

## Exercise 3.9 Quick Bites system

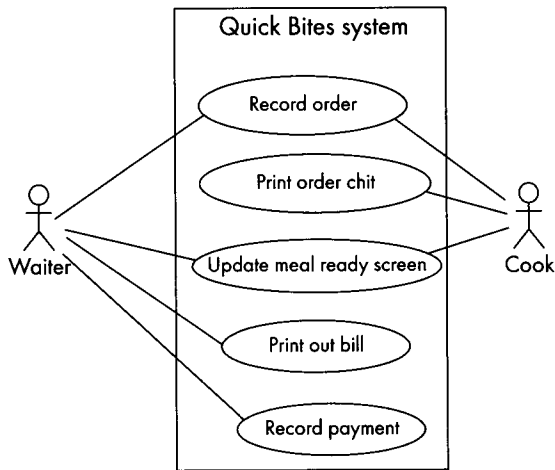


Figure E.11 Quick Bites use case diagram

Both the Waiter and the Cook are associated with the use case 'Record order': the Waiter inputs the order to the system and the Cook receives it – he reads it from his screen. The same two actors are associated with the use case 'Update meal ready screen': the Cook inputs the information and the Waiter receives it and updates the screen when he has served a customer.

## Exercise 3.10

If you notice that two or more of the use cases have a chunk of functionality in common, it may be worth extracting the common functionality and putting it in a new use case. The new use case must then be linked to the ones from which you originally extracted the functionality by an «include» relationship. The new use case then provides functionality that is integral to any use case linked to it by an «include» relationship. This is conceptually very similar to using a function or procedure in a computer program. It is an economical way of reusing functionality.

## Exercise 3.11

If we want to specify a chunk of behaviour that is additional or exceptional to the normal sequence of events in a use case, we can create a new use case for that behaviour and specify an «extend» relationship between the new and the original use cases.