**Coding Assignment: File Server and CLI Implementation**

**Objective:**

The goal of this assignment is to assess your ability to design and implement a file server that can be run in a Docker container. Additionally, you will create a command-line interface (CLI) to interact with the file server. This assignment will test your skills in server development, containerization, and CLI tool creation.

**Task Description:**

1. **File Server Implementation**:
   * Develop a file server that supports the following operations:
     + **Upload File**: Allow users to upload files to the server.
     + **Download File**: Enable users to download files from the server.
     + **List Files**: Provide a list of all files stored on the server.
     + **Delete File**: Allow users to delete files from the server.
   * The server should be able to handle multiple concurrent requests efficiently.
   * Ensure proper error handling and validation for each operation.
2. **Docker Containerization**:
   * Containerize the file server using Docker.
   * Provide a Dockerfile that specifies the environment and dependencies required to run the server.
   * Ensure that the server can be easily started and stopped using Docker commands.
3. **Command-Line Interface (CLI)**:
   * Implement a CLI tool that interacts with the file server.
   * The CLI should support the following commands:
     + upload <file\_path>: Upload a file to the server.
     + download <file\_name>: Download a file from the server.
     + list: List all files stored on the server.
     + delete <file\_name>: Delete a file from the server.
   * Ensure that the CLI provides clear and informative feedback to the user for each operation.

**Submission Requirements:**

* Provide the source code for the file server and CLI tool.
* Include a README file with instructions on how to build and run the Docker container, as well as how to use the CLI tool.
* Ensure your code is well-documented and follows best practices for readability and maintainability.

**Evaluation Criteria:**

* **Functionality**: The file server and CLI tool should work as specified and handle edge cases gracefully.
* **Code Quality**: Code should be clean, well-organized, and follow best practices.
* **Documentation**: Clear instructions and documentation should be provided.
* **Efficiency**: The server should handle multiple concurrent requests efficiently.
* **Creativity**: Any additional features or improvements will be considered a plus.