Corona Emergency Service

|  |  |
| --- | --- |
| Name | ID |
| Afif Bari | 1611463042 |
| Md. Ekramul Haque | 1611577042 |
| Md. Sadman Al Islam | 1610503042 |

**Submitted on: 25/07/2020**

NORTH SOUTH UNIVERSITY

ECE DEPARTMENT

Submitted To

**Dr. Mohammad Monirujjaman Khan  
Associate Professor**

**Research Proposal**

**Title of the project:** *A web based interactive system to provide a social service regarding Covid-19 for the general people in Bangladesh.*

**Problem statement:** The vision is to help the society with a determination to have a change using online services. Bangladesh has many people living under the poverty line. Those people need help and support from the people who are capable to help them. But there are not enough sources which people can consider authentic by which they can help physically and financially. In comparison to the other countries our country doesn’t have that much donation systems. Which creates a problem for the people who wants to donate online. Just like other countries of the world, Bangladesh is also going through a pandemic. This pandemic has put Bangladesh into a challenge that we have never seen before. As many people of our country is not health conscious, they don’t know what is the proper treatment and where they can find the proper treatment. Maximum people don’t have the proper information about where they can test Covid-19 or which hospitals are serving the Covid-19 patients. And if ICU or CCU is available or not. Many people don’t have the emergency contact information of ambulances or they cannot find them at the time of emergencies. And because of all these complications, Bangladesh is facing an unprecedented crisis under this pandemic situation.

**Target population:** This project targets general people of Bangladesh who doesn’t have enough information regarding Covid-19 in times of emergencies.

**Project Proposal:**

We want to build a website which will be based on social services. The website will contain online donation systems which will help the people to donate online from anywhere in the world. The visitors will get to know about the works done by their donation by browsing through different tabs. It will have a plasma bank facility where people affected by Covid-19 and in need of plasma will easy find their suitable donators. The site will also have the information regarding the closest hospitals which treats Corona patients in a location of a Covid-19 patient. The site will also showcase vacant hospital beds of those hospital and emergency contact facilities regarding Covid-19.

**Overall objectives of the project:** The main priority of this project is to develop a website which will help the underprivileged people of the country and will give the total information that are necessary to fight the Covit-19 Pandemic. The website will contain information of the number of hospitals that are serving the Covit-19 patients. The number of ICU, CCU, and general beds that are available for the Covit-19 patients. It will also have plasma bank facility. Many emergency contact numbers like: IEDCR, Ambulance, Oxygen services will be given there. The website will be designed in such a way that people can find all the information regarding Covid-19 in this website without the hassle of browsing different websites. The project will help the people of the country to rely more on internet which is sign of developed Bangladesh.

**Output of the project:** The project will have the following outcomes.

1. Donation system for people to donate to the underprivileged populations.
2. An interactive website to search for closet Corona serving hospitals near a location.
3. Plasma Bank facility for the Corona patients or the people in need.
4. Hospital bed vacancy indicator for the Corona serving hospitals.
5. Information regarding Ambulance, Oxygen services, IEDCR and other Corona related emergency services.

**Brief work plan:** The project development will be conducted in a number of phases. They are planned as follows.

**Phase 1:** Gathering information regarding all the corona serving hospitals, ambulance services, oxygen providers and emergency contacts.

**Phase 2:** Research on donation system, wallet settings and plasma bank system.

**Phase 3:** Prepare database for donations, plasma bank, hospital information and emergency contacts. In this phase we’ll also build the admin panels for the website.

**Phase 4:** Developing website application for easy access by everyone with all the included facilities.

**Phase 5:** Testing all the facilities on website and launching the system.

**Major milestones:** The proposed research and development project is expected to achieve following milestones.

1. SRS (System Requirement Specification) report preparation
2. Designing and creating all the required databases.
3. Creation of Admin panel for the website.
4. Web based system and mobile application development and deployment for both teachers and students.
5. Feedback from user, modification of the system and content
6. Final report on effectiveness of the project

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Month** | | | | | | | |
| **Major Milestones** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| Requirement Analysis |  |  |  |  |  |  |  |  |
| Database Development |  |  |  |  |  |  |  |  |
| Admin Development |  |  |  |  |  |  |  |  |
| Website Development |  |  |  |  |  |  |  |  |
| Feedback and modification of system |  |  |  |  |  |  |  |  |
| Final Report |  |  |  |  |  |  |  |  |

**What makes the solution an ‘innovation’ (Description of innovative and creative aspects):**

The proposed solution of the stated problem is definitely innovative because it has never been tried before. No platform at present in Bangladesh provides this sort of service. This service will include all the facility regarding Covid-19 treatment and information. People won’t have to browse through many websites to gather information regarding Covid-19, hospital facilities, plasma bank facility and emergency contacts, they will get all the required solutions in one spot. Which is indeed a very helpful solution in this time of pandemic.

**Expected results of the project (how the actions will improve the situation of the target group):**

Improvements throughout all aspects of life can be expected of the project. The expected results of the project are as follows.

1. The platform will provide clear and authentic information regarding Covid-19.
2. It will provide donation facilities for the underprivileged population.
3. People will easily find donors for Plasma.
4. People will easily find hospitals near them that treats Corona patients and will also get to know their vacancy status.
5. People will easily find all the emergency contact information regarding Covid-19.

**How the project will become sustainable? Explain:**

Initially, the project will run by the developers. After the initial research and development phase, the service will be provided for free of cost for all time since this will be a social service platform. After a certain time span, if the project develops to a great scale then the project will be proposed to the university authority to provide funding so that the service could be run in the name of the university and carries on till the need of the facility.

**Monitoring mechanism (Including report):**

The project will be monitored and reported about in two phases. They are as follows.

1. **Research and Development period:** During the research and development period, after every development phase a report on the progress of work will be submitted to the responsible authority. The report will include development risks, time of development and outcome of the development period.
2. **After deployment phase:** After the development is completed, the system will be deployed and ready to use. Hits in websites will be counted and user access will be monitored to get an overview of the number of users and their requirements. The overall running system report will be submitted with an interval from time to time.

**What are the risks? How the risks will be managed?**

Every project has some challenges and risks. This project is not any different of that. The risks and how they will be managed are as follows.

1. The course curriculum changes approximately in every 2 to 3 years. With the change of syllabus, there will be the need of preparing new interactive contents for newly added syllabus. Ensuring the continuous development and research can be a costly and complex process. There is a risk that research and development might stop after a certain period. The solution of this problem is continuous development in the field. It will need funds to keep the development running. Revenue generation and grants will allow the system to keep updated.
2. The major risk of this project is revenue generation. Although the service will be very cheap, people must be made understand the importance of the system to make them pay for the service. So, at first, proper awareness and motivation will be the key to success and sustainability of the project.

**Budget:**

**Required budget (including breakdowns and shared cost):**

|  |  |  |
| --- | --- | --- |
| **SL#** | **Item Description** | **Amount** |
| 1 | Domain Cost | 900 |
| 2 | Hosting rent | 2000 |
| 3 | Server procurement / rent | 3000 |
| 4 | Advertisement through newspapers, Facebook etc. | 2000 |
| 5 | Final report on effectiveness of the project | 500 |
| 6 | Miscellaneous | 2000 |
|  | **Total** | **10400** |

**Procurement Plan**

**Procurement plan:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **What** | | **Why** | **When** | **Amount** |
| Description | Type | Reason | Timing | Tk. |
| Domain/Hosting Server | Service | For developing and testing the system | Within eight weeks of project offering (PO) | 2900 |
| Server procurement / rent | System | Deploying the system for target users | Within six months of PO | 3000 |
| Advertisement through newspaper, Facebook etc. | Media | Not the mainstream functions of the project | First seven months after PO | 2000 |