PROCESSO CLÍNICO ELETRÓNICO

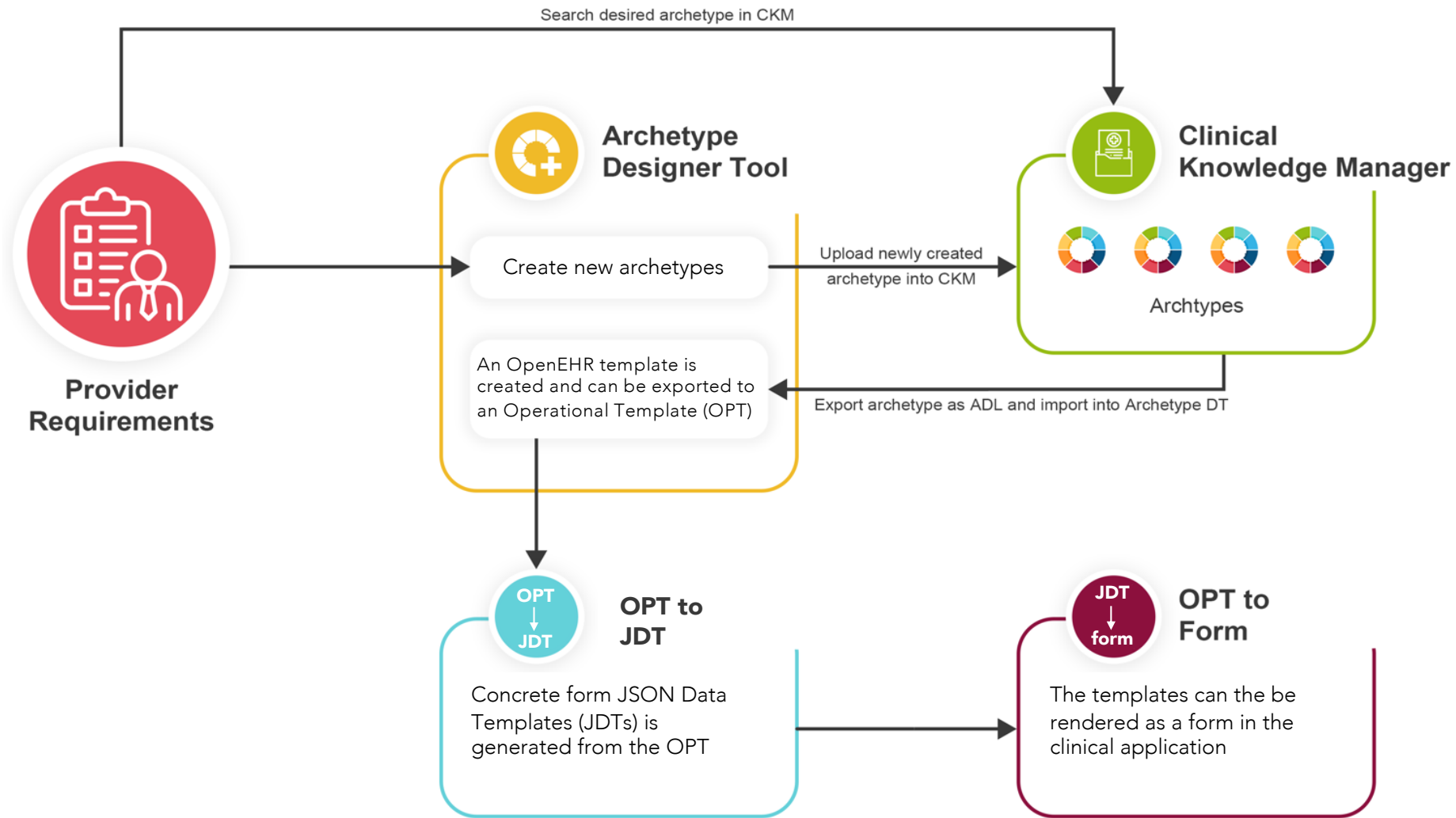Forms with OpenEHR

Class Objectives

- Helping in the understanding of the challenges and opportunities of working with EHR systems, and how they can be leveraged to improve patient care;

- To provide hands-on experience in creating and customizing forms using a form builder, using templates as a starting point;

- To encourage critical thinking and problem-solving skills by asking students to consider how they would design forms for specific medical specialties or patient populations;

- To provide an opportunity for collaboration and teamwork, as students will work together to create and customize forms using a form builder and templates.

Forms in OpenEHR

In OpenEHR, archetypes, templates, and forms are closely related and play important roles in the electronic health record (EHR) process, as already discussed.

Forms are the user-facing interfaces that healthcare providers use to enter patient data into the EHR system. They are created using templates and provide a familiar, intuitive interface for data entry. Forms can be customized to meet the specific needs of different healthcare providers, departments, or workflows.

Search desired archetype in CKM

Archetype Designer Tool

Create new archetypes

Upload newly created archetype into CKM

Clinical Knowledge Manager

Archtypes

Provider Requirements

An OpenEHR template is created and can be exported to an Operational Template (OPT)

Export archetype as ADL and import into Archetype DT

OPT → JDT

OPT to JDT

Concrete form JSON Data Templates (JDTs) is generated from the OPT

JDT → form

OPT to Form

The templates can the be rendered as a form in the clinical application

FormBuilder

- **Goal**: to automatically generate forms based on OpenEHR Templates
- **Usage**: can be used in 3 different modes: design, edit, and consult.

At the moment, it is consumed as package.

Read the additional documentation provided in order to install the FormBuilder package in you ReactJS app.

Tasks

- Install the FormBuilder package using the additional documentation provided;
- Study the properties of the Form component;
- Create a page to host the Form component;
- Add the form component to your page;

Edit mode

Test the form opening in edit mode by creating the test JDT provided in your project an injecting it no the Form component

TESTS

Consult mode

Test the form opening in consult mode by:
1. generating a test composition (fill the form in the edit mode and copy the compositing that is generated and printed in the console as you press submit);
2. Create the replaceValuesJDT, presented in the documentation, in your project, and follow the instructions.

Tasks

Backend

- Model the schema and create the MongoDB collection that will store the submitted compositions;
- Design and create an API that receives and saves the compositions in the database;
- Design and create an API that gets the compositions from the database;

Finally: connect the frontend with the backend in order to store and manage the patients' compositions!

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