Software Project Management
LAB - 6

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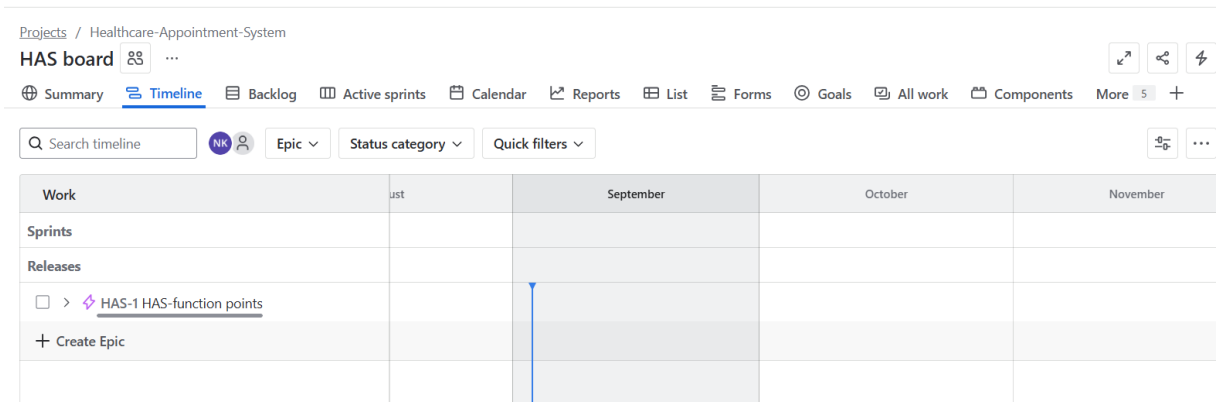
E23CSEU0097

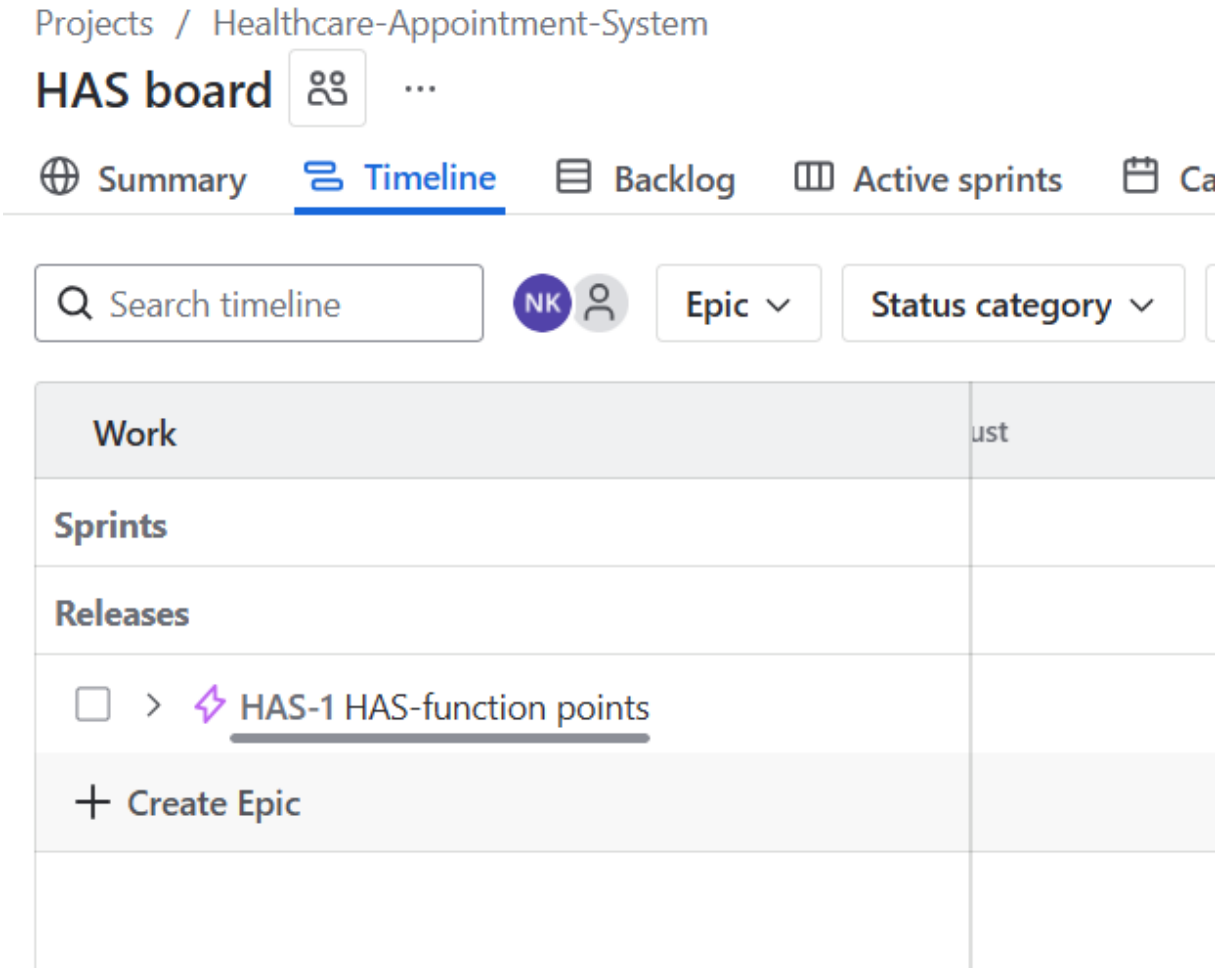
Task 1: Project Setup

1. **Create a new Jira project:** Choose a suitable project type (e.g., Software) and name it “Healthcare Appointment System" or “HAS”.

   Set up **Scrum framework**.

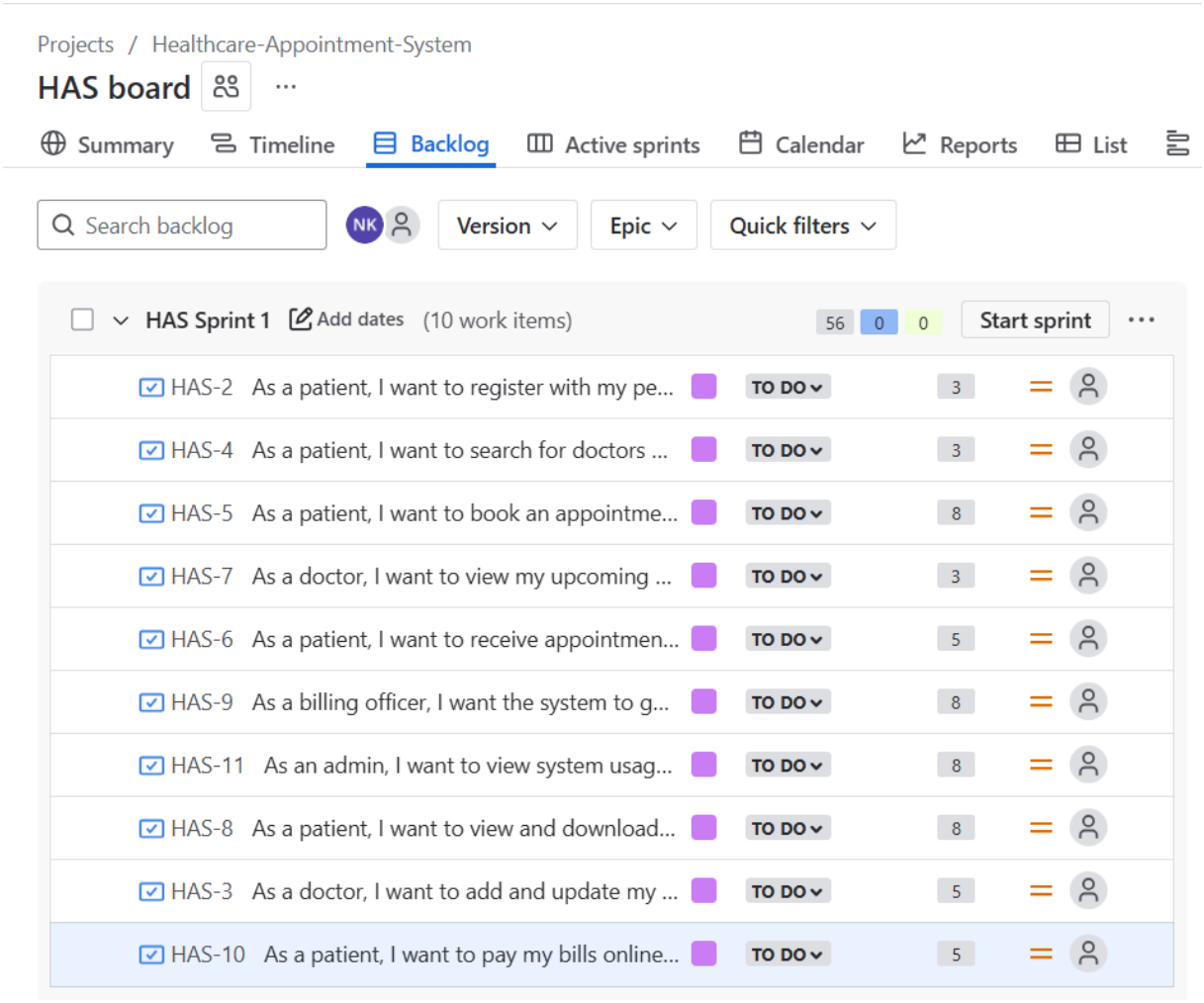


2. Define an Epic issue type titled “HAS Function Points” to group related work.

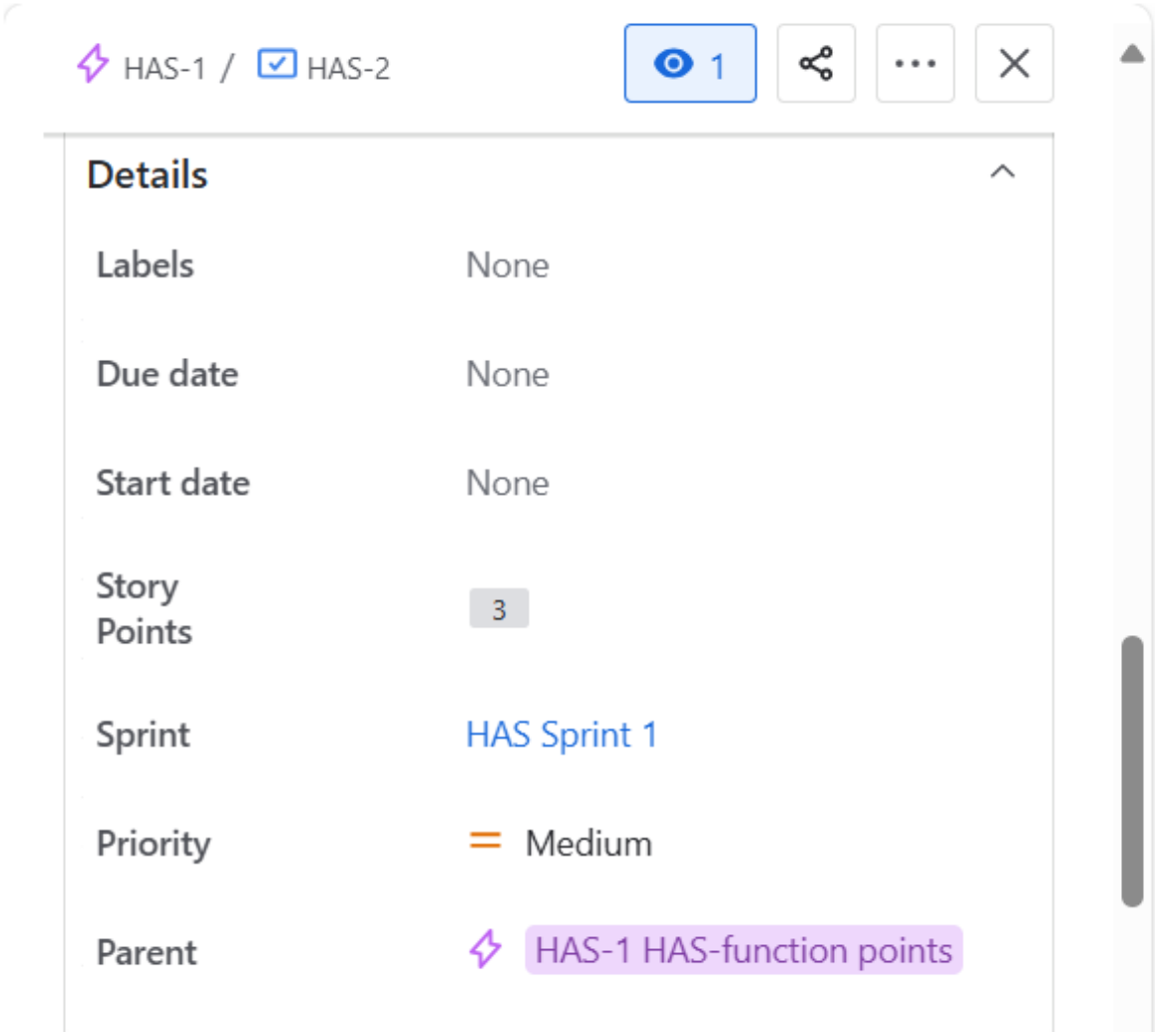


Task 2: Requirement Breakdown

1. Document **at least 10 user stories** in the backlog covering HAS features such as patient registration, doctors’ schedule, appointment booking, billing system integration, medical record access, and reminders.

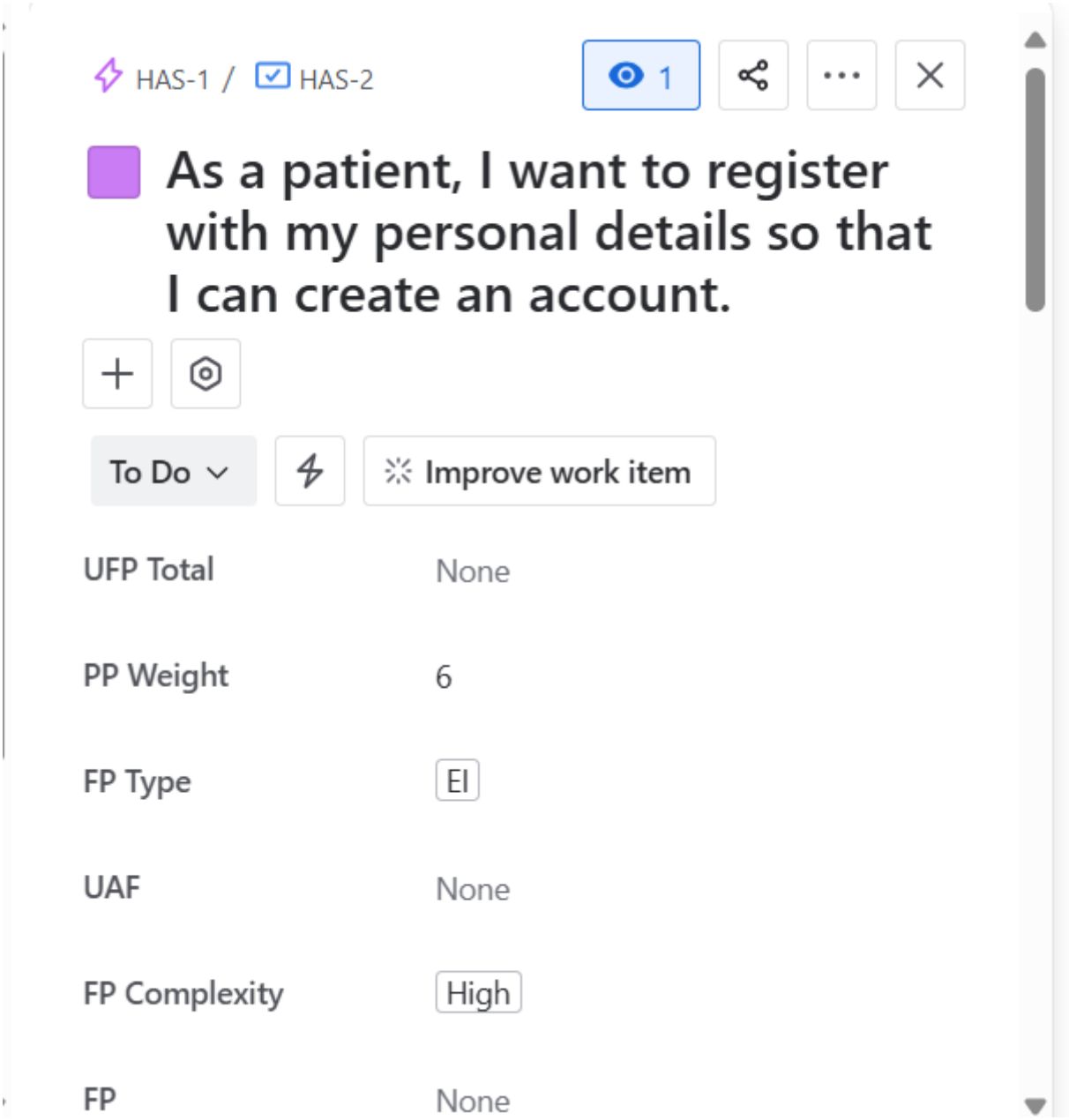


2. Assign suitable **story points** to each story to indicate effort.

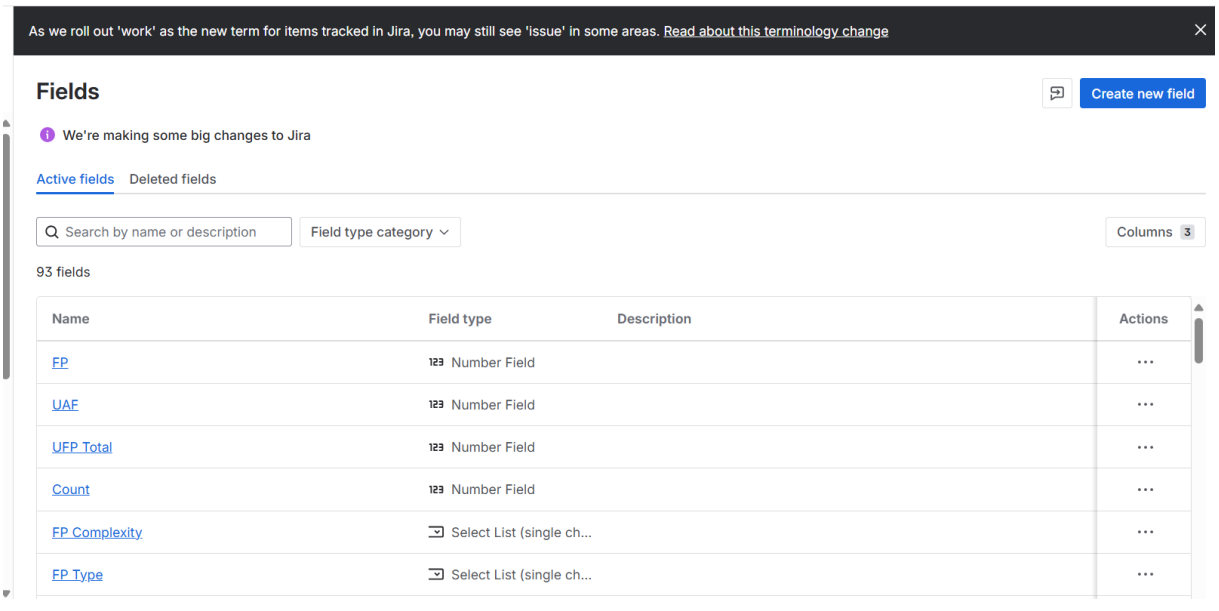


Task 3: Identifying Function Point Elements

1. Classify each as one of the following categories:



2. Decide the **complexity level (Low, Average, High)** for each, based on FPA rules.



Projects / Healthcare-Appointment-System / Project settings / Work item layout

Work item layout for "HAS: Scrum Default Issue Screen"

Drag fields to choose where to show them in the work item for the below work types in this project.
Learn how your fields appear in the work item.
To add more fields, or configure field tabs for this screen, go to "HAS: Scrum Default Issue Screen"

Story | Task | Epic | Sub-task

Description fields

- Summary
- FP ComplexityHigh
- UAF
- FP Complexity
- FP
- Description

Work item layout for "HAS: Scrum Default Issue Screen"

Drag fields to choose where to show them in the work item for the below work types in this project.
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Story | Task | Epic | Sub-task

- Status
- Assignee
- FP Type
- Reporter
- Development

To configure this panel, go to Development settings.

- Labels
- Due date
- UFP Total

Task 4: Function Point Estimation

1. Within it, include sub-tasks for:
    - **UFP Calculation** (Unadjusted Function Points)
    - **VAF Assessment** (Value Adjustment Factor)
2. In each sub-task, clearly document your **formulas, values, and justification**.

	6	4
EI	1 High	1 Avg
	4	5
EO	1 low	Avg
	6	4
EQ	High	Avg
	10	15
ILF	Avg	High
	7	5
EIF	Avg	low

step2 ⇒ calculate UFP (unadjusted function points)

⇒ EI (external input)

1 High x 6 = 6

1 Avg x 4 = 4 ⇒ EI total = 6 + 4 = 10

⇒ External output (EO)

1 low x 4 = 4

1 Avg x 5 = 5 ⇒ EO total = 4 + 5 = 9

⇒ External inquiries (EQ)

1 High x 6 = 6

1 Avg x 4 = 4 ⇒ EQ total = 6 + 4 = 10

⇒ Internal Logical Files (ILF)

1 Avg x 10 = 10

1 High x 15 = 15 ⇒ ILF = 10 + 15 = 25

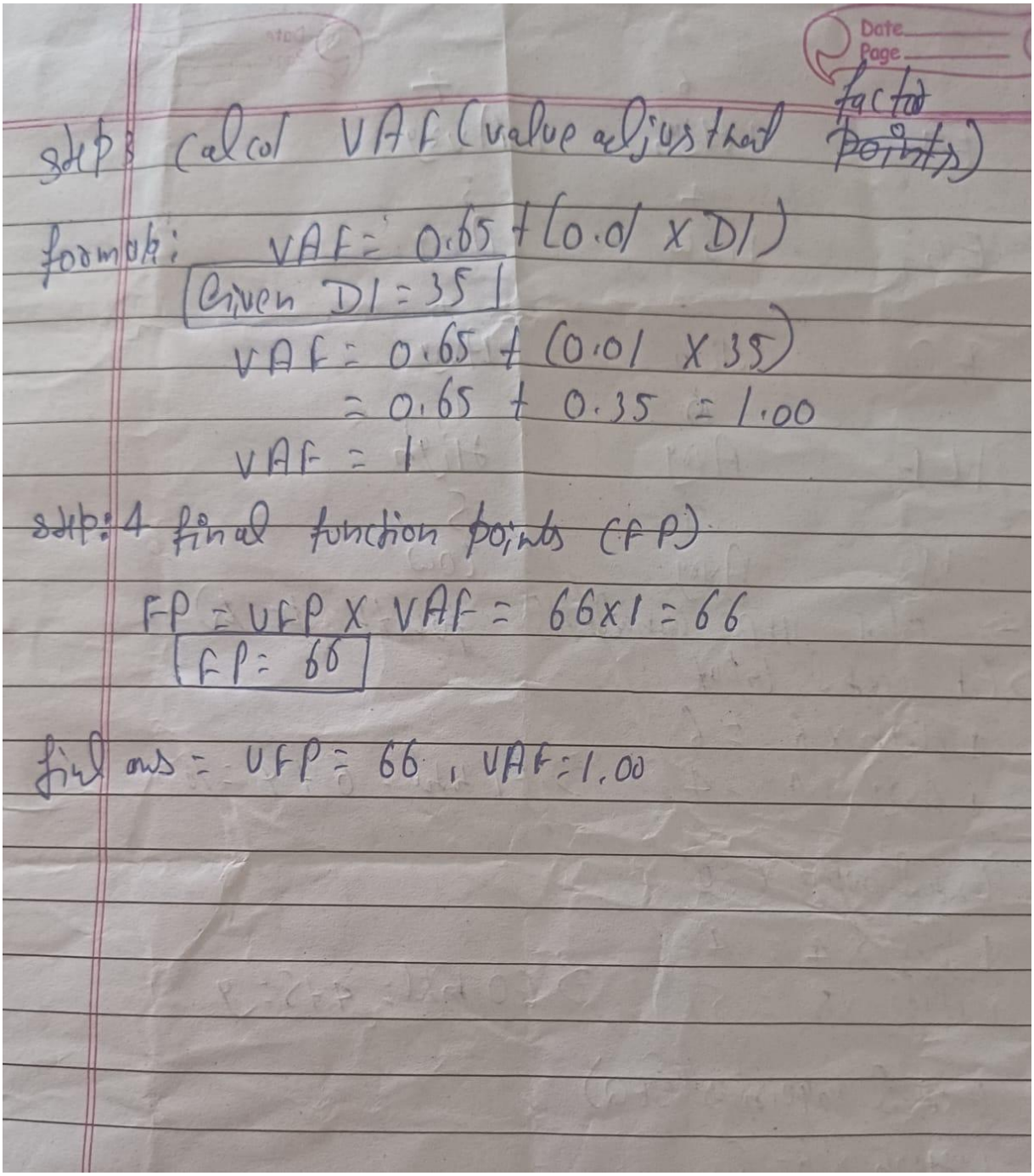
⇒ EIF (external interface files)

1 Avg x 7 = 7

1 low x 5 = 5 ⇒ EIF = 7 + 5 = 12

⇒ UFP = 10(EI) + 9(EO) + 10(EQ) + 25(ILF) + 12(EIF)

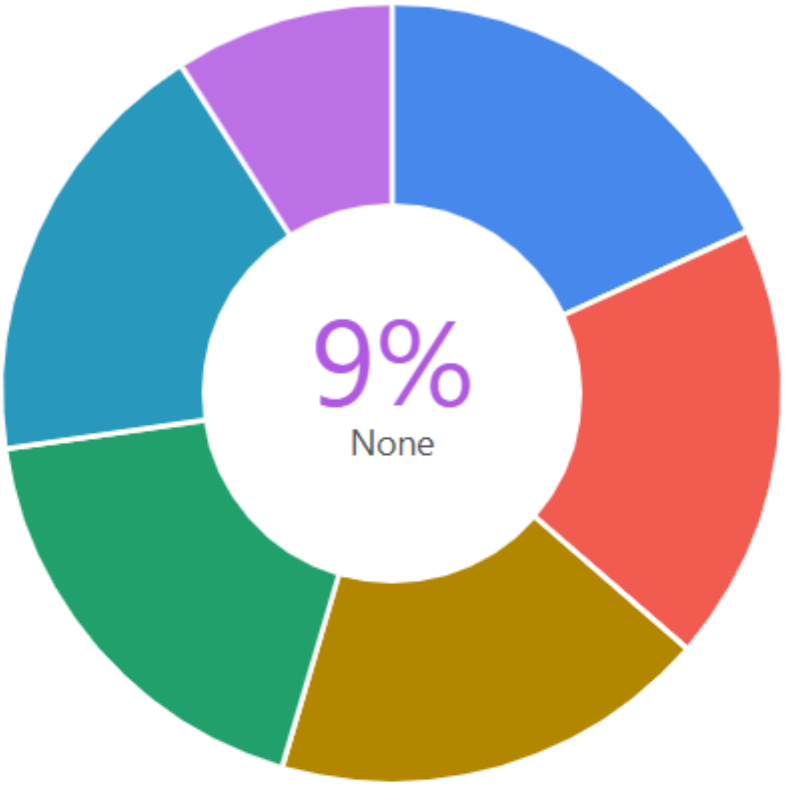
= 66



Task 5: Reporting & Dashboard Creation

1. Add the following gadgets:
    - **Pie chart** for the distribution of function point components.

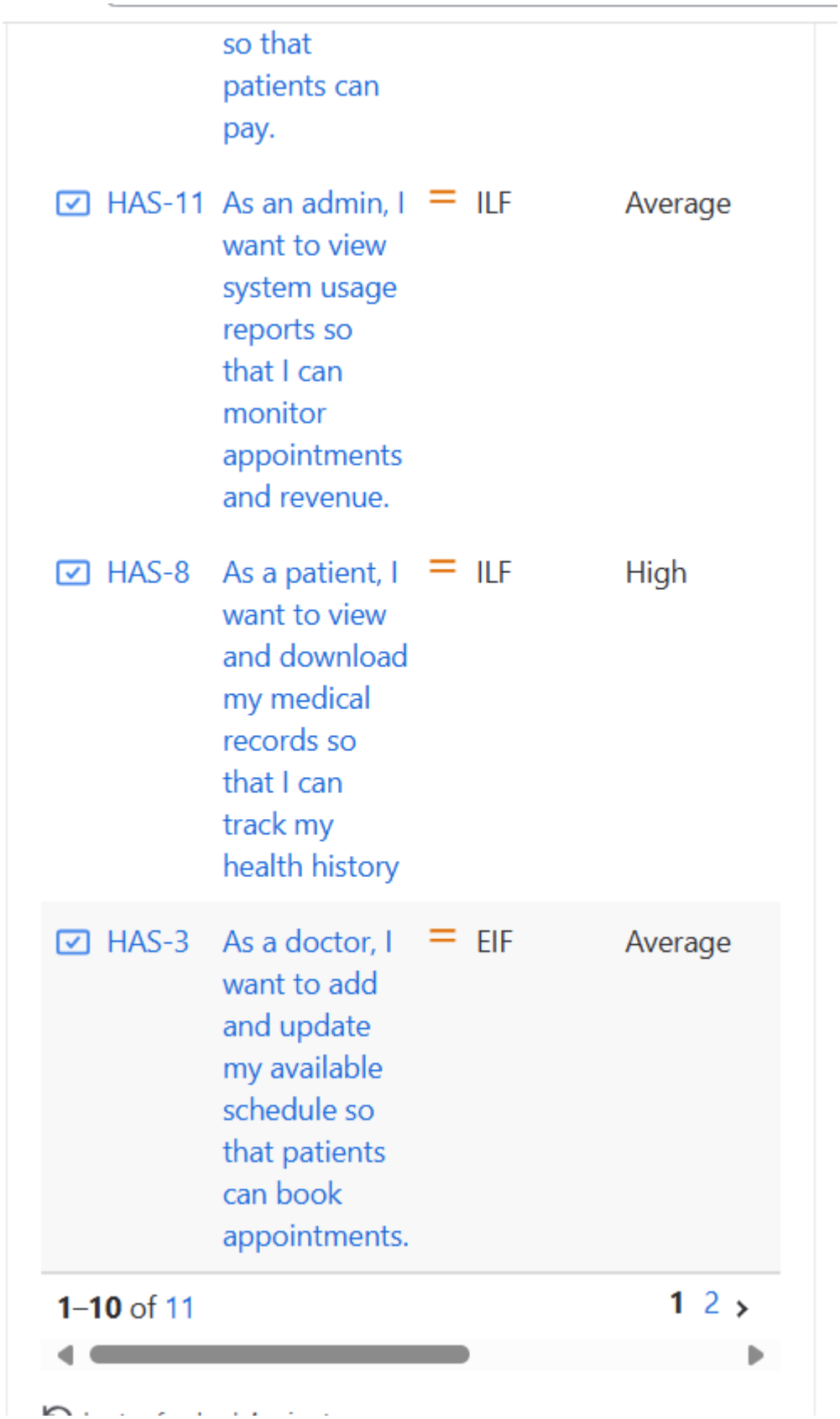
Pie Chart: Healthcare-Ap...



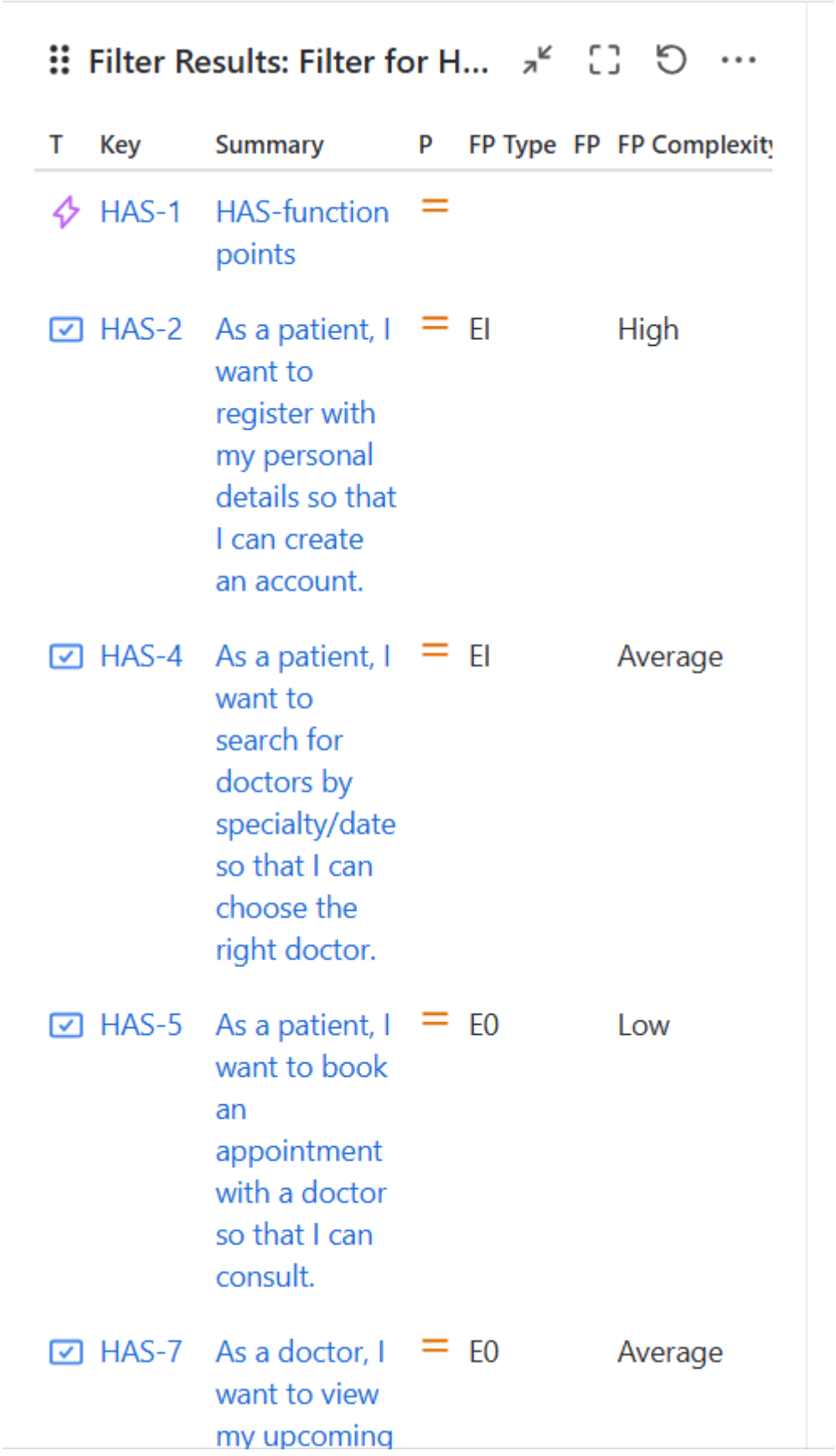
FP Type

Total Issues: **11**

E0	2
EI	2
EIF	2
EQ	2
ILF	2
None	1



- **Table view** of all FP components with their assigned complexity.



- **Number gadget** showing the final Function Point count.

Filter Results: Filter for H...

T	Key	Summary	P	FP Type	FP	FP Complexity
	HAS-1	HAS-function points	=			
	HAS-2	As a patient, I want to register with my personal details so that I can create an account.	=	EI		High
	HAS-4	As a patient, I want to search for doctors by specialty/date so that I can choose the right doctor.	=	EI		Average
	HAS-5	As a patient, I want to book an appointment with a doctor so that I can consult.	=	E0		Low
	HAS-7	As a doctor, I want to view my upcoming	=	E0		Average