Lab Assignment 1

Congratulations – you've just been hired to work on the IT team at Vanderprise Rent-A-Car!

The CEO, Brad Vander Zanden, is relying on you to help expand his rental car market share by allowing customers to make reservations online. You have two weeks to get a Web site mock-up ready to show at the next board meeting. The architectural staff has decided that the website should be written in PHP.

For starters, customers will be taken through a three-step sequence of Web pages:

1. A initial page that allows a user to input information about the desired reservation.
2. A "confirmation" page that displays information about the reservation and allows the user to confirm or edit this information.
3. A "receipt" page that the user can print as a confirmation of the reservation.

Here are the other technical points that were mentioned at the last staff meeting:

- The Web site content should be valid XHTML 1.0 Transitional.
- The following form elements should be used on the first page to gather information about the reservation.
  - A text field for the airport code or city.
  - Two sets of selection lists for choosing the pickup and drop-off dates. Each set of selection lists should allow the user to specify a month (Jan, Feb, Mar, …, Dec) and a day (01, 02, 03, …, 31). Each set of selection lists should also include a radio button that allows the user to choose morning, afternoon, or evening. *Note*: You don't have to worry about preventing the user from choosing invalid dates such as February 31.
  - A selection list to choose the rental class: economy, compact, luxury, van, sport utility, and truck.
  - Check boxes for equipment options: in-car navigation system, satellite radio, child seats, and non-smoking.
- The values of the items selected on the first page should be stored in a cookie, because Brad said it frustrates him to no end when he clicks the back button and all his form values are lost! The cookie should be deleted once the user has a receipt.
- The confirmation page doesn't need to allow the user to change reservation information, just confirm that everything is in order. This page should also have some extra code to validate the values submitted from page one. In particular, your code needs to perform the following checks:
  - Unexpected file names: Hackers might insert extra parameters into the URL and Brad will not tolerate his company's name being broadcast all over the news because some hacker exploited our poorly-implemented Web site!
  - Drop-off date after pickup date: For example, if the pick-up date is March 21, then the drop-off date must be later than March 21.
  - Legal values for all fields: Hackers might insert illegal field values, such as `motorcycle`, into the URL so you must ensure that each field has a legal value.
  - "Safe" airport codes/city field: Replace all < or > characters in the airport code/city field string with their HTML equivalents, `&lt` and `&gt`. No further validation of the airport code/city field value is needed.

Hint: To simplify things, implement only *two* PHP documents. The first will be the initial Web page, and the second will display information to the user in one of two modes: confirmation or receipt. The information displayed on the confirmation page is identical to the receipt except it adds a link that goes to the first page (e.g., "Edit Reservation") and to the receipt page (e.g., "Book Reservation").