

ABSTRACT

Land limitations in urban areas have made boarding houses a widely chosen residential alternative, particularly among students and workers. However, the confined spaces in boarding houses often lack adequate storage facilities for food and beverage needs, such as water gallons, rice cookers, and other food ingredients. In response to this issue, this study aims to design a space-saving, flexible, and adaptable modular pantry station tailored to boarding house conditions. The design process employed a User-Centered Design (UCD) approach, involving data collection through observation, interviews, surveys of boarding house residents, and literature reviews. The resulting product is a modular pantry rack made of multiplex, designed to be disassembled, reassembled, and rearranged according to user needs. Validation results yielded an average user satisfaction score of 80%, indicating that most design aspects were adequately fulfilled. However, some respondents provided feedback on usability challenges, including the weight of the modules, which complicates lifting and rearrangement. These findings serve as considerations for further product development to enhance user comfort and efficiency in space-constrained environments.

Keywords: *pantry station; modular; boarding house; UCD; validation.*