**Fatima Ibrahim K17-3639 Section C**

1. **Title of Research Paper:** Virtual Doctor
2. **Research Problem:** An Intelligent system that offer diagnoses on user symptoms.
3. **Issues in Current technology/methods/techniques**

There are system that offer diagnoses based on symptoms but they have limitations. There are many things that they cannot do like taking your blood pressure, blood sugar, etc. You cannot ask the system to take your blood tests or contact a doctor even if you think you really need to.

1. **Rationale and Benefits:**

The benefit of this system is that it resolves the issues that we were facing in the current technology. It will be able to take blood tests and after asking the patient about all their symptoms, it will provide them with most suitable results. After this, using the inbuilt technology, the system will be able to analyze whether the patient needs a doctor or not. If there seems to be a need, the system will connect the patient to the doctor using technologies like webcam. The system is developed in a way that it will help even the people with no knowledge of computers in getting their diagnoses.

1. **Method Used:**

* Since it is for people with all ages and with any level of education, it will be able to identify misspellings – This method is known as “Symptom search-Spelling”.
* It calculates the percentage of the symptoms input by the user, against the symptoms in a relating illness and find optimum result - This method is known as “Symptom search-Optimal results”

1. **Results and Conclusion:**

The developers believe they have succeeded in developing a product that displays the skills we gained over the years. If we do not go for such systems, we will experience a shortage of doctors for the needy patients. This is why we need to expand the access of such a system to more and more countries.

1. **Recommendations for future researchers and policy maker:**

There are numerous ways of extending the Virtual Doctor project.

* “Weighted Seat” to automatically input a user’s weight.
* Include a tool to measure your height, heart rate monitor, blood pressure measurer, digital pulse oximeter, thermometer, etc.
* The project could be extended by categorizing certain illnesses as male or female only.
* Calculating and graphing illnesses in various locations.
* Potential to have the frontend personalized to conform to specific environments.