

Lab 2 Manual

Multithreaded HTTP Server Implementation

Objectives:

1. Implement a multithreaded HTTP server
2. Demonstrate race conditions and thread-safe solutions
3. Implement rate limiting with sliding window algorithm

Prerequisites:

- Understanding of HTTP protocol
- Knowledge of threading concepts
- Python programming experience

This manual provides step-by-step instructions for completing Lab 2 of the Protocols and Regulations course.