

BUYLAP

Software Requirement Specification

Aim of the document

The following document describes the project specifications developed by Iurato Chiara during the academic year 2021/2022 for the software engineering and web design course. The purpose of this document is to illustrate the functionality of the application and the principles of software design.

Overview of the defined system

BuyLap is an application that helps everyone to discover the perfect PC build and, thanks to the partnership with eBay, earn a 10% cash back in case the purchase of the components has been completed and suggested by the quiz.

The quiz consists of 4 questions and collects information about the budget, user profession, and the category of the build you want to buy. After the quiz, it will display 6 components such as ram, motherboard, CPU, SSD, power supply, and video card, the minimum necessary to assemble a pc.

BuyLap offers a simple and smooth interface to perform all its functions and create a match between buyers and sellers from eBay, in fact you can :

- Skip the registration phase and test the quiz
- Sign up with a personal or business account and have access to all the features.

As a buyer, you will have access to the most important part of the application: cashback. Once you have completed the quiz and purchased a product, points will be added based on the amount purchased. The threshold for redeeming points is 50.

As a seller with VAT, in addition to the features offered to the buyer, you can add your product to our database and make it appear in the builds suggested by the quiz. It will be the task of the administrator to check the reliability of the seller and insert it in a correct build.

Operational Settings

BuyLap is written in Java and runs on Android OS. The database used is MySQL5736, a version a bit old but functional from the point of view of integration with the android operating system. To use the application is required a standard internet connection.

Related System

1. eBay: Famous multinational e-commerce that facilitates consumer-to-consumer and business-to-consumer sales through its website.
 - Pros. Offers millions of collectibles, decor, appliances, computers, furnishings, equipment, vehicles, and other miscellaneous items. Implement a system of seller ratings and good customer service. (BuyLap only deals with a niche that is the creation of a build and cannot review a build)
 - Cons. Its search filter is not organized for category-specific keywords. In this buyLap collects a niche of people who want to buy components and parts for computer products and automates the search by keyword and price.
2. Rakuten: North America's leading cashback on purchases.
 - Pros. Most major brands and retailers are included in their program. Offers coupons and exclusive offers to its customers, available only through its portal. The cashback starts from 1%, up to 20-30% during certain events that offer double or triple cashback, such as during Black Friday. BuyLap includes only eBay Partner Network.
 - Cons. Do not group discounts, offers, and cashback by category while BuyLap offers cashback in all the components provided by the build.

User Story

1. As a worker in the field of information technology, I want to take a quiz to find the best components of a PC that fit my budget, so that I can do my tasks in smart working.
2. As a seller, I want to add a link to eBay to my product, so that I can sell it.
3. As a logged user, I want to receive cashback if I purchase a component of a PC recommended by the quiz so that I can save some money to make another purchase.

Functional Requirements

1. The system shall provide a questionnaire that obtains information on the profession, budget, and category of the PC.
2. The system shall provide a build of a PC based on the motherboard, RAM, CPU, GPU, storage space, and power supply.
3. The system shall provide 10% of cashback when a component is purchased from the eBay affiliate link.