincial stores.
Main Success Scenario	**View CLR-6** 1. User logs in. 2. User clicks **View CLR-6** tab. 3. System displays list of requisitions sent to the central or Provincial Stores. 4. User clicks **View** to view a single requisition.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.6.2
Notes/Issues	None

6.9.3 Manage Requisition (CLR-6)

Use Case ID	**UC 070**
Description	Manage CLR-6
Level	User Level
Actors	Central , Provincial Store Operator
Goal	User will be able to view requisition
Pre-Conditions	User must be logged into the system and have Central/Provincial Store Operator’s account.
Post-Conditions	User can successfully view requisitions by the district store

Stakeholder Interest	User wants to view requisition from district Stores.
Main Success Scenario	**Manage CLR-6** 5. User logs in. 6. User clicks **Requisitions** tab. 7. System displays list of pending requisitions. 8. User clicks **details** to view a single requisition. 9. User clicks **Issue** to issue stock against a requisition 10. User clicks **History** to view all previous requisition requests by the district store
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over 7a: User presses OK without selecting Requisition to. 1: System prompts users to select Requisition to for generating report
Requirements	Reference to corresponding system requirements: 4.6.3
Notes/Issues	None

6.9.4 Issue Stock against Requisition

Use Case ID	**UC 071**
Description	Issue Stock against each CLR-6
Level	User Level
Actors	Central , Provincial Store Operator
Goal	User will be able to issue stock against each requisition
Pre-Conditions	User must be logged into the system and have Central/Provincial Store Operator's account.
Post-Conditions	User can successfully issue stock the district store
Stakeholder Interest	User wants to issue stock to the district Stores.
Main Success Scenario	**Issue Stock** 11. User logs in. 12. User clicks **Requisitions** tab. 13. System displays list of pending requisitions. 14. User clicks **Issue** to issue stock against a requisition

	15. System displays detailed requisition with quantity requested of each product. 16. User selects batch of each product from drop down. 17. User adds a quantity to be issued for each product. 18. System validates requested and issued quantity of each product. 19. User clicks save to issue stock. 20. System displays a success message after data is saved.
Extensions	a.* At any time, browser crashes. 1: User recovers browser and starts over
Requirements	Reference to corresponding system requirements: 4.5.8
Notes/Issues	None

6.10 Administrator Use Cases

6.10.1 Manage ACL

Use Case ID	**UC 072**
Description	Manage ACL
Level	Admin-level
Actors	Administrator
Goal	ACL is managed
Pre-Conditions	User must be logged into the system and have an administrator account
Post-Conditions	ACL is managed
Stakeholder Interest	User wants a to manage ACL
Main Success Scenario	**General** 1. User logs in. 2. User clicks Manage ACL tab. 3. System displays ACL screen. 4. User can add/Edit/Manage the Role 5. User can add/Edit/Manage the Resources

	6. User can assign/unassigned Resources to Roles
Requirements	Reference to corresponding system requirements: 4.8.1
Notes/Issues	none

6.10.2 Create Users

Use Case ID	**UC 073**
Description	Create stakeholder specific users.
Level	Admin-level
Actors	Administrator
Goal	New user are created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the user.
Post-Conditions	User account is created.
Stakeholder Interest	User wants a new user account
Main Success Scenario	**General** **7.** User logs in. **8.** User clicks users tab. **9.** System displays User screen. **10.** User selects the Indicator. **11.** User selects the Geographical option. System populates the following options: **National** **Provincial** **District** **12.** User selects the Stakeholder. **13.** User selects Product. **14.** User selects the Time Interval. **15.** User Selects the Years. **16.** User selects Chart Type. **17.** User presses Generate. **18.** System populates the Graphical report comparison for the selected compare option.

Requirements	Reference to corresponding system requirements: 4.8.2
Notes/Issues	none

6.10.3 Creating Warehouses

Use Case ID	**UC 074**
Description	Create warehouses.
Level	Admin-level
Actors	Administrator
Goal	New warehouses are created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the WH.
Post-Conditions	Warehouse is created.
Stakeholder Interest	User wants to create a new WH
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Warehouses tab. **3.** System displays WH screen. **4.** User selects Stakeholder name. **5.** System populates the Office types **6.** User selects Office type. **7.** User selects Province. **8.** System populates district **9.** User selects District **10.** User specifies warehouse name **11.** User clicks Add
Requirements	Reference to corresponding system requirements: 4.8.3
Notes/Issues	none

6.10.4 Creating Locations

Use Case ID	UC 075
Description	Create locations.
Level	Admin-level
Actors	Administrator
Goal	New locations are created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the location.
Post-Conditions	Locations is created.
Stakeholder Interest	User wants to create a new location
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks locations tab. **3.** System displays locations screen. **4.** User selects location level **5.** User selects location type. **6.** User selects Province. **7.** System populates district **8.** User specifies location name **9.** User clicks Add
Requirements	Reference to corresponding system requirements: 4.8.4
Notes/Issues	none

6.10.5 Creating Stakeholders

Use Case ID	UC 076
Description	Create Stakeholders.
Level	Admin-level
Actors	Administrator
Goal	New Stakeholders are created

Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the Stakeholder.
Post-Conditions	Stakeholder is created.
Stakeholder Interest	User wants to create a new Stakeholder
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stakeholder tab, Manage Stakeholder. **3.** System displays Stakeholder screen. **4.** User enters Stakeholder name. **5.** User enters Jurisdiction. **6.** User selects location type. **7.** User clicks Add
Requirements	Reference to corresponding system requirements: 4.8.5
Notes/Issues	none

6.10.6 Creating Stakeholders Offices

Use Case ID	**UC 077**
Description	Create Stakeholder Office.
Level	Admin-level
Actors	Administrator
Goal	New Stakeholders Office is created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the Stakeholder Office.
Post-Conditions	Stakeholder Office is created.
Stakeholder Interest	User wants to create a new Stakeholder Office
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Stakeholder tab, Stakeholder Office. **3.** System displays Stakeholder Office screen. **4.** User enters Office Type.

	5. User selects Stakeholder. **6.** User enters Level. **7.** User enters Parent Office. **8.** User clicks Add
Requirements	Reference to corresponding system requirements: 4.8.6
Notes/Issues	none

6.10.7 Managing Products

Use Case ID	**UC 078**
Description	Create Product.
Level	Admin-level
Actors	Administrator
Goal	New Product is created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the Product.
Post-Conditions	Product ice is created.
Stakeholder Interest	User wants to create a new Product
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Product tab, Manage Product. **3.** System displays Product screen. **4.** User enters Product name. **5.** User selects unit of measure. **6.** User selects category. **7.** User selects status. **8.** User enters description **9.** User enters Index. **10.** User enters Stakeholders. **11.** User selects product group. **12.** User clicks Add
Requirements	Reference to corresponding system requirements: 4.8.8

Notes/Issues	none

6.10.8 Managing MOS Scale

Use Case ID	**UC 079**
Description	Create MOS Scale.
Level	Admin-level
Actors	Administrator
Goal	New MOS Scale is created
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account or guest account. User must have the related information to be filled for creating the MOS Scale.
Post-Conditions	MOS Scale ice is created.
Stakeholder Interest	User wants to create a new MOS Scale
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Product tab, MOS Scale. **3.** System displays Product screen. **4.** User enters Product name. **5.** User enters Scale End. **6.** User enters description. **7.** User enters color code. **8.** User enters stakeholder **9.** User enters distribution level.
Requirements	Reference to corresponding system requirements: 4.8.10
Notes/Issues	none

6.10.9 Unlock Data Entry

Use Case ID	**UC 080**
Description	Unlock Data entry

Level	Admin-level
Actors	Administrator
Goal	Data Entry option is Un-locked
Pre-Conditions	User must be logged into the system and have a Stakeholder specific account
Post-Conditions	Data Entry option is Un-locked
Stakeholder Interest	User wants to un-lock Data Entry option
Main Success Scenario	**General** **1.** User logs in. **2.** User clicks Unlock Data Entry **3.** System displays Unlock Data Entry **4.** All stores for which data entry is locked will be displayed on the screen. User selects the stores for which he wants to unlock the data entry
Requirements	Reference to corresponding system requirements: 4.8.14
Notes/Issues	none

Non Functional Requirements

7. Nonfunctional Requirements

7.1 Technical Requirements

- Will run on Linux servers at Government of Pakistan data center.
- Database keys will be identifiers and semantic-free (e.g. no item name or item codes used as primary keys or foreign key values).
- There is not a requirement to use any of the technology tools that are currently used to implement LMIS
- Target browsers (confirmed with TL)

  Internet Explorer 7+

  FireFox 3+

  Chrome

  Mobile browsers need not be supported
- Implementation must not rely on cutting-edge browser capabilities – e.g. built-in SQLLite storage capabilities (somewhat older browsers need to be supported too)
- Use of JavaScript is OK but in standard web pages, lack of javaScript support must be detected and handled (e.g. with a page that explains it is required)
- As much as is possible, for end user experiences, preserve a web/browser UI for a consistent look-and-feel so data entry is seamless with other areas of the application (whatever that happens to become).
- When data is managed – whether online or offline - it should be persisted across browser sessions and across browsers
- Plain text is sufficient for text input.

7.2 System Initialization

Data from the existing districts should be “Key in” or “imported where present in excel, using scripts, or whatever process is feasible. The set of data that can be imported includes (but is not necessarily limited to):

Stakeholder

District Name

District / Field

Product

Month

Year

Opening balance

Receive

Issue

Closing Balance

7.3 Performance Requirements

- System should support 10 concurrent users with fare Quality of Service.

  Note: Government of Pakistan needs more resources internet for bandwidth and more concurrent servers with load balancers, if we increase the users. As users' needs to input data after month and so more user can wait if server is busy. SO it is proposed that only 10 users will get fast loading experience.

- Web page should load in under 5 seconds.

  Note: exceptions here would be cases such a reporting (e.g. by LMIS Administrator or by Data Reviewers) where many countries are being reported across many periods. The response and HTML page rendering in such cases might take up to 15-30 seconds, which would be acceptable. The same goes for generating long PDF reports or Excel files.

- Level of System Availability

  System will be available according to standard JSI availability; system will be available 24x7 except for routine maintenance and upgrades of software and hardware. Support will exist during normal business hours (Pakistan Standard Time).

7.4 Security Requirements

- Each user must have a unique user name (assigned by the LMIS Administrator) as well as a unique email address.

  In cases where a user forgets their password, they are asked for their email. Therefore, it is important that email addresses are unique.

- Username will be defined with two parts StakeholderShortName_DistrictName
- All users will use passwords to login to the system …
- at least 8 characters and no more than 16.
- Passwords must be encrypted in the database using one of the strong 2-way encryption schemes supported by JSI …
- Information accessed must be restricted according to user type

7.5 General Characteristics

- Be described in terms of all necessary hardware, software, and networking components for implementation over the life of the LMIS including data collection devices into the future and at all levels (i.e. servers to cell phones)
- It will use industry standard user interface practices and apply them in a consistent manner throughout the system (including fonts, date formats, ect..)
- It will provide access to robust help functionality including resident content specific help menus as well as expanded internet accessible help menus (like Microsoft has).
- Allow printing of forms, tables, data fields, screen shots
- Provide access to technical support for the application functions and technical system performance and management and (unless vendor has 24x7 help desk availability) indicate at a minimum the help desk must be accessible during normal business hours LOCAL time.
- Provide training and system access for internal technical support (such as super user training).

7.6 Management

- Document the software development life cycle (SDLC) including bug and issue tracking and resolution (on vendor/developer side)
- Provide software updates and schedule of future releases and lists of new, changed, and dropped features
- Provide a unique version number for each revision
- Enable the system to detect and warn of incompatible versions of software running on different components

7.7 Safety Requirements

Unexpected loss of data on the server should be planned for by scheduling backups of the database and software files.

7.8 Software Quality Attributes

LMIS will be flexible to meet the needs of different behavior of individual users. Each page should be described in detail in the help page and linked from each part of the user interface pages. There will be error reports when a problem is encountered during use. The software code should be well commented and maintainable.