Student name: _____   Score: _____

➢ **Project description**: Display vendors on Google Map.
➢ **Bonus due date: the same as phase 2, by 11:59pm 4/14/2018. Same late penalty policy will be applied.**
➢ This bonus project is based on phase 2. **Maximum 30 points will be added to phase 2.**
➢ All vendor information should be retrieved from table **CPS3740.Vendors**. **Do NOT hardcore any values.**
➢ Please refer to the demo project at http://imc.kean.edu/CPS3740
➢ **Bonus project will require you to write a program to develop the following functions.**
1. _____ (**2 pts**) If the user try to run this program without login, an error message should be display "Please login first".
   After an user successfully login (based on cookie), do the followings:
2. _____ (**1 pts**) Add a new link "**view vendors**" under logout link. Please refer to Figure 1.
3. _____ (**5 pts**) After "**view vendors**" link is clicked, the program should **read** and **display** vendor id, name, address, city,
   state, zipcode, and GIS location (latitude, longitude) on the web page in <TABLE> format as shown in Figure 2. Vendor
   information should be retrieved from **CPS3740.Vendors** table. Do not display the vendor if its GIS location is unknown. A
   logout link should be at top. The logout function should clear the cookie.
4. _____ (**5 pts**) A single Google Map should be shown under the vendor information table on the same web page as
   shown in Figure 2.
5. _____ (**5 pts**) Vendors should be correctly marked with their **vendor id** at the correct positions on the map.
6. _____ (**5 pts**) When the vendor is clicked, the vendor name should be displayed above the vendor marker.
7. _____ (**5 pts**) The Google map center should be at the average location of all vendors. The center should be readjusted
   automatically if the vendor records are changed. The zoom level should be properly set so all vendors can be seen when
   the map is displayed.
8. _____ (**2 pts**) Bonus should be submitted with phase 2 together through class website: http://imc.kean.edu/students/

You are NOT from Kean Unversity.
Welcome user: Tester CPS3740
Role: tester
Address: 1000 Morris Ave., NJ, 07083
User logout
View vendors

Figure 1

logout

The following vendors are in the database.

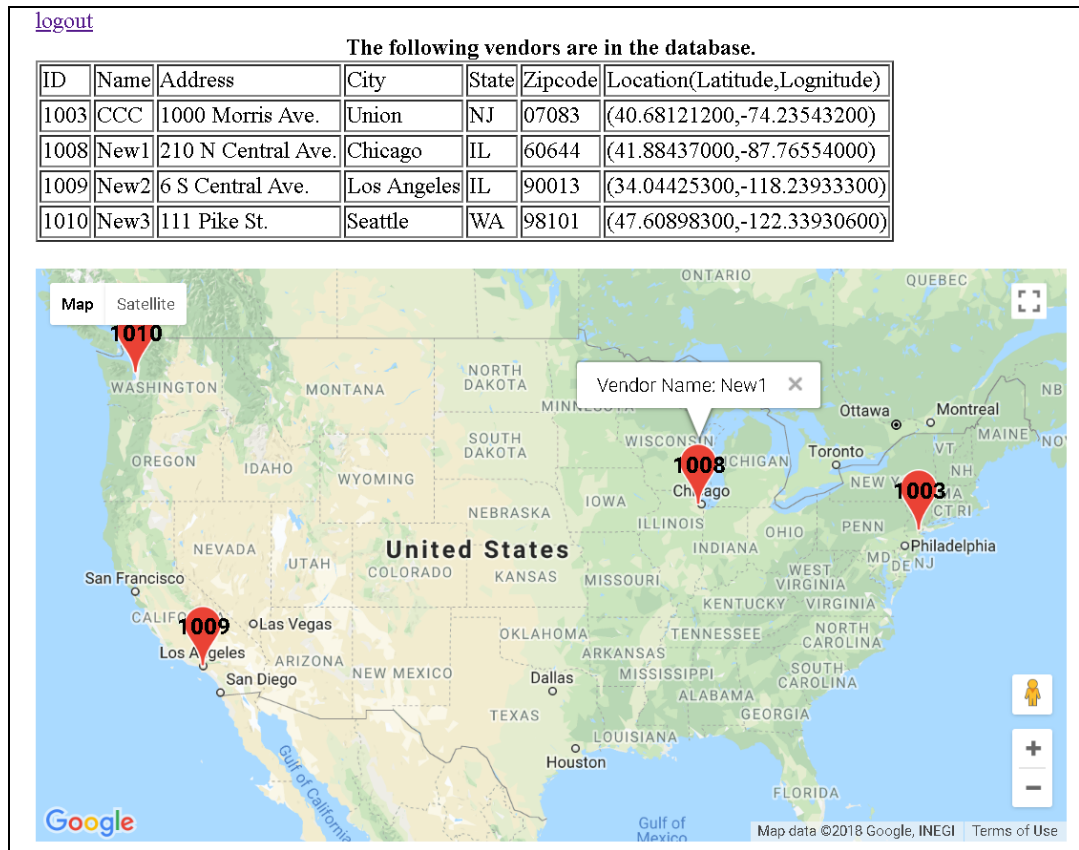| ID	Name	Address	City	State	Zipcode	Location(Latitude,Lognitude)
1003	CCC	1000 Morris Ave.	Union	NJ	07083	(40.68121200,-74.23543200)
1008	New1	210 N Central Ave.	Chicago	IL	60644	(41.88437000,-87.76554000)
1009	New2	6 S Central Ave.	Los Angeles	IL	90013	(34.04425300,-118.23933300)
1010	New3	111 Pike St.	Seattle	WA	98101	(47.60898300,-122.33930600)

Figure 2. The valid vendors are displayed on the Google map.