

# 3SP– Searching the Symptoms and Suggestions about Prolotherapy

K. Muthulakshmi<sup>1</sup>, Shanmugapriya .E<sup>2</sup>, Sneha Priya .K<sup>3</sup>, Sneha Varsa .P .V<sup>4</sup>, Marthini Prasana .R<sup>5</sup>

<sup>1</sup>Assistant Professor, Grade 1

<sup>2</sup>Panimalar Engineering College

**Abstract:** *In this work, searching the symptoms and suggestions about prolotherapy is the android application which is a useful app for the users to the submitted symptoms. It consists of user and the doctors. The doctor adds the symptoms for each and every disease. Also, nearby hospitals and doctors are provided, so treatment can be given easily to avoid severe problems.*

**Keywords:** Vaccination levels, Immunity, Bone treatments, Musculoskeletal pain, Enthesopathies

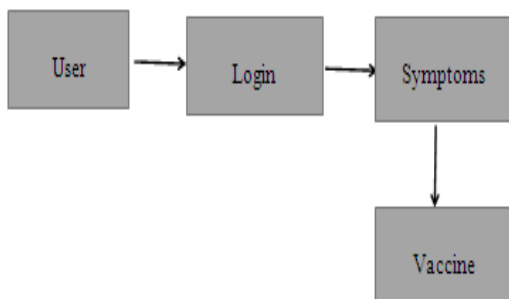
## 1. Introduction

Prolotherapy is a rehabilitation of an incompetent structure of ligament or tendon, by the induced proliferation of new cells. Most Prolotherapy treatment involves the injection of solutions at the fibro-osseous junctions or enthesis at which the point of tendons and ligaments attach to the bone, to induce an inflammatory reaction. This induction of inflammatory healing cascade will initiate the regeneration and repair of the injured tissues in and around the joint as well as stabilizing and eliminating the sources of most musculoskeletal pain. Prolotherapy is an ideal treatment for chronic skeletal pains, sprained, injured or ligaments in some conditions such as joint instability involving the peripheral and spinal joints tissues in and around the joint as well as stabilizing and eliminating the sources of most musculoskeletal pain. Prolotherapy can be an ideal treatment for chronic musculoskeletal pain caused by sprained, injured or torn tendons and/or ligaments in such conditions as joint in stability, ligament laxity and tendinopathy including tendinosis; as well as other conditions such as enthesopathies and degenerative osteoarthritis involving the peripheral and spinal joints.

## 2. Modules

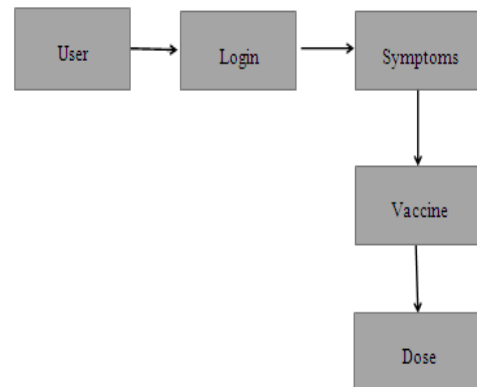
### View vaccination level

After getting suggestion based on the symptoms, the user can get symptoms, can get an idea about their health condition. So based on that he/she will take the vaccine suitable for his health.



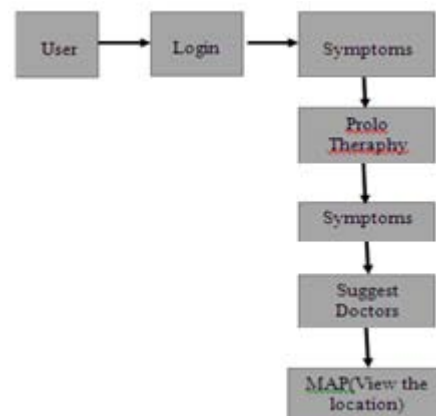
### View suggested diseases

User will view all the diseases so that he/she will see all the symptoms after that whatever symptoms are matching for their health condition he/she will analyze and they will get treatment for that particular disease.



**Add vaccination level:** Doctors add the vaccination level for the disease based on the disease and for that particular disease they will suggest the duration for each and every vaccine.

**View nearby hospitals & doctors:** After getting information regarding vaccine and then they will get all details of the hospital and corresponding doctors for those particular symptoms matching for the patient.

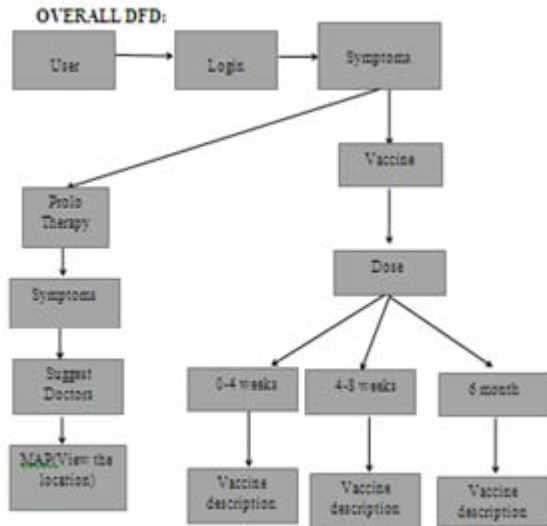


**Add symptoms & disease:** In this, diseases which are existing and what are the symptoms that will cause that particular disease, based on this admin will add all the details.

**Add nearby hospitals & doctors:** In this Hospital will register and that will automatically add database and also the same doctor will have registration and then they will Login and by this, we can add hospitals and Doctors.

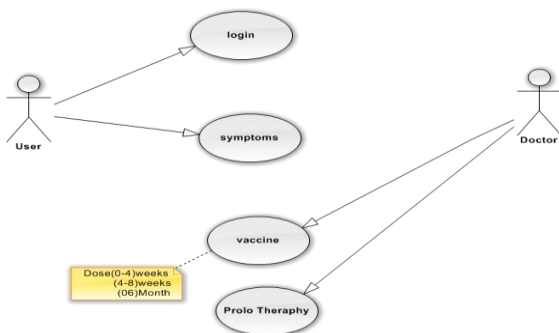
### 3. Data Flow Diagram

A data flow diagram is a graphical tool which is used to describe and analyze the movement of data through a system. These are the central tools and the basis from which other components are developed. The transformation of data from input to output may be described logically and independent of physical components associated with systems. The physical data flow diagram shows the actual implementation and transformation of data between people, departments, and workstations.

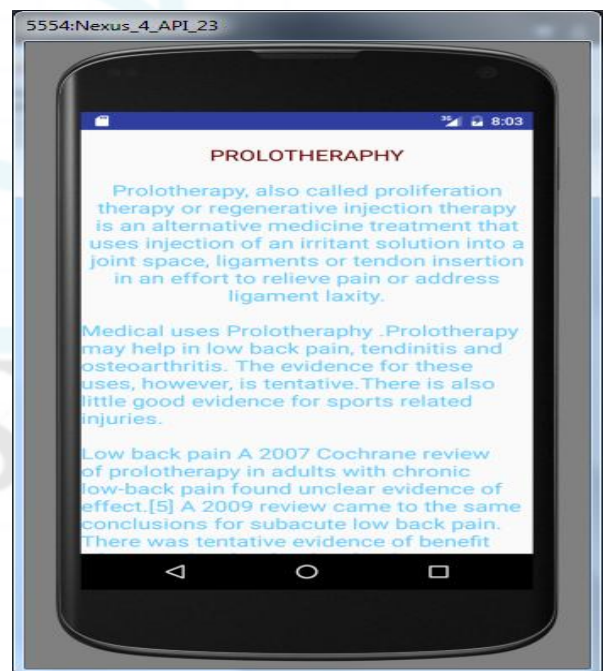
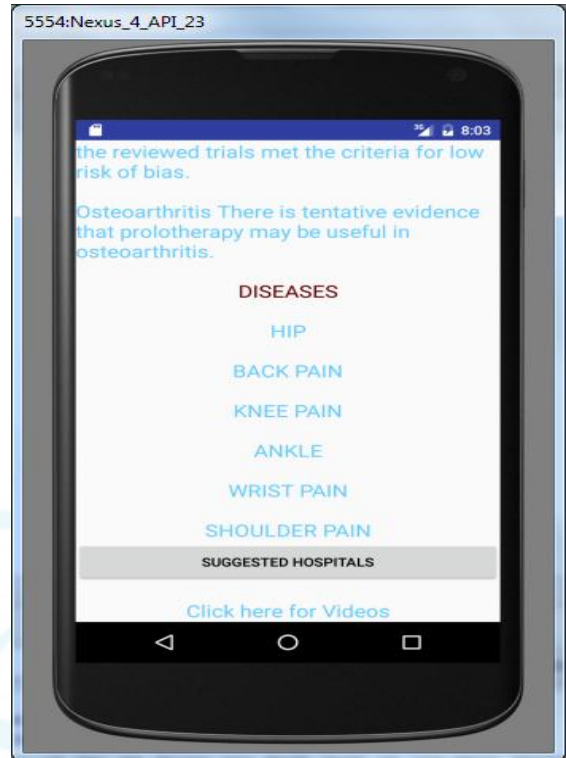


### Use Case Diagram

Use cases are the scenarios for understanding system requirements. A use case is an interaction between users and a system. A Use case diagram captures Case actors and interactions. Outside things interact at the system boundary and the response of the system. A use case may have a name, although it is typically not a simple name. It is often written as an informal text description of the actors and the sequences of events between objects.



### 4. Results



### 5. Conclusion

We have discussed the project flow and the architecture of searching the symptoms and suggestions about prolotherapy. That how the doctor adds the symptoms and disease and how the user views the suggested disease for the submitted symptoms. Through this application, it is proved that this is the application which is useful for the users to reveal their location details to their friend are family members immediately.

## References

- [1] Rabago, D., Slattengren, A., Zgierska, A. Prolotherapy in primary care practice. *Prim Care*. 2010;37:65–80.
- [2] Dagenais, S., Ogunseitan, O., Halderman, S. et al, Side effects and adverse events related to intraligamentous injection of sclerosing solutions (prolotherapy) for back and neck pain: a survey of practitioners. *Arch Phys Med Rehabil*. 2006;87:909–913.
- [3] Rabago, D., Best, T.M., Zgierska, A.E., Zeisig, E., Ryan, M., Crane, D. A systematic review of four injection therapies for lateral epicondylitis: prolotherapy, polidocanol, whole blood and platelet-rich plasma. *Br J Sports Med*. 2009;43:471–481.
- [4] Jensen, K., Rabago, D., Best, T.M., Patterson, J.J., Vanderby, R. Response of knee ligaments to prolotherapy in a rat injury model. *Am J Sports Med*. 2008;36:1347–1357.
- [5] Alfredson, H., Ohberg, L. Neovascularisation in chronic painful patellar tendinosis: promising results after sclerosing neovessels outside the tendon challenge the need for surgery. *Knee Surg Sports Traumatol Arthrosc*. 2005;13:74–80.

