

# Software Project Management

## LAB - 6

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### 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.






The screenshot shows the Jira project setup page for 'Healthcare-Appointment-System'. The 'HAS board' is selected. The 'Timeline' view is active, showing a calendar for September, October, and November. The 'Work' section is expanded, showing 'Sprints' and 'Releases'. A search bar is visible at the top left of the timeline view. The 'Epic' dropdown is set to 'Epic', and the 'Status category' is set to 'Status category'. The 'Quick filters' dropdown is also visible.


Work	September	October	November
Sprints			
Releases			
<input type="checkbox"/> > HAS-1 HAS-function points			
+ Create Epic			

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

Projects / Healthcare-Appointment-System

## HAS board ...


 Summary  **Timeline**  Backlog  Active sprints  Ca

 Search timeline



Epic ▾

Status category ▾


Work	ust
Sprints	
Releases	
<input type="checkbox"/> >  <u>HAS-1 HAS-function points</u>	
+ Create Epic	

### 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.

## HAS board ...

 Summary  Timeline  **Backlog**  Active sprints  Calendar  Reports  List 


 Search backlog



Version ▾

Epic ▾

Quick filters ▾

☐ ▾ HAS Sprint 1  Add dates (10 work items)





















56

0


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Start sprint





<input checked="" type="checkbox"/>	HAS-2	As a patient, I want to register with my pe...		TO DO ▾	3	=	
<input checked="" type="checkbox"/>	HAS-4	As a patient, I want to search for doctors ...		TO DO ▾	3	=	
<input checked="" type="checkbox"/>	HAS-5	As a patient, I want to book an appointme...		TO DO ▾	8	=	
<input checked="" type="checkbox"/>	HAS-7	As a doctor, I want to view my upcoming ...		TO DO ▾	3	=	
<input checked="" type="checkbox"/>	HAS-6	As a patient, I want to receive appointmen...		TO DO ▾	5	=	
<input checked="" type="checkbox"/>	HAS-9	As a billing officer, I want the system to g...		TO DO ▾	8	=	
<input checked="" type="checkbox"/>	HAS-11	As an admin, I want to view system usag...		TO DO ▾	8	=	
<input checked="" type="checkbox"/>	HAS-8	As a patient, I want to view and download...		TO DO ▾	8	=	
<input checked="" type="checkbox"/>	HAS-3	As a doctor, I want to add and update my ...		TO DO ▾	5	=	
<input checked="" type="checkbox"/>	HAS-10	As a patient, I want to pay my bills online...		TO DO ▾	5	=	


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

 HAS-1 / ☒ HAS-2

 1







Details

Labels

None

Due date

None

Start date

None


Story Points

3


Sprint

HAS Sprint 1

Priority

 Medium

Parent

 HAS-1 HAS-function points

### Task 3: Identifying Function Point Elements

1. Classify each as one of the following categories:



## 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 ⓘ

<b>Aa</b> Summary	
FP ComplexityHigh	
123 UAF	
FP Complexity	
123 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.

[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

Status

Assignee	
FP Type	
Reporter	
Development To configure this panel, <a href="#">go to Development settings</a> .	
Labels	
Due date	
123 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
FI	1 High	1 Avg
	4	5
EO	1 low	1 Avg
	6	4
EQ	1 High	1 Avg
	10	15
ILF	1 Avg	1 High
	7	5
EIF	1 Avg	1 low

Step 2  $\rightarrow$  calc UFP (unadjusted function points)

$\Rightarrow$  FI (external input)

$$1 \text{ High} \times 6 = 6$$

$$1 \text{ Avg} \times 4 = 4 \quad \Rightarrow \text{FI total} = 6 + 4 = 10$$

$\Rightarrow$  External output (EO)

$$1 \text{ low} \times 4 = 4$$

$$1 \text{ Avg} \times 5 = 5 \quad \Rightarrow \text{EO total} = 4 + 5 = 9$$

$\Rightarrow$  External Inquiries (EQ)

$$1 \text{ High} \times 6 = 6$$

$$1 \text{ Avg} \times 4 = 4 \quad \Rightarrow \text{EQ total} = 6 + 4 = 10$$

$\Rightarrow$  Internal Logical Files (ILF)

$$1 \text{ Avg} \times 10 = 10$$

$$1 \text{ High} \times 15 = 15$$

$$\Rightarrow \text{ILF} = 10 + 15 = 25$$

$\Rightarrow$  EIF (external interface files)

$$1 \text{ Avg} \times 7 = 7$$

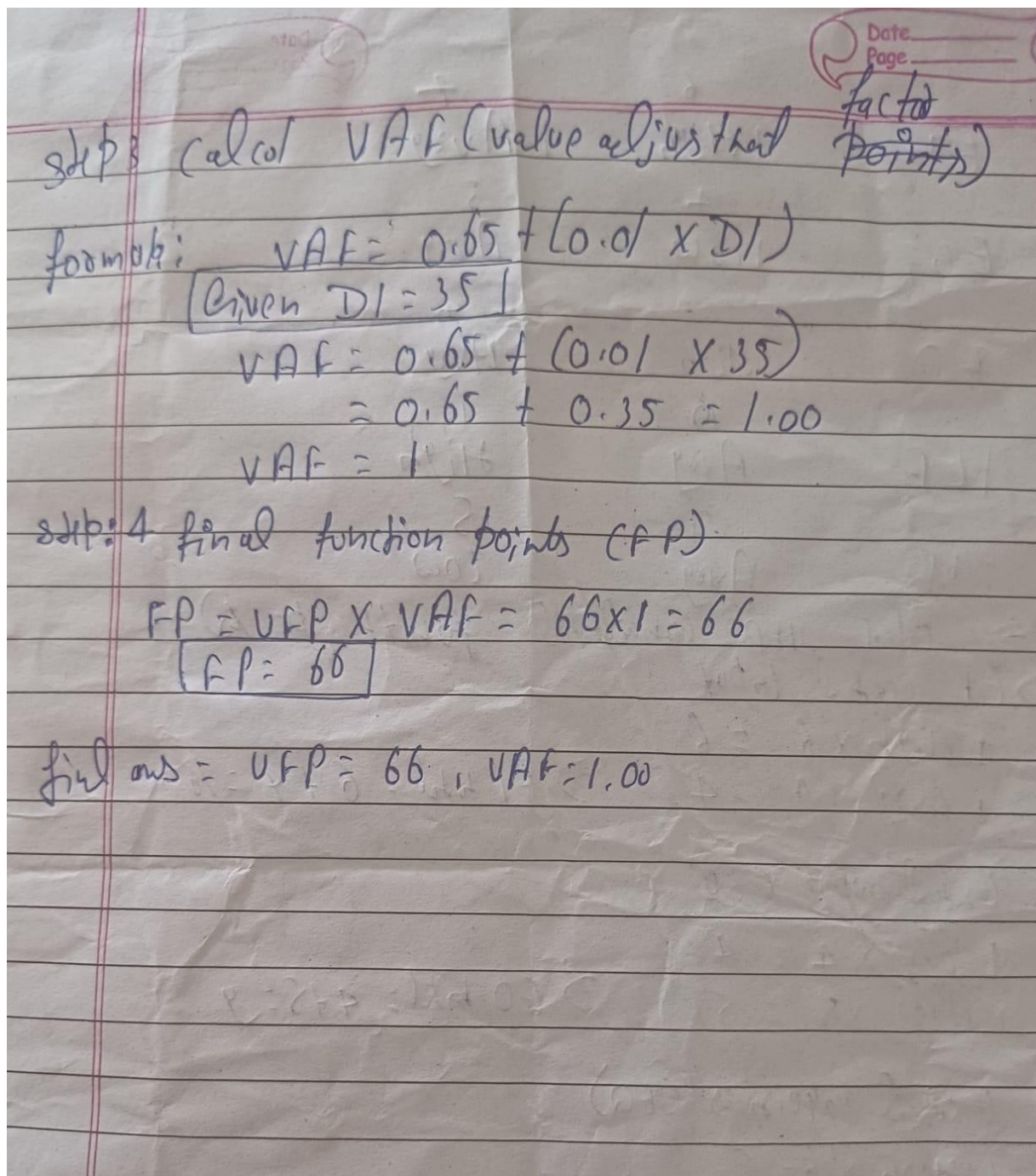
$$1 \text{ low} \times 5 = 5$$

$$\Rightarrow \text{EIF} = 7 + 5 = 12$$

$$\Rightarrow \text{UFP} = 10(\text{FI}) + 9(\text{EO}) + 10(\text{EQ}) + 25(\text{ILF}) + 12(\text{EIF})$$

$$= 66$$



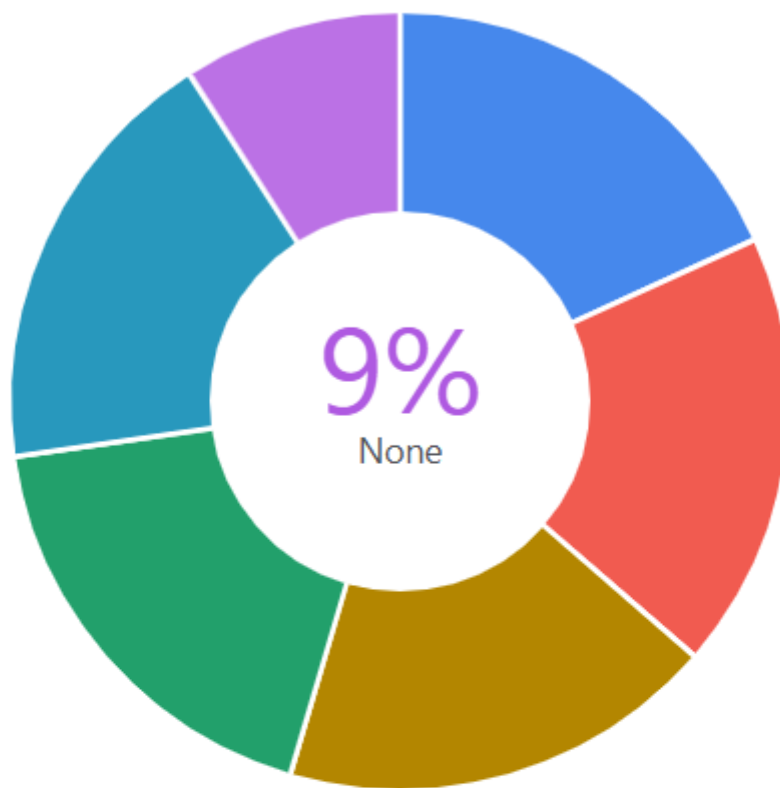


#### Task 5: Reporting & Dashboard Creation

1. Add the following gadgets:

- **Pie chart** for the distribution of function point components.

⌵ Pie Chart: Healthcare-Ap... ↗ ⌜ ↺ ...



## FP Type

Total Issues: **11**

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<span style="color: blue;">■</span> E0	2
<span style="color: red;">■</span> EI	2
<span style="color: gold;">■</span> EIF	2
<span style="color: green;">■</span> EQ	2
<span style="color: teal;">■</span> ILF	2
<span style="color: purple;">■</span> None	1

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so that  
patients can  
pay.

<input checked="" type="checkbox"/>	HAS-11	As an admin, I want to view system usage reports so that I can monitor appointments and revenue.	= ILF	Average
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<input checked="" type="checkbox"/>	HAS-8	As a patient, I want to view and download my medical records so that I can track my health history	= ILF	High
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<input checked="" type="checkbox"/>	HAS-3	As a doctor, I want to add and update my available schedule so that patients can book appointments.	= EIF	Average
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1-10 of 11

1 2 >



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

⌵ Filter Results: Filter for H... ↗ ⌂ ↶ ...

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

- **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	=			
<input checked="" type="checkbox"/>	HAS-2	As a patient, I want to register with my personal details so that I can create an account.	=	EI		High
<input checked="" type="checkbox"/>	HAS-4	As a patient, I want to search for doctors by specialty/date so that I can choose the right doctor.	=	EI		Average
<input checked="" type="checkbox"/>	HAS-5	As a patient, I want to book an appointment with a doctor so that I can consult.	=	E0		Low
<input checked="" type="checkbox"/>	HAS-7	As a doctor, I want to view my upcoming	=	E0		Average

