Requirement specification

* **Summary:** Restaurant owner notify to donate food and if nonprofit organizations accept the food donation, system sends notification to local volunteer drivers to deliver the food.
* **Basic Course of Events:**

1. Completion of use case *Log in* for Restaurant, Organizations and Volunteer Drivers.
2. Restaurant selects the *donate food* option and update use case *Post Food Availability*
3. System saves detailed information about food donation; such as pick up location, food quantity, and time in database.
4. Organization selects the *receive food* option to access available food donation in local area.
5. Since completion of use case *Receive food*, organization can request driver by clicking *Request Driver* tab.
6. Drivers receive notifications if both use case *Donate food* and *Received food* are completed by restaurant and organization.
7. Drivers can access to information about delivering in use case *Deliver Food*.
8. If driver accept the ride request, driver have to notify arrival time to pick up location.
9. After driver pick up the donated product, organization will notify arrival time by system.
10. While on the travel, both restaurant and organization will able to access to the delivering status by clicking *show delivering status* tab.
11. If driver arrives to the drop location, organization have to verify if they received the product.
12. After all the requirement met, use case *Complete Transaction* is completed.

* **Alternative Paths:** In steps 2, 4, and 7, restaurant, organization and driver can cancel their requests within 20 minutes and goes to step 12.
* **Exception paths:** In step 8 and 9, if driver fail to show up in time, step go back to 6 and allow other drivers to access the use case *Deliver Food*. Additionally, if drivers fail to complete step 8 3 times, they will receive disadvantage for future transaction.
* **Precondition:** All the users have to complete user case *Log in*
* **Postcondition:** food donated, received and delivered.
* **nonfunctional requirement:** Since this system requires honest, it is crucial to gather certified restaurants, organizations or drivers. System should have rating system which distinguish honest and dishonest users by transaction completion rate. Also, system will allow to ban user by providing a fabricated information.