A PROJECT REPORT

on

"CLOUD MAKER"

submitted by

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Seat No :-

in partial fullfillment for the award of the degree

of

BACHELOR OF SCIENCE

in

COMPUTER SCIENCE

under the guidance of

Mrs. Swetha Iyer

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By **Vikas Kushwaha**,

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DECLARATION

I **Vikas Kushwaha** hereby declare that,

The project entitled **"CLOUD MAKER"** submitted in the partial fulfillment for the award of Bachelor of Science in Computer Science during the academic year **2023 - 2024** is my original work and the project has not formed the basis for the award of any degree, associate ship, fellowhip or any other similar titles.

Signature of the Student:

Place:

Date:

PLAGARISM REPORT

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INTRODUCTION

TITLE OF THE PROJECT: CLOUD MAKER

SYNOPSIS:

A cloud storage in distributed fashion.

This system is intended to be an alternative to online storage proveders like Google Drive. It's a distributed model where the user physically owns the resources in his/her own house. Unlike centralised cloud providers, the user is given a small computing device, preferrably an SBC like Rasberry Pi which acts as an 'Endpoint Device' and a gateway to access user's various media devices like Pen Drives, Hard Drives, Memory Cards, and any other sotrage media that can potentially interface with the Endpoint Device (Rasberry Pi, in our case.)

The user is intended to connect his Endpoint device using a Web Proxy which will be automatically setup acting as a Internet Gateway to his Endpoint Device. The Rasberry Pi will be primary product for the user that will act as a Cloud Storage Provider. He can access this Cloud Storage from any computer that has an Internet Connection. The user will be provided with a Web Interface from where he can view and manage all his Files and Folders.

REQUIREMENT SPECIFICATION

1. **Hardware Requirements:**

   For Endpoint Server,

   - Rasberry PI Model B+ or newer

   - 16GB Memory Card

   - External Storage Drives of User Preferred Size

   For Client Device,

   - Connection to Endpoint Rasberry Pi Server (LAN / WAN)

2. **Software Requirements:**

   For Endpoint Server,

   - OS: Debian Raspi Linux

   - Shell: Bash

   - Programming Language: Go

   For Client Device,

   - Any OS with latest Web Browser

SYSTEM IMPLEMENTATION

RESULTS

CONCLUSION

REFERENCES