**به نام خدا**

# Setting up a dev environment

Much of the functionality in Element is actually in the matrix-react-sdk and matrix-js-sdk modules. It is possible to set these up in a way that makes it easy to track the develop branches in git and to make local changes without having to manually rebuild each time.

* First clone and build matrix-js-sdk:

git clone https://github.com/matrix-org/matrix-js-sdk.git

pushd matrix-js-sdk

yarn link

yarn install

popd

* Then similarly with matrix-react-sdk:

git clone https://github.com/matrix-org/matrix-react-sdk.git

pushd matrix-react-sdk

yarn link

yarn link matrix-js-sdk

yarn install

popd

* Clone the repo and switch to the element-web directory:

git clone https://github.com/vector-im/element-web.git

cd element-web

* Configure the app by copying config.sample.json to config.json and modifying it. See the [configuration docs](https://github.com/HesamSHP/element-web-develop/blob/main/docs/config.md) for details.
* Finally, build and start Element itself:

yarn link matrix-js-sdk

yarn link matrix-react-sdk

yarn install

yarn start

Wait a few seconds for the initial build to finish; you should see something like:

[element-js] <s> [webpack.Progress] 100%

[element-js]

[element-js] ℹ ｢wdm｣: 1840 modules

[element-js] ℹ ｢wdm｣: Compiled successfully.

Remember, the command will not terminate since it runs the web server and rebuilds source files when they change. This development server also disables caching, so do NOT use it in production.

Open <http://127.0.0.1:8080/> in your browser to see your newly built Element.

1. برای اضافه کردن زبان فارسی به نسخه ی نهایی(WebApp)

Add fa to \element-web\scripts\copy-res.js

1. خطای هنگام yarn start (error:0308010C:digital envelope routines::unsupported)

Run command on cmd:

* set NODE\_OPTIONS=--openssl-legacy-provider

1. خطای هنگام yarn start که مربوط به سایت <https://meet.element.io> می شود:

H:\Current Projects\Element Project\element-web-develop\element-web\scripts\build-jitsi.js

* Download <https://meet.element.io/libs/external_api.min.js> with vpn.
* Copy to root(Element-Web) & rename to jitsi\_external\_api.min.js
* Add bellow codes to build-jitsi.js

fs.copyFile( 'jitsi\_external\_api.min.js', './webapp/jitsi\_external\_api.min.js', (err) => {

if (err) {

console.log("Error Found:", err);

}

else {

console.log("\nFile Contents of copied\_file:");

}

});

* Comment line 32 to end.

1. برای اصلاح عملکرد اسلایدر صفحه ی اصلی، باید صفت زیر را اضافه نماییم:

src\components\structures\LoggedInView.tsx

<ResizeHandle reverse={true} passRef={this.resizeHandler} id="lp-resizer" />

1. برای اصلاح ContextMenu دکمه های چت:

* ابتدا در فایل src\components\structures\ContextMenu.tsx باید متد aboveRightOf اضافه شود مانند aboveLeftOf
* اضافه کردن اکسپورت زیر:
* export type AboveRightOf = IPosition & {
* chevronFace: ChevronFace;
* };
* اعمال تغییرات در فایل src\components\views\rooms\MessageComposer.tsx

import { aboveRightOf } from "../../structures/ContextMenu";

* تغییر در فایل

private getMenuPosition() {

...

return aboveRightOf(fixedRect);