Jimma University



Jimma Medical Ceneter(JMC)

Software Manual Documentation

Integrated HCI System

Mr. Seid Mohammed

seidm9815@gmail.com

0917638874/0985192541

JMC-ICT

Table of Contents

1.	System Title: Integrated HCI System	4
2.	Accessing Integrated HCI	
2.	System Home Page	
3.	New Patient Registration module	6
4.	Batch upload and View all Patients	7
5.	Search module	8
5	5.1 Unsuccessful search result	8
5	5.2 Successful search Result	8
6.	User account Management	10
7.	System Statistics	12
8.	Communication module	
9.	Profile Management	14
10.	Report Generation	15
11 I	Registration new User, Region, Zone, Woreda and Kebele	17
11.	Language configuration	18
1	12.1 Adding new Language	20
12.	Database Backup and Restore	20

Major Function Integrated HCI Application

- 1. Patient Registration with:
 - Credit service
 - CBHI patients
 - Health care finance
- 2. Search service for patient using patient medical record number or using personal ID or mobile number.
- 3. User account management and monitoring module
- 4. System statistics
- 5. System configuration and parameter setting
- 6. Communication module using text message with any registered users
- 7. Profile management
- 8. Report Generation
 - A. Monthly reports
 - B. Quarterly reports
 - C. Personal treatment reports
- 9. Notice board
- 10. Registration of new:
 - A. Regions
 - B. Zones
 - C. Woreda
 - D. Kebele
- 11. Language configuration English and Amharic
- 12. Database backup and Restore
- 13. All finance information
- 14. Patient Batch upload with huge Excel file

1. System Title: Integrated HCI System

Integrated HCI System stands for Health care finance, Credit service and Community based health Insurance together that focus on payment request report monthly and quarterly, quick search patient profile, collection service charge.

2. Accessing Integrated HCI

HCH is a web application that can be access using any browser such as Google chrome, Firefox, IE, Sefari, Opera and others



- 1.1 Login page: user can accessing the system using
 - A. Username or Email
 - B. Password

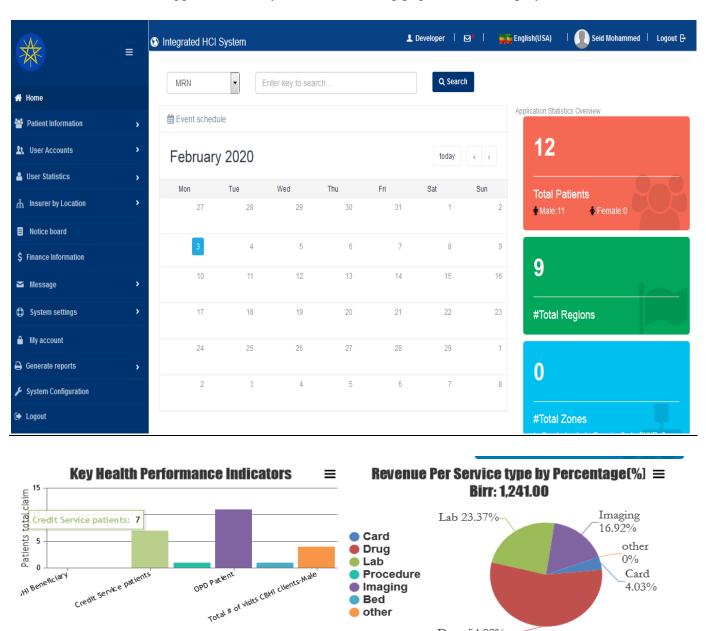


2. System Home Page

■ Key Performance Indicators

Trial Version

After the user has been logged in to the system the following page will web displayed.

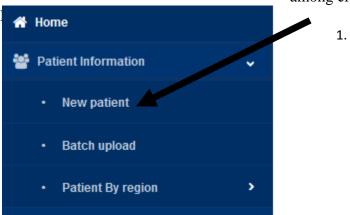


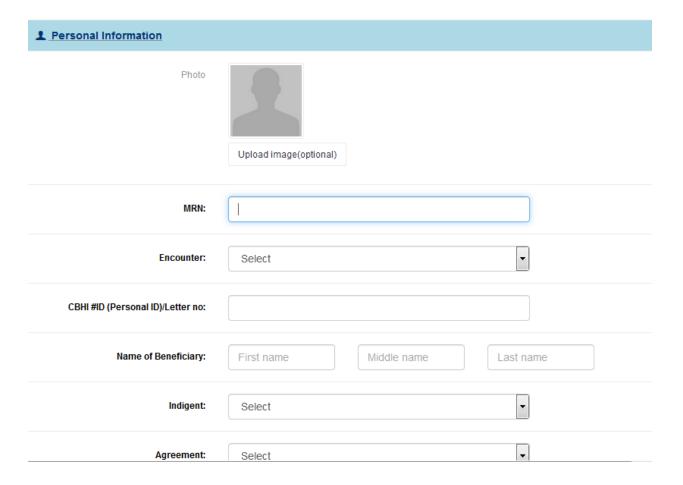
nvasJS.com Trial Version

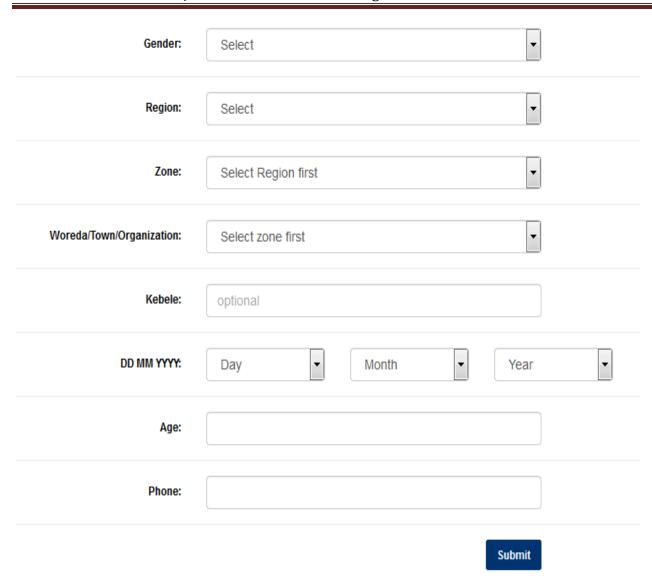
Drug 54.88%-

3. New Patient Registration module

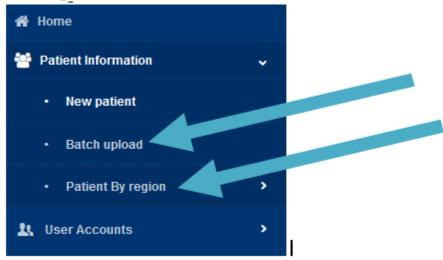
In order to register to new patient click '' new patient' link then registration page will be displayed. among credit service ,CBHI and Health care finance.







4. Batch upload and View all Patients

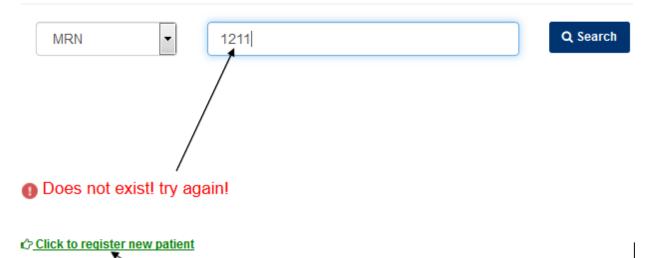


5. Search module

The user can search already registered patient all credit patient, health care finance using phone number, medical record number(MRN) or CBHI #ID of search bar below:



5.1 Unsuccessful search result

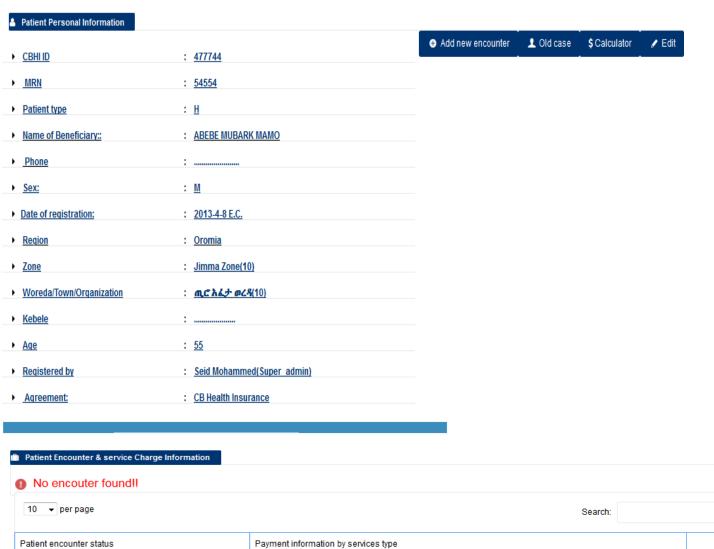


If with a given MRN number does not exist, then register as new patient with the above link.

5.2 Successful search Result

After filling required information among phone, CBHI #ID or patient Medical record(MRN). If entered unique ID match with the database, the system display patient profile as follow:





Under this patient profile, the user can do the following transaction based on the privileges.

Lab

00.0

Imaging

0.00

Procedure

0.00

Drug

0.00

Bed

0.00

other

0.00

#Total

Birr <u>0.00</u>

Remark

Options

i. Create new encounter

MRN CBHI Code

- ii. Add service payment
- iii. Calculate total service cost

Date: Encounter

Diagnosis

#Subtotal_amount(in ETB): 0.00

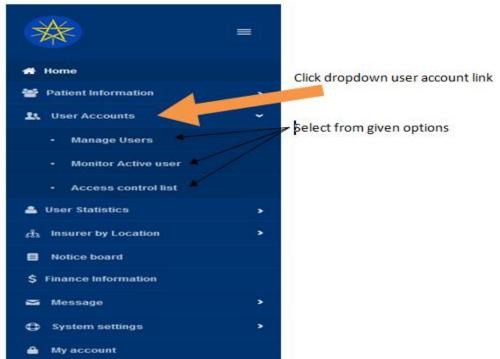
Card

- iv. Edit patient profile and encounter
- v. View treatment and encounter history.

6. User account Management

User account management module prepared for system administration purpose in the following cases:

- i. Creating user account
- ii. User activity monitoring
- iii. Password resetting
- iv. Checking access control(User IP address, browser and login trials)



click under "Action"

Userid	∧Full Name	Registered on	Active	Email	Phone	Account type	Registered by	Options
1213	Seid Mohammed	Sunday, October 27, 2019	yes	ims@ju.edu.et	0917638874	Super_admin	1213	1 Root user
1214	Abdilbasit Mohammed	Monday, January 20, 2020	yes	abdiibnumohammed@gmail.com	0917140010	Admin	1213	i≡ Action →
1215	Abdusemod Ababiya	Monday, January 20, 2020	yes	abdusemod@ju.edu.et	0917548785	Admin	1213	≡ Action ▼
1218	Eliyas Diriba	Monday, January 20, 2020	yes	eliyas@ju.edu.et	0919352512	Admin	1200	≡ Action ▼
1219	Tsegawu Takele	Friday, January 24, 2020	yes	tsegawu@ju.edu.et	0901841121	Admin	1213	≡ Action →
1245	Habtamu Mamo	Saturday, February 01, 2020	yes	habtamu@ju.edu.et		User	1213	≡ Action ▼
2020	Hamza Seid	Saturday, February 01, 2020	yes	hamza@ju.edu.et		User	1213	≡ Action ▼
2352	Alemayehu Mamo	Saturday, February 01, 2020	yes	alemayehu@ju.edu.et		Head	1213	≡ Action →

Jimma medical center - Integrated HCI Software Manual

Active	Email	Phone	Account type	Registered by	Options		
yes	ims@ju.edu.et	0917638874	Super_admin	1213	♣ Root user		
yes	abdiibnumohammed@gmail.com	0917140010	Admin	1213	I Action ▼		
yes	abdusemod@ju.edu.et	0917548785	Admin	1213	I≡ Action -		
yes	eliyas@ju.edu.et	0919352512	Admin	1: Profile			
yes	tsegawu@ju.edu.et	0901841121	Admin	1:			
yes	habtamu@ju.edu.et		User	1:			
yes	hamza@ju.edu.et		User	1:			
yes	alemayehu@ju.edu.et		Head	1213	I≣ Action ▼		

Under User management tools at the right side of user table, there list above action profile, Re-initialized password, Edit, Disable and move to trash or delete. Those action always carried out by system administrator or super administrator.

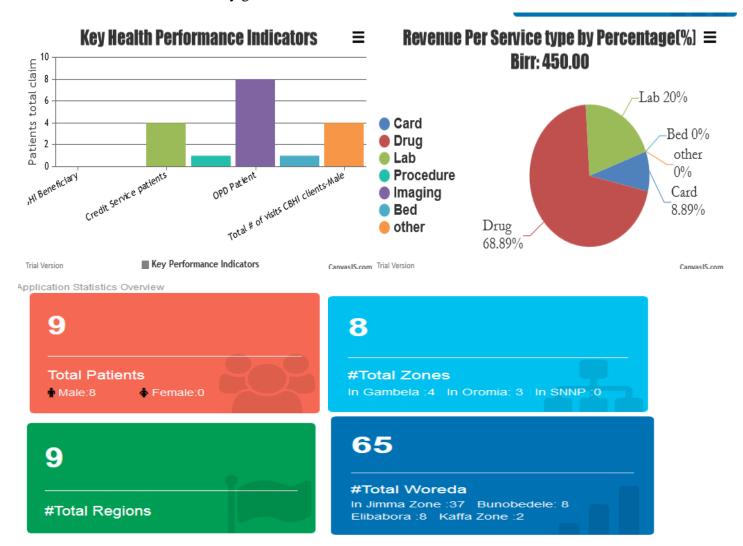
- A. **Profile:** this action enable system administrator to view user more details which are registered by admin.
- B. **Re-initialized password**: When the user forgot their password, the system administrator will re-initialize to default password "jimma" the

- user able to login into the system that will be change password based on user need.
- C. Edit: this action also used to update user profile while it is necessary to change already filled as new.
- D. Delete: This a strong admin tool can be done only by super admin when it is necessary to move trash while employee or user leave the hospital.

7. System Statistics

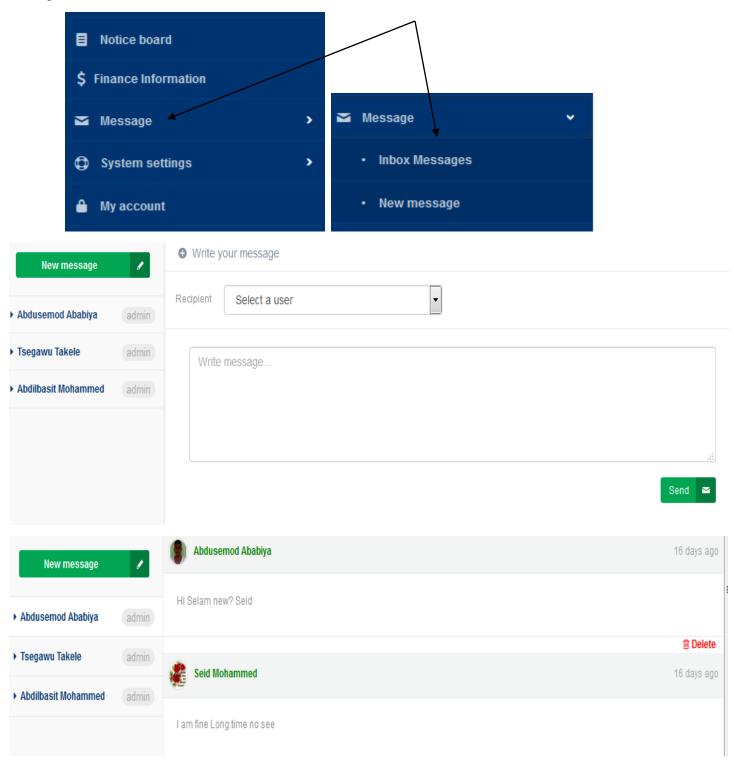
The system information module which found mostly on dashboard the includes

- i. Numerical Patient classification by gender
- ii. Number of Regions, zone, districts and kebeles with graph
- iii. Contracted woreda and organization with respective zones indication.
- iv. Total hospital revenue from community based health insurance, health care finance and credit service.
- v. Provide percentage information by service type from Card, Laboratory, drug, procedure, imaging, bed and others using pie chart.
- vi. Key health performance indictor using bar graph for the following factors;
 - CBHI beneficiary
 - Credit service patients
 - Health care fiancé users
 - OPD visitors
 - IPD admissions
 - CBHI By gender # female and #Male



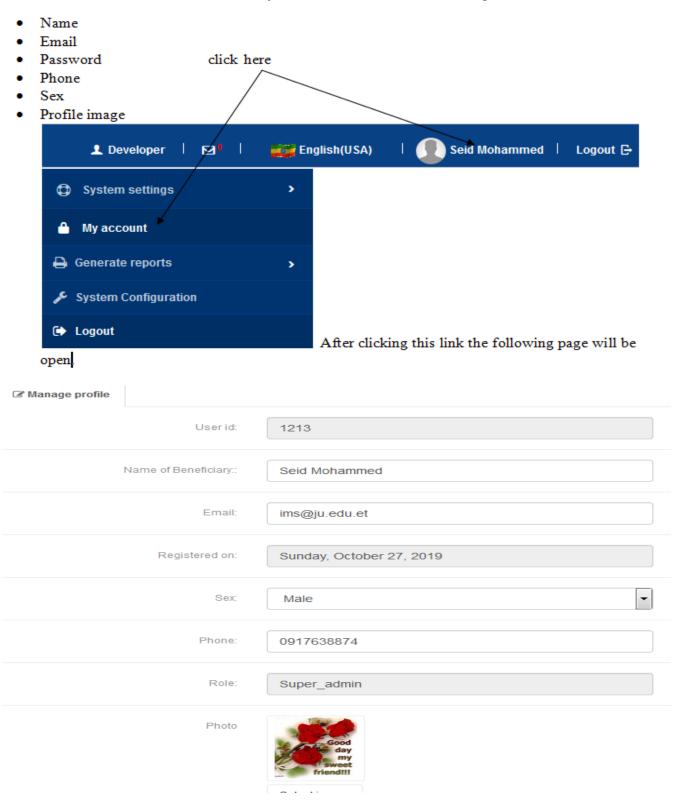
8. Communication Module

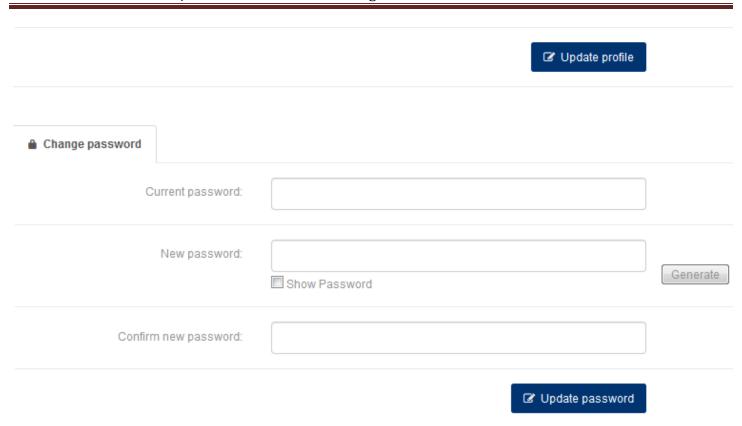
This sub system enable to any user to send private text message to any registered user on the system. It has message threads which allow users to communicate each other.



9. Profile Management

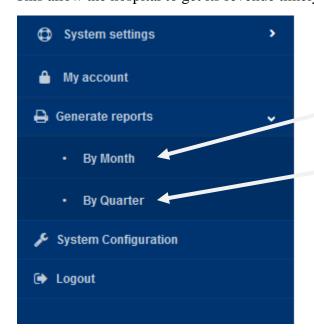
This module enable user to modify their own user account including



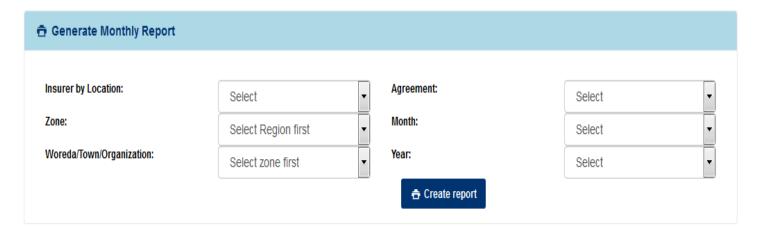


10. Report Generation

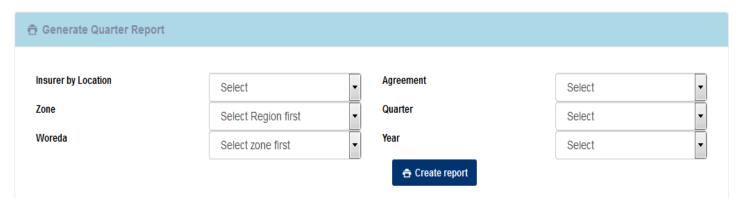
This sub system is very important part of the system that is solve server problems of manual or paper work related to finance. The report can monthly or quarterly report that request payment to districts or organization. This allow the hospital to get its revenue timely with any error made as paper report.



When clicking By Month the following page will be displayed

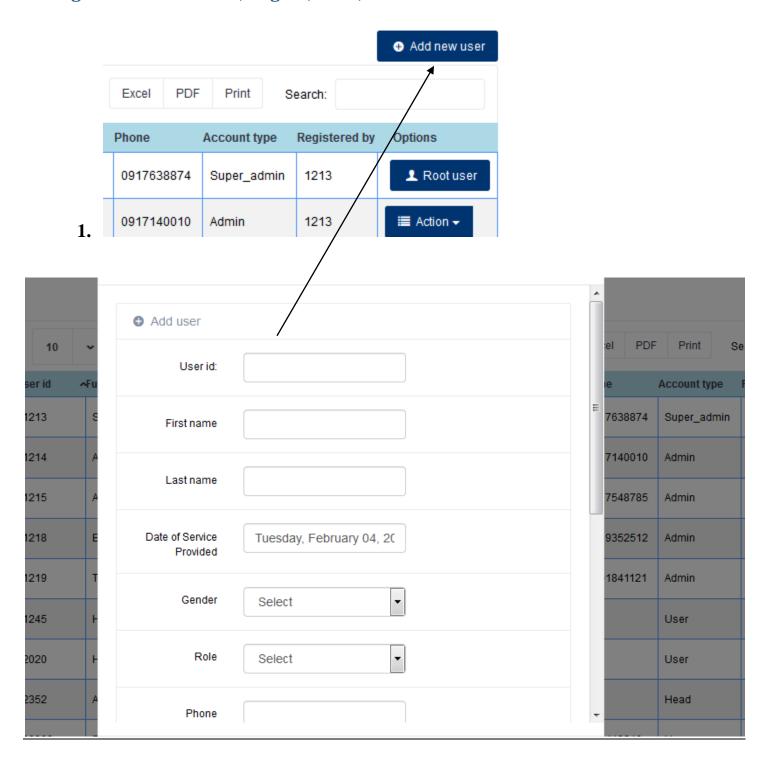


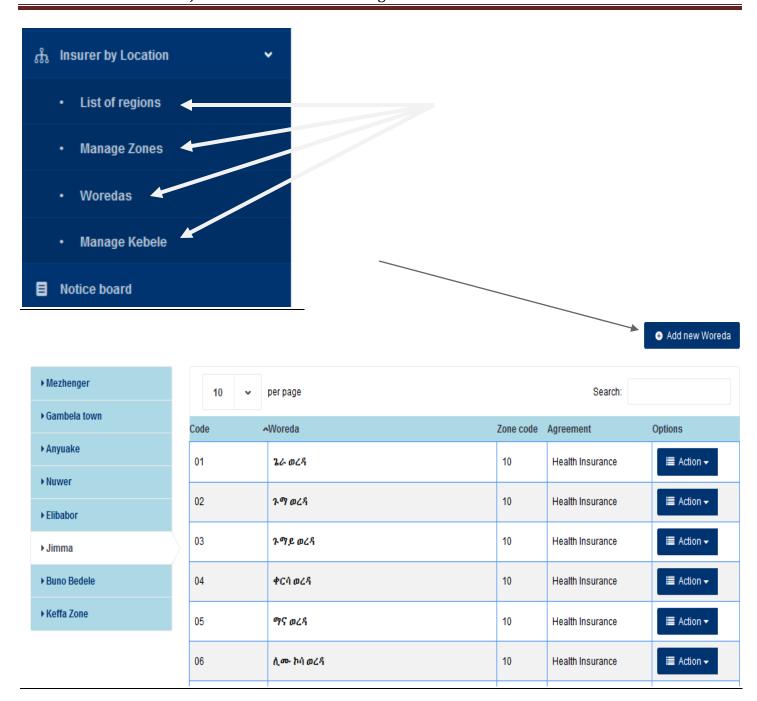
- i. <u>Insurer by location-</u> You have to select patient region fields. There are all Ethiopian regional states available in selection option.
- ii. **Zone** This selection option depends upon previous selection input above
- iii. <u>Districts or Orginzation</u>- Base on the selection above zone, there will be displayed different woreds and organizations to be selected that indicate patient address.
- iv. **Agreement:** this selection can be only three alternatives community based health insurance, credit service and health care finance. Based on patient type the user must be select from given options.
- v. **Month:** this is also the month of report from September up to August from given year.
- vi. Year: The user must select year of report.



- i. <u>Insurer by location-</u> You have to select patient region fields. There are all Ethiopian regional states available in selection option.
- ii. **Zone -** This selection option depends upon previous selection input above
- iii. <u>Districts or Orginzation</u>- Base on the selection above zone, there will be displayed different woreds and organizations to be selected that indicate patient address.
- iv. **Agreement:** this selection can be only three alternatives community based health insurance, credit service and health care finance. Based on patient type the user must be select from given options.
- v. Quarter: this is also the quarter of report from consecutive three months started from September
- vi. Year: The user must select year of report.

11 Registration new User, Region, Zone, Woreda and Kebele



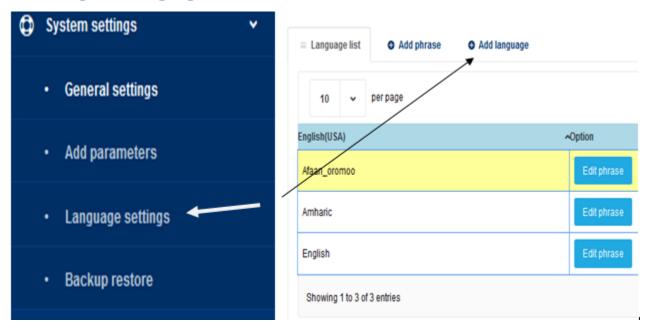


11. Language configuration

Currently integrated HCI System contains two alternative languages namely English (USA) and Amharic official language of Ethiopia. Another language will be added upon request. So the users work on the system using their understandable system language. So Afaan oromo language will we added in next 2.1 version.



12.1 Adding new Language



12. Database Backup and Restore

