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
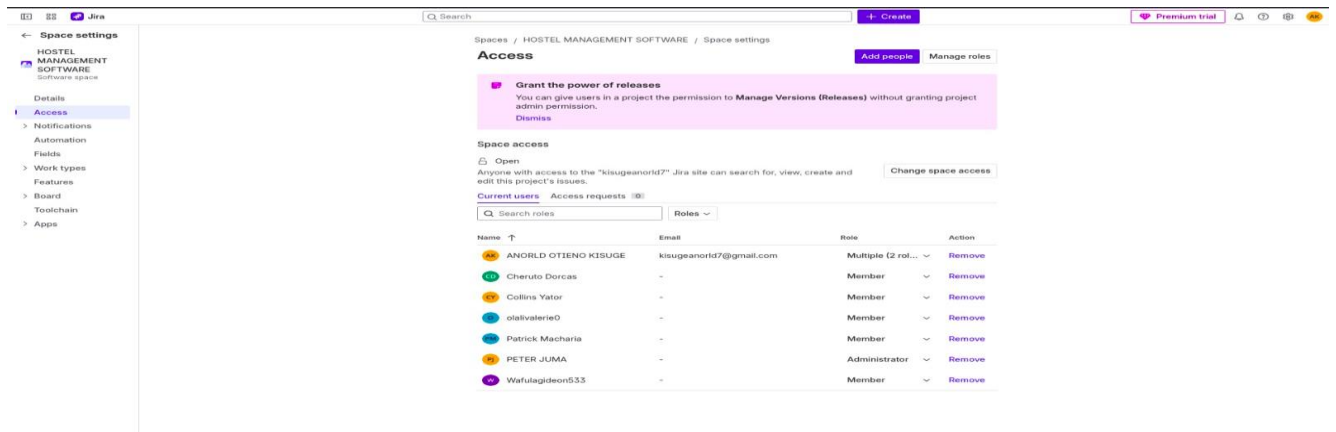7. Gideon Wafula   E020-01-0930/2023

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

Backlog:

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

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.
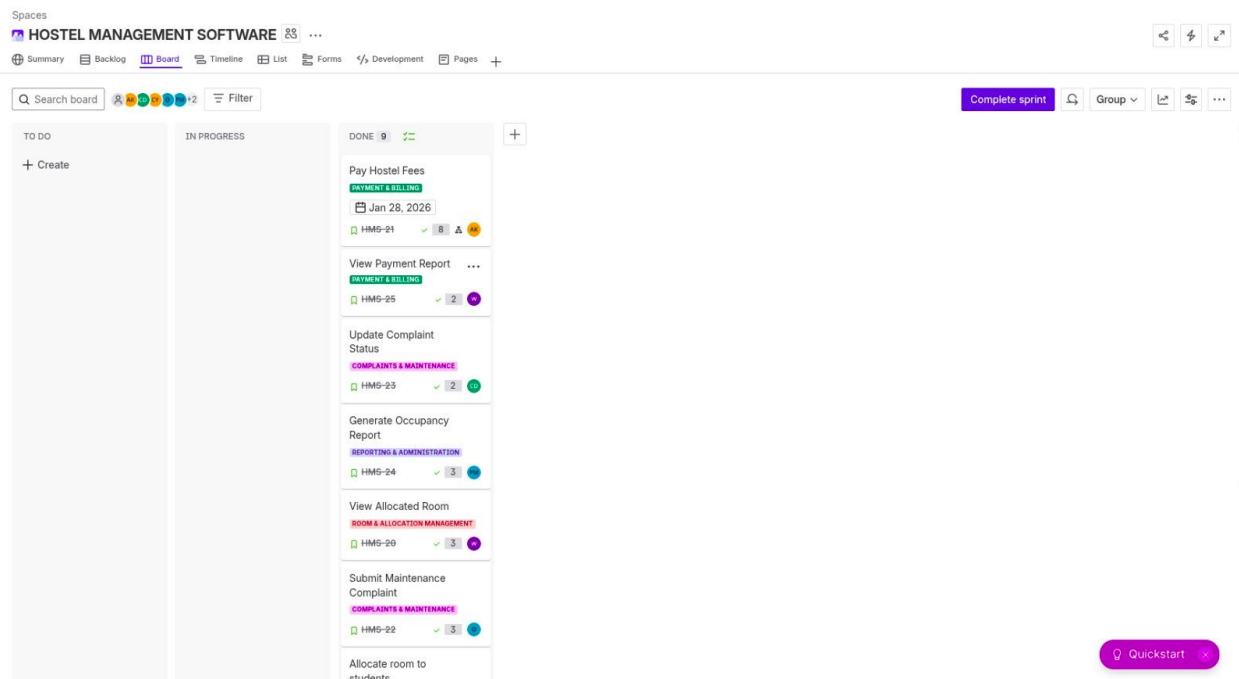
Workflow:

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

Full Issue Detail: