**CONCLUSION AND FUTURE WORKS**

In this paper, we proposed a secure cloud-based EHR framework that guarantees the security and privacy of medical data stored in the cloud, relying on hierarchical multi-authority CP-ABE to enforce access control policies. The proposed framework provides a high level of integration, interoperability, and sharing of EHRs among healthcare providers, patients, and practitioners. In the framework, the attribute domain authority manages a different attribute domain and operates independently. In addition, no computational overhead is completed by the government authority, and multi-factor applicant authentication have been identified and proofed. The proposed scheme can be adopted by any government that has a cloud computing infrastructure and provides treatment services to the majority of citizen patients. Future work includes implementing and evaluating the proposed scheme in a real-world environment.