6. Discussion

There are so many methods to create a dynamic web application. Among them we have to use Java beans, Java Servlets and Java Server Pages (JSP) using the NetBeans IDE. Here we chose Java beans and Java Server Pages (JSP) and the NetBeans IDE 8.0.2 for the implementation of our application.

Because JSP easier to maintain than servlets. Also, pages can be directly accessed. Writing code for servlet is harder than JSP as it is html in java but JSP is easy to code as it is java in html. Modification in Servlet is a time-consuming task because it includes reloading, recompiling and restarting the server. But JSP modification is fast, just need to click the refresh button. So that we chose Java Server Pages (JSP) for our medical web application.

Here we faced some troubles when implement the application. Here we used **Glassfish** server for run this web application. For that we had to install and run the Glassfish server on our computer. There are some issues with installing Glassfish server and we solved them by using google instructions and YouTube video instructions.

When we used the Internet Explorer as the Browser there were some issues with some html tags. Therefore, we have to change the Browser to Google Chrome and check it. After that bugs were fixed.

When coding we have to familiar to JSP tags. Because JSP tags embed to HTML tags. Also, we used Java Bean class to get user inputs to SQL query.

In this system any patient user can register to the application providing their NIC number and his/her personal data. But when user is doctor, he/she has to provide valid Doctor ID for the registration. For that we create a table for save valid Doctor IDs and names in Sri Lanka. Here this table is used for validate the doctor before doctor registration.