Project: Laser Pointer

CS397C

Group 6

Notes:

Notes:

List of External API's Used

- Node.js - Server-client communication
- MongoDB - Database
- Socket.io - Client-server communication
- Express - Node library for routing
- Electron - Desktop GUI framework build on Node

Notes:

Database Implementation

Fire Z Laser uses MongoDB as the database management system. MongoDB uses JSON objects to store data into collections of documents.

Our login activity constructs a JSON object to send to the server via a socket. The server interacts with MongoDB and then sends a message back a to the login activity

Networking

We used Socket.io on both clients and on the server. This gave us flexible, bi directional communication capabilities with minimal effort

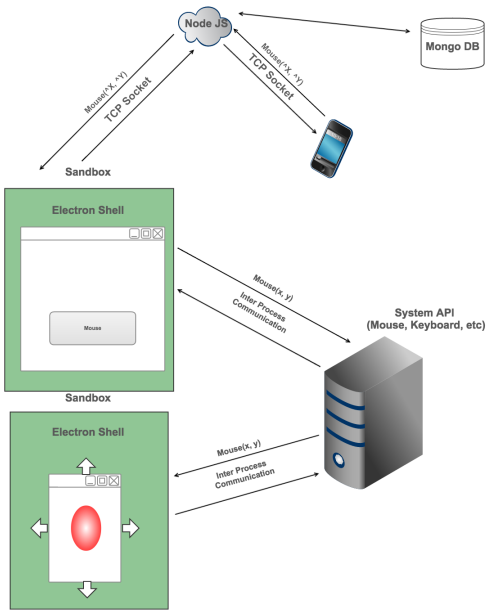
Notes:

Main Impediments

- Android phones, android phones, android phones... All of us have primarily Apple products and it was difficult to get a working Android phone to test with.
- MongoDB is not fully compatible with Android devices yet. The current way of connecting via an Android device lacks security. Had to get around this.
- Networking
- Keeping the pointer on top of all windows on the screen.

Notes:

Basic Sequence Diagram



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