ELECTRONIC LIBRARY Plus

By ECITYBOOKS –
part of Sysdigit Education Support systems
www.ecitybooks.com

SYSDIGIT
EDUCATION

Modules

e-library module

Depository of learning materials / teaching aids that mostly supplement what the students do in their regular classes. It is a collection of e-books, tutorials/past question papers, videos and animations

e-Classroom module

- Uses wifi to connect
- No need to buy data as the network is ours
- All books are downloadable. Users do not have to buy books.
- There are thousands of books and videos that are very useful for classroom teaching / learning

e-Learning module:

Complete, feature-packed and robust learning management module where teachers can create courses online easily. Teachers can create challenging and fun quizzes, interactive lessons, powerful reports and stats that enable tutors to manage, administer online school, and online courses easily.

Useful for

- - Remedial classes
- - Nomad school
- - Independent learning

VISION

In conceptualizing, our primary considerations included the basic core and extra-curricular needs of the African student (from Junior, Senior Secondary Schools and all the way to the university - certainly up to the final year of the colleges of education for obvious reasons).

"Covid-19 aware: Social distancing can be easily observed"

It addresses the enhancement of their total educational experience at a reasonable project cost and sustainability.

Useful for remedial classes –

Those that did not make the right grades and hence need to retake as external students.
The artisans that missed out on formal secondary school education but have the need to undergo the same as external students as they need to remain at work while at the same time studying.

It is thus conceived as a technology driven solution that exposes the African students (virtually) to world class educational aids and mentoring resources that are available to the best of their peers worldwide.
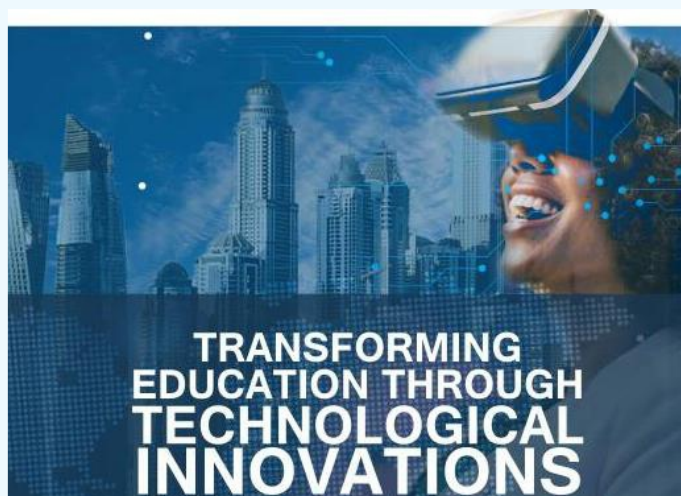
Adenrele High School, Ifo.

Holy Ghost College, Owerri.

Government College, Ibadan.

TRANSFORMING EDUCATION THROUGH TECHNOLOGICAL INNOVATIONS

The goal of the Project is to simulate *for each student* a Virtual Classroom equipped with an Electronic Library that is further enabled with Multimedia Counselling. It deals with the academic progression of the African child in his local learning environment as he proceeds from the early years all the way to the tertiary institution.

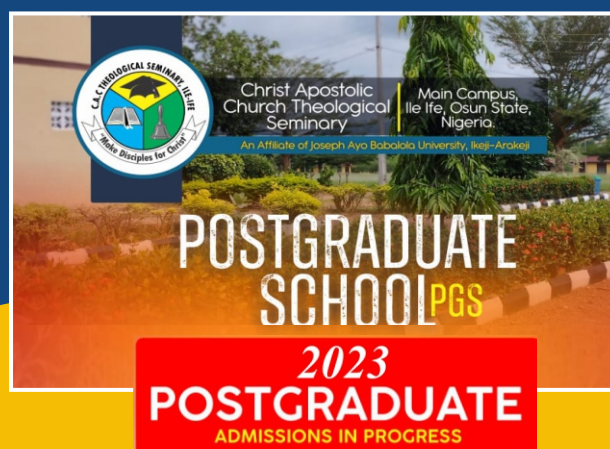*"The package encourages and underpins pure independent learning"*

At the heart of this model is an integration of education modules that consists of

1. **e-library-** **the core. This module is further explained bellow**
2. **e- management.** This helps schools to manage their daily activity- **Class, Teacher, Student, Parent, Subject, School Routine, Attendance, Exam, Homework, News, Event, Marks**. It has such roles as **Admin, Teacher, Student and Parent** with each of them having their own account interface
3. **e-Learning. ''** This is a complete, feature-packed and robust learning management module where teachers can create courses online easily. Teachers can create challenging and fun quizzes, interactive lessons, powerful reports and stats that enable tutors to manage, administer online school, and online courses easily

The (Electronic Library) format

For clarity, this is a *Depository* of learning materials / teaching aids that mostly supplement what the students do in their regular classes. It is a collection of e-books, tutorials/past question papers, videos and animations.

"Some schools already have a number of computers. Without content however, what such schools have are mere INTERNET CAFES''

Strong Tower Academy, Ikorodu

Christ Apostolic Church Theological Seminary | Main Campus, Ile Ife, Osun State, Nigeria.
An Affiliate of Joseph Ayo Babalola University, Ikeji-Arakeji

POSTGRADUATE SCHOOL PGS

2023 POSTGRADUATE ADMISSIONS IN PROGRESS

Infrastructure Architecture: This is a wireless INTRANET (private network): Server – work station arrangement. It uses a rather simple V -O -D (video-on-dem and technology).

LOCATION OF THE DEPOSITORY- This is on a dedicated computer (server) thus, for every material, only one copy is required for the entire learning community (school)

USER ACCESS
User (Students) access is ideally via supplied Tablets (hand held computers), although other wi-fi enabled computers, smart phones etc can also be used to access the network. Tablet or Touch Screen devices are preferred as they readily allow users to touch, click and even do also free- hand drawings

DATA TRANSFER MEDIUM
The offline Library is designed for the Nigerian environment where internet is slow to non – existent. Access to materials in the *Depository* is via **WI-FI** and **NOT THE INTERNET**. This eliminates need to pay for data or airtime and thus savings on money as users only need to charge the devices with power.

Once the User logs on to the Server, the user – interphase pops up on his device. This is web browser eg Mozilla's Firefox, Google's Chrome, Microsoft's Edge that has been deliberately made user friendly and intuitive to students.

CURRICULUM
Key stages 3-5 (including preparatory material for post-Secondary education especially in science and technology) to enable proficiency levels up to and beyond SAT 1 & 2, TOEFL, GMAT, WAEC, GCE O & A -levels, NECO, LASGEM, IGCSE, BACCALAUREATE

These Key Stages refer to va rious years of secondary school (UK) from ages 11 to 18, that equip children with knowledge and skills needed to tackle demands

of certification/examinations Key Stage 5 describes the two years of education for students at sixth form (pre-Tertiary)

In addition, university lecturers and other facilitators are able to load their courses and other instructional materials.
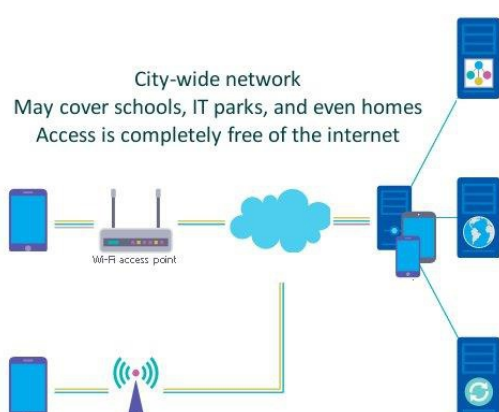
The Offline E-Library project Plus Project has deliberately been made to be highly scalable and flexible enough to enable it to *complement, accommodate* the changing education curriculum in Nigeria.

LOCATION – Data Centre/Hub & 'IT Park'

On site: A Server and the router is located in the special room, a 'DATA CENTRE', the hub- a secure environment that is well ventilated, protected from weather/dust, rodents and unauthorised personnel. The data centre is wired with its own 'clean' main electricity supply, which is supported by a SOLAR POWERED electricity Installation. The System Administrator or support personnel are responsible for all the activities here.

"People are talking about TECH- HUB or TEC- HUBS- The good news is that the e-library plus more than qualifies schools where they are installed to qualify as TEC HUBS. All our installations share the HUB resources"

IT PARK / WIFI COVERAGE

City-wide network
May cover schools, IT parks, and even homes
Access is completely free of the internet

Wi-Fi access point

In view of the fact that the idea behind **THE ELECTRONIC OFFLINE LIBRARY PLUS** is to inject a 21st century learning environment where students can read,

work and explore the update content, **THE ELECTRONIC OFFLINE LIBRARY PLUS** incorporates outdoor access (IT PARK) to make

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learning exciting! It may also be used for METRO COVERAGE where whole cities are covered

Today, students are growing up in a world where they will never know anything but an immersion in technology. Equipping them with technology tools (laptops and tablets) in virtual classrooms will seamlessly lead them on to whatever technology comes next. They're learning through Apps and through independent research while being given freedom to make connections between their different subjects.

A comprehensive **ELECTRONIC OFFLINE LIBRARY PLUS** Package therefore has designated outdoor areas of relaxed study, equipped with charging points for hand-helds, benches and tables where students may do their private studies. **Note** : Coverage of one outdoor access point (AP) is usually about 70 metre radius of the AP equipment. Multiple APs expands coverage

COUNSELLING
Scheduled Video-On-Demand broadcasts over Wi-fi caters to specific extra-curricular needs on career counselling, civic education, health & hygiene etc

PROJECT BENEFITS

1. Users have access to world class materials.
2. Only one copy of the learning material is needed by the whole of the school or learning community. No need to buy books. Depository is constantly updated. All materials are already pre-loaded on the server.
3. Abundant Proprietary and Open licence learning materials are provided
4. Materials are available in the Depository locally (on the Server) and are regularly updated.
5. Use of eBooks significantly limits the need for students to buy books as hundreds of thousands are freely accessible on various subjects
6. Tablets / smartphones transform into virtual classroom extension
7. Project is easily scalable to entire school population
8. User access is controlled via personalized ID/Password

Supported by EEAS – Delegation of European Union to the United Kingdom of Great Britain and Northern Ireland. Then remove Sony Enfield

Government College, Ibadan

9. Server is 'always on', and access i s via Wi-fi on an **Intranet** (not internet) arrangement. Issues of 'no or slow network' are thus completely eliminated. In addition, there is the redundancy via a back-up Server with simplified activation
10. There are no User Access Charges.
11. User interface is via web browsers compatible with all computer operating systems
12. Use of VOD (Video - on - Demand technology) enables transmission of pre-recorded instructional material from world class educators. Such lessons are always available for repeated viewing. Useful materials from other willing sources will also be regularly updated.
13. Multimedia simulation lessons complement science laboratory work
14. Teachers also have opportunities to hone their use of IT skills to teach and even support existing pedagogy
15. Students are able to learn / develop at their own pace.
16. Project Cost can be spread over a long period depending on availability of funds it also covers system maintenance for first year and training of designated staff (renewable thereafter).
1. To ensure sustainability, we always have support / maintenance arrangements in place, there are always regular updates. Our staff will always be there at all times. **The library (software) package**: Supply, install and maintain the Offline Electronic library plus is presented in (modular)versions.

    Depending on availability of resources, the package itself is presented in a number of variations-
    1, Lite, 2, standard and 3, premium. There are also the 4th and 5th ones for special – mobile environment**- NOMAD** while the **REMEDIAL SCHOOL** is for the more matured schools

1. OFFLINE ELECTRONIC LIBRARY **LITE:**
    Contains about 60 gigabytes of data, fairly comprehensive.

2. OFFLINE ELECTRONIC LIBRARY - **STANDARD** : About 500 gigabytes or more

3. OFFLINE ELECTRONIC LIBRARY **– PREMIUM** Same as standard version, but with integrated Education Administration software

4. OFFLINE ELECTRONIC LIBRARY- **NOMAD**
   This is essentially **'SCHOOL-ON-THE WHEELS or mobile School**; school plus library and temporary environments eg **IDP or refugee camps**. For this particular version, **the server** is powered via portable power source (previously charged batteries and inverter arrangements or from the teacher's car. The tablets for access ing the server are also pre-charged and brought also supplied by the teacher. **Typical setup time is less than twenty minutes**. In essence, a classroom can be set up in about **any place anywhere, depending on the need**

5. OFFLINE ELECTRONIC LIBRARY FOR **THE REMEDIAL SCHOOL**
   This is essentially packaged to provide virtual learning environment for much more matured learners that need to study for their School Certificate examinations – School Certificate examination as external students This **EDITION has been optimised for the use of those that need to write the WASC EXAMINATION as external candidates either because they need to re- take or missed out entirely on formal secondary school education**.
   Price: This can be up to £5,000 or N3Million Naira for the premium edition. We are however able to scale it to meet any budget – (there are free versions) willing to come up with good arrangements as our way to contribute to education improvement in different countries. For whatever variant is installed, there is need to have maintenance arrangement for obvious reasons. This will be on annual basis and depends on location.

PROCUREMENT OF DEVICES (COMPUTERS /TABLETS) FOR STUDENTS TO ACCESS THE LEARNING MATERIALS

Several prospective users already possess wi-fi enabled devices. We however, encourage computer tablets with screens with minimum viewing areas of 8 inches.

AFFORDABILITY: The estimate (popular statistics) is that 20 per cent of parents are able to afford reasonably useful tablets for their children's / ward's use. The next 60 per cent will be assisted to purchase through flexible payment methods via Cooperative Societies. The remaining 20 per cent will be through the benevolence of philanthropists.

Government, through its bodies may be persuaded to provide soft loans to cooperative societies specifically for funding such items. Other alternatives are through crowd funding, philanthropists, friends of schools (Old Students Associations, Parents' Teachers Associations).

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tv.edutec-expo.com (our community TV channel)

About Sysdigit Communications:

We are primarily a digital media communications practice.

We have been ISP-(internet services provision, hosting websites, online applications e t c) in the UK since 1997.

We are 'home' to a number of online magazines and IP Television

We write computer applications / packages. This we do by 'piggy backing' on other peoples' technology.

Notable ones are for

1   HEALTH TECHNOLOGY –

| Holy Ghost College, Owerri | Alogba Library in Ikorodu Town Hall | CAC Seminary Ile-Ife |

2 BUSINESS OF EDUCATION –

EDUCATION SUPPORT

Three of our packages are

- Virtual Classroom ▪ E- Library ▪ E- publishing- e-books for both online and off line reading.

3 HOSPITALITY- IP TELEVISION / FREESAT TELEVISION / VIDEO ON DEMAND

- Free TV and information solutions (video on demand) for hotels: HOSPITALITY TV
- Equipment to watch free – to air television stations
- IP TV online or TV on demand / COMMUNITY TV STATIONS

Online TV Community station (check Logo on your whatsapp) – this is our online TV station for even more resources for education and news media – international news channels –

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