

## Overview

One of the most important skills of an Interaction Designer is the ability to translate market requirements into a user interface (UI) design that meets business and user goals, and facilitates ease of use. Based on the information about a requested software feature provided below, quickly design a conceptual user interface that meets the requirements and allows the user to achieve their goal as easily as possible. Be sure to account for the primary activity flow as well as handling the most common exceptions.

Create a few wireframes with annotations to visually communicate and document and what you are trying to accomplish with your design. Focus primarily on information and interaction design and assume the visual design will occur later in the design process. Do not worry about content accuracy; using 'dummy data' is appropriate.

Hand drawing is acceptable, but a well-known wireframing or rapid prototyping tool (ex. Visio, OminGraffle, Balsamiq or Axure) is preferred.

**Please send us your final design via email. Be prepared to present and discuss your designs if you are selected for an in-person interview.**

## Market Requirements

### Context

In one example of a common auto physical damage claim workflow, a car damaged in an accident is inspected by an Estimator at a body shop. The Estimator writes an estimate (a document which outlines the cost of necessary parts and labor), to capture how much the repairs will cost based on the damage to the vehicle. The estimate is sent to an Estimate Reviewer at the insurance company who is responsible for approving and paying the estimate. The estimate is also shared with the vehicle owner who must “sign-off” to provide approval that the repairs can begin. A common occurrence is that the vehicle owner doesn’t provide their approval until several days after the original estimate was written. Because the price of parts can fluctuate daily, the insurance company needs visibility to the prices of parts on specific dates.

### Feature Overview

The Part Price Search feature will provide pricing information for a given part on a specified date in the past. The Part Price Search will allow an insurance company user to query a database of historical parts prices, view the results, and print them if so desired.

### User Role

The primary user of this feature is an Estimate Reviewer. These users work at insurance companies and participate in managing relationships established between the insurance company and select body shops. Their main responsibility is to review vehicle repair estimates written by body shops for accuracy, adherence to program guidelines, and overall cost-savings opportunities.

### User Goal

Determine the price of one or more parts included on a vehicle repair estimate as of the date that the estimate was authorized (“signed-off”) by the vehicle owner.

### Assumptions

Part Price Search is one of many features of an online enterprise workspace used by the Estimate Reviewer in the course of their job duties. As such, assume that this workspace handles user authentication and authorization (i.e. login, etc...). Also, assume that the application has a primary navigation feature which allows users to access the Part Price Search screen by selecting “Part Price Search” from a main menu control. Assume the application is hosted online (i.e. browser-based) and supports a target resolution of 1024x768.

## Software Requirements

Functional Area	Description
<b>Search Criteria</b>	<p>Part Price Search UI shall have the ability to query the parts database and return the historical price for one or more part numbers for a given date and vehicle.</p> <p>User shall have the ability to input multiple part numbers prior to submitting a search query to the database.</p> <p>User shall input the following information:</p> <ul style="list-style-type: none"> <li>○ Claim number</li> <li>○ Country</li> <li>○ Vehicle make</li> <li>○ Signoff date</li> <li>○ Part number(s)</li> </ul>
Claim Number	<p>Claim Number uniquely identifies a vehicle repair estimate in question, which in turn contains part numbers.</p> <p>Claim Number should be entered in free text, up to 20 alpha-numeric characters.</p> <p>Claim Number is required.</p>
Country	<p>Country to conduct the parts lookup query (USA or Canada)</p> <p>System shall default to USA.</p> <p>Country is required.</p>
Vehicle Make	<p>Vehicle Make should be selected from a pre-determined list of supported vehicle makes.</p> <p>There may be up to 50 vehicle makes available.</p> <p>Vehicle Make is required.</p>
Signoff Date	<p>The Signoff Date indicates the date at which the vehicle repair estimate was authorized by the vehicle owner. It is this date that the part pricing information is to be retrieved for.</p> <p>Signoff Date must be a valid date format.</p> <p>Signoff Date must occur in the past and cannot occur in the present or future.</p> <p>Signoff Date is required.</p>
Part Number(s)	<p>The Part Numbers correspond to specific parts included on the vehicle repair estimate in question.</p> <p>Each Part Number should be entered in free text and may be up to 20 alpha-numeric characters.</p> <p>At least one Part Number is required.</p>

Functional Area	Description
<b>Search Results</b>	<p>The Part Price Search should display a data grid with the following output fields upon successful execution:</p> <ul style="list-style-type: none"> <li>○ Part Number</li> <li>○ Part Description</li> <li>○ Signoff Price</li> <li>○ Signoff Price Effective Date</li> <li>○ Prior Price</li> <li>○ Prior Price Effective Date</li> <li>○ Current Price</li> <li>○ Current Price Effective Date</li> </ul> <p>The data grid should support a default sort by part number in ascending order, one part per row.</p> <p>The data grid will not support additional user sorting.</p> <p>If one or more part numbers are incorrect and cannot be located in the historical parts database, appropriate user assist messaging should be displayed.</p> <p>If one or more part numbers are incorrect, the user should be able to change these part numbers and resubmit the search without affecting the other correct part numbers.</p>
Part Number	Part Number displays the part number, which corresponds to the part number in the search criteria.
Part Description	Part Description displays the part description from the parts database that corresponds to the part number in the search criteria.
Signoff Price	Signoff Price displays the price of the part at the signoff date.
Signoff Price Effective Date	Signoff Price Effective Date displays the date that the part price became effective.
Prior Price	Prior Price displays the previous price of the part.
Prior Price Effective Date	Prior Price Effective Date displays the date that prior price became effective.
Current Price	Current Price displays the price of the part at today's price
Current Price Effective Date	Current Price Effective Date displays the date the current price became effective.
Printing	User shall have ability to print the search results