

# SEMRS: Secure Electronic Medical Records System

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# Summary of SEMRS

- Motivation - Why we chose this project?
  - Record backup
- Problem - What we are solving?
  - Identity theft
  - Delay or hinder treatment progress
- Solution - How we are fixing it?

# Medical Databases Overview

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- Healthcare world moving away from paper records.
- Patient confidentiality > National priorities
- How private are these records and who has access ?



# History of Past EMR Systems

- Earliest dates back to 1995; VistA
- Few web enabled EMR systems:
  - ZEPRS - 2001
  - OpenEMR – 2001
  - THIRRA - 2007

# How SEMRS is Different?

- Simply a backup, not meant to replace paper files.
- Much simpler than OpenEMR, took out many unneeded features.
- Onsite Access through intranet (LAN).

# Concepts Incorporated from OpenEMR

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- Patient records encrypted.
- User access controls.
- Remote access from a web browser.

# Where We are Today

- Successfully login as:
  - Administrator
    - Add users
  - Physician
    - Add patients
- Search patients.

# What Still Needs to be Done

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- Successful Login for all User Account types.
- Encrypting information in database.
- Associate images with patients by storing patient photos on server file system.
- Audit (Log) Table.





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