

ABSTRACT

The design of this multifunctional pet furniture aims to address the needs of cat owners living in limited residential spaces, particularly in urban areas. This research is motivated by the growing trend of cat ownership that is not matched by adequate living space, leading to various issues such as damaged furniture, lack of play areas, and restricted mobility, which affect both feline well-being and owner comfort. Therefore, the main objective of this design is to create a product that integrates storage, sleeping area, play area, scratching surface, table, seating, and litter box into a single, compact, functional, and aesthetically pleasing design. This study adopts a qualitative approach through observations, questionnaires, interviews, literature reviews, and analysis of existing products. The design process follows a structured design method, covering problem identification to concept development, with idea exploration using the SCAMPER technique. Ergonomic aspects are also considered, based on anthropometric data of users aged 17–45 and natural feline behavior.

The findings indicate that an ideal pet furniture design must be pet-friendly, space-efficient, easy to assemble, and low-maintenance. The choice of materials and form also takes into account safety, comfort, and ease of integration within small spaces. This design is expected to offer a functional solution while enhancing the quality of interaction between pet owners and their cats in space-constrained environments.

Keywords: *Pet Furniture, Multifunctional, Animal Welfare, Limited Space, Product Design.*