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| **Title: TOPIC ABSTRACT FORM** | | |
| College | College of Informatics and Computing Sciences | |
| Proponent | Goot, Eryl Cresid  Dela Pena, Ma.Christine  Mendoza, Jason Allen  BODUNDE, OLASUNKANMI | |
| Program | BS Information Technology | |
| Proposed Title | |  |
| **B&H Donor Mobile Application – An Online Blood and Hair Supply Information Platform for People in need of Blood & Hair Transfusion/Transplant.** | | |
| Background of the Proposed Topic: | | |
| Donating blood is an invaluable gift that you can give to someone in need, as blood is an essential component in treating those who are critically ill and vulnerable to diseases. The Philippine Red Cross (PRC) is an independent and autonomous non-government organization tasked to help the Philippine government in the humanitarian field and to adhere to the obligations of the Philippines to the Geneva Conventions and International Red Cross and Red Crescent Movements. PRC committed to provide quality life-saving services that protect the life and dignity especially of indigent Filipinos in vulnerable situations. Additionally, donating hair for hope is community driven. From the key idea of raising comfort and cheer for those losing hair due to chemo, it moves forward on the strength of more ambassadors sharing their stories and asking loved ones and friends to experience the joy of giving. The struggles of an individual fighting cancer is draining, not just physically but emotionally and mentally. Most cancer patients are unable to purchase a wig because to a lack of funds; a human hair wig costs a lot of money when purchased in a parlor shop; therefore, cancer patients do not have time or money to purchase a wig and instead focus on how to fight cancer. Being a hair donor has many benefits for them, and you may be an inspiration to them since you are sharing, even if you can't contribute financially, you are helping to build their confidence and provide them joy.  With the rapid growth in the use of social networking sites around the world, there has been a continuous increase in the number of calls for hair and blood donors, as seen by the number of posts on sites like Facebook and Twitter seeking blood donors. In practically every country, finding a blood donor is a difficult task. B&H mobile application was able to provide the easiest way for the better transaction in terms of blood and hair donation. It is possible to have many donors as they encounter this application. It also encourage other organization to donate blood and hair. Thus, the Charity’s and foundations can innovate the use of technology throughout a transactions with the donors to fill the gap between ICT innovations and different organizations can be augmented by this project . The mobile application is a supply information platform that can help people in need of blood/hair donations.Apart from that, database encryption ideas will be used to ensure that the users' information is kept secure and confidential. This will assist us in keeping their donation records safe from threats from persons with possibly nefarious motives, as well as any other unforeseen challenges to the data's security.There are **three sorts of users** who can use the app:  Those who wish to give blood or hair from the **general publi**c should:   * can select which blood/hair banks to give to. * Can post his or her blood type and hair length. (Example: Available blood A, Batangas City) All users will be able to see his or her status. * Having the capacity to route messages to other users or beneficiaries is also advantageous. * Update or modify account's profile.   The people who will **benefit** from it,   * They can indicate which type of blood or hair is required by posting a status update. (For example, we are looking for hair donor location: Batangas City) which will be visible to all users. * Having the option to direct communication to other users is also a plus. * Update or modify your account's profile.   The **admin** who will handle the database of the system.   * This serve as an acts of intermediary to manage communication between blood/hair donors and requesters. * Secure all the users information.   The main goal of application is to educate the community about the benefits of blood/hair donation, develop a blood/hair banking system to manage donor and recipient records, and have easy access to all blood/hair and voluntary blood donation and also to promote it. All type of information regarding the blood and hair distribution is accessible at various blood/hair banks in Batangas and our system/application will provide the information on regarding to that. The application will be provide if the users are qualified to donate blood and hair. | | |
| General Objectives: | | |
| The research project's overall goal is to provide an online application for patients who require blood or hair transfusions urgently, to make searching for blood/hair in an emergency easier and more automated, as well as to keep safe and secure records of blood/hair donors, recipients, and blood/hair supplies in the bank. They may quickly determine whether the blood type or hair length they require is available at their local hospital, blood bank, or other location using our mobile app. They can also post a request so that it is seen by some people and that they are aware that it is urgent. Specifically, it aimed to achieve the following objectives.   1. Develop a blood and hair mobile application to manage the records of blood and hair donors.   1.1. Manage and record user information.  1.2 Manage and records blood and hair transaction.   1. Support fast searching to find match blood bags and hair donor for the right person.   2.1 Allows users to upload the status of blood and hair data they're searching for, and others can see it.   1. Donor can check the status of the particular blood/hair group just on one click sitting at home.   3.1 Donors have the option of selecting which blood and hair banks to donate to.   1. Making it simple to connect donors and recipients makes blood/hair donation far more efficient. 2. Simple registrations using the mobile app will facilitate speedy access on both ends.   5.1 Users can register using their email.   1. Encourage people to donate blood and hair on a voluntary basis.   **Significance of the Study**  The mobile application to be developed will be significant to different people and organizations. It will be advantageous to them in different ways.  **To the blood banks,** this will be our partner in assisting individuals in need, as we will be able to prepare the fastest transactions with this type of setup. We are your co-workers on this initiative, which aims to assist patients in receiving the correct blood type. It was a relief for the patient because they didn't have to go to other blood banks and didn't know if there were any blood types available in that hospital or blood banks, which was one of the reasons why we decided to offer and push the said application.  **To the hair banks,** We are your associates; we can accommodate contributors via internet and will provide the necessary information. This purpose was to offer the cancer patient a new lease on life, to make their lives as vibrant as they had hoped. Hair may seem insignificant to most people, but it meant a lot to patients in need; it gave them the confidence to face the world..  **To the donors,**  it will help them to select and locate which nearest blood/hair banks they prefer to donate to.  **To the recipients,** This web tool application will assist recipients in locating the quickest and most convenient blood/hair banks and blood/ hair donors.  **To future researchers,** this study will make sense, it will awaken the world, and it will give our unity to compromise with this type of application that can make a difference with people in need, especially those patients who most likely needed blood as soon as possible, and a million reasons to smile with every cancer patient who will be granted with the hair for hope project. | | |
| Research Methodology: | | |
| **Figure 1. Conceptual Framework** | | |
| TOPIC EVALUATION COMMITTEE  The topic abstract has been thoroughly reviewed by the Topic Evaluation Committee. | | |

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|  | **Signature** | **Remarks** |
| College Dean |  |  |
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