

DHIS2 Web Skeleton

HISP Mozambique

Topics

Saudigitus

- Contextualization
- Problem
- Solution
- Challenges
- Technologies
- Demonstration

1. Contextualization



The application development process needs **flexible standards and processes**.

There was a need to develop an application based on components that to be used as a starting point in the development of a **dhis2** application, **this offers all the necessary basic structure** to have a functional application, in this way, we focus more on the **business rule** of our application. **The skeleton app** brings an idea of code standardization and generic components that make the development process **more flexible**.

2. Problem



- Short deadlines
- Inconsistencies
- Unsafety
- Non modular
- Maintenance difficulties
- Doing the same code

3. Solution - Description



To solve **these problems** we created this application which is **components based** to help us to easily maintain the code, facilitate the reuse of the code and have a familiar code **keeping in mind the principles of programming**.



"Easy things should be easy, hard things should be possible."

Larry Wall, creator of Perl

3. Solution - How we built



- Survey of generic cases
- Default UI definition
- Component division for easy maintenance

3. Solution - TableComponent





3. Solution - TEIFormComponent



<pre>enrollmentDate={er typeView={typeView</pre>	<pre>s={programRulesAttributes(attributes, values, ntDate={enrollmentDateLabel} ={typeView(type)} utate={loadingMutate loadingAddRelation} rollment={createEnrollment} ={onChange} ={disable}</pre>	programRules, programRuleVariables, setvalues)} Novo registo		
<pre>loadingMutate={loadi createEnrollment={cr onChange={onChange} disabled={disable}</pre>		Enrollment Date		
<pre>disableSave={disable} /></pre>		Registration Date *	05/10/2023	0
		Perfil		
		Número Único de Identificação		
		Nome		
		Apelido		
		Sexo		•
		Data de Nascimento	mm/dd/yyyy	

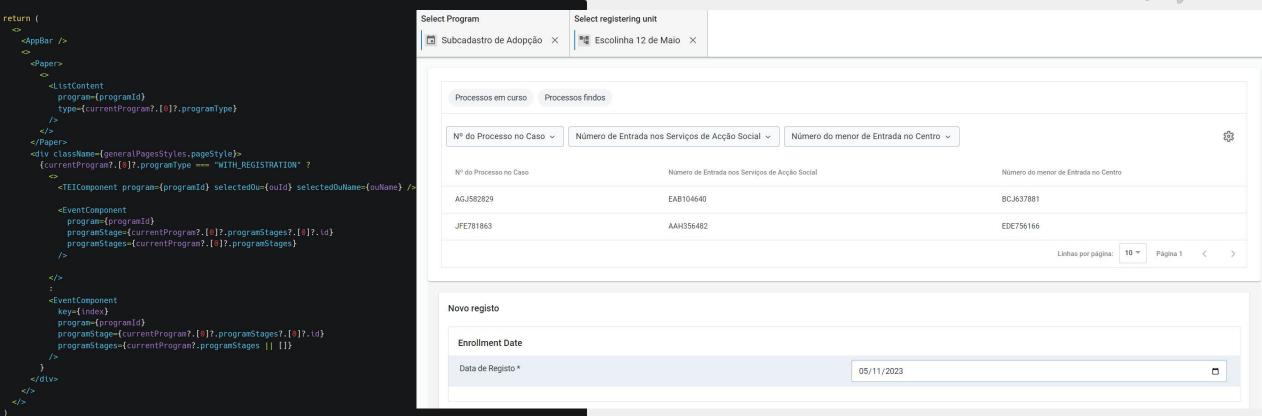
3. Solution - EventFormComponent



<pre><eventformcomponent initialvalues="{activeEventData}</pre" programexecutiondatelabel="{eventDateLabel}" repeatable="{getActiveProgramStage()?.repeatable}" values,="" variables="{programRulesUtils(dataElements,"></eventformcomponent></pre>	mRules, programRuleVariables, se	etvalues)}						
<pre>writeAccess={getActiveProgramStage()?.access.data.write} programStage={programStage} /></pre>	1. Responsável	2. Caso	3. Informação do(s) requerentes	4. Dados do menor	5. Inquérito do requerente	6. Saúde do requerentes		
	7. Situação académica, laboral e financeira dos requerentes	8. Participação do menor	9. Processo judicial					
	Informação básica							
	*			03/01/2023				
	Event Information							
	CNPA - CEI Nome do técnico responsável por preencher							
	CNPA - CEIJ Função							
	CNPA - CEI Contato telefônico							
						Limpar tudo Submeter		

3. Solution - Home





3. Solution - Generic Forms

return null



```
const GenericForm = (props) => {
   const { valueType } = props?.element;
   switch (valueType) {
        case "TEXT":
        case "EMAIL":
        case "PHONE_NUMBER":
            return (
                <SingleTextField {...props} />
        case "DATE":
                                                      Perfil
        case "AGE":
            return (
                                                      Número Único de Identificação
                <Input type="date" {...props} />
                                                      Nome
        case "BOOLEAN":
            return (
                <Swicth {...props} />
                                                      Apelido
        case "NUMBER":
                                                      Data de Nascimento
                                                                                                                                  mm/dd/yyyy
        case "INTEGER_ZERO_OR_POSITIVE":
                <PosetiveNumber {...props} />
                                                      Sexo
                                                      Nome da mãe biológica
        case "TRUE_ONLY":
            return (
                <BpCheckbox {...props} />
                                                      Nome do pai biológico
        case "LIST":
                                                      Nacionalidade
            return (
                <FormSelect {...props} />
        case "LONG_TEXT":
                <LongTextField {...props} />
        default:
```



Challenges

4.ProgramRule (ASSIGN)



```
export function programRuleAssignValue(values, programRules, programRuleVariables) {
   const dataElements = {}, attributes = [];
    for (const programRule of programRules.filter(x => x.programRuleActionType === "ASSIGN") || []) {
        const firstCondition = replaceEspecifValue(programRuleVariables, values, removeSpecialCharacters(programRule.condition));
       const secondCondition = replaceEspecifValue(programRuleVariables, values, removeSpecialCharacters(programRule.data));
        const functionName = getFunctionExpression(programRule.data)
        if (programRule.type === "attribute" && eval(firstCondition)) {
           attributes.push({
                attribute: programRule.variable,
                value: verifyFunction(functionName, secondCondition)
           })
        } else if (programRule.type === "dataElement" && eval(firstCondition)) {
           if (dataElements.hasOwnProperty(programRule.programStage)) {
                dataElements[programRule.programStage].push({
                   dataElement: programRule.variable,
                   value: verifyFunction(functionName, secondCondition),
                })
           } else {
                dataElements[programRule.programStage] = [];
                dataElements[programRule.programStage].push({
                   dataElement: programRule.variable.
                    value: verifyFunction(functionName, secondCondition),
                })
    return { dataElements, attributes };
```

3.ProgramRule (Other)



```
// eslint-disable-next-line max-params
export function modifyFeilds(programRuleActionType, condition, variable, sectionvaribles) {
   // (programRuleActionType);
    for (const section of sectionvaribles) {
       if (programRuleActionType === "HIDEFIELD") {
            for (const dataElement of section.dataElements || []) {
                if (eval(condition)) {
                   if (dataElement.name === variable) {
                        dataElement.visible = false;
                } else {
                   if (dataElement.name === variable) {
                        dataElement.visible = true;
       else if (programRuleActionType === "HIDESECTION") {
            if (eval(condition)) {
                if (section.name === variable) {
            } else {
                if (section.name === variable) {
                   section.visible = true;
```



Technologies

5. Technologies

Saudigitus

- React Js
- DHIS2 Ui Library
- DHIS2 App Platform
- Material Ui

4.Demonstration







Thank you!