



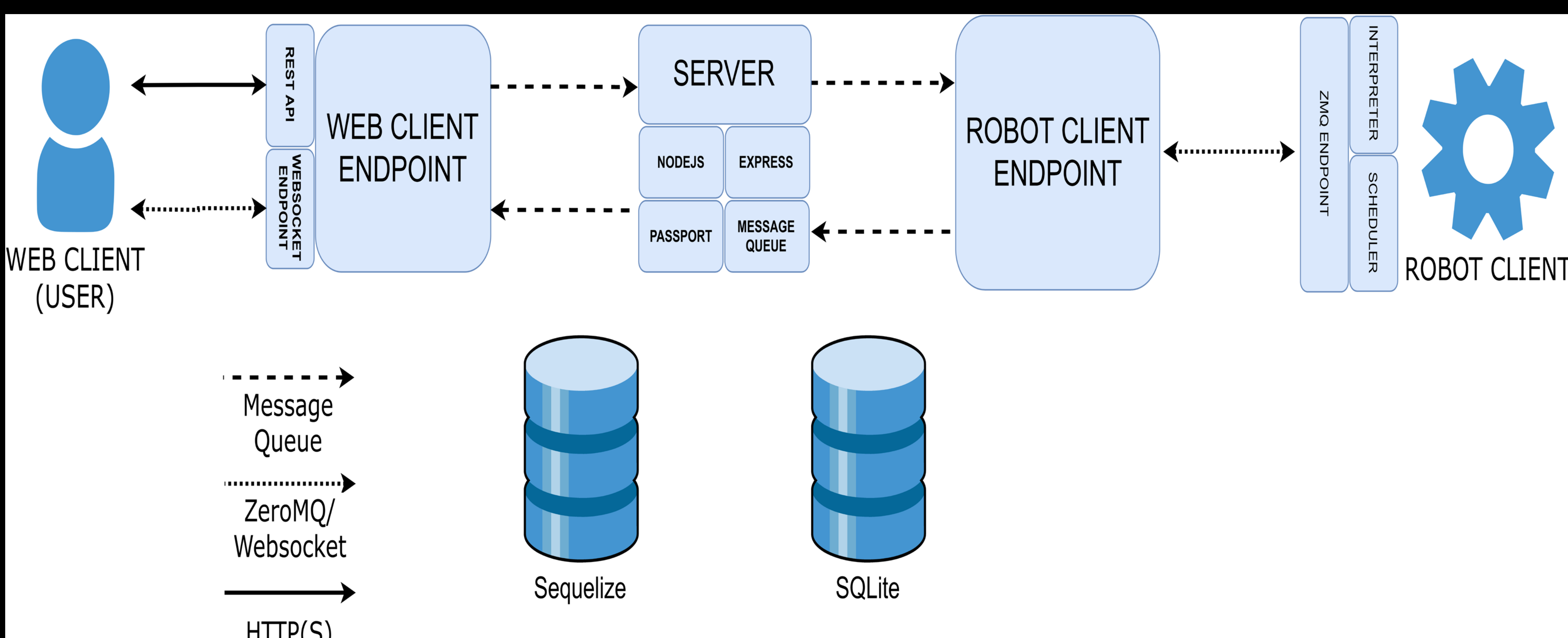
STV ROBOTICS

Description & Purpose

STV Robotics is a telerobotics platform that allows users to connect any robot controllable by serial port to the web-based telerobotic system. STV robotics system allows for messages such as commands from the user or sensor data from the robot to be transferred from the web client to the robot and vice versa. Applications of our platform include security cameras, medical robotics, industrial robotics, telepresence, and more.



Design



Ethical & Intellectual Property Issues

To protect user-robot information exchange, we are using end-to-end encryption with Public-Private keys, password secured user logins and the entire server is locked down with administrative rights. Ethical concerns regarding the use of the system can be traced to improper use of the platform to control robotic agents & perform unethical actions such as hurt another person or property or to surveil another person without their permission. For intellectual property concerns, our robot and various other parts of platform utilizing open source packages and tools are cited properly according to license specification. Our project is open source and for our own licensing, we have chosen to go with the MIT license.