**Project Phase #1 deliverables: 50% of project grade, Due: Feb 28 2018.**

1. A list of requirements using a tabular format:

|  |  |  |
| --- | --- | --- |
| **#** | **Requirement Description** | **Testing Criteria** |
| R1 | The application shall allow customers to register with the application. The application shall present the user with a registration form with the following fields: Customer Name, Contact Name, Email, phone, region, address, major product line category (research a list that fits most customers). | User enters registration information and the data is stored in the database. |
| R2 | Once a customer registers with the application the application shall generate a unique customer id. | A unique customer is stored in the database. |
| R3 | The system shall allow the customer to enter a password for her account. The password shall be 8 characters long and shall have at least one distinctive character and one uppercase character and a mixed alphanumeric value. | Customers password shall be encrypted and stored in the database. |
| … | … | … |

1. An Entity Relationship Diagram showing all entities in the application. The diagram must be generated using an online tool. See <http://www.erdplus.com>
2. A complete database scheme (SQL).
3. Software Process Model. Here are a few commonly used Software Development Life Cycle Models:
   1. Waterfall model.
   2. Agile model. Scrum
   3. Spiral model.
   4. RUP.
4. A description of the intended development environment that outlines the following:
   1. Development environment: for example: PhP
   2. RDBMS: MySQL
   3. Framework for Object Relation Mapping: JDBC, Java Persistence API, Hibernate, TopLink, etc.
5. Testing methodology. How are you going to test your application:
   1. Test Driven Development
   2. See <https://www.guru99.com/testing-methodology.html>
6. A UML use case diagram that shows the users of the application and authorized use cases for each user. See <https://creately.com/blog/diagrams/use-case-diagram-tutorial/>
7. A UML class diagram that shows the structure/design of the application.   
   See <https://en.wikipedia.org/wiki/Class_diagram>