

Ligand Selector

Ligand Selector for Pharmaco-Net modules in the frontend build to decouple frontend and the backend.

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I. IO Definitions

1. Configuration

All modules contains configuration files that dictates how forms for parameters are going to be rendered in the frontend. The following gives the parameters taken to render the ligand selector. Since the ligand selector is generalize as a widget type :

```
{
  "display" : ...,
  "fields" : ["user_ligands", ...],
  "overrides":{
    "user_ligands" : {
      "widget" : "ligand-select",
      "params": {
        "method" : "form/ligand_method"
      }
    }
    ...
  }, ...
}
```

using the configuration above, render the required form. The method field in params specify if the other field in the form, ligand_method, has random or upload as its value.

2. Render Description

The required form follows the following:

```
RENDER ligand_upload_method_dropdown_selector WITH options =
["random", "upload"]
IF render_method = "random" THEN
    RENDER ligand_amount_form
    ON_SUBMIT generate_ligand_from_backend
END
IF render_method = "upload" THEN
    RENDER ligand_upload_form
    ON_SUBMIT save_ligand_to_backend
END
```

the objective is to construct a component that does the above.

3. What to Modify

Modify the parser to generate `ParsedFormData`, create a component `LigandSelector`, and modify the renderer to render correctly.

4. Input

The component should only take two inputs.

form : `ParsedFormData`

onChange : `Function <NewValue, None>`

5. Output

There is no output to the component, but the submitted form have to have an array as its value.