

# # Java Socket Chat Application Documentation

## ## Overview

This document outlines the implementation of a simple chat application using Java's `Socket` and `ServerSocket` classes.

## ### Main Components

1. **Server Class**: Listens for incoming connections from clients.
2. **Client Class**: Connects to the server and sends messages.

## ### Code Walkthrough

```
```java
```

```
import java.io.*;
```

```
import java.net.*;
```

```
public class Server {
```

```
    public static void main(String[] args) throws IOException {
```

```
        ServerSocket serverSocket = new ServerSocket(6666);
```

```
        Socket socket = serverSocket.accept();
```

```
        DataInputStream input = new DataInputStream(socket.getInputStream());
```

```
        DataOutputStream output = new DataOutputStream(socket.getOutputStream());
```

```
        while (true) {
```

```
String received = input.readUTF();

System.out.println("Client: " + received);

output.writeUTF("Message received");

output.flush();

}

}

}

...

```

The server listens for client connections and responds to messages.