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| Close-up image showing the leaf-sides of two oversized books side-by-side on a bookshelf, with additional books in soft focus background |
| Akatsuki: Team #15  Deliverable 1 |
| |  |  |  | | --- | --- | --- | | 201439312 | 215044265 | 201458217 | 216023211 | 2/16/18 | IFM3A10 | |  |  |  | |

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* 1. Introduction

While StatsSA have recently just announced an unemployment rate drop by 1%, the youth unemployment is still a tickling crisis for the nation. People who are supposed to be participating in the economy of the country are idle. Fresh minds that should come up with ideas to create jobs for others lack necessary resources to become entrepreneurs. It is an alarming concern that our education system is not equipping individuals to have stake in the economy, with majority of the youth inactive, the future of the country is in jeopardy. Unless the country can produce people, who can do something with their skills, unless those people gets to partake in the economy by either opening their own businesses, which creates more jobs, or by using their skills to earn a living, the economy will remain in shambles.

The education system is failing tremendously when it comes to teaching and training individuals who can be fully equipped after matric. The approaches that have been used so far have demanded lot of investment with little impact, while learners may pass and excel, the standard has deteriorated each year. Repetitive and misunderstood content limits the learner’s creativity at the level where their curiosity and creativity are to be stimulated mostly. All this hinders the full learning experience that a normal child should undertake. With the standard of our education, intelligence cannot be fully tested and improved.

* 1. Company / Industry Background

For many, knowledge and intelligence has been a strong pillar of any empire’s success. Education has been used to administer a moral code for the youth. There is a direct proportion in education and employment in any country and one greatest example is China. Any country with high illiteracy level is unlikely to attract investors. Africa is behind in education and it has prevented us from founding many things on our own. Even with minerals we own at our shores, we still do not have the necessary skill to make them a final product. Having learnt earlier than us, the westerners have capitalized on that opportunity to use what they know to enrich their countries.

However, back in the day, most Africans did not have a choice on education and in some other parts, it is still like that. With the modern-day technology, researches have advanced so fast and the way they are conducted have changed vastly. For a business to make it, a broad expertise on the field is required, and one must stand out to even just get a job. Every industry that is currently active requires some form of education to run smoothly. So, education is the industry that balances all industries, whether it is formal or informal, knowledge application is what working is all about.

* 1. Current Systems.

There are quite a few current systems in place with some doing a good job and some failing to get a breakthrough in the industry. All the systems however are not concerned about standard improvement, they are all just delivery systems.

* + 1. Extramarks.co.za

Extramarks.co.za is a premium platform that allows a user to either register as a teacher, parent or learner. For minors, a parent can register on their behalf and anyone above the age of thirteen can have their own account. However, the fact that the system is not free, it discourages many users to desire using it, especially learners who do not earn any money and rely on allowances. By using subscriptions, the system limits the period in which learners can use the system. The system is not a good option for a developing nation like South Africa.

* + 1. Mytopdog.co.za

Mytopdog.co.za is a more powered version that is part of the Vodacom e-school initiative. The system is user friendly and details everything very easy. It is also a premium system; however, it does not cater for all subjects, it serves mathematics above all other subjects. For a premium system and what it offers, it is worth it, however, those who cannot pay are still excluded. The system using a team of actuarial and data scientist to assess learner differences. However, the system does not react to the differences, only the scientists solve that problem and tell the system which tutor to assign to which learner. It is expensive to use actuarial scientists physical and for the fact that people can do it, it shows that the site does not have many users.

* + 1. Lynda.com

One of the high rated systems in use to date is Lynda.com. The system covers hundreds of courses and contains quality premium tutorials. Instead of paying for that subject, Lynda.com accepts payment for a specific tutorial video, however, users do have an option to pay for the whole course content. The system however only covers the tertiary level content. Being a foreign system, it would be hard for it to be compatible with a South African syllabus.

* + 1. Coursera.com

One of the most successful online education system of all time, Coursera is user friendly, intuitive and very beneficial to any user. The system connects to online courses from many global universities, at its foundation, it was a free system, however, to encourage users to finish their registered courses, it became a premium system. The system allows users to register to any online course of choice, no prior qualification is required. Upon completion, user gets a verified and most cases accredited certificate of completion. The system however is also for tertiary level only.

* 1. Description of Method Followed

Education syllabus differs based on the type of school and countries. Sometimes schools may undertake the same syllabus but still have different curriculum. Hence some schools will have 10 subjects in their FET phase curriculum whereas some only have 7. Some schools include the extra-curricular activities in their curriculum and it is compulsory to pass other subjects. In most government schools, the extra-curricular activities are optional and in some schools, they are not even considered at all.

In South Africa, preschool is not a requirement, however, in other countries like in the USA, states laws do make it a requirement for any child from 3 to 7 years of age to go to preschool. The preschools have their own syllabus and curriculum which must be followed. Syllabuses in countries have different goals as well, for example, in China, the syllabus emphasizes more of practical and understanding of things at practical level, whereas in South Africa it is only understanding at the theoretical level.

Grades as well differ based on country, some countries like Scotland are known to have up to 14th grade. China makes grade 10, 11 and 12 optional. Whereas in South Africa it is just 12 and they are all compulsory. The final examination procedure differs, in other countries, a project is required for graduation, In South Africa it is just the examination and assignments collected during the year.

Formalising the syllabus will restrict it to just one country, hence the approach is to have an informal syllabus that is relevant to every subject in the system. Integrating global basic education will make easier for countries with lower standards to improve easier. Comparing the information per country is unrealistic, however, if the system can do that and use that information, it is beneficial. Regardless of which grade, being able to tell what someone in Scotland is doing in class is motivating when comparing to what I’m doing at that time, either to catch up or keep up the good work.

* 1. Interview / Survey Structure

*Interview*

*Survey*

Learner Survey Questions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Strongly Agree | Agree | Disagree | Strongly Disagree |
| 1 | *The current approach and syllabus change has proved successful* |  |  |  |  |
| 2 | *System give you information beyond the syllabus scope.* |  |  |  |  |
| 3 | *You do not need extra source of information besides your teacher and subject books.* |  |  |  |  |
| 4 | *You can speak more than one vernacular language.* |  |  |  |  |
| 5 | *You can communicate effectively in English.* |  |  |  |  |
| 6 | *You can read and write one or more foreign language.* |  |  |  |  |
| 7 | *You spend satisfactory amount of time communicating in language that is not your home language.* |  |  |  |  |
| 8 | *You have access to prescribed language books and dictionary.* |  |  |  |  |
| 9 | *You understand media coverages like newspapers, radio, television and magazines.* |  |  |  |  |
| 10 | *You understand why you should learn mathematics.* |  |  |  |  |
| 11 | *You can communicate effectively with mathematics as a language.* |  |  |  |  |
| 12 | *You can solve complex mathematical problems.* |  |  |  |  |
| 13 | *You can perform arithmetic beyond 100 well.* |  |  |  |  |
| 14 | *Understand what fractions are and enjoy working with them.* |  |  |  |  |
| 15 | *Can factor numbers or equations well.* |  |  |  |  |
| 16 | *Inspired to understand numbers or equations deeper.* |  |  |  |  |
| 17 | *Can understand applications of technology in real life.* |  |  |  |  |
| 18 | *Can raise challenging questions about technology creation and application.* |  |  |  |  |
| 19 | *Can hypothesize and investigate without teacher supervision.* |  |  |  |  |
| 20 | *Can interpret information provided from an investigation.* |  |  |  |  |
| 21 | *Can draw out a correct conclusion from the information gathered from of a research.* |  |  |  |  |
| 22 | *Can communicate using models and other visual tools.* |  |  |  |  |
| 23 | *Understand most basic elements of science* |  |  |  |  |
| 24 | *Understand basic economic system elements.* |  |  |  |  |
| 25 | *Can handle basic accounting concept well.* |  |  |  |  |
| 26 | *Can apply basic business management skills practically.* |  |  |  |  |
| 27 | *Understand entrepreneurship and how to become an entrepreneur.* |  |  |  |  |
| 28 | *Can link existing political events to the past events.* |  |  |  |  |
| 29 | *Have read about two or more wars.* |  |  |  |  |
| 30 | *Understand how the systematic behaviour of the planet.* |  |  |  |  |

Teacher Survey Questions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Strongly Agree | Agree | Disagree | Strongly Disagree |
| 1 | *You are satisfied with the current way of teaching.* |  |  |  |  |
| 2 | *The learners are always well prepared for the class or new topic.* |  |  |  |  |
| 3 | *Learners have access to what they will be doing for the term.* |  |  |  |  |
| 4 | *Learners need more teaching than they receive.* |  |  |  |  |
| 5 | *Learners are different, and they need different approaches when it comes to teaching.* |  |  |  |  |
| 6 | *Parents need to be involved in their child’s education* |  |  |  |  |
| 7 | *If learners knew beforehand what they need to know for the term it would improve their learning.* |  |  |  |  |
| 8 | *Learners are capable of learning by themselves that’s if they have another source of learning.* |  |  |  |  |
| 9 | *Learners need more than what they get in class.* |  |  |  |  |
| 10 | *It is possible to improve teaching therefore improve learning.* |  |  |  |  |

Interview Questions

1. Do you think there is way to improve learning?
2. If your answer is yes for 1, then what would be that way but if your answer is no, please elaborate.
3. Do you think if there is a good communication between teachers, learners and parents there would be a difference in the way a child performs?
4. Do you think a child in grade R can benefit from using and App in a phone for learning?
5. What can be changed in the current way of learning?
6. Can a learner benefit from any other source of learning? If yes, then how? If no, then why do you say that?
7. For High school learners even primary school learners, do you think using the phones or laptops or tablets will be a distraction in their learning? Please elaborate.
8. If your answer is yes for 7, how do you think that can be avoided?
9. If learners knew what was expected of them there would be a huge difference in their performance? Elaborate.
10. Using different ways to approach a problem can affect a learner’s understanding of the solution?