Software Requirements Specifications for

Project :-

**Symptom checker**

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**Date Created: 20-11-2016**

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**1.INTRODUCTION**

**Purpose :-**

In this expert system project, we can easily get the disease details according to the symptoms of the patient.

The main function of this project is to assist medical practitioner to not miss any possibilities of a disease for the particular symptoms of patient .

**Scope :-**

This particular project deals with the problems of a patient on diseases .The expert system solves problems of patient and gives possible diseases by taking symptoms from the patient.   
Identification of the diseases by the expert system leads to better handling for the practitioner in beginning stages it is computerized system that will be easier to handle by the user. The system takes thesymptoms data from the patient and gives the possibilities. The prescription is given as per the data in the database.

2. OVERALL DESCRIPTION

Expert or knowledge-based systems are the commonest type of AI systems in routine clinical use. They contain medical knowledge, usually about a very specifically defined task, and are able to reason with data from individual patients to come up with reasoned conclusions. Although there are many variations, the knowledge within an expert system is typically represented in the form of a set of rules.

Machine learning systems can create new medical knowledge Learning is seen to be the quintessential characteristic of an intelligent being. Consequently, one of the driving ambitions of AI has been to develop computers that can learn from experience. The resulting developments in the AI sub-field of machine learning have resulted in a set of techniques which have the potential to alter the way in which knowledge is created.

## Project Statement :-

Machine learning systems can be used to develop the knowledge bases used by expert systems. Given a set of clinical cases that act as examples, a machine learning system can produce a systematic description of those clinical features that uniquely characterise the clinical conditions. This knowledge can be expressed in the form of simple rules, or often as a decision tree.

There are many different types of clinical task to which expert systems can be applied. Diagnosis expert system is one of them.

**Diagnostic Assistance:-**

When a patient's case is complex, rare or the person making the diagnosis is simply inexperienced, an expert system can help come up with likely diagnoses based on patient data.

By the project Symptom checker Expert System the practitioner can know the disease which is caused. it obtained by submitting the data from patient.

In the project the patient should submit the symptoms. The actual data should be given by the patient. The data taken by expert system while taking inputs and describes the type disease caused to the patient.

By this expert system the patient can know the actual problem what it is ?.

Therefore this Symptom checker Expert System is very useful to the patient to know the actual disease is before approaching the clinic.

### **This** **expert system that includes the diseases such as :-**

* Flu.
* Allergy.
* High Fever.
* Mild Fever.
* Measles.etc.

**This expert system that takes the data from patient :-**

* Asks patient’s symptoms.

By taking certain data from the patient and the disease is given.

That’s all about Symptom checker Expert System.

**3. REQUIREMENTS**

a) Java

b) Drools

c) Eclipse Ide

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