***Project Report***

Design and Implementation of FTP Server

**Course:**  *Internet Applications*

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# Overview

* Target

The target of this project is mainly to help students understand FTP and its command. Let student familiar and master methods for completing communication between client and server.

* Requirement

a. Implement an FTP server program

b. Use FTP command as client to complete communication between client and server

c. Complete communication between client and server

d. Capture information by Wireshark

# Requirements Analysis

The requirements of the project are analyzed here, including:

* + Development Environment, such as OS and programming language
  + Functional requirements in details, including task decomposition and analysis

**2.1. Development Environment**

**2.2. Functional Requirements**

# Preliminary Design

**3.1 Modules**

* + position of functional modules
  + Relationship and interfaces between the modules

**3.2 Overall Flow chart**

* + Overall flow chart

**3.3 Design of Data Structure**

* + Design of data structures

# Detailed Design

**4.1 Design Analysis**

Design analysis of each module

* Create connection
* …
* Present current directory (PWD)
* Chang directory (CWD)
* List a directory (LIST)
* Create a directory (MKD)
* Delete a file (DELE)
* Rename a file (REFR/RNTO)
* Download and upload file in active mode
* Download and upload file in passive mode
* Display user’s information

**4.2 Flow chart of each module**

* + Flow chart of each module

# Results

Show the execution results with Screen Shot.

* Result from Client & Server screen
* Result from Wireshark Capturing

# Summary and Conclusion

Specify how you divide jobs between team members and your jobs in the project. Self-evaluation of your work is given here, including future improvement.