You are required to explore the application by following the URL <http://automationpractice.com/index.php> and identify the required pages to test the high-level scenarios below. Using the scenarios as a guideline, identify and implement a comprehensive list of test cases which cover the following areas of the site. If there are any scenarios that cannot be automated, please provide these in a list when responding.

High level scenarios:

1. Create a new account user - **Done**
2. Authenticate as new user - **Done**
3. Select “Blouses” Subcategory in “Women” Category - **Done**
4. Select resulted product - **Done**
5. Follow checkout procedure - **Done**
6. Confirm order by selecting bank wire option - **Done**
7. Validate order was placed from order history page. - **Done**
8. The automated tests should run in a browser resolution of 1024x768px - **Done**
9. The tests should utilize best practice coding standards for maintainability - **Done**
10. be aware of design patterns in your solution - **Done**
11. An advantage when using data driven scenarios - **Done**
12. make sure that the Data you deal with is correct and complete;
13. make sure that your Data and Database can go successfully through any needed transformations without loss

**1- What validation of data you will do:**

* Validate data types of fields:

1. Decimal: (start\_station\_latitude, start\_station\_longitude,end\_station\_latitude,end\_station\_longitude)
2. Integer: (duration\_sec,start\_station\_id,end\_station\_id,bike\_id)
3. String: (start\_station\_name,end\_station\_name)
4. Time: (start\_time,end\_time)
5. Date.Year(member\_birth\_year)
6. DDL: (bike\_share\_for\_all\_trip {Yes,No}, member\_gender {Female,Male,Other}, user\_type {Customer,Subscriber})-->String

* Validate that there are no duplications
* Decide about Null values depending on the application that will use this data, ex: to drop or to fill them with the median

2- Assume all validation failed, how are you going to fix the data set

This depends on the business use of the application that will use this data, to clean data, drop coruupted records, cast values (ex: date time to time)

3- What questions are you going to ask for this dataset?

* What's the average of trip duration
* What's the count of trips for each user\_type?
* What's the count of bike trips by each member\_gender?
* What's the relationship between bike trip duration and member age?
* What's the relationship between bike trip duration and member gender?
* What's the relationship between bike trip duration and user type?