

HOSTEL MANAGEMENT SYSTEM

GROUP MEMBERS:

- | | |
|--------------------------|-------------------|
| 1. Valerie Anyango Olali | E020-01-0963/2023 |
| 2. Collins Yator | E020-01-0908/2023 |
| 3. Patrick Macharia | E020-01-1078/2022 |
| 4. Arnold Kisuge | E020-01-0968/2023 |
| 5. Dorcus Cheruto | E020-01-2203/2023 |
| 6. Peter Juma | E020-01-0962/2023 |
| 7. Gideon Wafula | E020-01-0930/2023 |

14/01/2026.

PROJECT DESCRIPTION:

This is a system where a tenant can see vacant rooms and register for the one room they desire, pay rent from their account, request room maintenance, and see changes made to the room by the management. The landlord can see the occupied rooms and monitor payments for each tenant and can manage the tenant requests in coordination with the caretaker.

TASK DISTRIBUTION:

Backlog	Peter Juma
Userstory	Arnold Kisuge Dorcus Cheruto Gideon Wafula
Workflow	Collins Yator
Board-View	Valerie Anyango Olali
Full issue detail	Patrick Macharia

Space access

Name	Email	Role	Action
ANORLD OTIENO KISUGE	kisugeanorld7@gmail.com	Multiple (2 rol...)	Remove
Cheruto Dorcas	-	Member	Remove
Collins Yator	-	Member	Remove
olativalerie0	-	Member	Remove
Patrick Macharia	-	Member	Remove
PETER JUMA	-	Administrator	Remove
Wafulagideon533	-	Member	Remove

Backlog:

- HMS-9: User Authentication & Roles** Secure login, role-based access (admin, doctor, nurse, patient, etc.), permissions & audit logs. *Why:* Foundation for security & compliance.
- HMS-10: Room & Allocation Management** Bed/room tracking, patient admission/transfer/discharge, real-time availability & allocation. *Why:* Improves patient flow & hospital occupancy.
- HMS-11: Payment & Billing** Inpatient/outpatient billing, insurance claims, payments, invoices & financial rules. *Why:* Ensures accurate revenue & reduces financial errors.
- HMS-12: Complaints & Feedback** Patient/staff complaint registration, tracking, resolution workflow & satisfaction surveys. *Why:* Boosts patient experience & quality improvement.
- HMS-13: Reporting & Administration** Dashboards, operational/financial/clinical reports, user & system management. *Why:* Provides visibility & supports data-driven decisions.

Work Item	Progress
HMS-9 User Authentication & Roles	100%
HMS-10 Room & Allocation Management	100%
HMS-11 Payment & Billing	100%
HMS-12 Complaints	100%
HMS-13 Reporting & Administration	100%

User story:

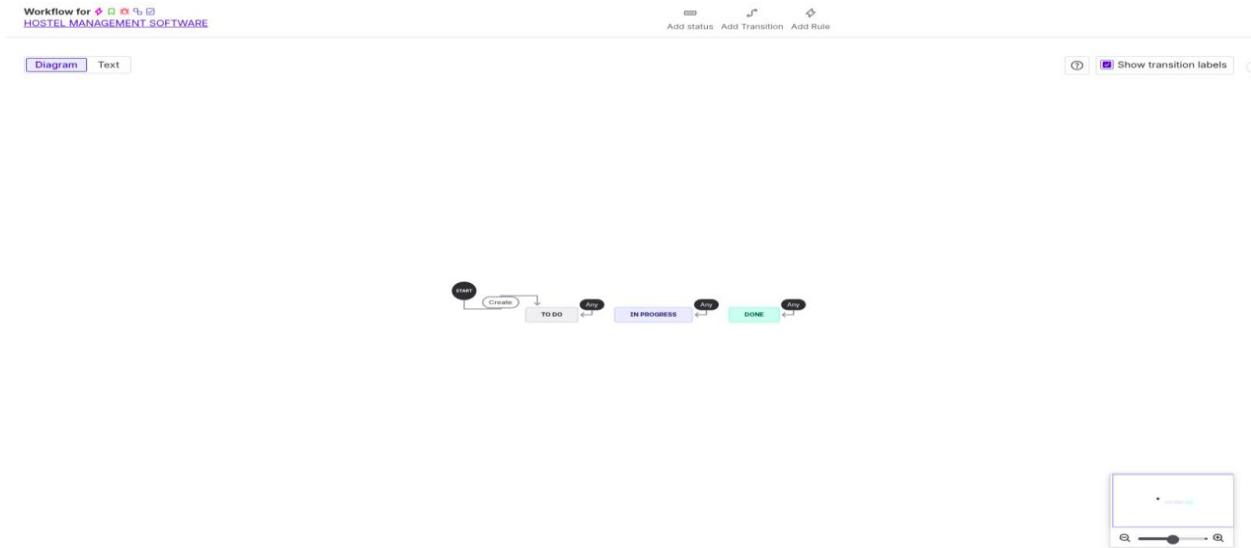
The image shows a *Jira user story backlog* for a *Hostel Management System (HMS)* developed using Agile methodology. Each item (HMS-17 to HMS-25) represents a *functional requirement*, including student and admin login, room allocation, hostel fee payment, complaint management, and report generation. The user stories are grouped into modules such as *User Authentication*, *Room & Allocation*, *Payment & Billing*, *Complaints & Maintenance*, and *Reporting*. All stories are in the "To Do" state, meaning they are planned but not yet implemented. Story points are assigned to estimate effort and support *sprint planning and project tracking* in Jira.

USER STORY		Add dates	(9 work items)	32	0	0	Start sprint	...
<input type="checkbox"/>	HMS-17 Student Login		USER AUTHENTICAT...	TO DO	3	PJ		
<input type="checkbox"/>	HMS-18 Admin Login		USER AUTHENTICAT...	TO DO	3	CY		
<input type="checkbox"/>	HMS-19 Allocate room to students		ROOM & ALLOCATIO...	TO DO	5	PJ		
<input type="checkbox"/>	HMS-20 View Allocated Room		ROOM & ALLOCATIO...	TO DO	3	W		
<input type="checkbox"/>	HMS-21 Pay Hostel Fees		PAYMENT & BILLING	TO DO	8	AK		
<input type="checkbox"/>	HMS-22 Submit Maintenance Complaint		COMPLAINTS & MAI...	TO DO	3	D		
<input type="checkbox"/>	HMS-23 Update Complaint Status		COMPLAINTS & MAI...	TO DO	2	CD		
<input type="checkbox"/>	HMS-24 Generate Occupancy Report		REPORTING & ADMI...	TO DO	3	PAF		
<input type="checkbox"/>	HMS-25 View Payment Report		PAYMENT & BILLING	TO DO	2	W		

Workflow:

The workflow image shows how a task moves through the system from start to finish.

A task is first created at the start. After creation, it is placed in the TO DO state, meaning the task is waiting to be worked on. When someone begins working on it, the task moves to IN PROGRESS. Once the work is completed, the task is marked as DONE.



Board View:

This figure below illustrates the Jira Scrum board view for the Hostel Management Software during an active sprint. The board visually organizes user stories into workflow columns such as To Do, In Progress, and Done, allowing the development team to monitor task status and progress in real time. Each card represents a user story, labeled by functional modules including Payment and Billing, Complaints and Maintenance, Room and Allocation Management, and Reporting and Administration, with associated story point estimates and assigned team members. The board supports Agile project management by improving visibility, collaboration, and efficient sprint tracking, ensuring timely delivery of system features

The screenshot shows a Jira Scrum board for the "HOSTEL MANAGEMENT SOFTWARE" project. The board is organized into three main columns: TO DO, IN PROGRESS, and DONE. The DONE column currently contains 9 items. The IN PROGRESS column contains 8 items, and the TO DO column contains 2 items. Each item is represented by a card with the following details:

- Pay Hostel Fees** (PAYMENT & BILLING): Story point 8, due Jan 28, 2026, assigned to HMG-21.
- View Payment Report** (PAYMENT & BILLING): Story point 2, assigned to HMG-25.
- Update Complaint Status** (COMPLAINTS & MAINTENANCE): Story point 2, assigned to HMG-23.
- Generate Occupancy Report** (REPORTING & ADMINISTRATION): Story point 3, assigned to HMG-24.
- View Allocated Room** (ROOM & ALLOCATION MANAGEMENT): Story point 3, assigned to HMG-20.
- Submit Maintenance Complaint** (COMPLAINTS & MAINTENANCE): Story point 3, assigned to HMG-22.
- Allocate room to students**: Story point 1.

At the top of the board, there are navigation links for Summary, Backlog, Board, Timeline, List, Forms, Development, and Pages. On the right side, there are buttons for "Complete sprint", "Group", and "Quickstart".

Full Issue Detail:

Jira work item

HMS-28 / HMS-21

Pay Hostel Fees

...

+

Description

As a student, I want to pay hostel fees online, so that I don't need to visit the office.

Subtasks

...

0% Done

Work	P...	A...	Status
↳ HMS-34 Hostel Fees	= M	👤	TO DO

Linked work items

Add linked work item

Confluence content

Product requirements

TRY TEMPLATE

Activity

All Comments History Work log

Add a comment... Looks good! Need help? This is blocked... >

Pro tip: press **M** to comment

AK ANORLD OTIENO KISUGE 3 seconds ago

Looks Good

...

Done ✓

Done

Your pinned fi...

Parent

HMS-28 Payment & Billing

Details

Assignee ANORLD OTIENO KISUGE

Labels None

Due date Jan 28, 2026

Team None

Start date Jan 14, 2026

Sprint USER STORY +1

Story point estimate 8

Development

Create branch

Create commit

Reporter