

A1: PC Auctions

It is intended to develop an information system with a web interface to support an online auction service for PCs and respective components. Any registered user can place items up for auction or bid on items available. The system should automatically manage the bidding deadlines and determine the winning bid. System managers are allowed to stop auctions, block accounts or delete content.

We think that, nowadays, it would be useful to have an application that allows the auction of PCs, either pre-made (by which we intend laptops and towers with and without peripheral devices) or by components and peripheral devices, for an accessible and dynamic price. We aim to proportionate a specific and exclusively dedicated system for these technologies whose use is exponentially increasing and represents a large part of the global sales business. We hope that this application helps enhancing the habit of re-utilizing hardware materials that are functional but not necessary to the owner.

The platform will have an adaptive design, allowing the user to have a pleasant browsing experience, regardless of the access device (desktop, tablet or smartphone). The technology used will also allow fluent usage in navigation and provide an excellent user experience. In this way, the search engines will be fast and assertive, allowing users to easily search items by name, type or brand, for example. We aim to provide security to sellers, creating safe mechanisms such as an optional existence of a minimal price for each auction and the inclusion of type of auction including the minimum increment step for bidding but also to buyers, implementing a clear control of comments and a fair trading system, and providing the use of registering and payment tools as Google and PayPal.

Users are separated into groups with different permissions. There must be administration usage profiles, with all the privileges of approval and modification of auctions' data and also to prepare and manage the auctions themselves, including blocking users or auctions as necessary. These users don't have permission to sell or buy items for auction. There is also a mid-level usage profile, the moderators. These have some of the administrators privileges with the exception of blocking users and/or stop ongoing auctions. These users were created also to ensure a clean comment section and have part in the auction acceptance phase, were an auction can be blocked if it does not meet certain criteria (allowed categories/parts/brands). There also must be registered users usage profiles, with privileges to enter information, sell and buy individual items, consult the information, register comments for the items and evaluate the items. There must also be API usage profiles used for payment service and register and login services.

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