

The existing paper-based dormitory management system faces several significant problems and challenges, which include:

- o Manual Data Entry and Record-Keeping: This takes a long time, can have mistakes, and needs a lot of work from administrators.
- o Ineffective Communication: Physical memos, notices, and forms are utilized to share information between dormitory staff, residents, and administrators.
- o Limited Reporting and Analysis: Creating reports and analysing data for dormitory management is time-consuming and may be inaccurate.
- o Costly and Resource-Intensive: Maintaining a paper-based system requires a significant investment in storage space and printing.
- o Room Assignment Challenges: Assigning rooms to students manually can be complex, especially when considering preferences, availability, and special accommodations. This can lead to inequitable room assignments and increased administrative workload.
- o Lack of Transparency: Residents may have limited access to their own records, including payment histories and room assignments. Such circumstances may result in communication breakdowns, miscommunications, and obstacles to the delivery of critical data.