

# Requirements

## Functional Requirements

1. The system must identify products given a set of descriptive identifier words.  
Priority: High - Estimate: 10 hours
2. The system should allow administrators to configure which words identify a product.  
Priority: High - Estimate: 4 hours
3. The system shall ask users questions to help identify products sold, as necessary.  
Priority: High - Estimate: 3 hours
4. The system should store all configuration options in a database.  
Priority: High - Estimate: 2 hours
5. The system should provide the user with a way to choose one or more products from a list after the user has given all the information for the product that she can think of.  
Priority: High - Estimate: 1 hour
6. The system should allow identified items to be added to an order.  
Priority: High - Estimate: 1 hour
7. The system should be able to respond to erroneous or otherwise ambiguous user input appropriately.  
Priority: High - Estimate: 1 hour
8. The system should allow the user to place an order.  
Priority: Medium - Estimate: 3 hours
9. The system should allow administrators to configure which words are associated with a given action.  
Priority: Medium - Estimate: 3 hours
10. The system should have a configuration page that administrators can use to manage all of the system's configurables.  
Priority: Medium - Estimate: 2 hours
11. The system should allow administrators to configure what questions the system should ask in order to identify a product.

Priority: Medium - Estimate: 2 hours

12. The system should alert the user to confirm when an order has been placed.

Priority: Low - Estimate: 1 hour

## **Non-functional Requirements**

1. The system should interact with the user in a natural, conversational manner.

Priority: High - Estimate: 3 hours

2. The system shall allow the user to chat with the system via a web page.

Priority: High - Estimate: 2 hours

3. The system must be able to carry conversations continuously without page refreshes.

Priority: High - Estimate: 1 hour

4. The system must be able to respond a customer within 3 seconds of the message being received.

Priority: High - Estimate: Duration of project

5. The system should email users to do order confirmation.

Priority: Low - Estimate: 1 hour

## **Environmental Constraints**

1. The system's chat client must be language independent.

Priority: High - Estimate: N/A (Will be by design)