

# Remote Desktop System

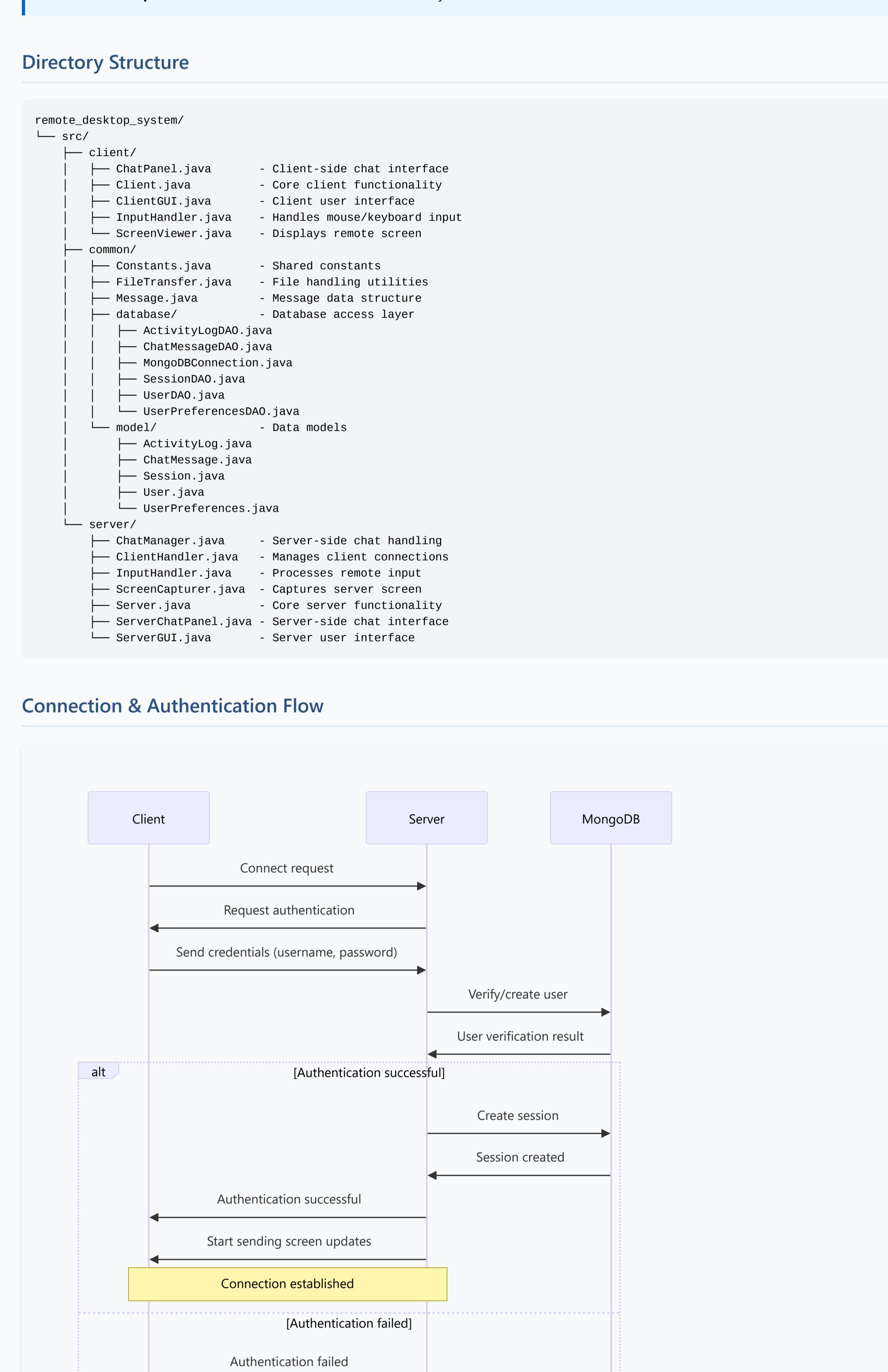
## Architecture & Component Flow Diagram

# System Architecture

The diagram illustrates the High-Level Architecture. It features a large yellow rectangular box labeled "Client System". Inside this box, there is a purple square labeled "Client". Three blue curved arrows originate from the "Client" box and point towards the right side of the slide, representing the flow of data or requests from the client to external systems.

```
graph TD; Server[Server] <--> ServerGUI[ServerGUI]; Server <--> ChatManager[ChatManager]; Server <--> InputHandler[InputHandler]; Server <--> ScreenCapturer[ScreenCapturer]; Server <--> ClientHandler[ClientHandler]; ClientGUI[ClientGUI] --> CC[Common Components]; InputHandler --> CC; ScreenViewer[ScreenViewer] --> CC; CC[Common Components] --> MongoDB[MongoDB Database]; MongoDB[MongoDB Database] --> DataModels[Data Models]; MongoDB[MongoDB Database] --> DAO[Data Access Objects]
```

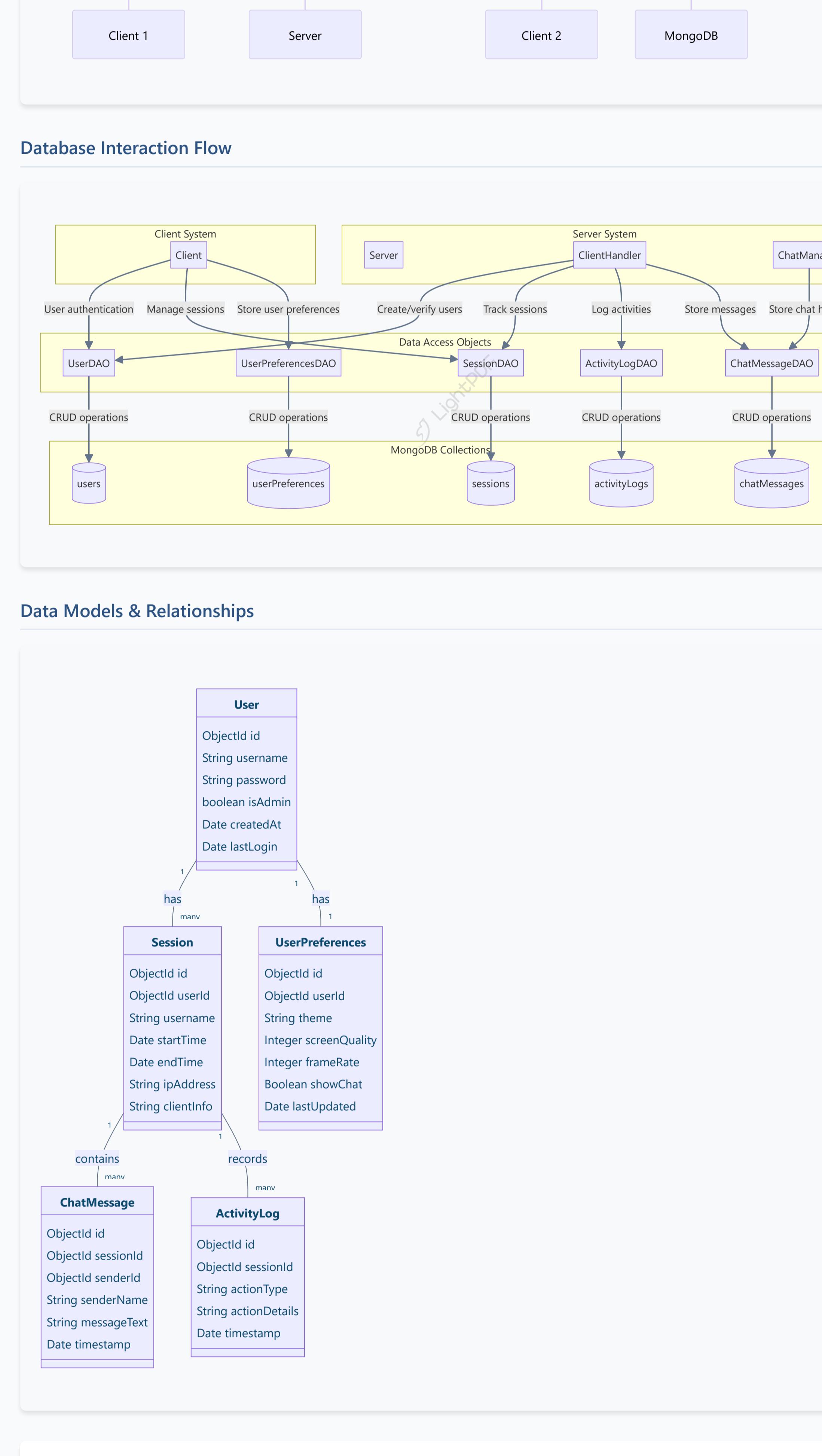
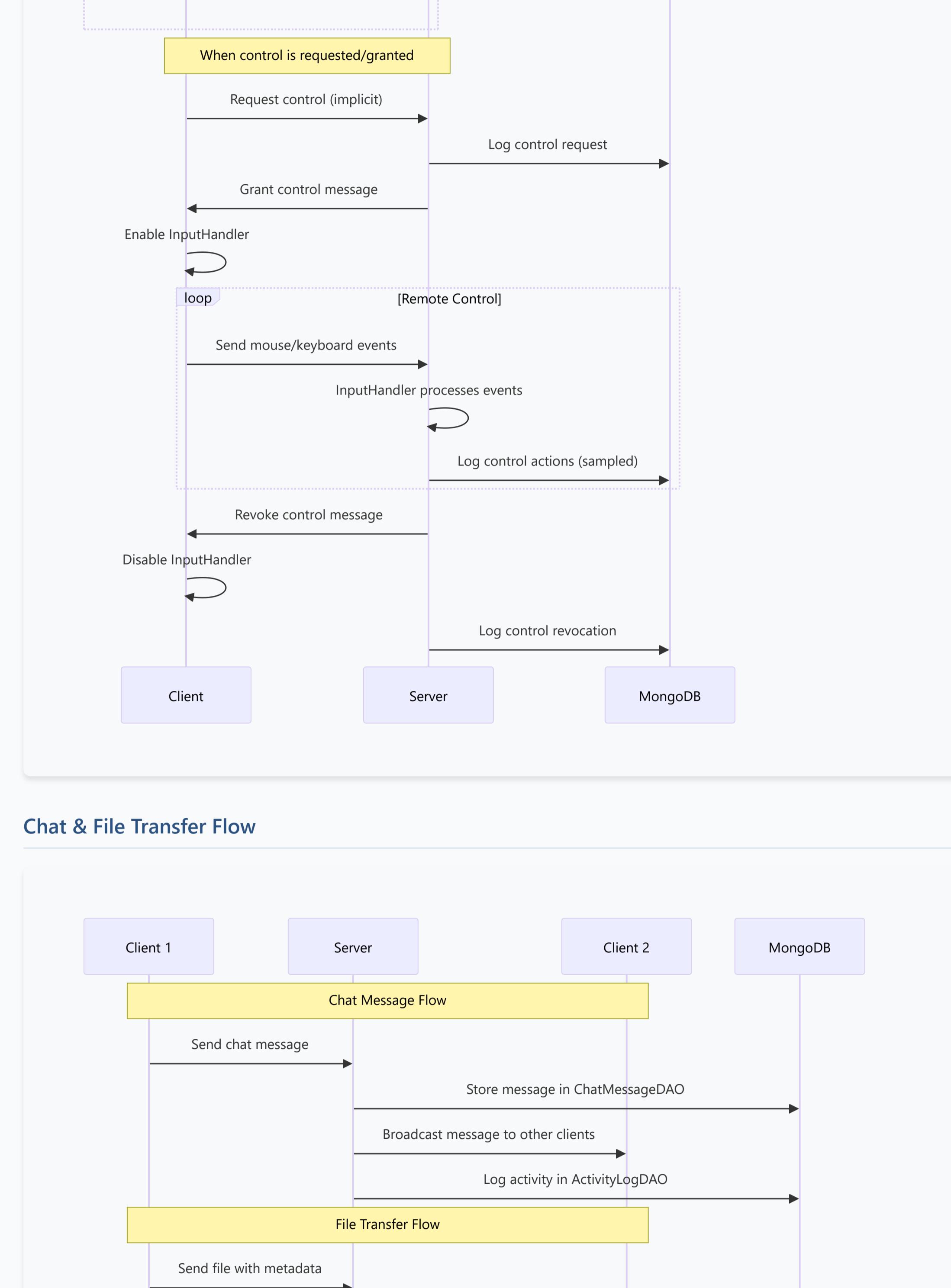
- **Client System:** Handles user requests
- **Server System:** Manages data flow
- **MongoDB Database:** Stores data



- The diagram illustrates the flow of screen sharing and remote control between a Client and a Server. The Client is represented by a light purple rounded rectangle, and the Server is also represented by a light purple rounded rectangle. A vertical line connects the Client to a yellow rectangular box at the bottom. Another vertical line connects the Server to the same yellow box. The text inside the yellow box is "ScreenCapturer continuously captures screen".

```
graph TD; Client[Client] --- Line1[ ]; Line1 --- Box[ScreenCapturer continuously captures screen]; Box --- Line2[ ]; Line2 --- Server[Server]
```

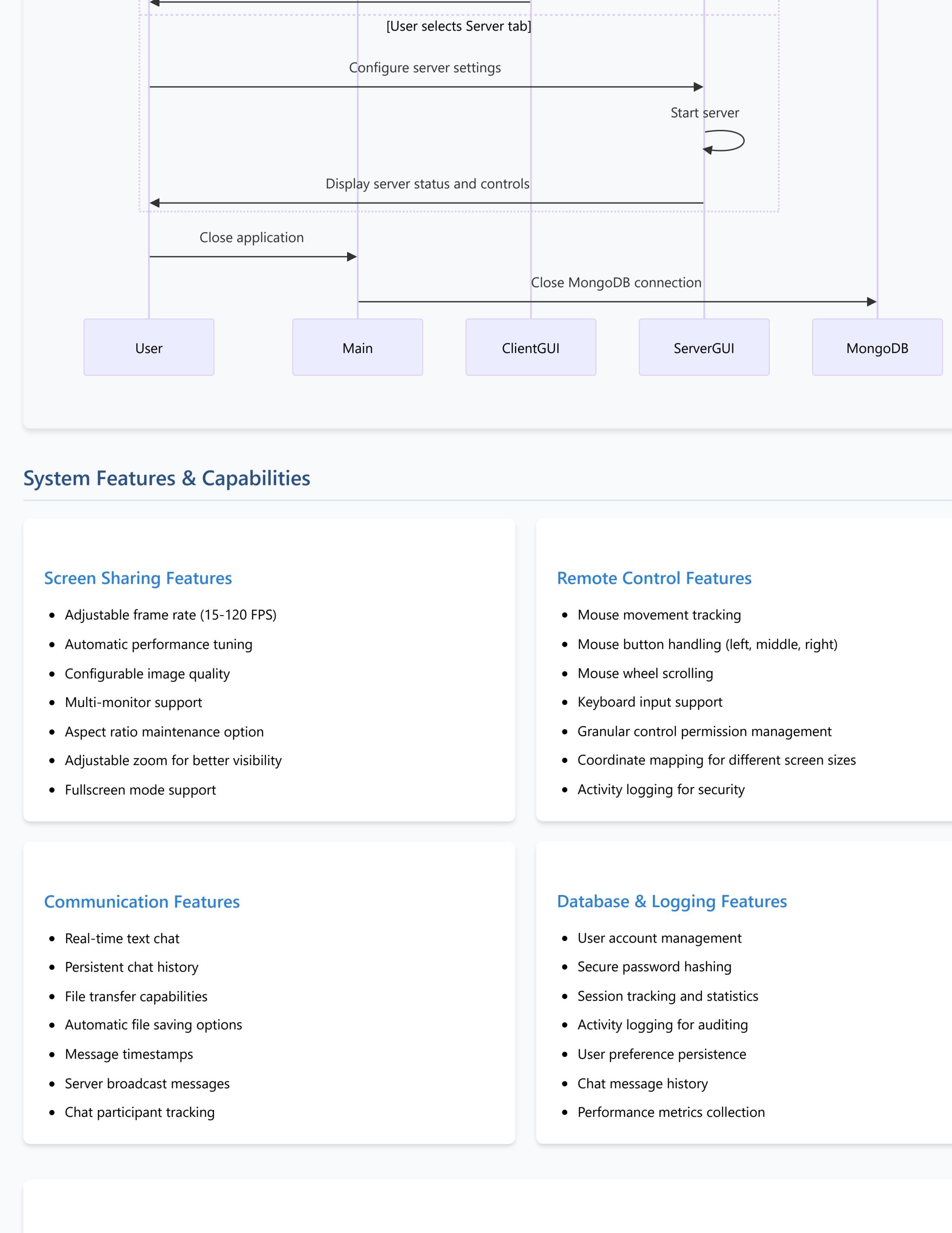
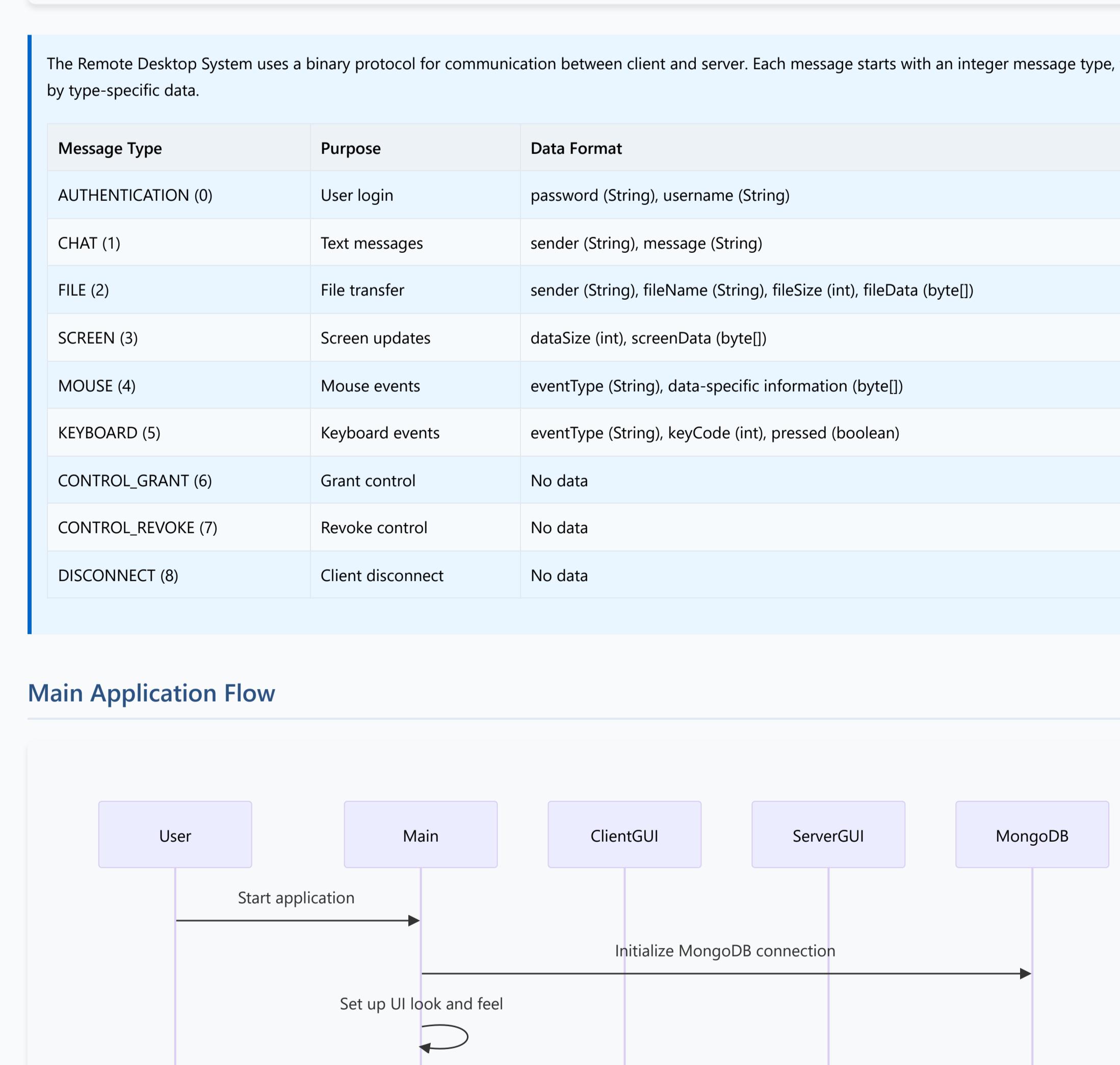
Display screen



Component	Description
Client	Core



Synt  
mermaid



- Automatic resource management
- Dynamic frame rate adjustment based on user interaction
- Image compression optimization
- Proper thread management for concurrent rendering

