We are focusing on the subsector “health”.

We are going to work on child and maternal health during pregnancy and till 5 years after child-birth. We are including maternal health here because child health is highly related with maternal health.

There are a total of 14000 community clinics in Bangladesh, working at the doorsteps of rural people . Community Clinic is the lowest tier health facility at primary level established throughout the country including very hard-to-reach, remote & isolated areas.

 Now it has become an integral part of health system in Bangladesh and millions of people are getting services from the community clinics.

One of the members of our team was a Member of Parliament, National Children’s Task Force (NCTF) and worked on the problems children of Bangladesh face. From our high school phase, we have seen many health related issues that children of rural areas face and we eagerly wanted to solve those problems. We have personal experience of visiting community clinics and so we know how they actually work. As our academic area of study is software engineering, it is really very easy for us to digitalize the whole process of child care at community clinics.

1. About our team, what gives us the edge?

One of the members of our team was a Member of Parliament, National Children’s Task Force (NCTF) and worked on the problems that children of Bangladesh face. From our high school phase, we have seen many health related issues that children of rural areas face and we eagerly wanted to solve those problems. We have personal experience of visiting community clinics. So we know how they actually work. As our academic area of study is software engineering, it is really very easy for us to automate the whole process of child care at community clinics through an android application.

1. How are you motivated to participate in AYCL 2019? [Describe in 100 words]

To solve the existing and challenging societal problems, innovative ideas from social entrepreneurs are highly needed. And AYCL is providing early-stage social entrepreneurs a platform to submit their venture ideas.

This year the AYCL is focusing on the agent, CHILD, and the sector, CARE, as the primary intervention area. We always were highly interested to do something meaningful for the children of Bangladesh, we always wanted to change their lives and ensure their rights. AYCL is the perfect platform for us. We want to implement our idea through the hackathon and make a change!

1. 3 objectives :
2. Ensure child and maternal health during pregnancy and till 5 years after child-birth through automating the whole process in community clinics
3. Keep track and ensure whether the community clinic is providing proper care to the children and use the data for further statistical use
4. Raise awareness among the parents and health workers through learning modules and tutorials.
5. Output :

We want to automate the whole process of health care in the community clinics using an android application for smartphones and tablets that will be easy to use, feasible and really effective.

1. Women aged from 15-49 years need to receive 5 doses of TT vaccine to prevent their child from Tetanus. Our app will keep track of whether the vaccines have been taken properly or not.
2. The mother consults the health assistants at 4 stages during the pregnancy, a) First stage: on the 4th month

b) Second stage: on the 6th month

c) Third stage: on the 8th month and

d) Fourth stage: on the 9th month.

During the visits the CHCPs of the Community Clinic provide them with vitamin, calcium and iron tablets and determines whether cesarean delivery is needed or not.

We will keep track of the conditions through the app. These data will be highly valuable for later use in statistical purpose.

1. After birth, a child receives 11 vaccines for 10 diseases.
2. After 6 weeks – 4 vaccines
3. After 10 weeks – 2 vaccines
4. After 14 weeks – 3 vaccines
5. After 9 months – 1 vaccines
6. After 15 months – 1 vaccines

We will store all those data, and continuously update child profile till 5 years. This will ensure whether the children are receiving proper health care or not.

1. This app will keep track of 2 yearly visits to the CHCPs to measure and keep track of children growth: height, weight, other physical factors to determine physical problems.
2. We can retrieve data later and make health statistics of the rural areas that will definitely leave a significant impact
3. Child care guideline notes: There will be videos /tutorials on what kind of food and health facilities to provide to the children that will make the parents aware.
4. Consult with doctor in emergency: The CHCPs will be able to consult with doctors in case of any emergency situation
5. Learning module: The app will provide a learning module for the CHCPs on how to provide proper health care
6. There will be a playlist of helpful contents on child and maternal care. The app will also keep track whether the CHCPs have viewed the contents or not.
7. The government is providing 14000 laptops for the CHCPs. They already have access to the internet. So this app is definitely a feasible solution
8. Outcome:
9. Profiles of pregnant women and children will be created.
10. It will be possible to keep track of the doses of TT vaccine given.
11. When the pregnant women visit the CHCPs of the Community Clinic, they provide them with vitamin, calcium and iron tablets and determines whether cesarean delivery is needed or not. We will keep track of the conditions and steps taken through the app.
12. After birth, a child receives 11 vaccines for 10 diseases. We will store all those data related to vaccinations, and continuously update child profile till 5 years. This will ensure whether the children are receiving proper health care or not.
13. This app will keep track of 2 yearly visits to the CHCPs to measure and keep track of children growth: height, weight and other physical factors to determine physical problems.
14. We can retrieve data and make health statistics of the rural areas for further use
15. The Child care guideline tutorials will make the parents aware.
16. The CHCPs will be able to consult with doctors in case of any emergency situation. This will make the process faster and efficient.
17. The Learning module will be really helpful for the health assistants.
18. The playlist of helpful contents on child and maternal care will help the CHCPs. The tracking system of the app will ensure whether the CHCPs have viewed the contents or not.
19. The government is providing 14000 laptops for the CHCPs. They already have access to the internet. So this app is definitely a feasible solution
20. Impact:

The app will provide information on the following topics:

1. How many children are born every year
2. What kind of difficulties do they face
3. What have been done so far to solve the problems
4. What can be a better solution

And the impacts will be :

1. Children and mother will receive proper health care before and after birth.
2. Health assistants’ accountability will be ensured as the whole system is automated. The app will keep track of their activities.
3. No problem will occur due to lack of knowledge, as learning module and guidelines will be available. The app will also keep track whether the health assistants are using the learning module or not.

Thus children right to get health facilities will be ensured and the whole process will speed up.

1. What is the importance and context of your solution to the current situation of the problem?

At present, there is lack of accountability of the health assistants. There is no tracking system whether children are getting proper health care or not.

This app will ensure the accountability through activity tracking of the health assistants.

Many of the rural people are not aware of child health. The learning module and playlists of the app will deal with this problem.

The government is providing 14000 laptops for the CHCPs. They already have access to the internet. The health assistants have received tablets from the government. So this app based solution for this problem is definitely a feasible solution

1. Why the solution is Unique:

There is no existing app based solution for automating the whole process of providing health care at the community clinics. Our solution will do this in an efficient way.

This app contains all the features that can perfectly handle the existing issues regarding community clinics and child care. The app combines the database, tracking system, playlist, learning module, communication system (in app calling to the doctor) – all in one app. So this app is a complete solution to the problem.

The app provides learning module and activity tracking system. So no cost is associated regarding training and activity assessment.

1. Budget: 2,00,000 BDT
2. Time: 6 months
3. What resources do you primarily require to make this happen? [Resources: financial, information, intellect, human resources, physical and intangible assets]

Financial resource: A certain amount of money for testing purpose of the application and later for deployment.

Information: Information on the activities and stakeholders of the community clinic

Intellect: Study of Cognitive psychology for more interactive UI design

Physical assets: Tablets, Smartphones for testing and deployment purpose

Human resources: The Health Assistants and other stakeholders

Intangible assets: Recognition from the government so that we can deploy the app in the community clinics

12.What is the sustainbility of your finance? Is there a potential source of revenue from the solution?

Our solution (the app) integrates the ESG criteria and ensures lasting benefit of both the stakeholders and society. The solution contributes to sustainable development, creates value, ensures and improves economic efficiency not only for today but also for the long-term. The app will transform the whole health care system of the community clinic in a more sustainable way.

No, there’s no potential source of revenue from the solution. But the data retrieved later from the database can be of a great statistical use. This will reduce further cost of collecting those statistical data.

1. What is the sustainability of your impact?

The proposed solution, approach, strategy and action plans have a great impact on the society and on the health care sector. This is undoubtedly an efficient, effective, feasible and fast solution.

The development, deployment, maintenance of the whole solution is feasible. The solution will solve the problem now and positively change the bigger picture. The database will be a highly useful resource for the government to keep track of the activities of the health workers, collect statistical data, upgrade the health sector and assure child and maternal care.

১। আমার নিজেকে আড়ালে রাখতে ইচ্ছা করে

২। আমার তীব্র অনুশোচনা ও অনুতাপ হয়

৩। নিজেকে অনেক ছোট লাগে

৪।যেকোনো কাজ করার পর আমি দুশ্চিন্তায় ভুগি

৫।আমার নিজেকে একজন খারাপ মানুষ মনে হয়

৬।আমি কোনো ভুল করার পর ক্রমাগত ভুলটি নিয়েই ভাবতে থাকি

৭।আমি অন্যের কাছে অপমানিত হচ্ছি বলে মনে হয়

৮। আমি ছোট ছোট ভুলের জন্যও বারবার ক্ষমা চাই

৯। নিজেকে তুচ্ছ ও অর্থহীন মনে হয়

১০। আমি কোনো কাজ করার পরে খারাপ লাগায় ভুগি