

Requirements for the Wheels system

The new Wheels system must:

- R1 keep a complete list of all bikes and their details including bike number, type, size, make, model, daily charge rate, deposit (this is already on the Wheels system)
- R2 keep a record of all customers and their past hire transactions
- R3 work out automatically how much it will cost to hire a given bike for a given number of days
- R4 record the details of a hire transaction including the start date, estimated duration, customer and bike, in such a way that it is easy to find the relevant transaction details when a bike is returned
- R5 keep track of how many bikes a customer is hiring so that the customer gets one unified receipt not a separate one for each bike
- R6 cope with a customer who hires more than one bike, each for different amounts of time
- R7 work out automatically, on the return of a bike, how long it was hired for, how many days were originally paid for, how much extra is due
- R8 record the total amount due and how much has been paid
- R9 print a receipt for each customer
- R10 keep track of the state of each bike, e.g. whether it is in stock, hired out or being repaired
- R11 provide the means to record extra details about specialist bikes.