

Scenario for the ISAD151 Group Assignment

You have been asked by the manager of the SPOCK Games rental shop to replace their existing system for recording rentals. Information about the shop is provided below. You will be developing a new system for the shop, using a prototyping approach.

Information collected during an investigation of the SPOCK Games Rental Shop

A Games Rental shop holds numerous games from a number of different developer companies. Previously the shop has kept records of the rentals of using an old system originally intended just for PC games but this is no longer commercially supported. The manager of the shop wants to replace the old system with a more efficient and useful one. The new system needs to deal only with games of different types such as Wii, Xbox, PlayStation, etc.

There are two aspects required for the new system: the rentals and the catalogue. The rental aspect should keep track of the shop's "members" and games rented to them. The catalogue should hold product details of the games including developers as well as reviews and highlights.

The distribution companies who produce the game give their own unique catalogue number to each different game. Some games are in sets containing more than one disk. Most of the games are feature games and there is often more than one copy of the same game held by the shop. The number of copies depends on popularity and demand. Every individual copy of a game is identified by a unique stock number, which is allocated by the manager of the shop when the item comes into stock. A set of disks counts as one stock item.

A member of the public who wants to rent a game must first register their details to become a member. Each rental is for a specified period agreed at the time of rental (up to a maximum of 2 weeks), after which it can be renewed provided that there is no outstanding reservation for the same item. Normally a maximum of 2 games can be rented at the same time by one member. The issuing, renewal and return of games is carried out by a shop assistant at the shop counter.

The cost of each rental is based on a scale of daily rates. Very new games are usually charged at the highest rate and there are a number of rates for other games. Renewals are charged at the same daily rates as the initial loan. If a member wants to rent a game and all the copies are already on loan, then they may make a reservation. If rentals are returned late then additional charges will be made for the extra days at twice the normal daily rate for the item.

In order to ensure that additional copies are obtained for popular items, the manager needs to keep track of the rental history of the games and he will require various reports on the rentals. For audit purposes it will also be

necessary to keep a record of each rental by a member after the game has been returned.

The manager of the shop wants to provide members with access to the electronic catalogue of the game collection via a terminal in the shop. This should allow a member to browse by genre, or to look for a specific game, or to search in different ways such as by release date, age rating or category. To make this into a useful resource the manager would like to hold brief product details as well as reviews of games where appropriate. The catalogue may eventually be made available to borrowers via the Internet but this is **not** part of the current requirements.



The Manager