

Accelerating your Implementation Guide Production

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Who am I?

- José Costa Teixeira
- Consultant, imec / VAZG / RIZIV
- Chair, HL7 Belgium



Learning Objectives Tutorial

- In the tutorial session, we'll see some practices to support delivery of specifications in an Implementation Guide in a collaborative environment
- In the Let's Build, we'll use some tricks and give an example to set you up quickly

Agenda

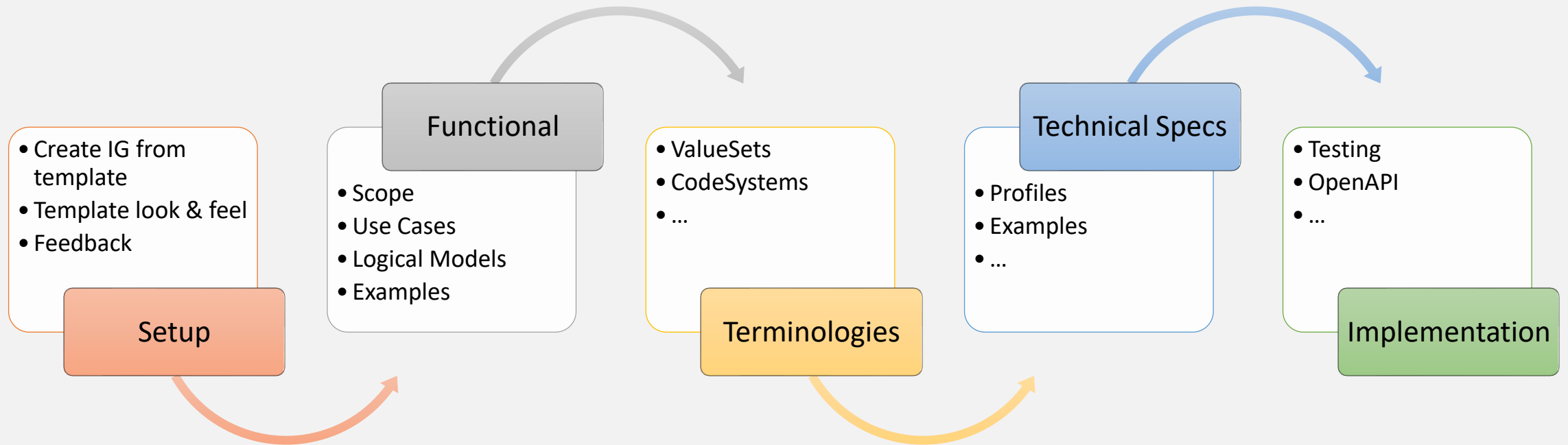
- Project setup
 - Creating an empty IG from template or sushi init
 - Kanban for issues
 - Continuous Build – on build.fhir.org, or github pages
 - Add a local template (if one doesn't come with the template) and change colors
 - Add/change images in header
- Functional discussions
 - Logical Data Models, narrative, use cases, requirements
 - Adding menu entries when adequate
- Profiling
 - Profiles
 - Examples

Feedback requested:
What should be better/easier?

Tools and Preparation

- If you want to build locally,
 - Jekyll
 - Requires ruby
 - Sushi
 - Requires node.js - npm install -g [fsh-sushi@2.0.0-beta.1](https://www.npmjs.com/package/fsh-sushi) + VSCode extension
 - PlantUml, <https://plantuml.com> + VSCode extension
- You can go online only – less feedback, plus github pages has a few minutes latency

Process



0. Initialize the IG

- Pick a github template - github.com/hl7-be/empty-ig
- Create your repo from it
- Create a project for issues
- Create a Kanban board for the issues

1. Adapt your IG id, name, etc.

- In the xml, change
 - id
 - url
 - name
 - title
 - publisher
 - contact
 - description
 - packageId

2. Change your IG filename

- Just rename the xml
 - Make sure you update the ig.ini file that points to it
-
- Not needed if you use e.g. sushi

3. Add a local template

- Add a folder with the right content
 - Files you want to override
 - A package.json that points to the template you want to use as “base”

```
{
  "name": "hl7.fhir.be.my.template",
  "version": "0.0.1",
  "type": "fhir.template",
  "license": "CC0-1.0",
  "description": "Local template extension for FHIR IG",
  "author": "http://hl7belgium.org",
  "base": "hl7.be.fhir.template",
  "dependencies": {
    "hl7.be.fhir.template": "current"
  }
}
```

4. Change one color

- If you have a CSS file in your template with color definitions (e.g. colors.css), update those values
- Which/how?: <http://build.fhir.org/ig/FHIR/ig-guidance/colors.html>

5. Add new images

- Add the files in the template's content/assets/images folder
- Replace the adequate fragment-header.html
 - Or append, depending on your template.
 - To append, use syntax `_append.<filename>`

6. Activate GitHub build

- Just add this file: https://github.com/hl7-be/tutorial_ig/blob/master/.github/workflows/main.yml

7. Add a page and menu entry (functional)

- Create the .md or .xhtml file in the folder input/pagecontent
- Reference the page in the ig xml
- Optionally, add a menu link to that page

8. Add a Logical Data Model (functional)

- Add the model from Forge
- If you have latest sushi (today it's still in beta), just add the content

9. Add a use case page with a diagram

- Add a page (as before: page source and xml entry)
- Create a PlantUml diagram, in input/images-source. Name format: <diagram>.plantuml
- Use the plantuml online server to start quickly
- Include your image in the page with `{% include <diagram>.svg %}`
- *If you see text wrapping around image, add `<br clear="all">` after the include tag*

10. Add some feedback

- Simply add a link to a page under each feedback entry in `input/data/features.yml`
- Each dashboard entry adds a link in the footer

feedback:

```
- active: true
```

```
  dashboard:
```

```
    label: Issues
```

```
    url: https://github.com/hl7-be/tutorial_ig/projects/1
```

```
- active: true
```

```
  dashboard:
```

```
    label: Submit issue
```

```
    url: https://github.com/hl7-be/tutorial_ig/issues/new
```

11. Add a FHIR profile

- Use the Forge
- Sushi
- ...

Making it easier:

- A script that allows you to create the entire repo and Kanban, and CI build workflows, and clone the repo locally?
- <https://github.com/hl7-be/createIGRepo>

<At end of presentation> What did you learn?

- Creating a repo is easy
 - Use template e.g. github.com/hl7-be/empty-ig, github.com/hl7-be/empty-ig-custom
 - Can be automated <https://github.com/hl7-be/createIGRepo>
- Customizing
 - We're working to make IG template updates easier. Instructions are good, simplicity is better
- Adding content
 - Tools are increasingly compatible

Takeouts

- Creating a repo is easy
 - Use template e.g. github.com/hl7-be/empty-ig, github.com/hl7-be/empty-ig-custom
 - Can be automated <https://github.com/hl7-be/createIGRepo>
- Adding content

Contact

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Q&A

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