

Young Women in IT (YWIIT): Give 100 girls IT skills to end crime

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The number of Nigerian female adolescents living and making a living on the streets is increasing everyday in Nigeria, and this has made these young women more vulnerable to the vices of some unscrupulous persons in our society. We need to take them back by engaging them in what is fulfilling and worth the while.

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Project Summary

The number of Nigerian female adolescent living and making a living on the streets is increasing everyday in Nigeria, and this has made these young women more vulnerable to the vices of some unscrupulous persons in our society. This has been attributed to economic factors, exposure to all forms of risks and recently, COVID-19 pandemic. The result is the proliferation of prostitution among the adolescents with its attendant problems like psychological reactions and psychosocial damage. This is very disheartening! We have to change this paradigm!

On this note, we need to act fast by engaging them in activities that will work on their mental capacity and societal values. Nigerian ladies have been termed “feeble’ both in acts and at heart. We are of the opinion that this is a wrong conception and must be corrected by allowing these young women to start doing evolving things with their lives. They must be involved in things that are in vogue and will catapult them to both fame and affluence!

Mobile app development is a very lucrative area of IT if well explored. Aside the fact that the program will advance them economically and classically when they start working with it, it will also affect their cognitive reasoning power as they shall have training in algorithm and critical thinking.

Basically, we have come to terms with Harvard University through edX to train 100 girls on Computer science and Mobile app for a period of 3 months and 6 months depending on the assimilatory response of the young women. These 100 shall be our weapons that will train 10 persons each to give 1000. Thereafter, the 1000 shall pick 10 each to give 10,000. The trend shall continue this way till we have 100,000 trained mobile app developers.

Project Description

The Project shall be carried out by Build the world Initiative based in Ibadan, Oyo state Nigeria. This is an NGO that is also known as Big2. It is located at No 60. Adebajo Street, off Aare Avenue. Kongi Area, New Bodija Ibadan, Oyo State, Nigeria. The NGO is registered with the government of Nigeria with Registration number CAC/IT/No 145252.

Vision

“To engage and empower young women with skills in order to reduce Prostitution and Poverty in Nigeria”

Mission

“To train 100 girls Mobile apps Development order to end crimes in Nigeria and also giving values to Nigerian women”

Objectives

1. Empowering the young women with Mobile App Development skills
2. Rehabilitation of the mind of the young women through cognitive development training
3. Equipping the young women the fundamentals of computer science
4. Building the young women into valuable and resourceful trainers of trainers and thus making them responsible
5. Using the trained young women to build apps that will solve public problems .and generate funds to cater for the needs of more vulnerable women
6. Creating employment for 100,000 young women.

Challenges

In order to make this a reality, young women across the country should find the program accessible and thus be involved in the training but the fact that we have only one center shall limit number of the young women that can access this training from any part of the country. Though we envisage a solution through the

use of online resources for most of them but we shall have them converged three times before the end of the training. Also, most Nigerian ladies prefer to make instant money than to acquire skills now and wait to make money. This has been one of the major problems we have in the country that have been hindering the utilization of potentials in our women. This is the very reason why most of them engage in fast business of prostitution. We shall use the radio and different online facilities to create awareness on the importance of this program and also call for more support from the public to help the welfare of most our prospective trainees. The problem that might evolve from the issue of transportation and feeding shall be looked into when we are about commencing.

Project delivery strategy and Operations

1. Training Delivery

The instructors of the training from Harvard University shall run the training online. Sometimes, it shall be live classes streamed to the students online and at many other times, they shall stream prerecorded videos for the trainings.

We shall have four classes of 25 young women each. Classes shall be in the morning and afternoon. Also, each class shall have three days in a week. That means a class shall have Mondays, Wednesdays and Fridays in the morning with their other 25 colleagues having theirs in the noon while another class shall have theirs on Tuesdays, Thursdays and Saturdays Morning (25) and afternoon (25). This makes the number of students to be a total of 100 young women. Each student shall spend between 9 and 18 hours every week to complete the training in either 6 months or 3 months respectively.

2. Facility

The facility has a fully air-conditioned seminar room that can accommodate more than 50 persons at a time but the policy surrounding the coronavirus Pandemic has led to social distancing which we are observing during this training as well. There is a projector and a screen which shall be used in giving the same lecture as

they shall be viewing on their respective laptops. We are providing 25 laptops for this training and they shall be connected to the internet. Every trainee shall be observed at our reception to prevent the spread of coronavirus amongst our converging trainees.

The physical training is very important as the seriousness and commitment of the trainees shall be accessed immediately and this shall help us to monitor the trainees regularly for effective learning. If we are exclusively using the online medium, we shall not be able to ascertain the progress of the trainees and also we shall not be able to engage them in other opportunities that may ensue at the facility.

Benefits of training

1. We shall rescue many girls from depending on prostitution and other crimes for survival
2. We shall develop and rehabilitate the young women for effective participation in national projects and discussion.
3. We shall develop different apps that can be sold for profit and other activities that will scale our trainees
4. We shall win scholarship awards for some of the trainees to study at local and foreign schools to advance their learning.
5. Trainees shall have opportunities to work with and for giant IT companies for their skills.
6. Trainees shall be able to compete in international competitions in the world of IT
7. Trainees shall become responsible and active Nigerians that can be emulated by other young ladies.
8. Trainees shall have the opportunity to work for rich companies and individuals.
9. Trainees shall obtain their Professional certificate from the prestigious Harvard University which will give them more international opportunities.

Criteria for the selection of trainees

1. They have to be between the ages of 16 and 26
2. They have to be from poor background who are less privileged and cannot afford the cost of the training
3. They must be passionate about the learning.
4. They have to be ready to commit their time and energy to studying this program.
5. They have to sign an agreement with us that they shall remain with us for 3 to 6 months to train other young women.

Program overview

The name of the course is Professional certificate in Computer Science and Mobile apps handled by Harvard University staff through edX.

1. What they will learn
 - A broad and robust understanding of computer science and programming
 - Concepts like abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development
 - Familiarity in a number of languages, including C, Python, JavaScript, SQL, CSS, and HTML
 - How to develop your own mobile app using JavaScript, JSX, ES6, React Native
 - How to master components, props, state, style, views, user input, components, and debugging
 - How to implement an app entirely of your own design.

2. Introduction from Harvard University

Whether it's finding a good spot for lunch, posting a photo of that lunch on Instagram, or just getting some work done while on the go, mobile apps have become deeply ingrained in how we live, work, and play. Smartphones have become ubiquitous and the potential to make a dramatic impact on the everyday lives of millions of people has never been greater — but where do you start? How

do you go from being a user to a skilled creator? What do you need to know and how do you learn it all?

The CS50 courses at Harvard have taught the art of programming to computer science majors and non-majors alike, to those with serious coding chops and those with no prior computer programming experience. Led by Professor David J. Malan, this program teaches learners how to think algorithmically and solve problems efficiently. The core Introduction to Computer Science course will give them a broad and robust understanding of the fundamentals of programming and computer systems. Then they will build on those fundamentals to learn about mobile app development using the React Native Framework.

With problem sets inspired by cryptography, finance, forensics, and gaming, they will become familiar with a variety of programming languages, and then they will build expertise in modern JavaScript and learn the paradigms, app architecture, and user interfaces of JSX (a JavaScript extension) and React Native. The course culminates in a final project for which they will implement an app entirely of their own design.

The course outline

1. CS50: introduction to computer science.

What they will learn

- A broad and robust understanding of computer science and programming
- How to think algorithmically and solve programming problems efficiently
- Concepts like abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development
- Familiarity in a number of languages, including C, Python, SQL, and JavaScript plus CSS and HTML
- How to engage with a vibrant community of like-minded learners from all levels of experience
- How to develop and present a final programming project to your peers.

2. CS50's Mobile apps development with React Native.

What they will learn

This course picks up where CS50 leaves off, transitioning from web development to mobile app development with React Native. The course introduces them to modern JavaScript (including ES6 and ES7) as well as to JSX, a JavaScript extension. Through hands-on projects, they will gain experience with React and its paradigms, app architecture, and user interfaces. The course culminates in a final project for which they will implement an app entirely of their own designs

What they will learn

- JavaScript
- ES6
- React, JSX
- Components, Props, State, Style
- Components, Views, User Input
- Debugging
- Data
- Navigation
- Expo Components
- Redux
- Performance
- Shipping, Testing

Job outlook

- Employment of software developers is projected to grow 24% from 2016 to 2026, much faster than the average for all occupations. (source: Occupational Outlook Handbook)
- The median pay for software developers in the U.S. in 2018 was \$105,590 per year. (source: Occupational Outlook Handbook)
- The mobile app market is expected to grow 270% from 2015 to 2020. (source: VentureBeat).

Training requirements/facilities for 100 young women

1. Twenty five laptops @ \$200 US dollars
2. Data for browsing the internet @ \$15 per 10 gig per trainee
3. Training fee at \$162 per trainee.
4. All other equipment shall be made available by the facility.
5. Power supply at @\$20 per day
6. Writing materials and handout @12 per trainee

In conclusion, the project will reduce the increasing rate of prostitution and crimes among our girls and our youths generally. It will create jobs for them to cater for their needs and that of their immediate family members. It will thus address the significant impact of poverty and unemployment in the country gradually. In essence, it will add to the IGR of the country as we shall create more Mark Zuckerbergs, Bill gates and Jeff Bezos. This will affect the overall GDP of the country.

The idea will be carried for a period of 2 years. We shall stand firm in making the lives of the young women meaningful and productive. We shall take them away from the traffickers and the corrupt rich people that are looming the country. This is one of our projects that will redefine women in their entirety. We have others like CEO direct, Skill1000, Living Smart, Your spouse, Read and write and many others. Our basic goal is to redefine the essence and values of our women as we are a women empowerment NGO.