Distributed File System using FUSE

PROJECT:

1. **PROJECT TITLE: DISTRIBUTED FILE SYSTEM USING FUSE**
2. **PROJECT DESCRIPTION: Implementation of a DFS using a FUSE based backend, that provides replication, location transparency among other features**
3. **TEAM MEMBERS: Gautam Worah (gworah), Pardhakeswar Pacha (ppacha), Tapas Mallick (trmallic)**

DELIVERABLES:

1. **A master slave architecture with data replication across clients to provide Availability, Reliability**
2. **Location transparency for data access across geographically distributed storage servers**
3. **Network transparency to provide data even if one node or connection fails**

DEPENDENCIES:

1. **Python FUSE for implementing low level file operations**
2. **RPC Protocol for file transfer across servers and clients**

ISSUES:

1. **Mounting remote filesystem using FUSE**
2. **Providing integrity of data across multiple clients**
3. **Maintaining a map of data v/s location where it is stored**

GitHub: https://github.ncsu.edu/gworah/CSC-568Project