

ABSTRACT

The trend of folding-bike bicycles that increased at the beginning of the COVID-19 pandemic made urban communities want to have bicycles that were practical and easy to carry. So that it can make it easier for users when traveling in the area around the house. And this bike has a design that is suitable for urbanites. Because in addition to the use of bicycles which are not only for exercise but have become a means of daily transportation in the city. So the folding-bike type is very popular with the public, judging by the significant increase in prices on Brompton bicycles. Until now, there are many manufacturers that produce folding-bike type bicycles. Until the trend upgrading conventional bicycles to e-bikes is increasing rapidly at this time. Judging from the growing community and government support regarding electric components Electrical must have high safety because they are directly related to electric current. So we need a design that makes a mid-frame for folding e-bike components so that the components are safe when cycling. By using the scamper method in in-depth design exploration through existing products as design considerations. as well as searching for observation data and interviews with the bandung stream community.modified Dahon vybe d7 folding bike model mid-frame . Produce designs in the form of prototype models of folding bike frames and folding bike hinges.

Keywords: *Frame, Upgrade, Folding e-bike,*