PROJECT INFORMATION FORM

1.Team No: 13

2.Project Title: **COMPUTER BASED PATIENT RECORD INTEGRATION**

3.Team Details:

S.no	Student I'd	Student Name
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4.Problem Statement:

Currently, some of the hospitals in India have established their own CPR (Computer-Based Patient Record) systems. Under the trend of Internet globalization, how to integrate and share heterogeneous CPR has become one of the main problems that medical information construction faces. This project not only helps in giving the CPR to the hospitals which have not established CPR yet but also integrates all the CPR's together eliminating heterogeneity between all the hospitals and the data of the patients providing a good basis for achieving the sharing of CPR data.

Patient records these days have become very crucial to know the medical history of the patient. The problem occurs when different hospitals consist of heterogenous medical records which are not available in the records of the hospital other than the current one in which the patient was treated. Once all the hospitals have integrated patient records, result of all tests in digital form and the medical history of the patient in one place and accessible to all hospitals, it not only makes the diagnosis and the treatment faster but the hospitals can take more caution while putting the patient on certain medicinal dosage. This helps the hospitals work faster, the patient understands their own medical history and both can avoid unnecessary tests which helps reduce cost.

5.Source of Project (References):

- "Computer-based patient record data integration method based on ontology" by Cai Xiufen, Xu Yabin in 2011at IEEE International Symposium on IT in Medicine and Education.
- Li Na. Research on Information Integration Platform for Electronic Health Records Based on the third Party [D]. Hefei University of Technology, 2008.
- Wu Hao, Xing Guifen. Research on Technology of Information Integration Based on Ontology [J]. Computer Applications. 2005, 25(2): 456-458.
- Wang Yuan, Lu Zhengding, Chen Yu. An Ontology-Based Approach to Data Integration[J]. Computer Engineering & Science.2005, 27(6): 67-69.
- Yao Fang. Research on Electronic Patient Record Knowledge base Based on Ontology [D]. Xidian University, 2009.

6.Outcome:

The outcome of the project is a web application developed using Python language and Natural language processing in Replit or Visual studio code environment. Deployment is done in Replit with the help of flask.

7.What are parameters consider for project evaluation

- Integrates existing CPR Models to avoid heterogeneity.
- Finding solutions to optimize current patient registration details.
- Summarizing patient's health for faster response of treatment.
- 2fa authentication for security
- Medical record encryption and compression for privacy

8.Development Environment:

Windows OS, Python, SQL, Visual Studio Code, Flask.

Signature Team Members: **Signature of Supervisor:**

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