How To Develop a New Module In UPYOG

Developing in UPYOG needs a Tech Stack which is - HTML-CSS, Javascript, React.js, JSON, and GIT as well.

1. The first step that is mandatory to develop any module in UPYOG-Micro-UI is enabling the module in MDMS. So Open this Link - https://github.com/upyog/upyog-mdms-data. then go to this directory - data/pg/tenant/citymodule.json and write this piece of code -

{

```
"module": "PTR",
                                  // Name of your module in Capital Letters
"code": "PTR",
                                  // Give the Same Name as a Code
"bannerImage": "https://egov-uat-assets.s3.amazonaws.com/PT.png",
"active": true,
                                  // set to True is mandatory
"order":1,
"tenants": [
                                 // Tenants denotes the number of cities you want
  "code": "pg.citya"
  "code": "pg.cityb"
  "code": "pg.cityc"
  "code": "pg.cityd"
  "code": "pg.citye"
]
```

2. After this Step, remember to restart the MDMS Service. Now Fork and Clone this repository from Github - https://github.com/upyog/UPYOG, open it in VSCode or any other code editor, choose the master branch, and go to this directory - frontend/micro-ui.

Note - To Run This Locally you can Refer to the Document already made.

3. Now Go to this Directory - frontend\micro-ui\web\micro-ui-internals\packages\modules and make a New Folder and give the name which is the name of your module. After this inside that folder create a file which is **package.json** which is a mandatory file and required for every Module. You can take a reference of this or you can directly copy and paste this file with few changes.

```
"name": "@nudmcdgnpm/upyog-ui-module-asset", // here change the name from asset
                                                                 to your module name
"author": "Shivank Shukla - NIUA",
                                              // Change it or you can remove
"version": "1.0.0",
"license": "MIT",
"main": "dist/index.js",
"module": "dist/index.modern.js",
"source": "src/Module.js",
                                                  //this can be same and mandatory
"files": [
 "dist"
"scripts": {
  "start": "microbundle-crl watch --no-compress --format modern,cjs",
 "build": "microbundle-crl --compress --no-sourcemap --format cjs",
  "prepublish": "yarn build"
"peerDependencies": {
  "react": "17.0.2",
  "react-router-dom": "5.3.0"
"dependencies": {
                                      // any external dependency will be added here
  "@nudmcdgnpm/digit-ui-libraries": "1.2.0",
                                                         //mandatory
  "@nudmcdgnpm/digit-ui-react-components": "1.2.0", // mandatory
  "exif-js": "^2.3.0",
  "jspdf": "^2.5.1",
  "jspdf-autotable": "^3.8.2",
  "lodash.merge": "^4.6.2",
  "microbundle-crl": "^0.13.11",
  "grcode": "^1.5.3",
  "react": "17.0.2",
  "react-dom": "17.0.2",
  "react-hook-form": "6.15.8",
  "react-i18next": "11.16.2",
  "react-query": "3.6.1",
  "react-router-dom": "5.3.0",
  "xlsx": "^0.18.5"
```

4. Now go to this directory - frontend\micro-ui\web\package.json and add the path of your module in the workspace, take a reference of this -

```
"workspaces": [
   "micro-ui-internals/packages/libraries",
   "micro-ui-internals/packages/react-components",
   "micro-ui-internals/packages/modules/common",
   "micro-ui-internals/packages/modules/core",
   "micro-ui-internals/packages/modules/obps" // add same
],
```

and add the package name under dependencies which are the same as the package name of your module, take a reference - "@upyog-niua/upyog-ui-module-name-of-your-module": "1.0.0".

- 5. You must repeat The same step in this directory frontend\micro-ui\web\micro-ui-internals\example\package.json and add the dependency.
- 6. Now go to this directory frontend\micro-ui\web\micro-ui-internals\package.json Again add the path of your module in the workspace and the **dev** and **build** under the scripts, you can take a reference of **PTR**.
- 7. Now go under your module folder, and make a new folder named **src**, and under the src folder create a few more folders with names **components**, **pageComponents**, **pages**, **config**, and **utils** and one individual file named Module.js, Module.js file is used to import all the components we create or developed all over the modules and register as well.
- 8. Create one more file Module.js under SRC folder, take a reference of PTR module.js and change the Module code inside that which is similar to your code in Citymodule.json In this component, i have imported all the components