INTISARI

Proses penyewaan alat *outdoor* yang masih dilakukan secara manual menimbulkan kendala, seperti sulitnya mengecek ketersediaan barang, pencatatan transaksi yang kurang rapi, serta pemantauan status penyewaan yang tidak terstruktur. Penelitian ini bertujuan merancang dan membangun *website* penyewaan alat *outdoor* yang dapat meningkatkan akurasi data, keamanan akses, transparansi informasi, dan efisiensi pelayanan. Variabel penelitian mencakup komponen sistem berupa data barang (jenis barang dan produk), data pengguna, data *booking*, status *booking*, pembayaran melalui transfer dengan unggah bukti pembayaran, serta fitur pesan pengguna kepada admin (satu arah). Metode pengembangan yang digunakan adalah *Extreme Programming* (XP) melalui tahapan *planning, design, coding, dan testing*, dengan metode pengujian berupa *black box testing* dan evaluasi penerimaan pengguna menggunakan skala Likert. Hasil penelitian menunjukkan *website* berhasil dikembangkan dengan fitur pengguna berupa registrasi, login, melihat daftar dan detail barang, melakukan *booking*, mengunggah bukti pembayaran, melihat status dan riwayat penyewaan, serta mengirim pesan. Pada sisi admin tersedia *dashboard*, pengelolaan jenis barang dan produk, pengelolaan transaksi berdasarkan status, pengelolaan data *user*, pengelolaan halaman informasi, dan laporan penyewaan. Pengujian black box menunjukkan fungsi sistem berjalan sesuai keluaran yang diharapkan, sedangkan uji skala Likert memperoleh nilai indeks 83,24% dengan kategori sangat setuju. Kesimpulannya, *website* yang dibangun layak digunakan karena mampu menata proses penyewaan menjadi lebih sistematis, memudahkan pemantauan transaksi, serta meningkatkan efektivitas pelayanan dan pengelolaan data penyewaan pada Teras Outdoor.

Kata kunci: *website*, penyewaan alat *outdoor*, *Extreme Programming*, black box, skala Likert

ABSTRACT

The manual outdoor equipment rental process presents challenges, such as difficulty in checking item availability, messy transaction recording, and unstructured rental status monitoring. This study aims to design and build an outdoor equipment rental website that can improve data accuracy, access security, information transparency, and service efficiency. The research variables include system components such as item data (item and product types), user data, booking data, booking status, payment via transfer with proof of payment upload, and a one-way message feature for users to the admin. The development method used is Extreme Programming (XP) through the stages of planning, design, coding, and testing, with testing methods in the form of black box testing and user acceptance evaluation using a Likert scale. The results show that the website has been successfully developed with user features such as registration, login, viewing item lists and details, making bookings, uploading proof of payment, viewing rental status and history, and sending messages. On the admin side, there is a dashboard, managing item and product types, managing transactions based on status, managing user data, managing information pages, and rental reports. Black box testing shows that the system functions according to the expected output, while the Likert scale test obtained an index value of 83.24% with a strongly agree category. In conclusion, the website developed is suitable for use because it can organize the rental process more systematically, facilitate transaction monitoring, and increase the effectiveness of service and rental data management at Teras Outdoor.

Keywords: website, outdoor equipment rental, Extreme Programming, black box, Likert scale