



IMNCI - 2017 Edition

MoH Kenya

3+

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INSTALL



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IMNCI Content Management System | IMNCI Mobile Application

Table of Contents

Introduction	1
Definitions and Acronyms.....	1
Content Management System	2
Client Requirements	2
Server Requirements	2
General Functioning.....	2
Mobile Application.....	3
Client Requirements	3
Server Requirements	3
Hosting on Google Play Store	4
General Functioning.....	5

Introduction

The IMNCI web and mobile (android) applications were developed in reference to the 2017 Edition of the IMNCI guidelines for the management of childhood illnesses.

The web based application serves as the content management platform that allows the manipulation of the data that feeds the mobile application.

Definitions and Acronyms

Definitions

Keyword	Definitions
Restful API	An application program interface (API) that uses HTTP requests to GET, PUT, POST and DELETE data.
Thread	The smallest sequence of programmed instructions that can be managed independently by a scheduler.

Acronyms

Acronym	Definitions
IMNCI	Integrated Management of Newborn and Childhood Illnesses
UIL	User Interface Layer
DAL	Data Access Layer
BOL	Business Object Layer
API	Application Programming Interface
IDE	Integrated Development Environment
CRUD	Create Read Update Delete
DML	Data Manipulation Language
DDL	Data Definition Language
SDK	Software Development Kit

Content Management System

Client Requirements

A web browser (Google Chrome, Firefox, Safari, IE) will be required for the web application to launch on the client-side.

Server Requirements

The back end requirements that support the development of the web app are detailed as below;

- Ubuntu 16.04 LTS (GNU/Linux 4.4.0)
- Nginx 1.10
- PHP 7.0
- MySQL 5.7
- Git 2.7.4
- Composer 1.0.0-beta2 (Depends on PHP CLI)
- Supervisor
- Laravel Framework 5.5.35

The tools should be installed on the sever in the order as listed.

Note:



Clear instructions can be found in the following URL on how to install Laravel on Ubuntu:

<https://www.digitalocean.com/community/tutorials/how-to-deploy-a-laravel-application-with-nginx-on-ubuntu-16-04>

General Functioning

Note:



Detailed information can be found on the **User Manual**.

The data stored in the database is also accessible through Restful APIs.

The web application is accessible publicly via the URL www.imci.nascop.org. To log in, the username android.chai.kenya@gmail.com and password **123456** may be used.

The following functionalities will be availed after logging into the system;

- **Quick Menu**

The quick menu, to the left side of the screen, provides links that access the various sections of the system of which CRUD actions may be performed.

Quick Menu Links	
❖ Dashboard	❖ HIV Care for Children
❖ Assess, Classify & Identify Treatment	❖ Gallery
❖ Treat the Young Infant/Child	❖ Glossary
❖ Follow Up Care	❖ User Profiles
❖ Counsel the Mother	❖ Reported Issues
	❖ Log Out

- **Content Screen**

Section Information will be displayed to the right side of the screen for CRUD actions.

Mobile Application

Client Requirements

The client would require an Android (Version 4.0 onwards) operated mobile phone to launch the app.

Server Requirements

The mobile development environment will require the following;

- ❖ Android studio 3.x
- ❖ Java Development Kit
- ❖ Android SDK
- ❖ SQLite

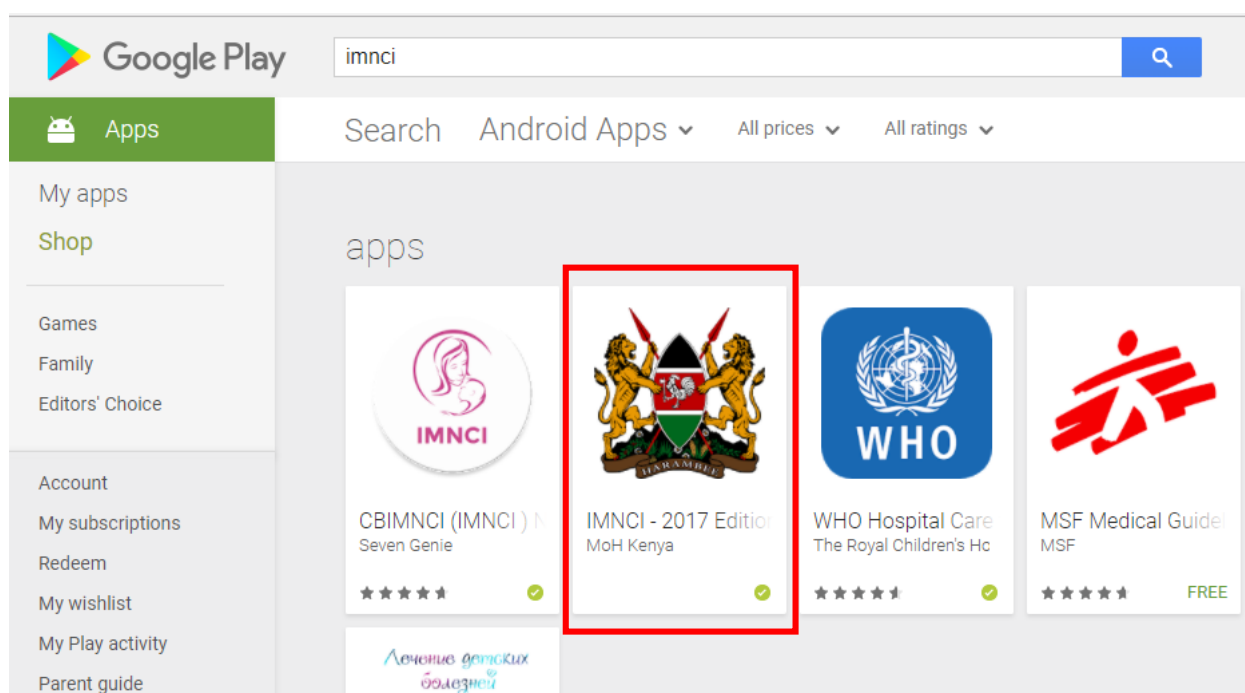
Note: A full list of requirements for the above can be found in the following URL:



<https://www.javaworld.com/article/3095406/android/android-studio-for-beginners-part-1-installation-and-setup.html>

Hosting on Google Play Store

The 2017 Edition IMNCI mobile application can be found on Google Play Store.



The app listing details is as follows;

Developer a/c	android.chai.kenya@gmail.com
Title	IMNCI - 2017 Edition
Short Descr.	MoH Kenya
Full Descr.	This application which is based on the IMNCI Guidelines - 2017 Edition is aimed at strengthening the management of neonatal & childhood illnesses by equipping health care workers with information that is easily accessible & friendly to use from their mobile phones.
Categorization	
App. Type	Applications
Category	Education
C. Rating	IARC Certification

	All Ages, Everyone, PEGI3, USK: All Ages, Rated for 3+
Website	http://www.health.go.ke/
Email	mobileimci@googlegroups.com
Release 2.1	<en-GB>
Notes	<ul style="list-style-type: none"> - Updated IMNCI Guidelines: Example see Pneumonia Management, What happens if Referral is not Possible, etc - Gallery: A rich media library of case management videos, illustrations, job aids, tools and more - Report an Issue: Escalate issues around app content, stability & performance from within the app - Tell a Friend: Let your friends and colleagues know about the app from the click of a button - Check for Updates: Real time content update </en-GB>

General Functioning

Following successful installation of the mobile app onto the mobile phone, mobile application does the following;

- ❖ *Updated IMNCI Guidelines*: Access to the guidelines on Integrated Management of Childhood Illnesses.
- ❖ *User Profiling*: Collection of basic user information.
- ❖ *Automated content update*: Real time content update mechanism.
- ❖ *Gallery*: A media library of videos, illustrations, job aids and tools for download.
- ❖ *“Tell a Friend”*: Mass messaging through various social networks, email and text messaging.
- ❖ *Report an Issue*: Interactive forum for users to escalate issues experienced around app content, stability & performance.