

---

# **Software Requirements Specification**

**for**

## **Anazom**

**Version 1.0 approved**

**Prepared by:**

**Paul Scarmardo, Yuexin Xu, Jessica Oramous, Ayden Kilpatrick**

**Mississippi State University**

**2/10/2023**

<b>1. Introduction.....</b>	<b>1</b>
1.1 Purpose .....	1
1.2 Document Conventions .....	1
1.3 Intended Audience and Reading.....	1
1.4 Product Scope .....	1
1.5 References .....	1
<b>2. Overall Description.....</b>	<b>2</b>
2.1 Product Perspective .....	2
2.2 Product Functions.....	2
2.3 User Classes and Characteristics .....	2
2.4 Operating Environment .....	3
2.5 Design and Implementation Constraints.....	3
<b>3. System Features .....</b>	<b>3</b>
3.1 Stores Online Transactions .....	3
3.2 Seller Management.....	3
3.3 Login/Logout.....	4
3.4 Admin Permissions.....	4
3.5 Buyer Management .....	5
<b>4. Other Nonfunctional Requirements.....</b>	<b>5</b>
4.1 Performance Requirements.....	5
4.2 Software Quality Attributes.....	5

# **1. Introduction**

## **1.1 Purpose**

The purpose of this document is to give a detailed explanation of Anazom requirements and features. It will also be an effective manual for the e-commerce site. Furthermore, this SRS document will act as an effective communication tool for the development group and stakeholders.

## **1.2 Document Conventions**

This document uses Times New Roman font at size 12 for all descriptions. Size 14 font is used for subsection headings and size 24 is used for the top headings. One-inch margins are maintained throughout the document.

## **1.3 Intended Audience and Reading**

This document's intended audience is our group, end-users, Charan Gudla, Rayhan Amin, and any others concerned with the details of Anazom. The document consists of four sections: an introduction, an overall description of the software, a more detailed system features section, and information about other non-functional requirements. Audiences are encouraged to read through the document in sequential order, starting from the introduction and ending with the non-functional requirements.

## **1.4 Product Scope**

Anazom is intended to be an easy to use and convenient e-commerce website that allows users to buy a specified product from an outside seller and have it delivered to their home.

## **1.5 References**

- Geeks For Geeks:  
<https://www.geeksforgeeks.org/e-commerce-website-using-django/>
- MySQL:  
<http://www.mysql.com>
- Python:  
<http://www.python.org/download/releases/3.11.1/>
- Django:  
<https://www.djangoproject.com/>

## 2. Overall Description

### 2.1 Product Perspective

Anazom is a new, self-contained product. It does not have any connection with other platforms and all its system features are built from scratch.

### 2.2 Product Functions

#### All users:

- Create an account
- Login to the system
- Logout of the system
- Delete user account
- Edit user account

#### Buyers:

- Browse through categories
- Search for specific items
- Add items to their shopping cart
- Checkout
- View order history
- Return an item

#### Sellers:

- Add products to categories
- Claim payments from buyers
- Edit prices and descriptions of items under the seller's name
- View transaction history

#### Admins:

- Create a new product category
- View buyer and seller transactions
- Suspend buyers and sellers for suspicious activities
- Approve/block new user accounts and products

### 2.3 User Classes and Characteristics

The product will be used by the general public for online shopping. All users should have prior knowledge of web browsing and the ability to read. Anyone who wishes to purchase items from Anazom can create an account and become a buyer. Buyers only need to have basic web navigation abilities such as using search engines and clicking a link. Buyers are the most important user class to satisfy in this software. Those who wish to sell items may apply to become a seller. Sellers should have all the prior knowledge that buyers have and know how to link their bank account to their profile. Admins monitor the activities of buyers and sellers. Admins should have experience in managing and modifying many accounts at once.

## **2.4 Operating Environment**

Anazom is hosted through a web server, which can be accessed through applications such as Google Chrome, Microsoft Edge, and Firefox. The service can be accessed with computers of any operating system.

## **2.5 Design and Implementation Constraints**

- Anazom's service will only be available in English
- Because information is stored in an online database, its uptime cannot be guaranteed.
- The application is built to be run on computers only

# **3. System Features**

## **3.1 Stores Online Transactions**

### **3.1.1 Description and Priority**

Whenever a buyer purchases an item from a seller, the information regarding that transaction is recorded and stored in the system database. This information is then kept available for reference purposes to both the buyer and the seller. This feature is of low priority.

### **3.1.2 Stimulus/Response Sequences**

Buyer confirms the purchase of an item -> the system gathers the information for that purchase -> the system stores that information as an entry in the database -> the buyer chooses to view their order history -> the system searches through the database to find entries that matches to the buyer's name -> the system displays those entries -> the seller chooses to view their transaction history -> the system searches through the database to find entries that matches to the seller's name -> the system displays those entries

### **3.1.3 Functional Requirements**

- REQ-1: Add a transaction to buyer's order history
- REQ-2: Add a transaction to seller's transaction history
- REQ-3: Displays all of the buyer's order history upon request
- REQ-4: Displays all of the seller's transaction history upon request
- REQ-5: Provide a notice message if the buyer or seller's transaction history is empty when display is requested

## **3.2 Seller Management**

### **3.2.1 Description and Priority**

Sellers will have the ability to add an item to the site and customize a variety of categories of the item such as: price, name, and description. Once added, the item will be available to buyers for purchase. This feature is medium priority.

### 3.2.2 Stimulus Response/Sequences

Seller chooses to add item -> Asked for name, price, description of product -> product gets added to the store with those categories filled -> Seller receives payment when the product is bought

### 3.2.3 Functional Requirements

REQ-1: Add item to site

REQ-2: Change product categories

REQ-3: Be able to accept payment

## 3.3 Login/Logout

### 3.3.1 Description and Priority

Users will have the ability to login and logout of their accounts using a username and password. This feature is of high priority.

### 3.3.2 Stimulus Response/Sequences

User navigates to the website -> User enters a valid username and password to login to their account -> User will be able to logout after logging in

### 3.3.3 Functional Requirements

REQ-1: Program will search through database to for user account and password match

REQ-2: On login, user will be granted permissions based on their account type

REQ-3: User will be able to logout of their account successfully

## 3.4 Admin Permissions

### 3.4.1 Description and Priority

Admins can oversee the actions of different users and perform the operations necessary to maintain a positive shopping environment. Admins can also manage what categories of items Anazom sells. This feature is of medium priority.

### 3.4.2 Stimulus Response/Sequences

Buyer buys an item -> the purchase is recorded in transaction history -> admin views recent transaction histories -> admin notes any suspicious activities and suspend accounts accordingly -> admin decides on whether a new product category should be created

A new user account/product is registered -> admin views the request -> admin approve/block the request

### 3.4.3 Functional Requirements

REQ-1: add a new product category

REQ-2: remove an existing product category

REQ-3: view recent transactions

REQ-4: suspend a user  
REQ-5: approve/block new user account  
REQ-6: approve/block new product item

### **3.5 Buyer Management**

#### **3.5.1 Description and Priority**

Buyers are able to search for their desired product and purchase it from the product's seller. Buyers also have the option to return the product for a full refund. This feature is of high priority.

#### **3.5.2 Stimulus Response/Sequences**

Buyer wishes to browse through all items within a product category -> system displays all items available under the specified category -> buyer decides to search for a specific product -> system provides the buyer with all the options available for that product -> buyer adds an item to cart -> buyer checks out their cart -> system performs the transaction process described in section 3.2 -> the buyer wishes to return the item -> the system notifies the seller of the request

#### **3.5.3 Functional Requirements**

REQ-1: browse products within a category  
REQ-2: search for a specific product  
REQ-3: add a product to cart  
REQ-4: checkout  
REQ-6: return a product

## **4. Other Nonfunctional Requirements**

### **4.1 Performance Requirements**

- 4.1.1 Searching for an item should take less than 2 seconds
- 4.1.2 Updating and saving item information should take less than 2 seconds

### **4.2 Software Quality Attributes**

- 4.4.1 Accessibility: The application must be accessible through any computer operating system and web browser
- 4.4.2 Reliability: The application must satisfy all necessary requests from the users with no inaccuracies
- 4.4.3 Availability: The application must be able to satisfy the users' requests 98% of the time
- 4.4.4 Understandability: The application must be easy to use, and the time it takes for new users to learn how to navigate through the system should be minimal