Smart Health Prediction System in Azerbaijan

Request Statement / Planning Phase   
(Homework No.1A)

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Submitted in partial fulfillment of the requirements of the INFT 2303: Systems Analysis and Design course project

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| GitHub repository | <https://github.com/ADA-SITE-INFT2303-2023-Spring/homework-1a-NarminaKarimova.git> |
| Version date | Version information |
| Feb 6, 2023 | Creating the initial draft of planning phase for the project of Smart Health Prediction System in Azerbaijan |
| Feb 7, 2023 | Adding business value |
| Feb 8, 2023 | Modifying project sponsor, correcting business need |
| Feb 9, 2023 | Changing logic: that application should focus on helping patients to know to which doctor (cardiologist, radiologist, neurologist etc.) he/she must go according to the symptoms. It would be wrong to focus on diagnosis since application cannot conduct any medical tests (blood, urine, PCR tests) on patient. |

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| Project sponsor |
| Narmina Karimova on behalf of **medical expert(s)**. The specialist(s) will help with the creation of the test. |
| Business Need |
| Today, especially after the period of pandemic, *people became more concerned about their health.* They are constantly searching for the meaning of their symptoms to learn about their health condition and which specialist they should visit, but without proper medical education, simple “Google search” may not be enough. Moreover, the visit to the doctor can be both expensive and time consuming. Considering the case in Azerbaijan, people could wait in queues for hours just to know which doctor they should visit. To solve these issues new system should be created to bring users value that they can benefit from. Specifically, the system must focus on providing the users with quick outcomes considering which medical specialist they should see, thus, saving their time. Moreover, the system will reduce their expenses by not attending multiple appointments with the doctor that can be solved through conducting the online consultation.  <**Look around** when you walk or drive in the city, when you work, shop or have a leisure time. **Note issues** or any need or opportunity for improvement you see. **Think of a solution** through **use of information systems**. It well may be your lifetime invention, but it does not have to be an original idea. Feel free to search for information (recent article, report, case study, etc.) on a real working information system (or ideas for one) that solve the same problem somewhere else.>  <Any statement, number, estimation must be backed up by factual source. You need to insert **references** to any source referred to in the document. An example might be articles or Web sites that you consulted during the literature search. This should be done by adding **footnote**s at the exact points of reference in the main text. This should not be just a list of used materials.> |
| Business Requirements |
| New system will provide the users with website/mobile application. Firstly, potential patients will have to go through registration process to input their personal information (passport, previous medical records). Then users will be asked to take the test where they will input all the symptoms that they have now. Based on the answers, application will prosses the results and choose the right doctor that patient should visit. The system will request the current location of the user to suggest the nearest clinic/hospital for consultation. After the place is chosen, the user can choose the available specialist of that organization to contact the doctor and request an online consultation.  <Business requirements outline the capabilities the system will provide the organization. These requirements need to be explained at a high level so that the approval committee and, ultimately, the project team understand what the business expects from the final product. Business requirements summarize the features the information system must include, such as the ability to collect customer orders online or the ability for suppliers to receive inventory status information as sales occur.> |
| Business Value |
| Considering the intangible benefit, with this project patients will be able to learn faster which doctor they should visit, thus, indirectly shortening the time when they will get their diagnosis. Talking about tangible one, people will save and money time by not going to the doctor’s appointment physically but rather by joining an online consultation.  <The benefits (both tangible and intangible) that the system will create for the organization> |
| Special Issues or Constraints: |
| The student does not obtain education in the medical field. It may lead to uncertainty at some point while creating the test to learn the direction of the treatment. |