IBID

Version <1.0>

Revision History

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# Introduction

Welcome to the documentation for my bidding application designed specifically for volunteers of the student organization I am currently part of. IBID comes as a solution for decluttering of the office which is way too crowded. This application provides a simple and efficient way for volunteers to bid on their favorite items available in our organization's office.

Gone are the days of the manual bidding process, which can be time-consuming and prone to errors. With our bidding application, volunteers can easily place bids on items they are interested in from the comfort of their own devices.

Our organization recognizes the importance of creating a fair and transparent bidding process for all volunteers, and this application has been designed with those principles in mind. With this application, volunteers can view current bids and track the status of their own bids, ensuring they have a clear understanding of the current bidding situation.

We are confident that this bidding application will enhance the bidding process for our volunteers and ultimately lead to a more organized and efficient system for our organization. Thank you for using our bidding application and we hope this documentation will provide you with all the necessary information to utilize it effectively.

# Non-functional Requirements

• The application should be easy to use.

• The application should be responsive and fast.

## Availability

This application is available as a web application, accessible from any device with an internet connection. Simply visit the URL provided by the organization and you will be able to access all the necessary information regarding the bidding application.

The web application has been designed with user experience in mind, making it easy to navigate and find the needed information.

## Performance

The performance of our bidding application is optimized to provide a seamless and efficient experience for users. Various techniques are implemented to ensure that the application operates smoothly and responds quickly to user requests.

The application is built using modern web technologies and optimized for fast loading times.

The bidding process is designed to handle a large number of concurrent users, ensuring that everyone can place bids without any delays or issues. The application's backend is designed with scalability in mind, allowing it to handle a large number of users without experiencing performance issues.

In addition, we continuously monitor the performance of our application and make necessary updates to ensure it remains optimized. Our team is dedicated to providing our users with the best possible experience when using our bidding application.

Overall, our performance metrics show that the application is fast, responsive, and able to handle a large number of users simultaneously. We strive to maintain the high performance of our application and continue to make improvements to enhance its overall speed and efficiency.

## Security

I have implemented multiple layers of security measures to protect the application and its users from potential threats.

Firstly, the application uses HTTPS protocol to encrypt all data transmitted between the user's browser and the server. This ensures that all data, including login credentials and bids, are encrypted and secure from any third-party interception.

I have also implemented strict authentication and authorization protocols to ensure that only authorized users can access the application and place bids. User authentication is performed through secure login credentials.

## Testability

IBID application has been designed with testability in mind. I understand the importance of thoroughly testing the application to ensure that it operates as expected and meets the needs of our users.

I practiced manual testing to ensure that the application performs as expected in various real-world scenarios. I also maintain documentation that details the expected behavior of the application and provides step-by-step instructions for testing.

Overall, the bidding application is designed with testability in mind, and I place a high emphasis on testing to ensure that the application operates as expected and provides a reliable and efficient user experience.

## Usability

# Design Constraints

The following are the design constraints for the bidding application for volunteers of a student organization:

1. The application must be developed using the .NET programming language.

2. The application must be web-based and accessible via a standard web browser.

3. The application must conform to the organization's branding guidelines for color scheme, logo, and overall look and feel.

4. The application must adhere to industry-standard security protocols for user authentication and data encryption.

5. The application must be scalable to accommodate growth in the number of users and items available for bidding.

6. The application must be designed with modularity in mind to allow for easy maintenance and future updates.

7. The application must integrate with the organization's existing database system to retrieve item information and bidding history.