

## ***ABSTRACT***

The rider of an old Vespa Scooter from the Surakarta Mods Squad community faces challenge during long distance trips, causing delays in reaching their destination. The advance toolbag provide tools and equipment to help ols Vespa scooter riders on long distince journeys. This innovation includes compartements for an electric pump and protective cover for the spare tire, addressing the specific challenges identified from collected data. Yhe desaign process utilizes a mixed method research approach, combining quantitative and qualitative methods with a case study approach, and employs user centered design, which focuses on the user. The goal of this design is to create a functional advance toolbag tailored to needs of old Vespa Scooter riders, with the case study of the Surakarta Mods Squad.

Keyword: Advance toolbag, Long distance travel, Surakarta Mods Squad community