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Data Science

BidStream: Seamless and Instant Auction Bidding

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Project Guide
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1. Introduction

Auction Bidding Management System (BidStream)An offline auction system designed to streamline auction processes, manage bidders efficiently in bid management.

- Problem Identified :
  - Time-consuming manual process
  - Difficult bid tracking & management
- Solution Proposed :
  - Automated auction management
  - Secure authentication & role-based access

2. Objectives

1. To develop an efficient offline auction system with a user-friendly interface.
2. Streamlining auction management with role-based access, regulated operations, and an admin panel.
3. To automate user notifications and enable category-based filtering in analytics.
4. Enhancing user experience with clear bid history and a dashboard for effortless auction participation.

3. Scope

1. Can be applied in offline auction houses to manage bidding efficiently.
2. Can be used in corporate auctions for selling company assets.
3. Can assist event organizers in conducting charity or fundraising auctions.
4. Can be useful for art galleries to manage art auctions securely.
5. Can be used by jewelers and private sellers can conduct high-value jewelry auctions with secure bidding processes.

4. Feature /Functionality

1. User and Admin Login :
   - Secure login and registration system for users and admins. Users can sign up, log in, and participate in auctions, while admins can manage auctions.
2. Bid Placement System :
   - Users can place bids on active auctions, and the system records bid history to ensure transparency and fair competition.
3. Bid Tracking & History :
   - The system maintains a record of all bids placed, allowing admins to review past auctions.

4. Feature /Functionality

4. Role-Based Access Control:
    - Users can participate in bidding, while admins have exclusive rights to manage auctions, ensuring system security.
5. Automated Notifications:
    - Users receive notifications for auction they won and bid confirmations for successful bidding.
6. Filter Options:
    - Admin can filter auctions by categories in analytic page.

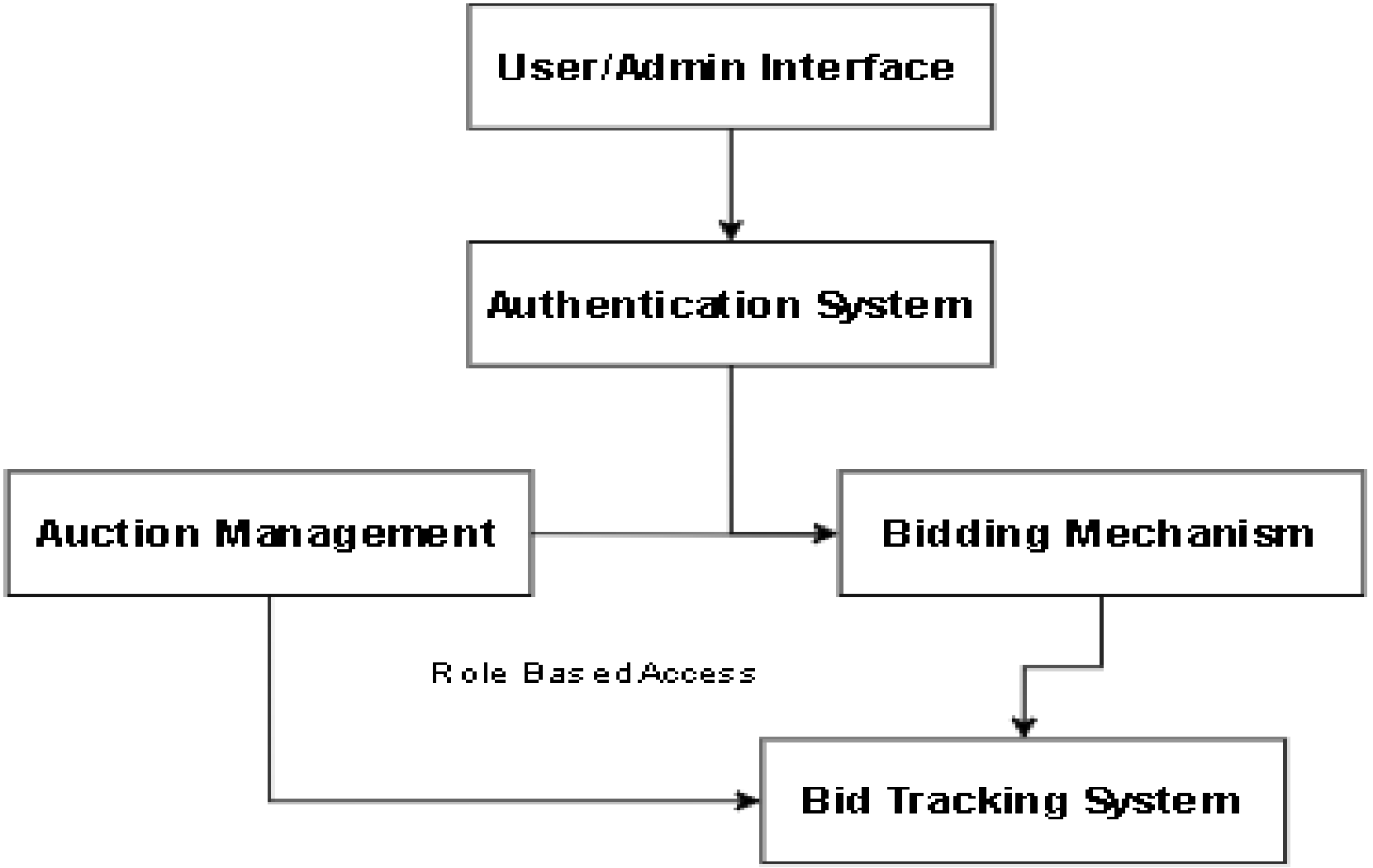
5. Outcome of Project

1. User can log in with registered details
2. User can register by creating a new account.
3. Users can view active auctions and auction details.
4. Users can place bids on available auctions.
5. System records and tracks bids for each auction.

6. Technology Stack

1. Python (Tkinter)
2. MySQL

7.Block Diagram



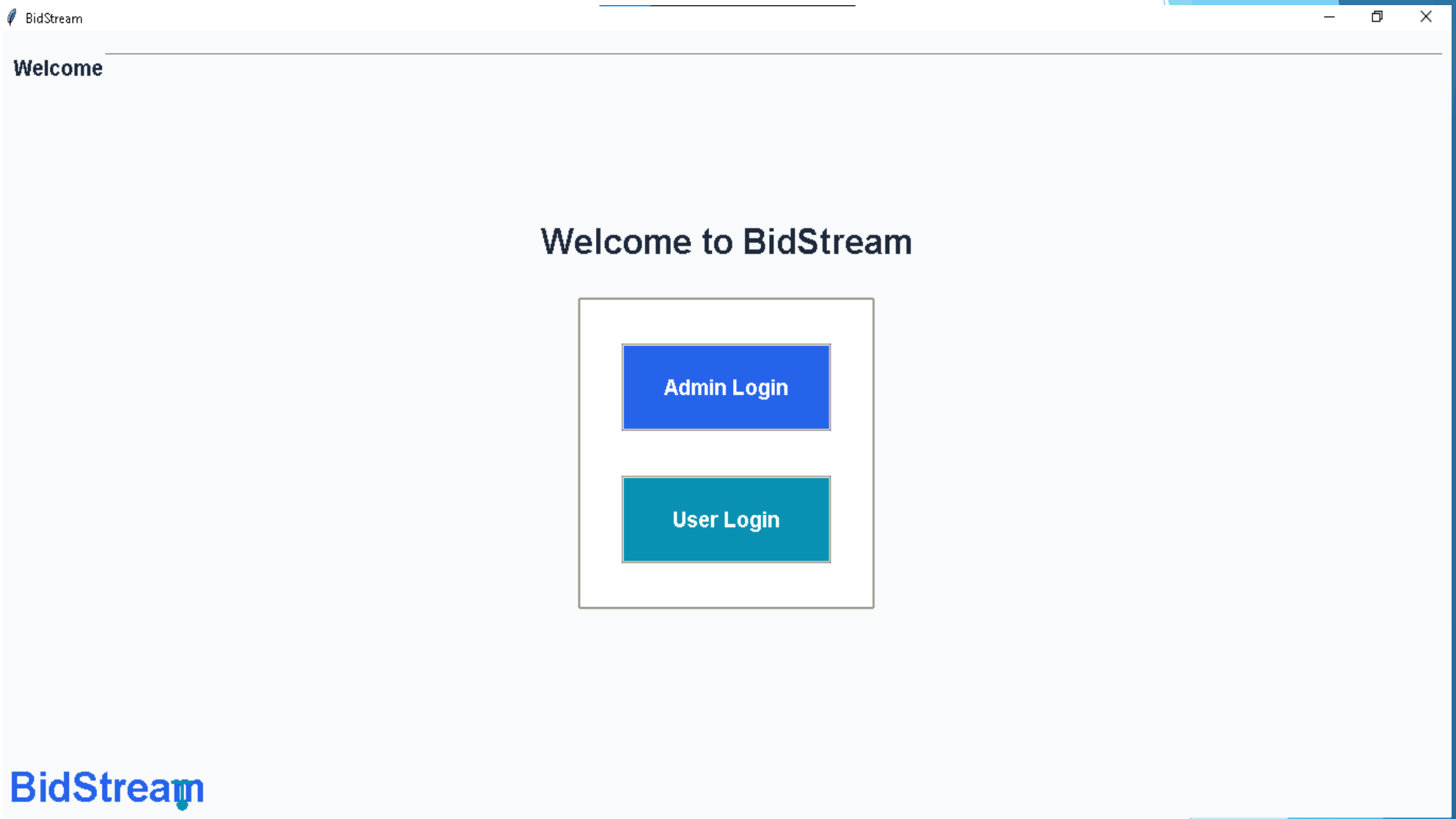


Fig.Login Page

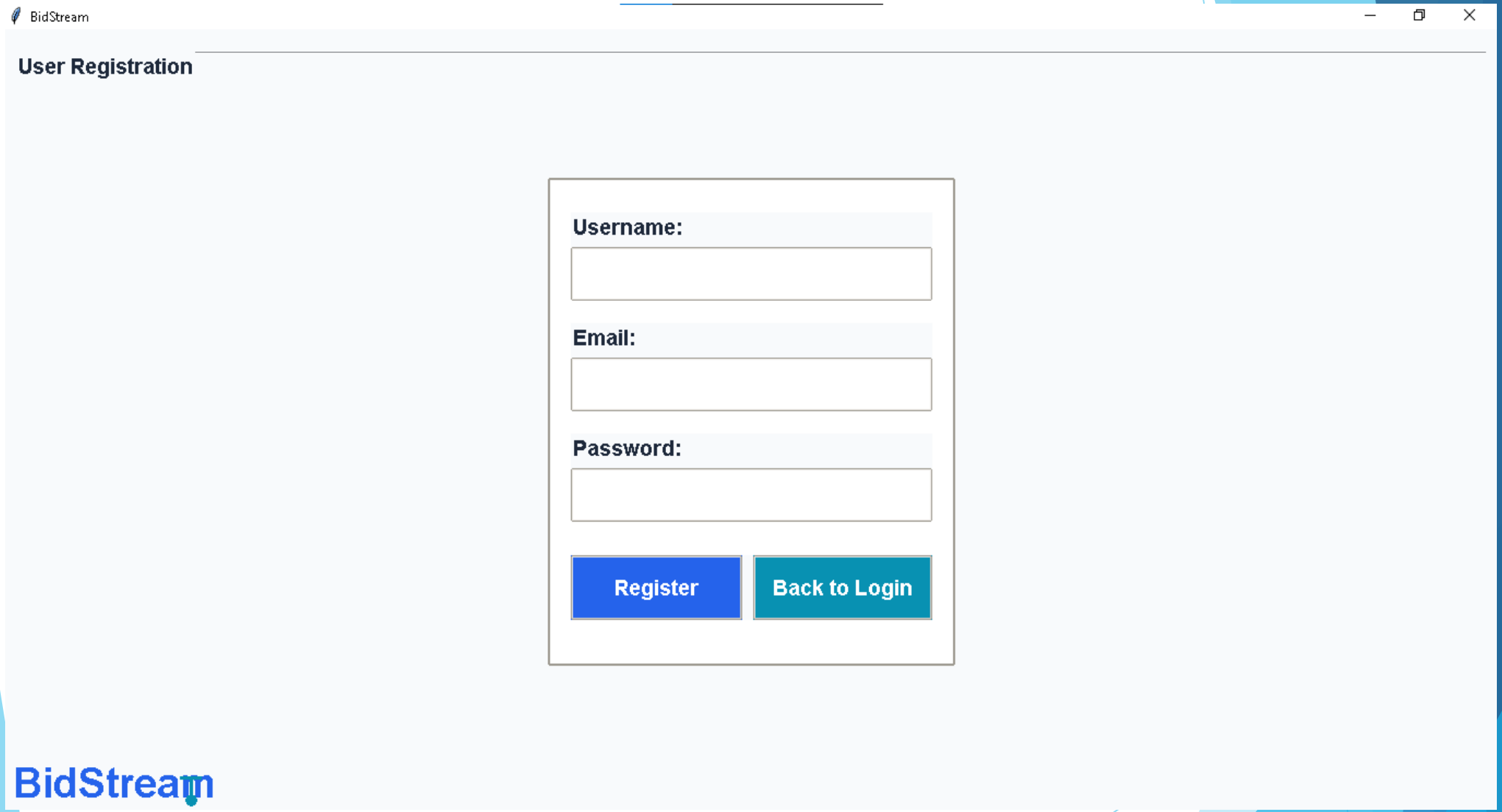


Fig.Registraion Page

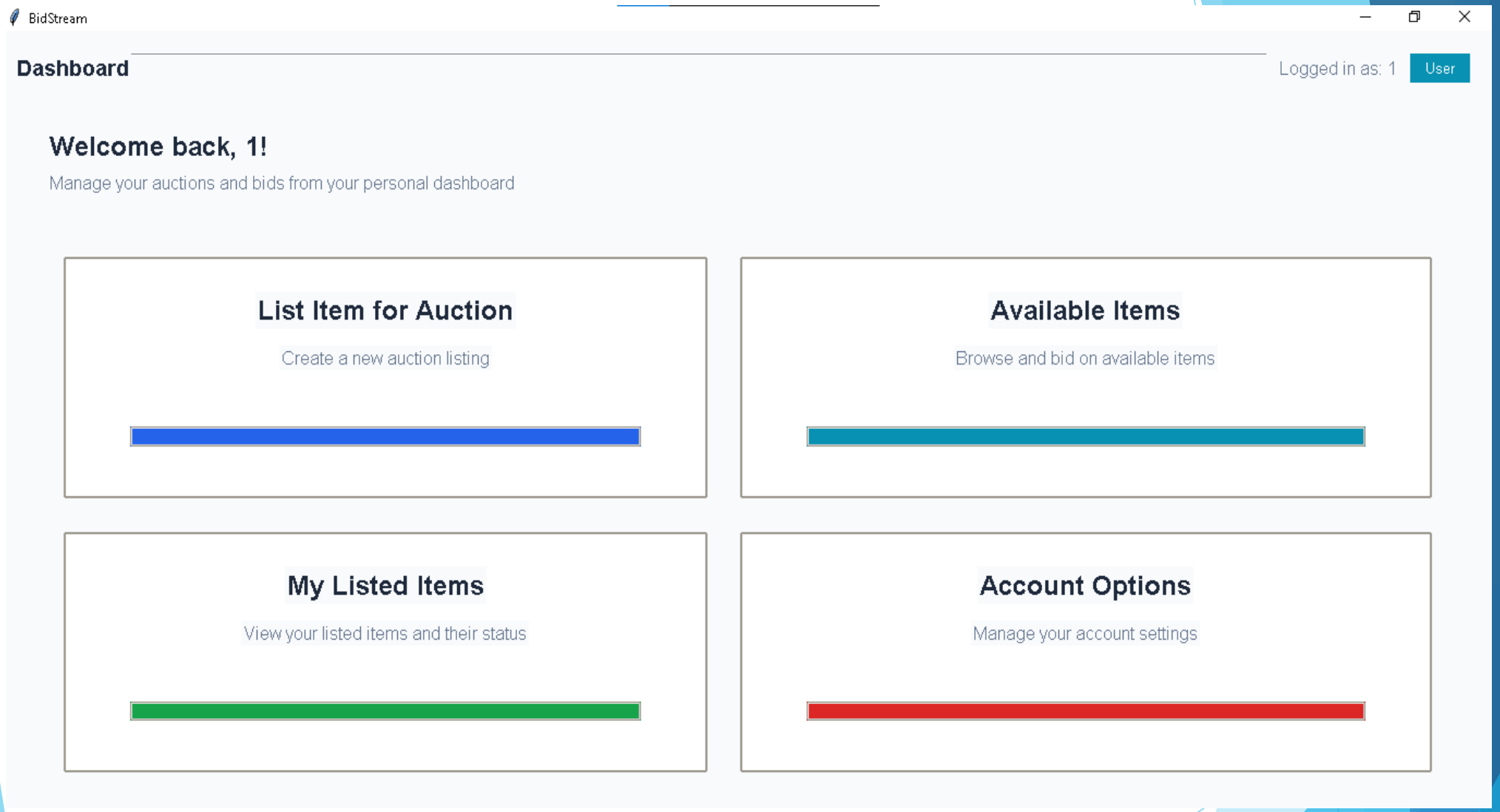


Fig.User Dashboard

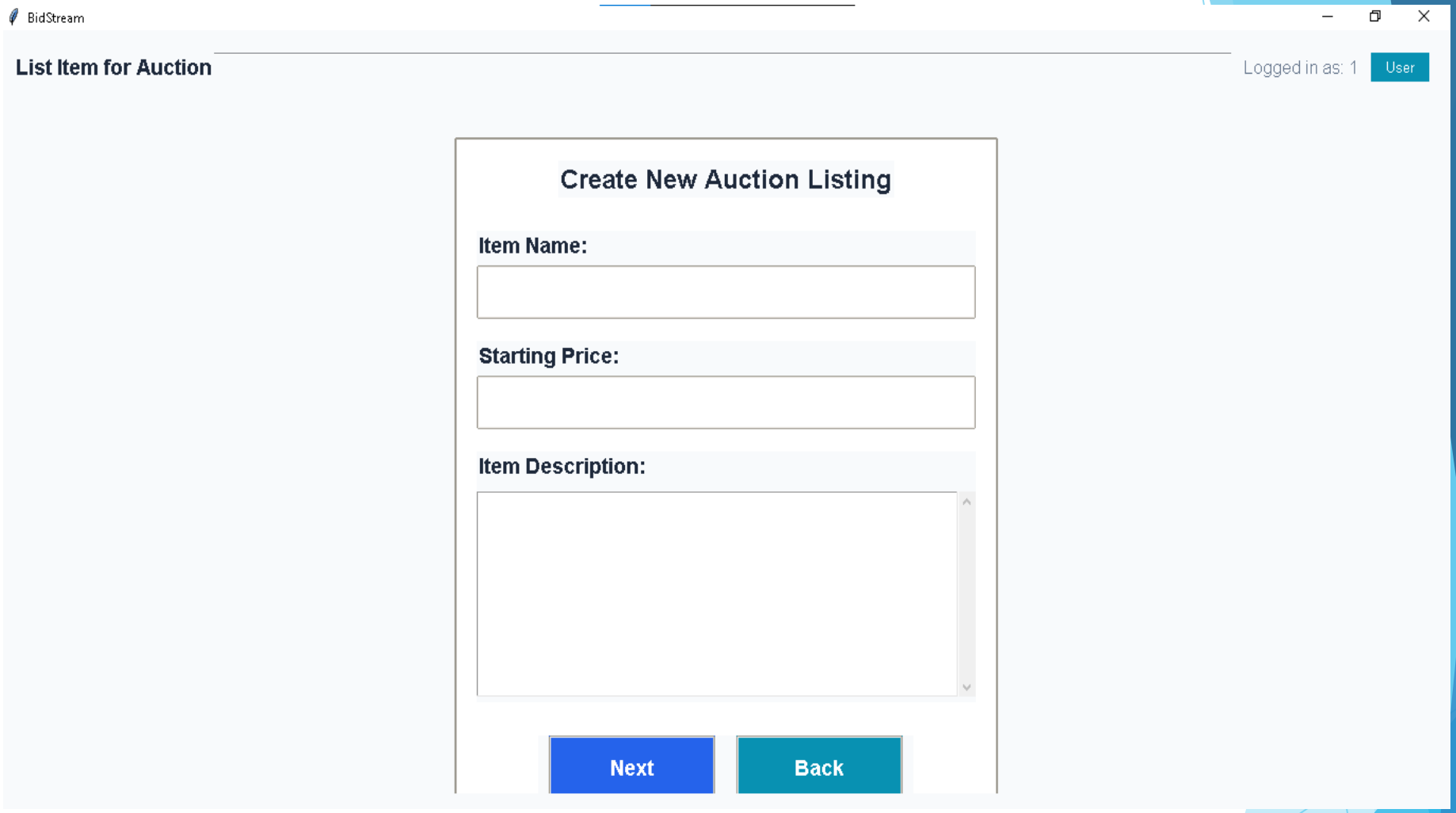


Fig.List item for Auction

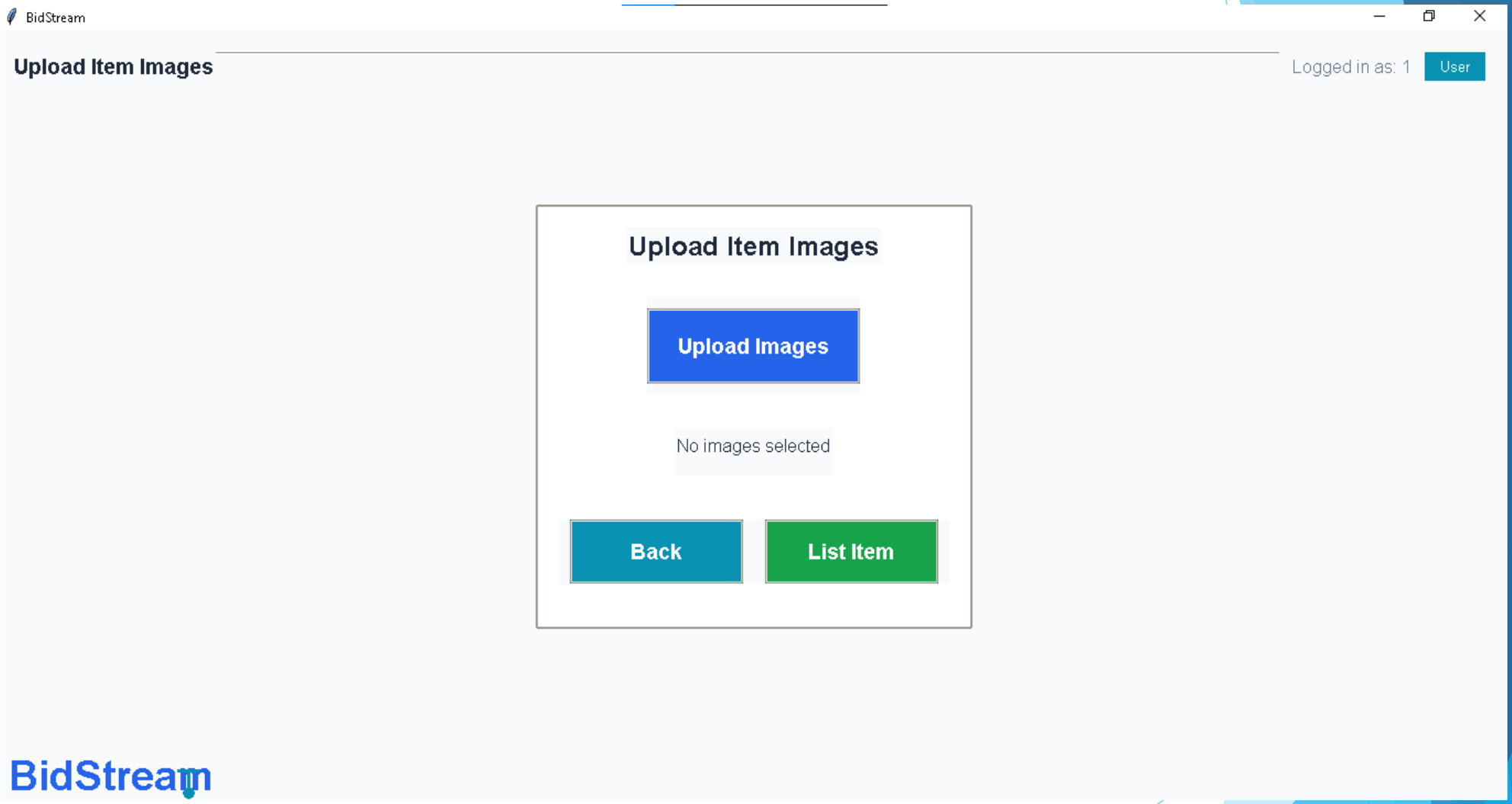


Fig.Upload item images

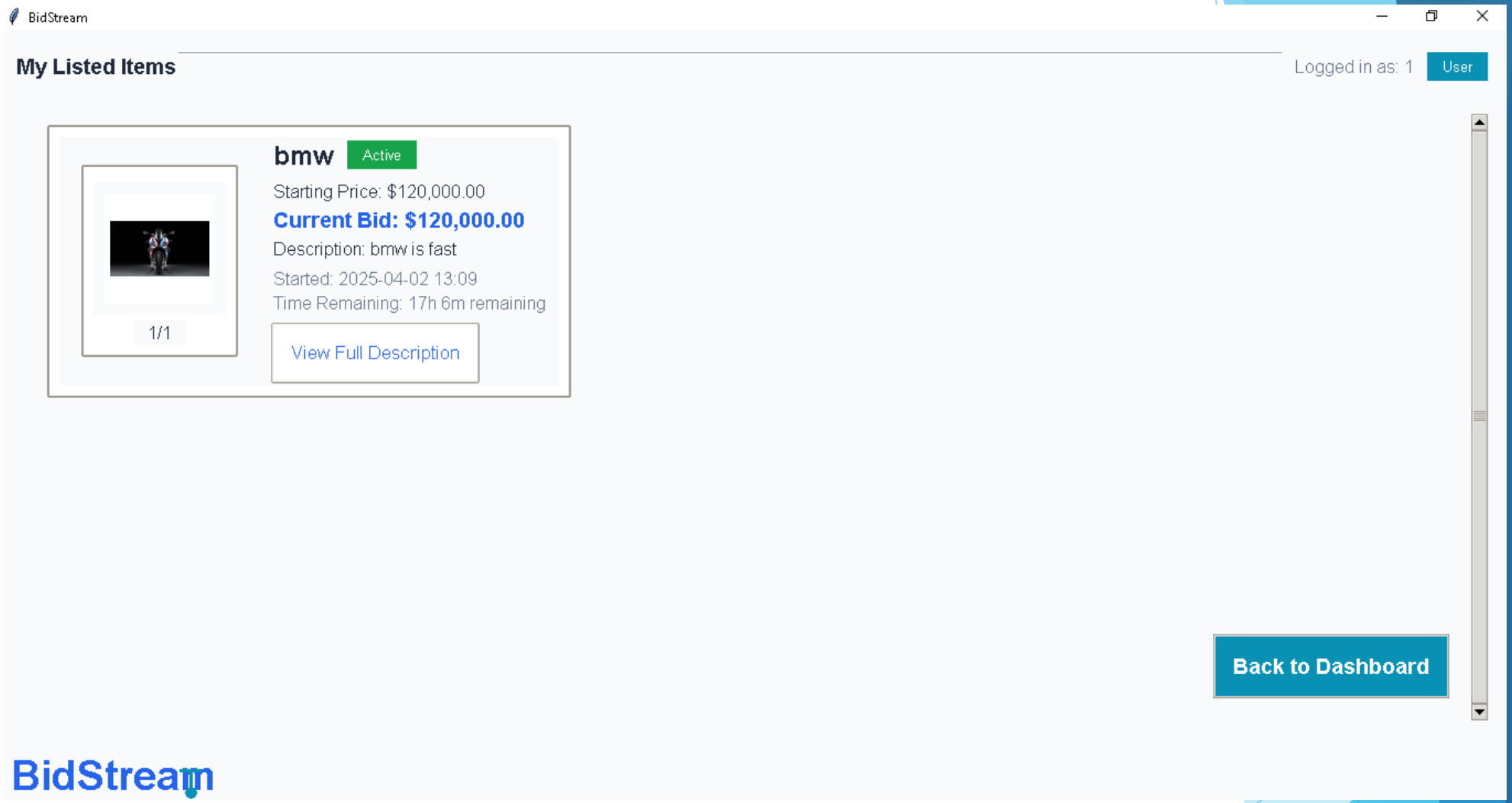


Fig.Previous bidded item

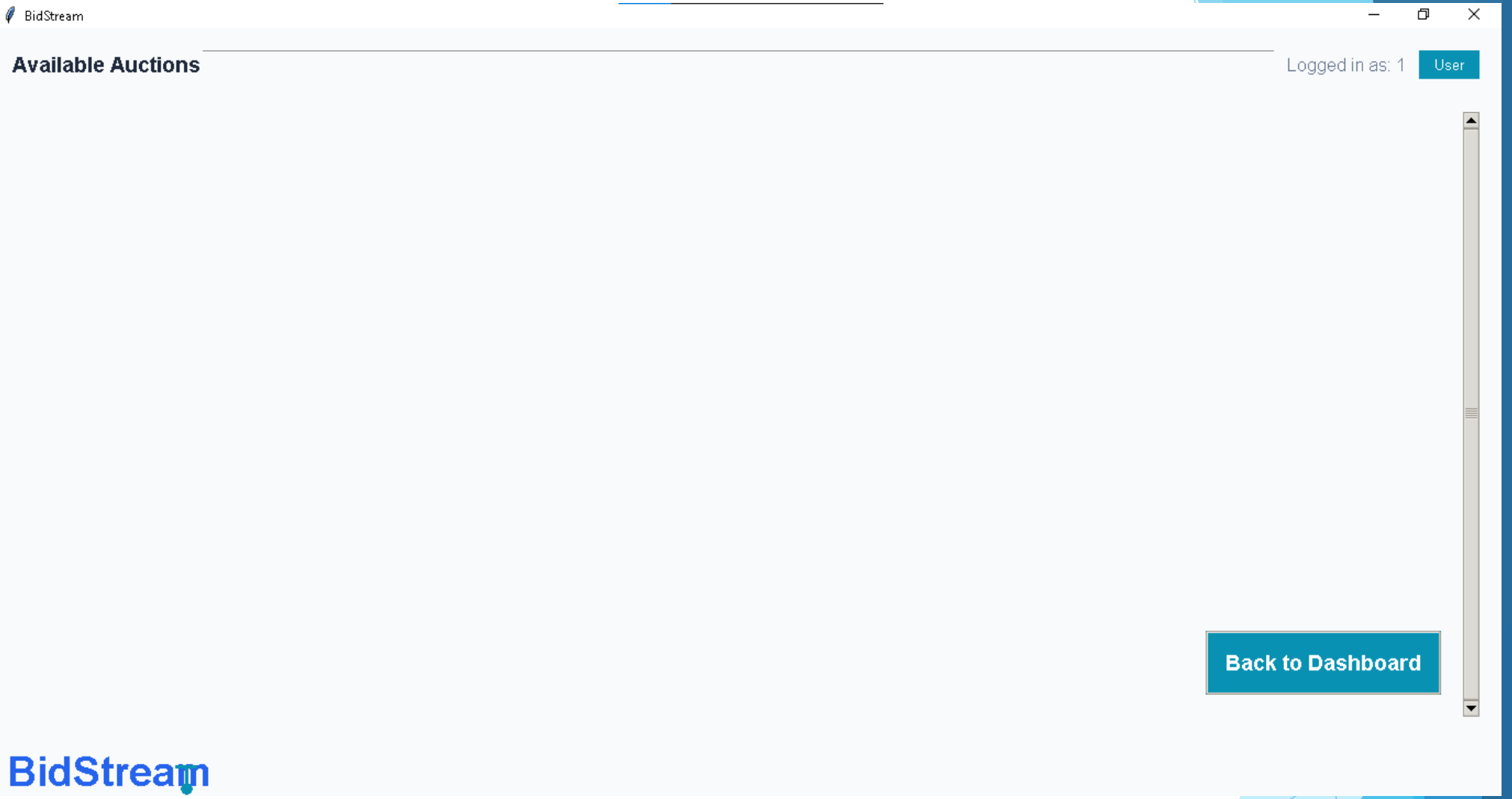


Fig.Available items page

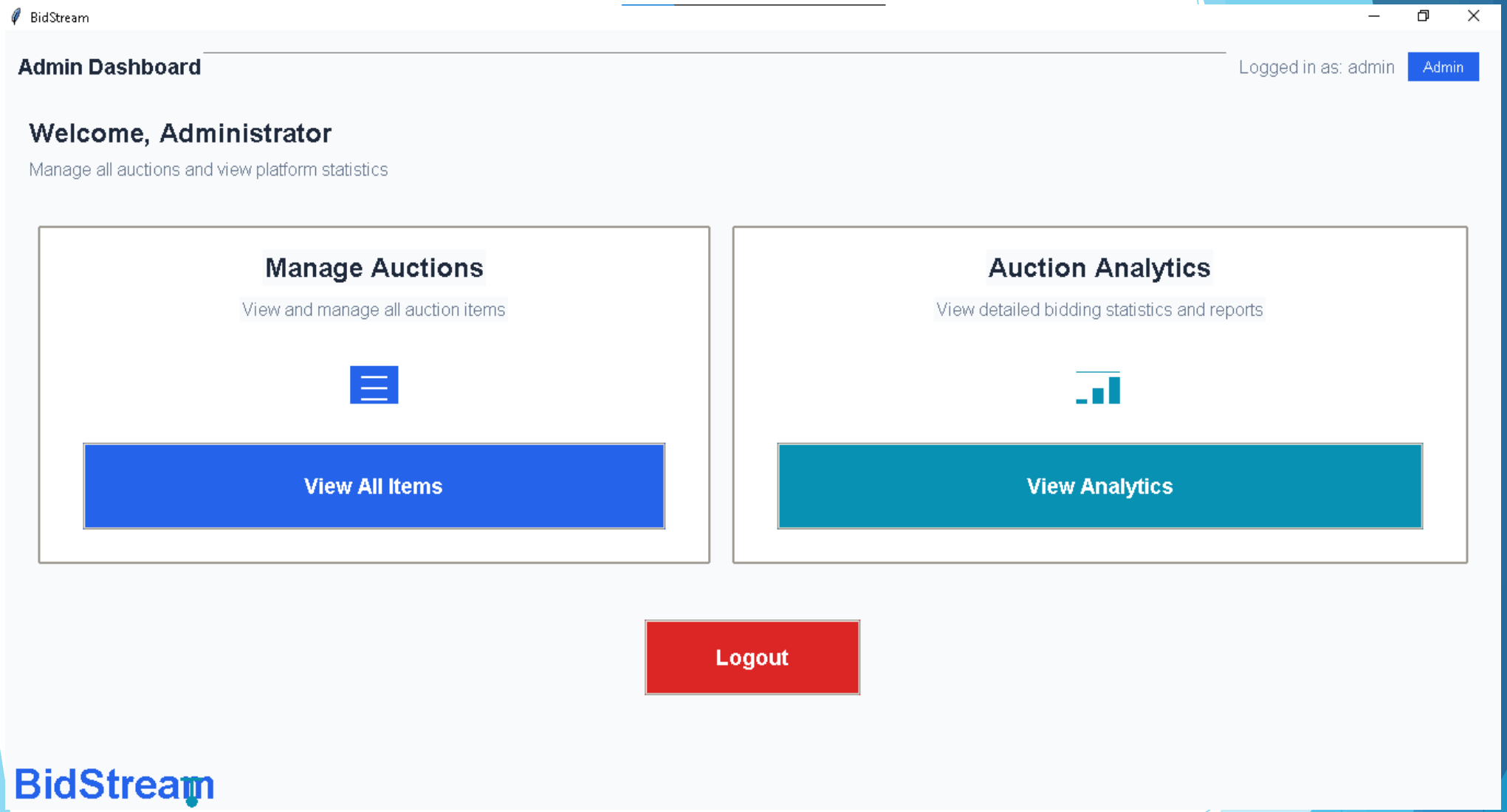


Fig.Admin Dashboard

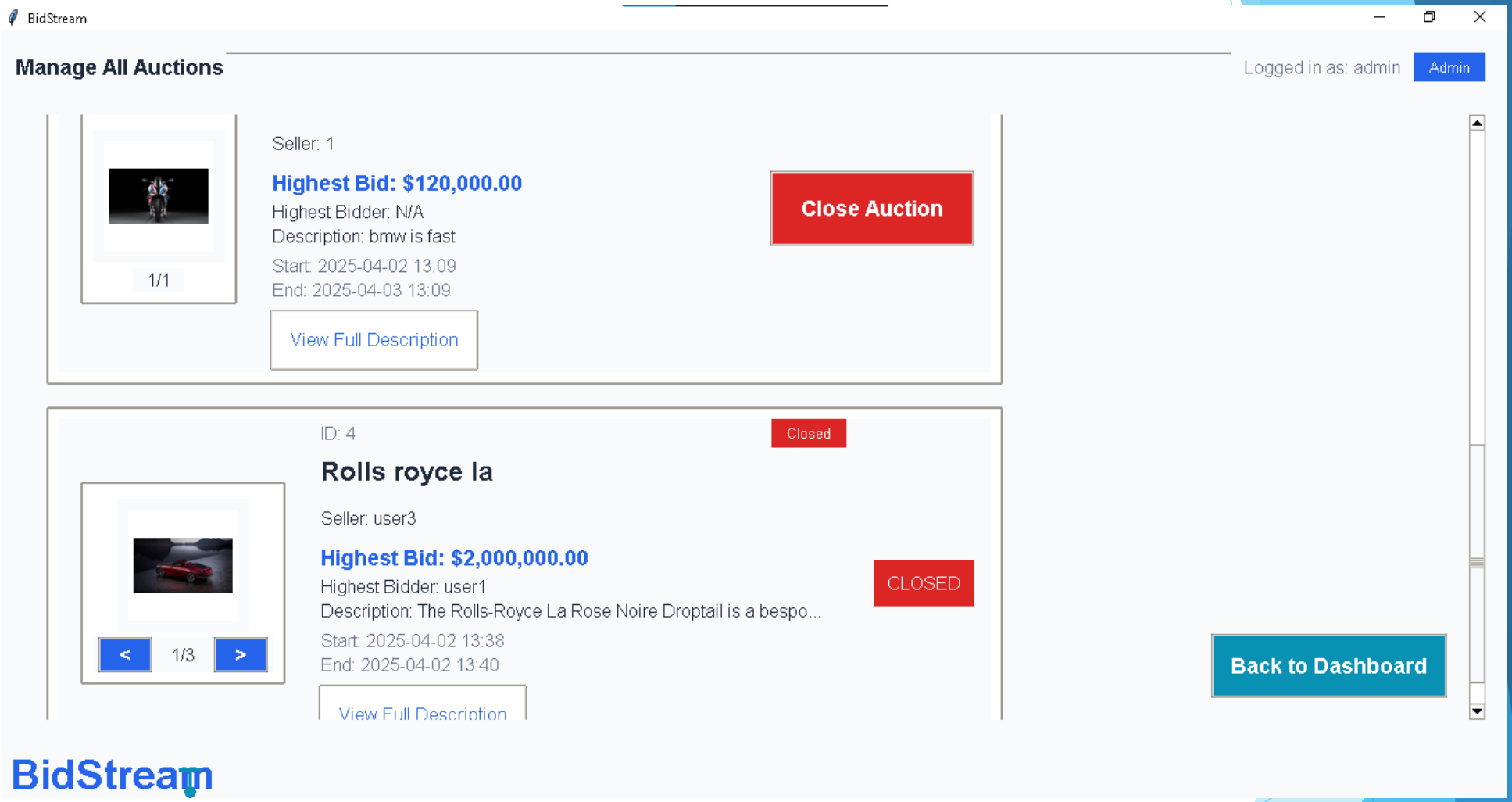


Fig.Manage all auction page

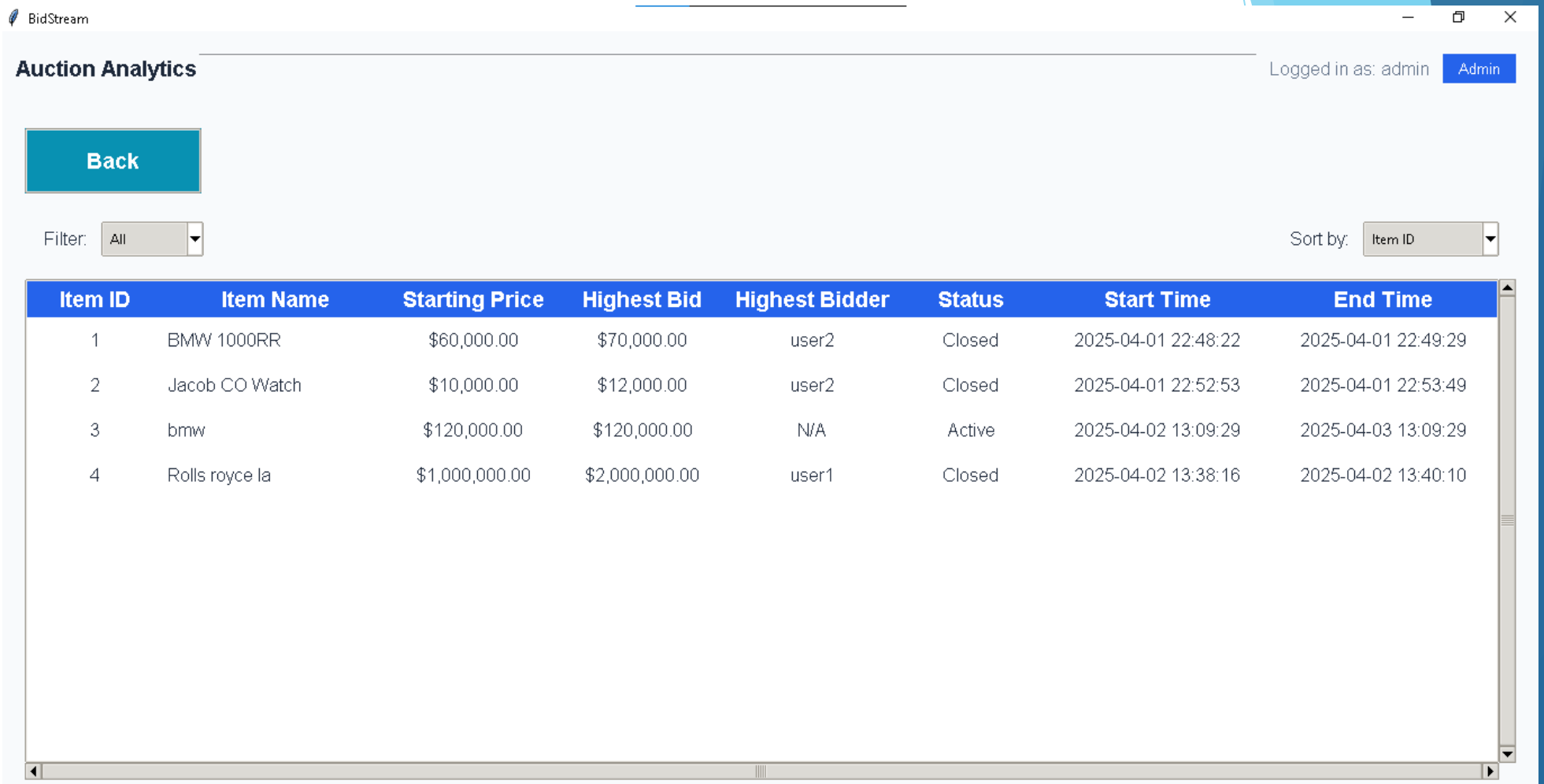


Fig. Auction Analytics

Thank You...!!