

# Requirements Engineering at Siisurit

# Agenda

- About the company and the product
- Requirements process by specific example
  - General process
  - Development ready UI design
  - Templates for recurring tasks
    - Dual track
- TODO comment based requirements

# About the company and product

# About Siisurit

## The company

- Founded in April of 2023 in Graz, Austria
- Sole proprietor
- supported by contractors in Albania, Turkey and Graz (background: Gaming resp. Python user group Graz)
- Interaction in English
- Kanban



# About Siisurit

## The product

- "Bring piece of mind to your projects"
- Know where you are
- Know where you would have liked to be
- Know where to focus on improvement efforts
- Mostly use data and tools you should already have
- Requires: Issue tracker, time tracker, estimates

# About Siisurit


## How it works

### Add screen for personal misestimates #355

🕒 Open

🔄 5 tasks done

roskakori opened this issue 3 weeks ago · 0 comments · May be fixed by [#396](#)



roskakori commented 3 weeks ago · edited

...

Story

As project member I want to be able to know my highest misestimates so that I can reflect and learn from them.

Goals

✓

When a project member clicks on the Misestimates button on the navigation drawer, the misestimates view opens.

✓

A paginated table shows the finished tasks assigned to the project member where the estimate exceeds the actual effort.

✓

The tasks are sorted by difference.

✓

If the project member is not assigned to any matching tasks, the standard "no data" view is seen.

✓

All `TODO#355` comments are addressed.

Related process: "Improve estimation skills".

See also [#393](#) for a couple of follow up improvements.

User interface

See [Misestimation view](#).

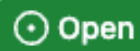
Estimates


Estimate: 14h

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#### Estimates

Estimate: 14h

00:27:28

Task today: 00:52:21

Customer / project



Siisurit - Siisurit v0.x

>

Service

Review

>

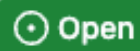
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Siisurit - Siisurit v0.x

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#355 Add screen for personal misestimates

#355

# Collect and combine these data

## Example: Largest misestimates

<div>Siisurit</div> <div><div>Dashboard</div><div>Project</div><div>Reports</div><div>Misestimates</div><div>Administration</div></div> <div><div>Logout</div></div>	Title	Misestimate in %	Original Estimate	Updated Estimate	Time Spent	Assignees	Task Details
	#13 Add data model diagram	585%	1:00	1:00	5:51	tag	<a href="#">↗</a>
	#66 Add developer documentation	584%	6:00	6:00	35:02	tag	<a href="#">↗</a>
	#275 Fix HTML validation of admin site	563%	1:00	1:00	5:38	tag	<a href="#">↗</a>
	#194 Clean up Clockodo API caching	512%	3:00	3:00	15:22	tag	<a href="#">↗</a>
	#288 Fix permission denied for reports	485%	1:00	1:00	4:51	tag	<a href="#">↗</a>
	#91 Match GitLab work entries to tasks	375%	5:00	5:00	18:45	tag	<a href="#">↗</a>
	#31 Add clocko:do time tracker	303%	20:00	20:00	60:30	tag	<a href="#">↗</a>
	#47 Rename project to Siisurit	264%	3:00	3:00	7:55	tag	<a href="#">↗</a>
	#237 Fix GitLab time tracking	248%	4:00	4:00	9:54	tag	<a href="#">↗</a>
	#105 Match clocko:do work entries to tasks	235%	4:00	4:00	9:24	tag	<a href="#">↗</a>
	#221 Add support for multiple docker containers on a single server	231%	5:00	5:00	11:33	tag	<a href="#">↗</a>
	#343 Add Flutter project	221%	4:00	4:00	8:51	tag	<a href="#">↗</a>
1-12 of 26							<a href="#">&lt;</a> <a href="#">&gt;</a>

# **Requirements process overview**



# Personas

## Claudia - Domain expert



[Image source](#)

- Female, age 27
- Education: master's degree in math
- Profession: data scientist
- IT experience
  - very experienced with math tools
  - developer tools
  - office tools
  - experienced mobile user
- Needs
  - modern, mobile user interface
  - wants to find things quickly
  - needs facts
  - prefers to resolve conflicts based on facts
- Values
  - analyzing data and developing software for it is a profession, not a passion
  - impatient
  - likes to experiment
  - expects treating each other appreciatively
  - tends to be ambitious, still wants to have a career
- Hobbies: rag doll dance



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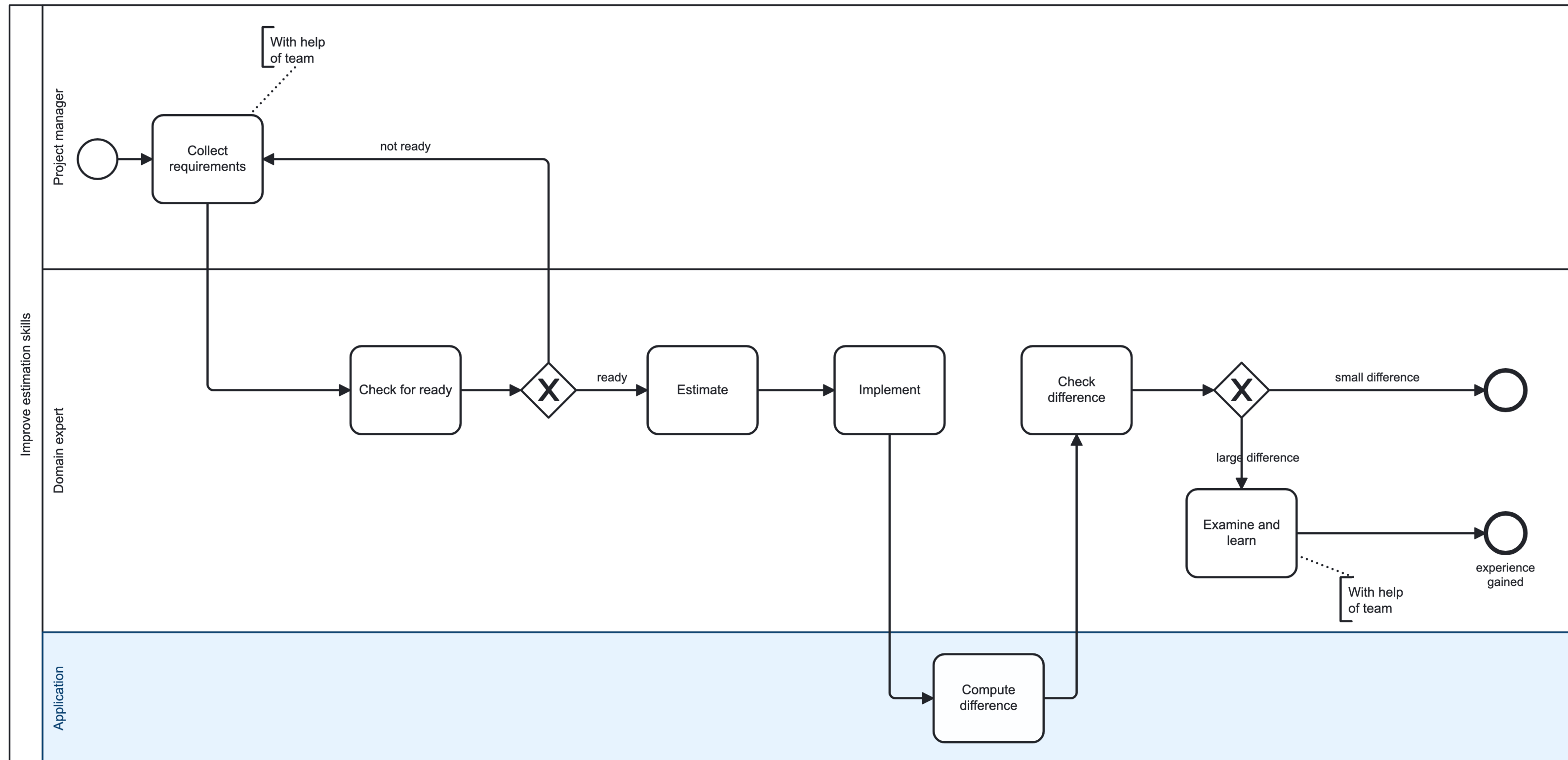
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# Process diagrams

## "Improve estimation skills"





- Describes how people and technology contribute towards a goal
- Initially sketches or post-its
- Eventually BPMN diagrams → can be understood by almost everyone
- Tool: Camunda modeller

# Templates for issues

## Standardized structure

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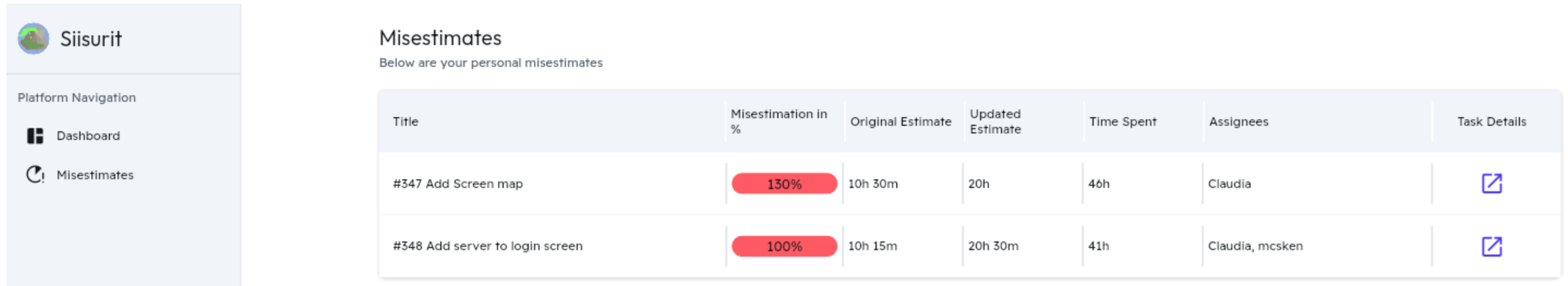
### Estimates

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- Templates for enhancement, improvement, bug
  - Includes user story template
- Special templates to implement API for new tracker
- "Dual track": Discovery & Implementation (Podcast with Oliver Pitsch)

# Development ready user interface design

## Flutter Flow



**Misestimates**  
Below are your personal misestimates

Title	Misestimation in %	Original Estimate	Updated Estimate	Time Spent	Assignees	Task Details
#347 Add Screen map	130%	10h 30m	20h	46h	Claudia	<a href="#">[Link]</a>
#348 Add server to login screen	100%	10h 15m	20h 30m	41h	Claudia, mcsken	<a href="#">[Link]</a>

- Problem: Many UI design tools make it very easy to design elements that would require a lot of development effort (e.g. Figma, Penpot)
- FlutterFlow only allows Flutter components.
- We use placeholder images to represent e.g. special diagrams.
- FlutterFlow could generate code. We use it for inspiration only but not as development tool. (cloud-only, fairly early in its life-cycle, generated code is kind of hard to read, ...)



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- Describe collaboration in process diagrams
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