

Ghana India Kofi Annan Centre Of Excellence in ICT

A developers perspective on the development of
Open Educational Resources and the Centre's
Experiences

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Open School Management System

The software development team at the centre is currently developing an Open School Management System for use in all basic schools in Ghana.

This project is a result of the West African Developer Road Show held this year in Ghana at the University of Education, Winniba.

Open School Management System

Goals of the system:

- It must work within a Ghanaian school context
 - Simple to deploy
 - Simple to use and administer
 - Cross platform (Windows, Linux, Unix)
Qt (C++) and Postgres SQL
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Open School Management System

Key Challenges:

Low level of expertise in open source tools such as Qt (C++) and Postgres SQL.

High cost of internet access stifles collaboration and contributions from potential developers

I2CAP – I 2 Can Program

AITI-KACE organises yearly programming competition for second cycle institutions in Ghana

The aim of the competition is to encourage the programming at the earlier stages in the academic cycle particularly at the secondary school level.

I2CAP – I 2 Can Program

Use of Ruby Programming Language.

I2CAP website that teaches basic programming concepts

Observed Benefits:

Interest in programming at second cycle institutions is on the rise.

Discovery and nurturing of talented students to become professional developers

I2CAP – I 2 Can Program

Challenges:

Non existent internet infrastructure in the secondary schools makes it impossible for students to have ready access relevant contents.

Limited access to computers.

Potential Solutions:

- **Javlin**
 - **Government of Ghana – Intel IAdvance Computers**
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Linux User Groups

AITI-KACE actively supports the set-up and development of Linux user groups in universities and communities across Ghana.

We have a full time open source developer who coordinates the activities of these group.

School Of Nuclear Science (Atomic Agency)

AITI-KACE is collaborating with the School of Nuclear Science of the Atomic Agency to develop a curriculum in scientific computing

Thank you

