ABSTRACT

In medical, all information about health like medical history, patient's examination results, patient's medical treatment, and others medical services are saved in one file called Medical Record. Nowadays, most of medical service provider using a paper as a media to record all information about patient's medical record. This implementation has some lack such as need more storage room because a paper has physical form which is need more storage room if there are too many of them. In the other case, this method need more time in some case when the practitioner wants to find the file because practitioner will search the file by their own hand (manually). This problem can be prevented by build some system or application like electronics medical record. Beside that, by using EMR could be supported to medical record data exchane .This research has an objective to build an Electronic Medical Record Information System which is it would be supported to implement medical record data exchange. In this research, FHIR is used for medical record data exchange standard. This research has three phase, they are Identification Phase, System Development Phase, and The Conclusion Phase. This application is website based which is using some of programming language like PHP, HTML, CSS and use MySql for database management. This application will do some test using blackbox testing. The final result of this research is an electronic medical record application for outpatient treatment and API to support medical record data exchange.

Keywords: Medical Record, EMR, FHIR, Scrum