# Online Health 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.) they 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) for patient. |
| Feb 10, 2023 | Adding issues |
| Feb 11, 2023 | Adding references, correcting business needs and business value. Bringing more details for the requirements. |
| Feb 12, 2023 | Final draft |

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| Project sponsor |
| Narmina Karimova on behalf of **medical expert(s)**. The specialist(s) will help with the test development. |
| Business Need |
| Today, especially after the period of pandemic, *people became more concerned about their physical health.****[[1]](#footnote-1)*** They are constantly searching for the meaning of their symptoms to learn about their health condition and which specialist they should visit. However, without proper medical education, simple “Google search” may not be enough. Moreover, visit to the hospital/clinic can be both expensive and time consuming, especially when person makes a visit for the first time to consult the specialist. *Considering the case in Azerbaijan, people could wait in queues for hours just to know which doctor they should visit.****[[2]](#footnote-2) [[3]](#footnote-3)*** To solve these issues new system should be created to bring users value that they can benefit from. It will be initiated to:   * Help users to learn which doctor they should visit, thus, indirectly shortening the time of learning their diagnosis * Reduce patients’ expenses on visiting doctors * Save patient’s time by having online consultation instead of physically attending multiple appointments with the specialist. * Indirectly reduce the queue in the clinics/hospitals |
| Business Requirements |
| New system will provide users with the mobile application. Firstly, potential patients will 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 type of doctor that patient should visit. Based on the current location of the users, they will be able to request an online consultation with a specialist who will also register through the application. If there are any available specialists now, patient will be directed to the doctor at the nearest clinic/hospital, so they can firstly conduct an online consultation. The information that user has input in the app will be redirected to the doctor. After online visit, patient may go to the same clinic/hospital physically for taking different tests (blood, urine, physical examination at the doctor if needed). |
| Business Value |
| Considering the tangible benefits, the organization will gain monetary assets when users request the appointment with the doctor. When comes to intangible ones, the system will create customer service which can create good image of the system and bring new clients. |
| 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. * Application will be developed without using AI/Machine Learning/Data Mining (which could predict the direction more accurately) since student does not have deep knowledge in this field. |

1. <https://www.mana.md/5-ways-the-pandemic-has-increased-wellbeing-awareness/#:~:text=More%20people%20are%20using%20technology,in%20popularity%20during%20the%20pandemic>. [↑](#footnote-ref-1)
2. <https://sputnik.az/20230128/tebb-xestexanada-yaranan-uzun-novbelerin-sebebini-aciqlayib-451143775.html> [↑](#footnote-ref-2)
3. <https://az.sputniknews.ru/20220825/kak-reshit-problemu-dlinnykh-ocheredey-v-bolnitsakh-s-sistemoy-oms---video-445359344.html> [↑](#footnote-ref-3)