OA Virtual Office Presentation

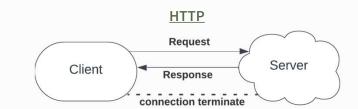
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Purpose

- Objective:
 - Develop a virtual web office to facilitate remote collaboration, providing an in-office atmosphere for employers and coworkers joining remotely.
- Benefits of Remote Work:
 - Eliminates Commuting
 - Flexible Scheduling
 - Reduced Office Expenses
- Challenges of Remote Work:
 - Communication Costs
 - Onboarding and Team Building
 - Home Distractions

WebRTC - Terms

- Client:
 - Have private address
 - Ex: Your Browser
 - Our client is the webpage
- Server:
 - Access them directly
 - Ex: Google server
 - Our server is localhost:3000
- HTTP One-time connection between client and server
 - Request is sent, Response received and then connection closes
- WebSocket Continuous connection between client and server
 - Stay connected until either client or server terminates the connection

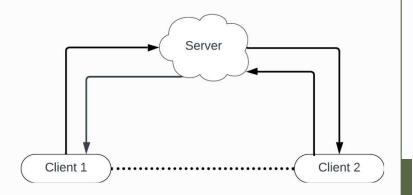




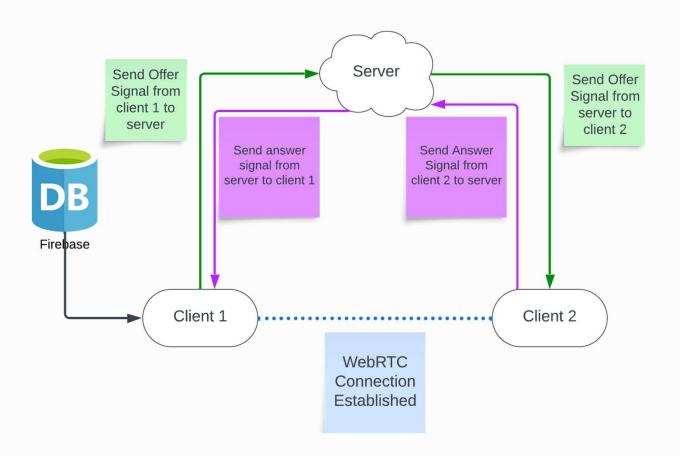
WebRTC

- WebRTC Continuous connection between clients
- Each client has their own data
- Client 1 initiates call and sends an offer through a server
- Server sends offer to client 2
- Client 2 answer the offer sending it back through the server to client 1
- If connection is established clients can now to talk to each other

WebRTC

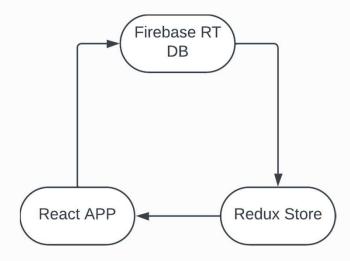


Virtual Office Webrtc

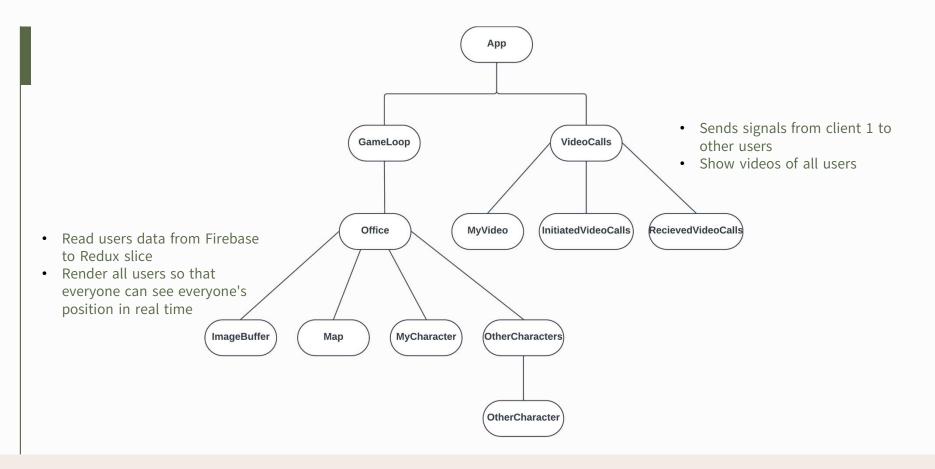


Architecture: Character Movement

 Update Redux Slice when Firebase has an update. Then character moves in app



Architecture



Live Demo

• Github Link: https://github.com/gtoledorodriguez/oa_virtoffice_project