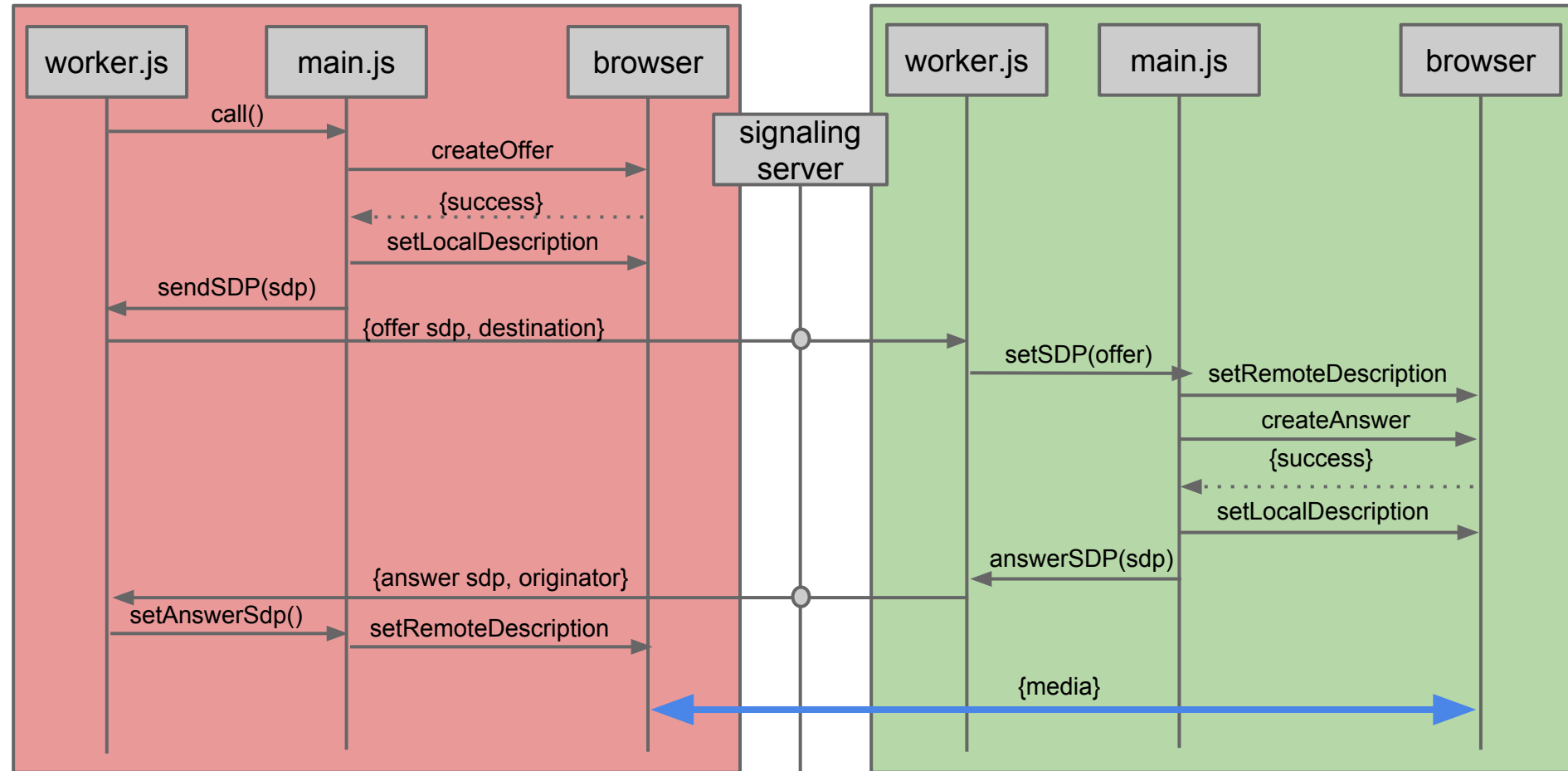


Workflow



Elements

| Element | Description |
|------------------|---|
| worker.js | WebWorker. It is an operating system thread with limited access to the browser resources, not allowed to interact neither with the webRTC API nor the DOM |
| main.js | Javascript code to run in the main execution thread. It has the ability to interact with the webRTC API, so it will play as a “proxy” for the webWorkers |
| browser | Refers to the javascript APIs exposed by the browser |
| signaling server | Intermediate element needed to transport the SDP in the negotiation process. |

Interfaces. Communication between elements

| Element | Description |
|-----------------------|---|
| worker.js - main.js | <p>Object serialization. WebWorker API provides a mechanism to interchange objects with the main thread. We will send JSON objects like this:</p> <pre>{ method: <some method>, data: <data for this method> }</pre> <p>This way, it is possible to emulate a RPC mechanism</p> |
| worker.js - worker.js | <p>This communication is accomplished through the signaling server. Both worker.js know the address of this server, so it can be used to relay messages between them</p> |
| main.js - browser | <p>Javascript API</p> |
| browser-browser | <p>WebRTC has a mechanism to find out the route between the browsers involved in the call. This mechanism performs the ICE gathering process, which will end up with an available channel connecting the two endpoints.</p> |