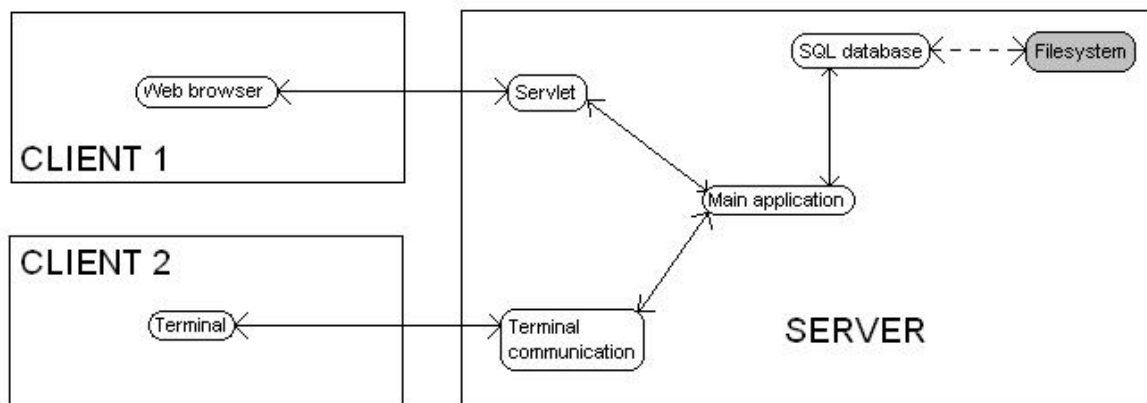## 2.2 – Overall architecture description

Our system consists of a main application that runs on a server, to which you can connect with either a command terminal client (Client 2), or a web browser via a servlet (Client 1).
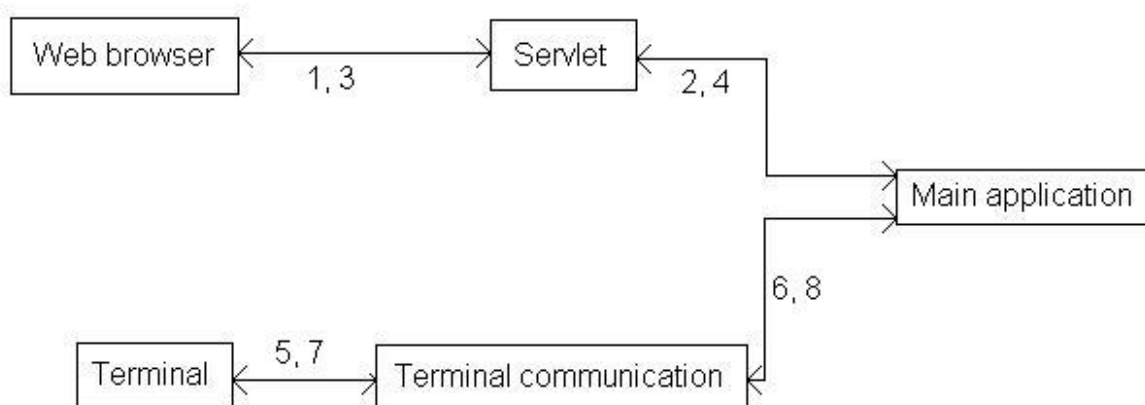The server system consists of a main application that handles the communication with the clients, and also store data using a SQL database.
It's the main application that verifies that the input from the clients is correct.

Client 1 is a webpage that sends the commands to the main application via a servlet. The user can use any standard web-browser to view this webpage.

Client 2 is a text-based java program that you can download and run in a terminal on your computer.

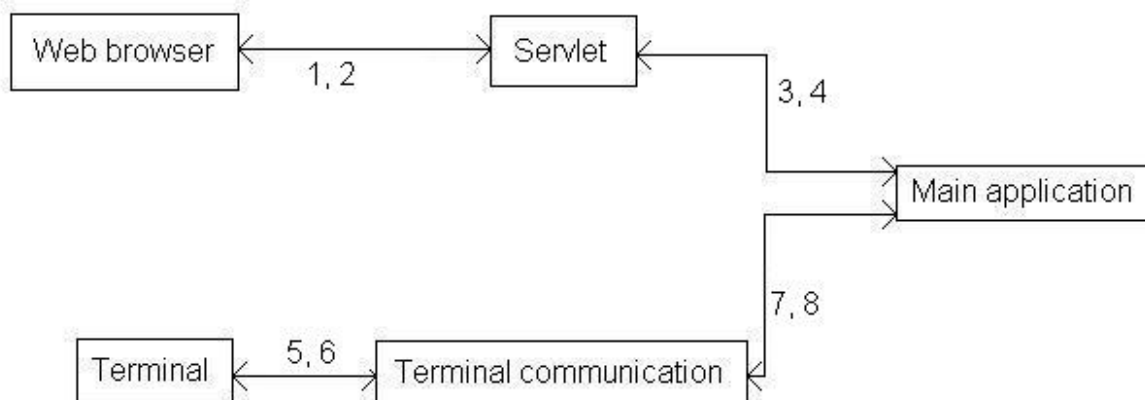## 2.3 – Detailed architecture

Dataflow client

1. The web-browser can send login information to the servlet

2. The servlet can send login information to the main application
3. The servlet can send/retrieve data to/from the web-browser.
4. The servlet can send/retrieve data to/from the main application.
5. The terminal can send login information to the terminal communication program on the server
6. The terminal communication program can send login information to the main application.
7. The terminal communication program can send/retrieve data to/from the terminal.
8. The terminal communication program can send/retrieve data to/from the main application.

Dataflow server

1. The main application can store or retrieve data from the SQL Database
2. The SQL Database can store and read files from the server file-system.

Control flow client

1. The web browser can ask the servlet to create a webpage that display some specific information.
2. The web browser can tell the servlet what data to alter, or add to, the system.
3. The servlet can ask the main application for information to send to the web browser.
4. The servlet can tell the main application what data to alter.
5. The terminal program can ask the terminal communication program at the server for data.
6. The terminal program can tell the terminal communication program at the server what data to alter.

7. The terminal communication program can ask the main application for data to pass on to the terminal client.
8. The terminal communication program on the server can tell the main application what data to alter.

Control flow server

1. The main application can send queries to the SQL database about what data to retrieve.
2. The main application can send queries to the SQL database about what data to alter or add to the system.
3. The SQL database can write to and read from files in the server filesystem