

## React Native monorepo

Unless explicitly specified, the work directory in Terminal defaults to ``<RN_APP_ROOT>``

### (1) Make workspaces

Modify `package.json` by adding entries `"workspaces"`:

```
...  
{  
  ...  
  "workspaces": [  
    "packages/*"  
  ],  
  ...  
}
```

Then VERY IMPORTANTLY, in Terminal run `yarn`.

### (2) Make a package for the first JS app

In Terminal,

```
`mkdir packages && cd packages`
```

```
`mkdir app && cd app`
```

```
`yarn init -y`
```

We will get a new created package.json at packages/app/

```
...  
{  
  "name": "app2",  
  "version": "1.0.0",  
  "main": "index.js",  
  "license": "MIT"  
}
```

Then add “scripts” and “dependencies” to the above package.json file, which should finally look like

```
...  
{  
  "name": "app2",  
  "version": "1.0.0",  
  "main": "index.js",  
  "license": "MIT",  
  "scripts": {  
    "start": "react-native start"  
  },  
  "dependencies": {  
    "react": "18.2.0",
```

```

    "react-native": "0.72.4"
  }
}
...

```

Run `yarn` at packages/app/ (A file node\_modules/.bin/react-native would be created locally and I don't know why but don't worry about it.)

Create 3 new files:

- packages/app/index.js
- packages/app/app.json
- packages/app/App.tsx

then from <RN\_APP\_ROOT> find the 3 corresponding files, copy and paste their contents to these 3 new created files.

Create a new file `packages/app/metro.config.js` and paste the following contents into it:

```

const {getDefaultConfig, mergeConfig} = require('@react-native/metro-config');

/**
 * Metro configuration
 * https://facebook.github.io/metro/docs/configuration
 *
 * @type {import('metro-config').MetroConfig}
 */
const config = {};

const mergedConfig = mergeConfig(getDefaultConfig(__dirname), config);

const path = require('path');

module.exports = {
  ...mergedConfig,
  watchFolders: [
    path.resolve(__dirname, '../..../node_modules'),
    // path.resolve(__dirname, '../shared-components'),
  ],
};
...

```

Now we can delete the 4 files from <RN\_APP\_ROOT>:

- <RN\_APP\_ROOT>/index.js
- <RN\_APP\_ROOT>/app.json
- <RN\_APP\_ROOT>/App.tsx
- <RN\_APP\_ROOT>/metro.config.js

To verify the first JS app package,  
In Terminal,  
``cd <RN_APP_ROOT>/packages/app``  
``yarn start``  
then run the iOS app.

If everything goes well, repeat the above steps to create the package for the second JS app at  
``packages/app2/``.