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

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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
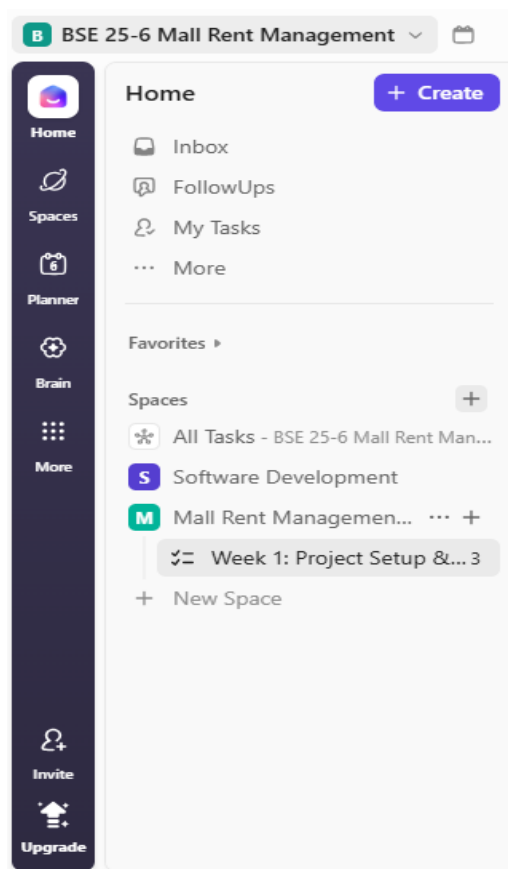
5.2   Figure 2: Task Assignment Dashboard
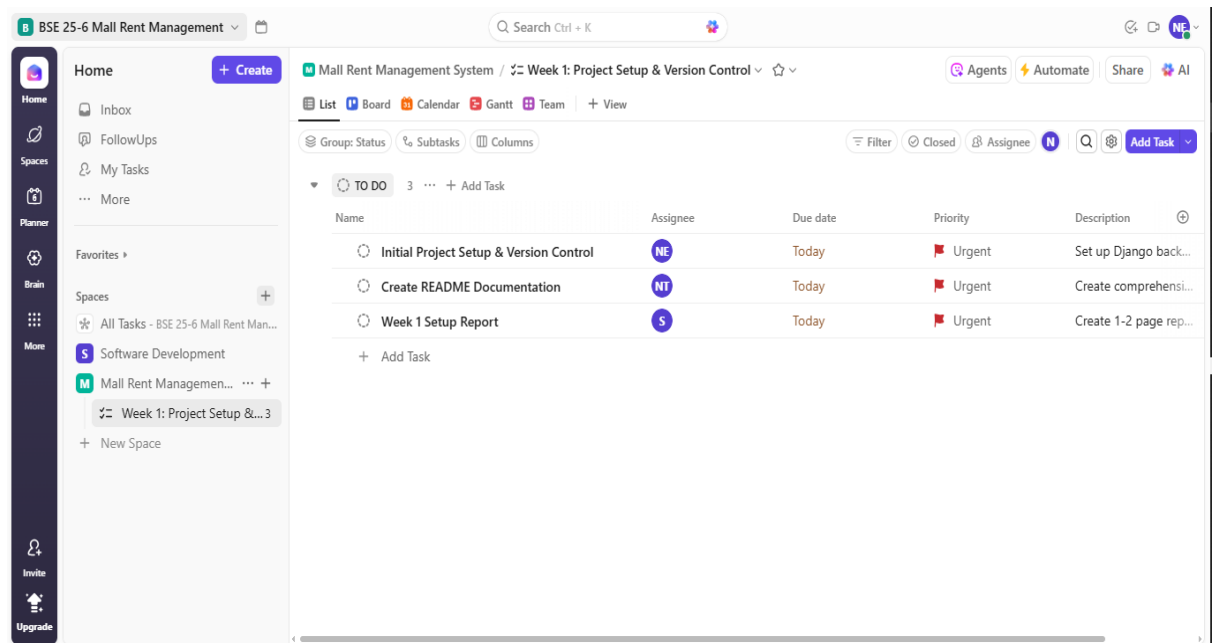
5.3   Figure 3: Individual Task Details
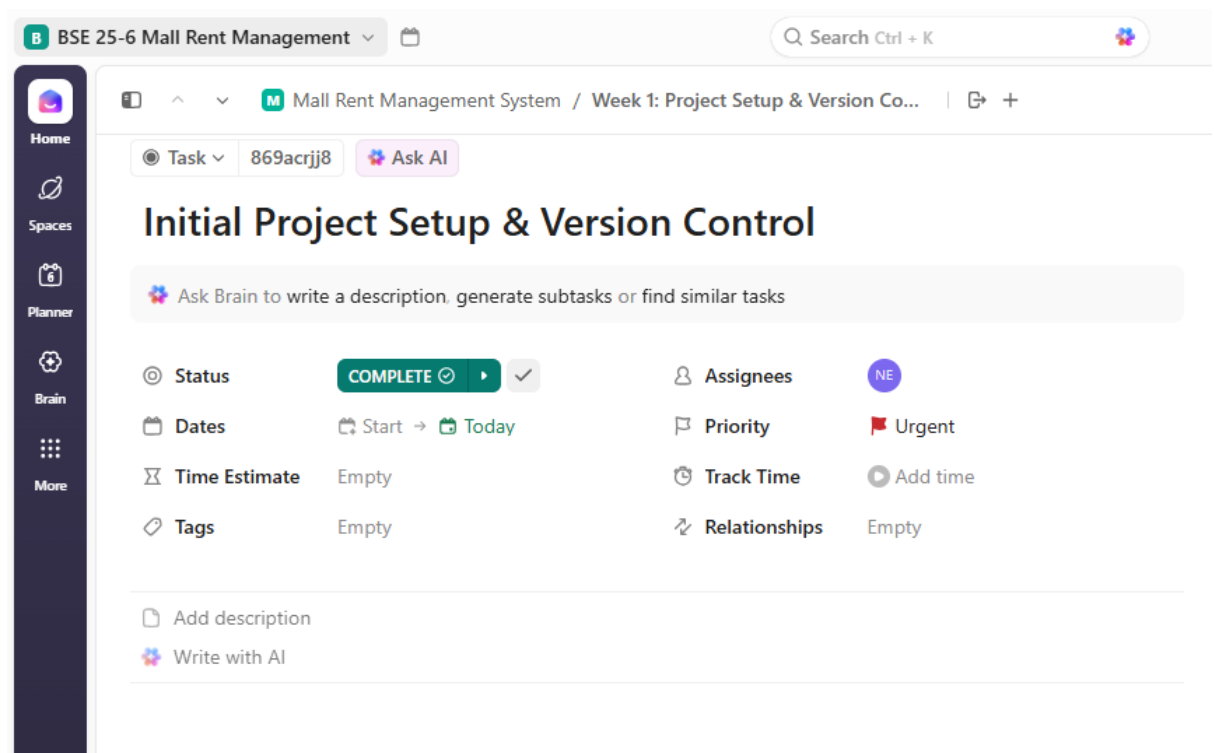
Task 1: Initial Project Setup & Version Control

Task 2: Week 1 Setup Report

Task 3: Create README documentation

5.4 Figure 4: Team Members View
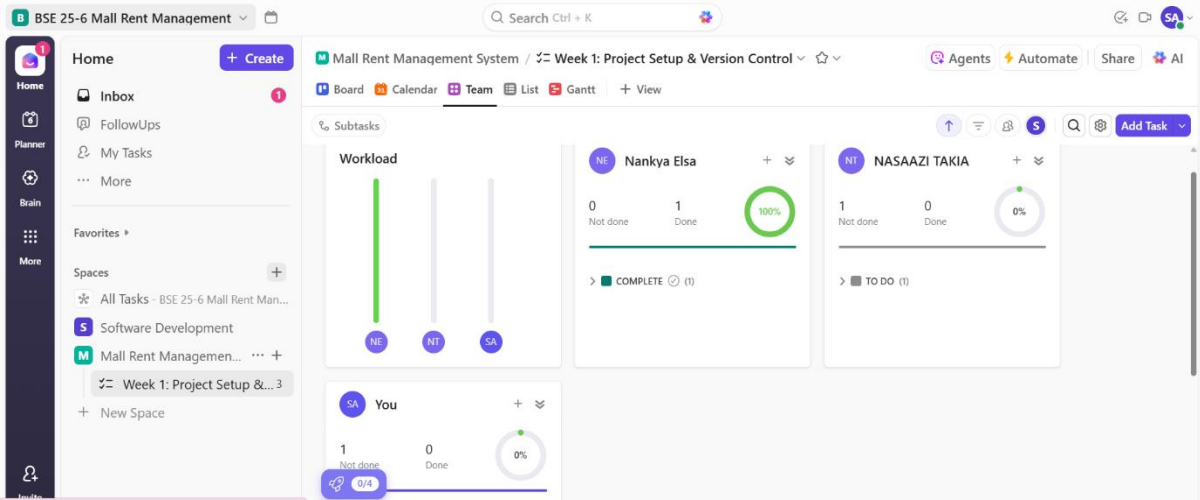
Team 1: Team Members and their progress at a specific time