**SECURE MEDICAL TRANSCRIPTION**

2022

**USING BLOCKCHAIN**

**REVIEW - II**

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**INTRODUCTION**

Blockchain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network. It provides immediate, shared and completely transparent information stored on an immutable ledger that can be accessed only by permissioned network members. Record-keeping systems can be vulnerable to fraud and cyberattacks. Blockchain can be used to securely store the records over the distributed network and these records can be accessed by network members to whom we have granted access.

**PROBLEM DEFINITION**

Medical data are sent to third party organization for medical transcription. Since data are passed through third party, there is a possibility of data theft. Chances of causing errors in the medical record is high. It is also expensive and time-consuming task.

**PROJECT OBJECTIVE**

To develop a web application to automate medical transcription through speech API and to securely store the medical transcription record using Blockchain.

**PROJECT OVERVIEW**

The major modules present in this project are

* Medical Transcription process
* Storing the medical record

**Medical Transcription process**

As soon as the web application is loaded, the user has to upload an audio file and click Transcribe button. When Transcribe button is clicked, the audio file is converted to text file using speech API.

**Storing the medical record**

After medical transcription process, the medical record is securely stored using Blockchain across distributed network. The medical record can be accessed only through a credential ID.

**ABOUT ORGANIZATION**

**Organization Name:** Orion Innovation

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**About:** Orion Innovation is a leading digital transformation and product development services firm. Headquartered in Edison, NJ, we have a global team of over 6,000 associates, with engineers in 13 major delivery centers across North America, Europe, Asia and Latin America. For over 25 years, Orion has been solving complex business problems for our clients. Our transformative business solutions are rooted in digital strategy, experience design, and engineering, empowering our clients to operate with agility at scale.