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| BackAks-بككس Online Store |
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| INTRODUCTIONIdea “BackAks-بككس” is an online platform that allows users to trade, buy and sell used and new car parts, this idea fetched from the concept of manipulation of this market by the dealers here in Jordan, and the absence of real monitoring and controlling over the quality and the durability of the parts sold.  In Jordan, individuals don’t have that much of experience in car maintenance industry, because of the financial states of the community, so there is no much time to learn about these types of stuff, as a result, they are easily manipulated by professionals and traders throughout the process of diagnosing, buying spare parts and repairing the car.  This site will adopt the idea of free market, so the prices are based on supply and demand, unlike the actual market which prices are determined based on unknown factor by the customers. ProblemTime In the absence of proper regulation of the market, manipulation and fraud will arise, and the only loser will be the customer; there is ambiguity in the criteria for pricing that creates a competitive problem.  Customers must shop at a large number of stores in order to find the least expensive car part, which can take a long time. In fact, the negotiation itself can be long and tedious.  Let us assume the customer needs two to three hours to find such a part at a reasonable price, since most people in Jordan work, so this process can take a whole day or even longer; taking into account the time required for the maintenance itself, leading the employee to take a day or maybe more just to do maintenance for his vehicle. Cost In the previous section, we discussed the time factor, but time is not the only factor to consider. Prices are generally determined by the cost of the commodity plus a margin of profit, and each of those factors can have some tolerance between different sources, an acceptable one.  The customer may not be able to determine the price of this particular part because the margin can possibly be double the price. However, with other commodities, a customer can identify the approximate price prior to making the purchase, so he can save the estimated amount of money to accomplish the maintenance effectively, without fears of being surprised by the prices and the amount of money he should pay. Dealers Sometimes dealers themselves have the part some customers need, but there aren't platforms to let the customer know he has that part, so the dealer has to store parts longer, which, in turn, lowers liquidity, in addition, as mentioned earlier, customers need more time to find it.  Some dealers also do not know how to price the part, due the ambiguity of the pricing criteria, you always hear them complaining about how they are forced to sell a part with less than it’s cost just to turnover the money and have some liquidity to import new parts. Significance of the website When the prices are reachable for the public at one place, the concept of competition will arise, and everyone will try to list the best price or to make real offers and discounts to attract customers, in addition, searching for a certain part will be as easy as searching a topic on google, the market is in our pockets, no need to take a day or two off just to search for a part, no fear of buying a new car just because the market lacks of it’s parts, no need to listen to unexperienced individuals opinions about the parts prices of a certain car when deciding which cat to buy, you can just pick your phone up and compare -for example- the spark plugs price for a Toyota Yaris with a Ford Focus just with one click!  If the part you bought has issues with it, you can know review and make complains about this purchase, therefor experienced judges will evaluate the part and decide whether the part should be returned or not, this will eliminate the problem of deciding whether the maintenance shop has deteriorated the part or it already has issues with it.  Adding to all of the above, selling parts now is not related to dealers only, individuals can also advertise a part that they don’t need as well, complying to all of the regulations and the control mechanisms the website offers, so it can be examined by the experts before it is handled to the buyer, so the market cannot be monopolized by large merchants. Project Objectives  1. To allow individuals to advertise their new and used car parts for free. 2. To allow dealers to advertise their new and used car parts for free. 3. To list all of the parts prices publicly as a condition to publish the ad. 4. To find the appropriate part for the customer with the corresponding price without the need to search in the industrial zone. 5. To be able to deliver the part from the buyer to the seller so the whole process doesn’t require either the buyer or the seller to physically travel. 6. To be able to make a complain and to get a deteriorated part back. 7. To allow users to rate a certain dealer or individual so other users can distinguish between good and bad ones. 8. To allow users to share experience with any fault of any vehicle. 9. The ability to make our team examinate the part before delivering it to the buyer with extra fees.   Project Technology Front-end:  1. JavaScript XML(JSX): An extension for JavaScript that gives the ability to inject HTML code into JavaScript syntax, used commonly in React applications. 2. React: React is a JavaScript library that adopt the concept of dividing the page into small pieces called component, each component is driven by its local state and passed in props from other components. 3. Redux: A state management tool that store apps states in a store and makes it accessible to all of the app’s components to update it, it also distinguishes between the mutable and immutable states for more security. 4. Back-end: 5. PHP or Python ????????  Website Requirements  1. Website Scope   The scope of the site should include but not limited to the followings:   1. Users’ registration page. 2. Dealers’ registration page. 3. Users’ and dealer’s login page. 4. Home page including the categories and the newly added item related to the customers’ preferences. 5. All categories page that lists It all in alphabetic order, the categories will include and not limited to: 6. Manufacturer. 7. Car model. 8. Year of production. 9. System (e.g. suspension, fuel, braking, engine, transmission…) 10. Products cards page with a brief, price and review of the product. 11. Products search bar which navigates to the search results page. 12. Product details page with the price, product description, add to cart button and compatibility. 13. Rating and reviews section in each of the product’s page and the user/dealer page. 14. Cart page that displays the added items, its quantity and the total price of all of the items selected. 15. A checkout only for logged in users, with the ability to navigate to the login and register page If the user isn’t signed in, the payments method must include cash on delivery as a default option, in addition, credit cards are acceptable only for the items that to be checked by our experts.  Website Requirements  1. Stakeholders: 2. Users. 3. Dealers. 4. Admins. 5. Experts.      1. Journeys: 2. User:  * The home page will be displayed first with a login and register buttons in the nav bar. * The user can discover all products and categories without creating account or even logging in. * When the signed-out user add an item to the cart, it will be added. * When the signed-out user tries to checkout, a message will pop telling the customer that he must be signed in in order to checkout, and a login and register buttons. * The user can register without belling addresses or payment methods, simply by email and password, but the email must be confirmed. * The checkout requires belling address, credit card info (only if the user chose to pay with e-cards) and the receipt details including the base cost and any additional fees (e.g., examination fees, delivery fees …etc.). |
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