Secure File Storage System with Encryption and Role-Based Access

D. Sandhya Rani[1], Bejjanki Pooja[2], B. Aditya[3]
Banda Architha[4], Munige Sai Nikhil[5], Nagunuri Chandu[6]
Assistant Professor, Department of CSE[1,2,3]
UG Student, Department of CSE[4,5,6]
CMR Technical Campus, Hyderabad, Telanagana, India
davu.sandhya@gmail.com, poojareddybejjanki@gmail.com, Adi.sacs@gmail.com
archithabanda2005@gmail.com, sainikhilbts7@gmail.com, chandunagunuri6353@gmail.com

Abstract: *We live in a world where people share a lot of information online. This is why it is very important to keep our files safe and only let the right people see them. The Secure File Storage System project is about building a system that protects our data with encryption and makes sure only the right people can access it. Users can upload, store and get to their files safely. The Secure File Storage System gives people roles like Admin, Manager or Employee. They can only do things that their role allows. We use an encryption method called AES-256 to keep the files safe. We also use HTTPS to protect the data when it is being sent. The Secure File Storage System only lets people do what they need to do which helps keep everything safe. It also has a panel for the admin to manage users, roles and see what people are doing. All the things people do on the Secure File Storage System like logging in and getting to files are recorded so we can see what is happening and keep everything secure.*

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