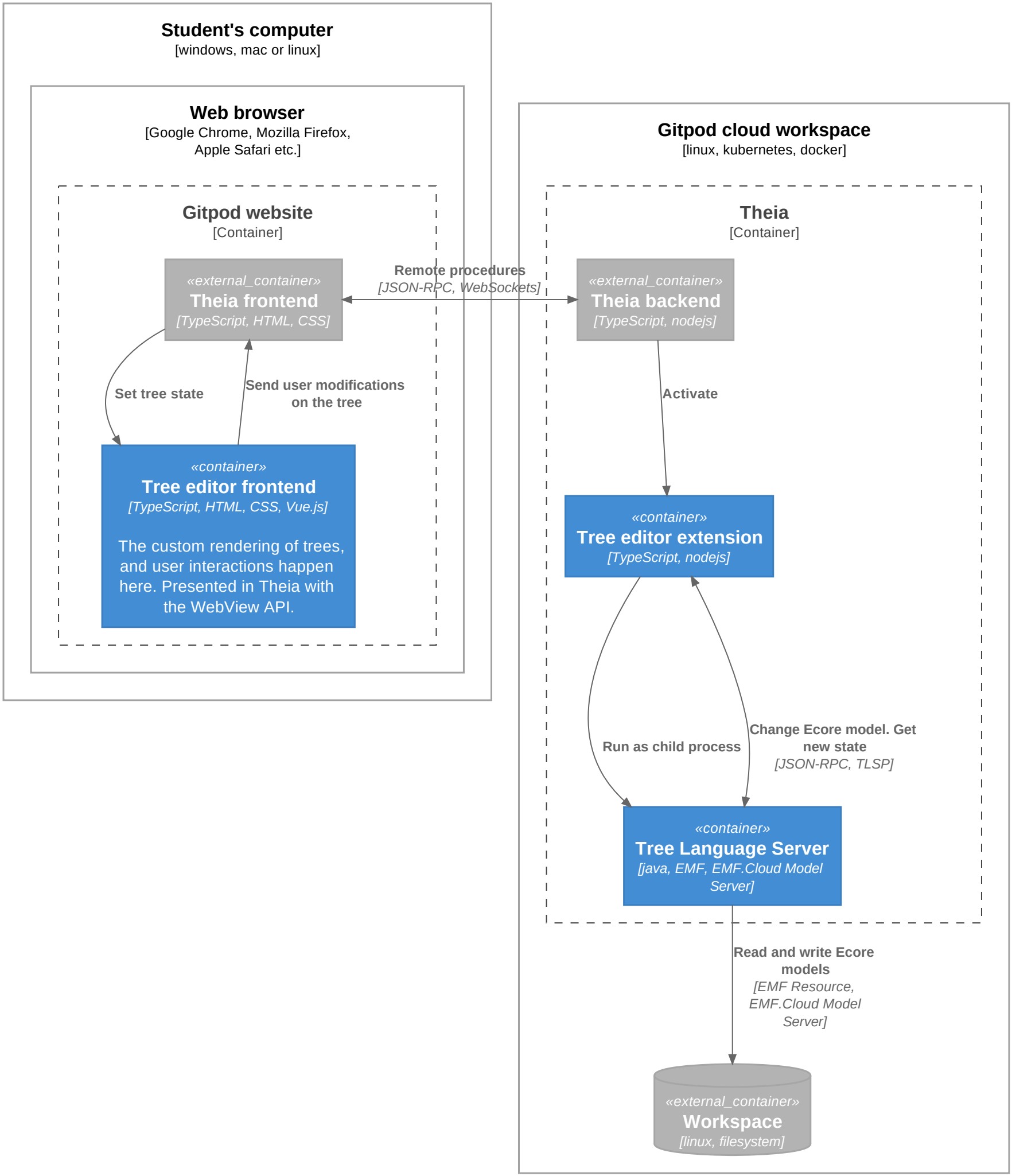
Student's computer
[windows, mac or linux]
Web browser
[Google Chrome, Mozilla Firefox, Apple Safari etc.]
Gitpod website
[Container]
«external_container»
Theia frontend
[TypeScript, HTML, CSS]
Remote procedures
[JSON-RPC, WebSockets]
Set tree state
Send user modifications on the tree
«container»
Tree editor frontend
[TypeScript, HTML, CSS, Vue.js]
The custom rendering of trees, and user interactions happen here. Presented in Theia with the WebView API.
Gitpod cloud workspace
[linux, kubernetes, docker]
Theia
[Container]
«external_container»
Theia backend
[TypeScript, nodejs]
Activate
«container»
Tree editor extension
[TypeScript, nodejs]
Run as child process
Change Ecore model. Get new state
[JSON-RPC, TLSP]
«container»
Tree Language Server
[java, EMF, EMF.Cloud Model Server]
Read and write Ecore models
[EMF Resource, EMF.Cloud Model Server]
«external_container»
Workspace
[linux, filesystem]