AGGREGATION SERVER CONTENT SERVER - REQUEST HAVOLER FILEREADER - DATASTORAGE DATA VALIDATOR - LAMPORTLLOCK PUT -PUT REQUESTSENDER - EXPORY HAVOLER REQUEST - HANDLE REQUEST () - READ FILE() - STORE DATA () - VALLIDATE DATA() - SENDPUTREQUEST() - update Lamport (Loux () - REMOVE STALE DATA () GET REQUEST CLIENT -REQUEST SEMPER RESPONSE PARSER - DATADSPLAY -sero(ETREQUEST() - PARSE REPORTE ()

- OBSPLAY DATA ()



-WCTIONS/COMPONENTS

CLIENT:

- DISPLAY: weather data

- REQUEST: get > AS MUMMING PAISE: JSON

- HANDLE : errors

MODULES: - REQUEST SEMER

- RESPONSE PARSER

- DATA DISPLAYER

ACCRECATION SERVER

NELIEVE: Accept weather data in JSON Sorreal Part) SEND: Provide readher date (GET)

REMOVE: autdoted dota

ENGURE: consident clock hadling (lumport)
MANAGE: invalid requests, severcrodes, clear decomands

MODULES: - DATA STORE

- REQUEST HAMLER

- SYNCHROMASATION MODULE

- DATA EXPERY HANDLER

CONTENT SERVERI

- SEND: weather data: put -> AS

- READ: weather data files

- VALIDHE: ensure format & rakes correct

before send

MODULES: - FILE READER

- VALADATOR

- REQUEST SENDER

SMICHRONISATION

- Use reentant locks in sections with shored resource access

- Use throughput to manage client requests

- Respect lamport clock ordering for PVT requests

DATA FLOWS

PUT: CONTENT

ACCRECATION

Read file
Come+10000 M PUT > Process/Store
Clota

ACICHOVIECE

GET:

CLIENT CET AGRECATION > retnere betotilata

convert to USON DISPLAY - DATA -SEMD

SERVER KEPLICAS:

ACTIVE - PASSIVE REPLICATION:

- Synchronsod backup religious

- Take over it prinary fails - Lamport clocks synchronize

data auros repiros