

# MAKERERE

P. O. Box 7062 Kampala Uganda  
Website: [www.mak.ac.ug](http://www.mak.ac.ug)



# UNIVERSITY

Tel: +256-414-542803  
Email: info[@]mak.ac.ug

COLLEGE OF COMPUTING AND INFORMATION SCIENCES

SCHOOL OF COMPUTING AND INFORMATICS  
TECHNOLOGY

DEPARTMENT OF NETWORKS

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

**COURSE UNIT:** EMERGING TRENDS IN SOFTWARE ENGINEERING

**COUSECODE:** BSE4101

## **Week 1: Project Setup and Version Control Report**

NAME	REGISTRATION NUMBER
NANKYA ELSA	22/U/21893
NASSAZI TAKIA	22/U/6674
AMPAIRE STACEY NUWAGABA	22/U/2947/PS

# 1 Project Overview

Our team successfully established the foundational infrastructure for the Mall Rent Management System, a web application designed to streamline rent payment processes for shopping malls in Uganda. The system features a React TypeScript frontend with Tailwind CSS styling and a Django REST Framework backend connected to PostgreSQL.

## 2 Repository Setup

We initialized version control using Git and created a remote repository on GitHub following the required naming convention: BSE\_25\_6\_MALL\_RENT\_MANAGEMENT\_SYSTEM. The repository structure includes:

- **Frontend directory:** React application with TypeScript, Vite build tool, and Tailwind CSS
- **Backend directory:** Django project with REST Framework, custom user authentication, and PostgreSQL integration
- **Documentation:** Comprehensive README.md with setup instructions, API documentation, and team workflow guidelines.

## 3 Technical Implementation Decisions

### i. Frontend Architecture

- **React with TypeScript:** Chosen for type safety and better development experience
- **Vite:** Selected as build tool for faster development and hot module replacement
- **Tailwind CSS:** Implemented for rapid UI development and consistent styling
- **Axios:** Used for API communication with the Django backend

### ii. Backend Architecture

- **Django with REST Framework:** Selected for rapid API development and built-in admin interface
- **PostgreSQL:** Chosen as the database for reliability and scalability
- **Custom User Model:** Implemented to support tenant-specific fields and authentication

## 4 Task Management with ClickUp

Our team utilized ClickUp to organize Week 1 deliverables with clear task assignments:

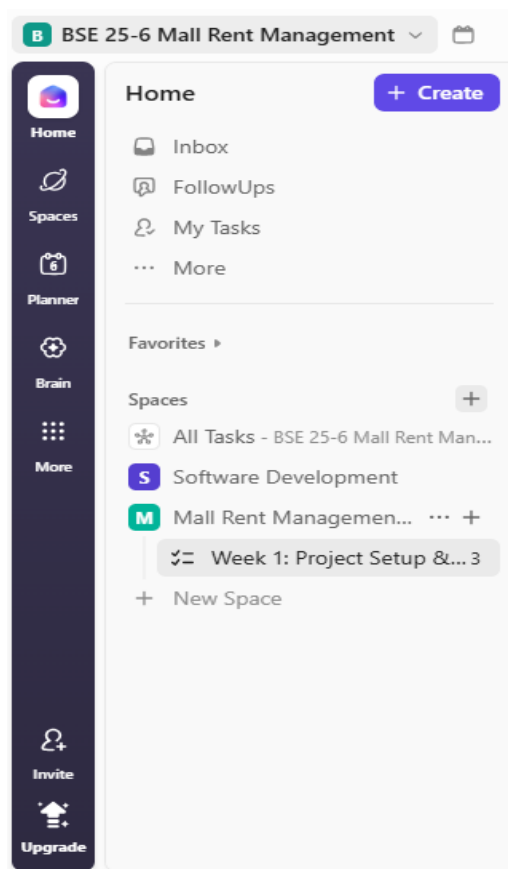
### 4.1 Task Assignments:

- **Project Setup & Version Control:** Technical infrastructure setup including repository creation, frontend/backend configuration, and ClickUp setup.
- **README Documentation:** Comprehensive documentation covering installation procedures, project structure, and development guidelines
- **Setup Report:** Documentation of setup process, technical decisions, and project management screenshots

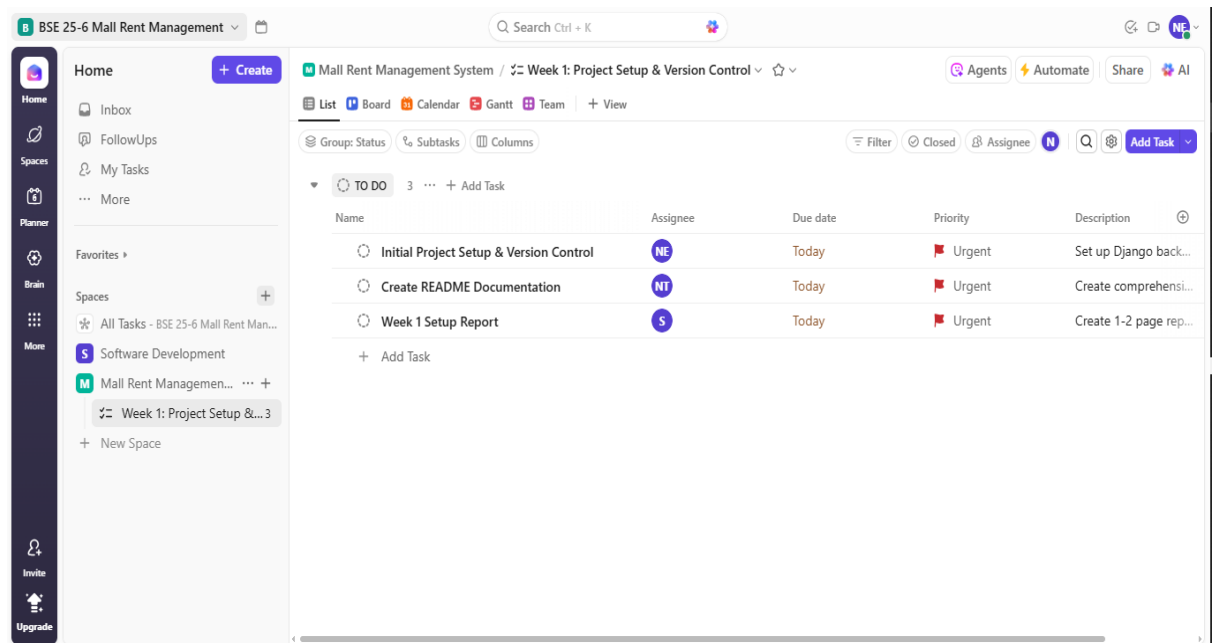
All tasks were assigned September 6, 2025 deadlines and tracked using ClickUp's project management features including status tracking, priority levels, and team collaboration tools.

## 5 ClickUp Task Management Screenshots

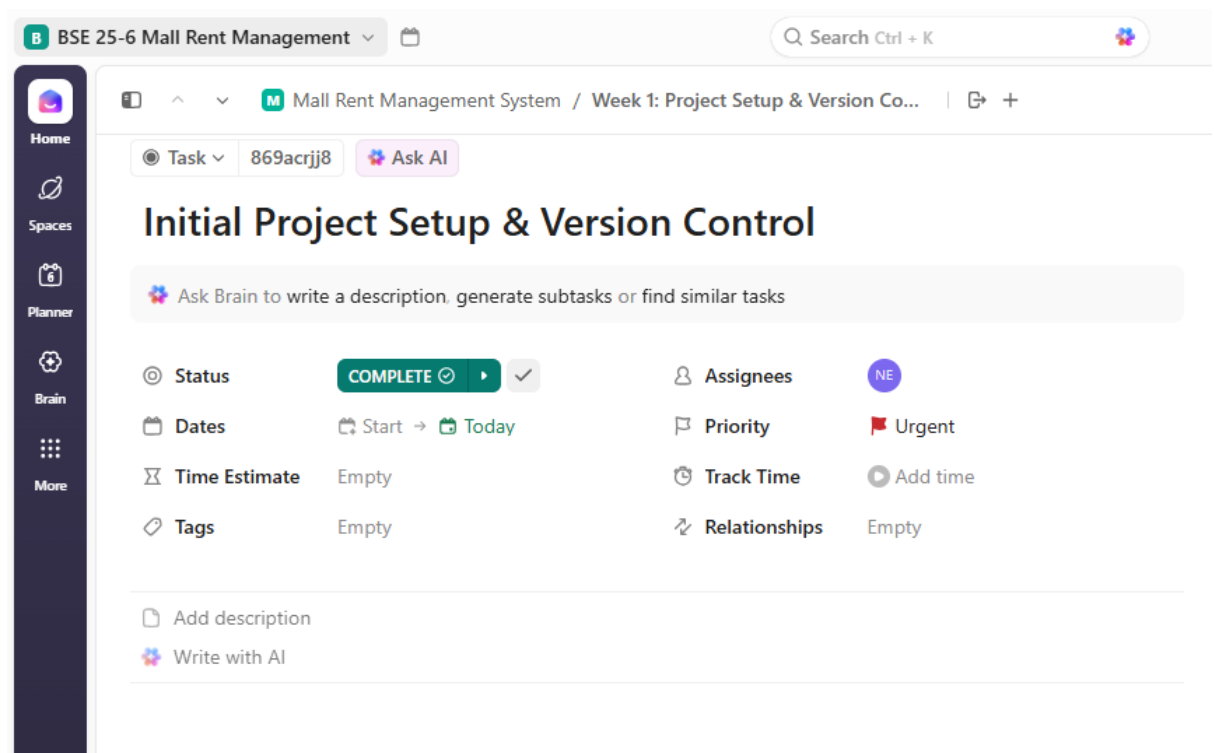
### 5.1 Figure 1: ClickUp Workspace Overview



## 5.2 Figure 2: Task Assignment Dashboard



## 5.3 Figure 3: Individual Task Details



Task 1: Initial Project Setup & Version Control

BSE 25-6 Mall Rent Management

Search Ctrl + K

Mall Rent Management System / Week 1: Project Setup & Version Co... Created on Sep 6 Share

## Week 1 Setup Report

Ask Brain to write a description, generate subtasks or find similar tasks

Status: COMPLETE ✓

Assignees: SA

Dates: Start → Today

Priority: Urgent

Time Estimate: Empty

Track Time: Add time

Tags: Empty

Relationships: Empty

Add description

Write with AI

### Activity

SA Stacey Ampaire 1 hour ago

Report draft is being prepared, will finalize after screenshots are added.

Like Reply

You changed status from In Progress to Complete 1 hour ago

SA Stacey Ampaire Just now

Report complete

Like Reply

Comment Email

Task 2: Week 1 Setup Report

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Mall Rent Management System / V To exit full screen, press and hold Esc Created on Sep 6 1 Share

## Create README Documentation

Ask Brain to create a summary, generate subtasks or find similar tasks

Status: COMPLETE ✓

Assignees: NT

Dates: Start → Today

Priority: Urgent

Time Estimate: Empty

Track Time: Add time

Tags: Empty

Relationships: Empty

### Activity

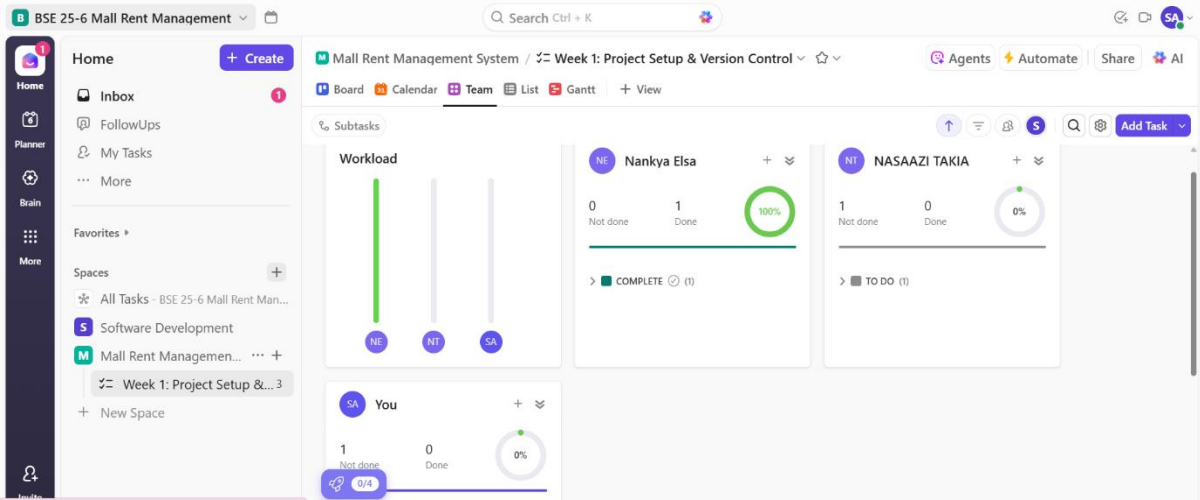
Show more

NASAAZI TAKIA merged task: #869acvx15 ReadMe documentation into this task 44 mins

Write a comment... Send

Task 3: Create README documentation

5.4 Figure 4: Team Members View



Team 1: Team Members and their progress at a specific time