



PARSHWANATH CHARITABLE TRUST'S

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Department of Computer Science and Engineering  
Data Science



# BidStream: Seamless and Instant Auction Bidding

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**Project Guide**  
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- Introduction
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- Scope
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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**

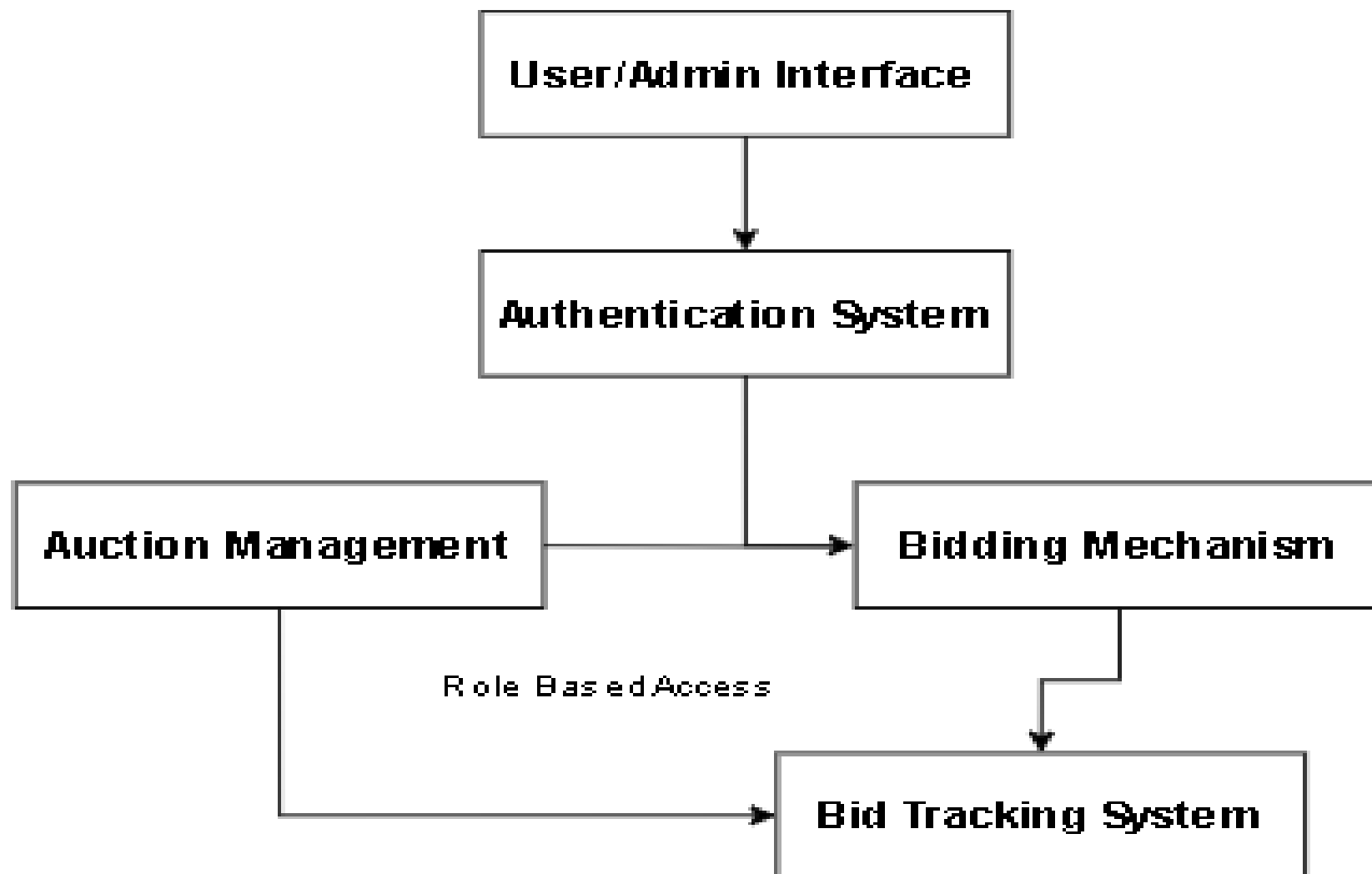
1. User can log in with registered details
2. User can register by creating a new account.
3. Users can view active auctions and auction details.
4. Users can place bids on available auctions.
5. System records and tracks bids for each auction.



# 6. Technology Stack

1. Python (Tkinter)
2. MySQL

## 7. Block Diagram



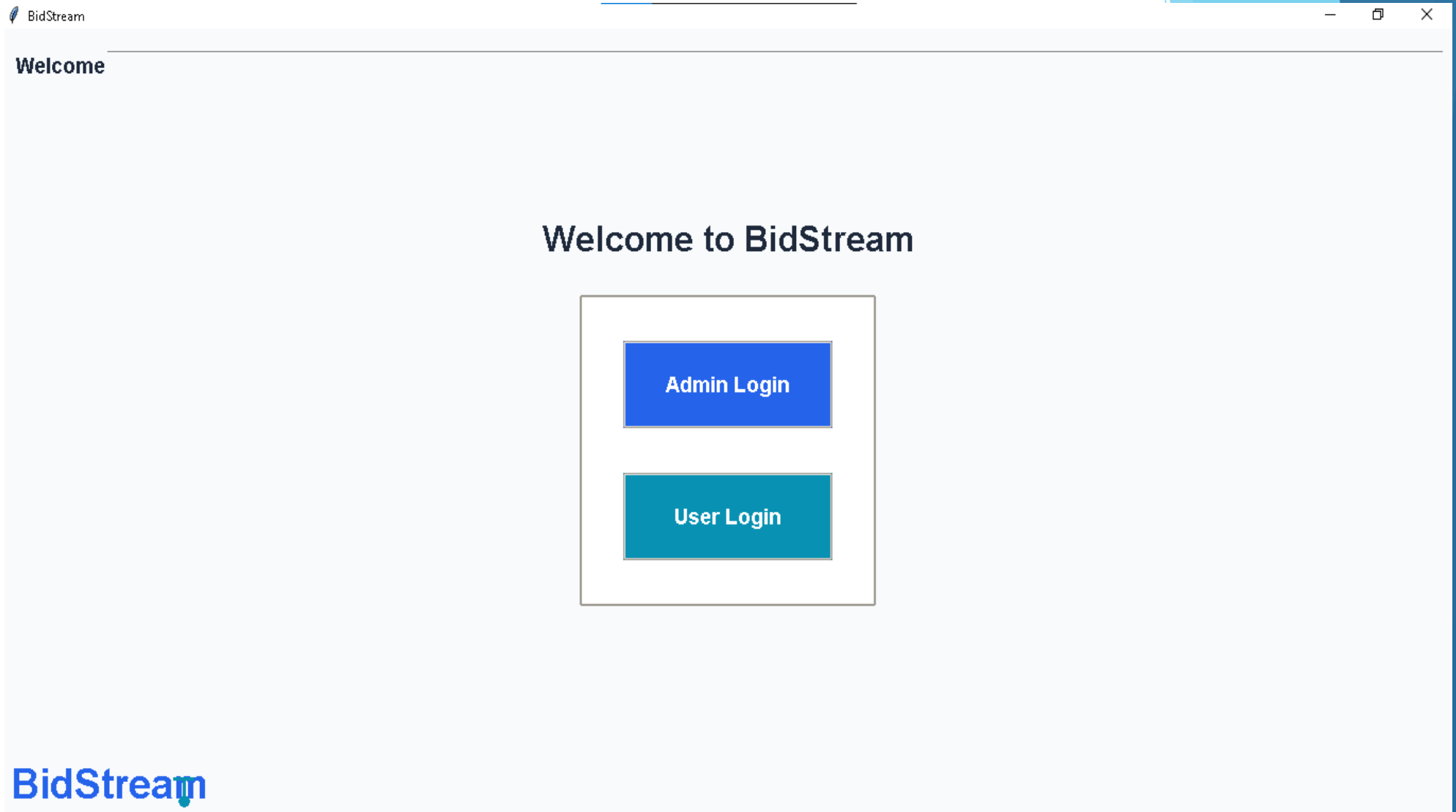


Fig.Login Page

## User Registration

**Username:**

**Email:**

**Password:**

**Register**

**Back to Login**

Fig.Registraion Page

## Dashboard

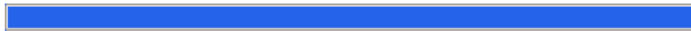
Logged in as: 1 User

### Welcome back, 1!

Manage your auctions and bids from your personal dashboard

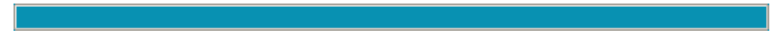
#### List Item for Auction

Create a new auction listing



#### Available Items

Browse and bid on available items



#### My Listed Items

View your listed items and their status



#### Account Options

Manage your account settings



Fig.User Dashboard

### Create New Auction Listing

Item Name:

Starting Price:

Item Description:

Next

Back

Fig.List item for Auction

Upload Item Images


Upload Images

No images selected

Back

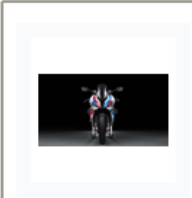
List Item

Fig.Upload item images

 BidStream

My Listed Items

Logged in as: 1 [User](#)



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**bmw** Active

Starting Price: \$120,000.00  
**Current Bid: \$120,000.00**  
Description: bmw is fast  
Started: 2025-04-02 13:09  
Time Remaining: 17h 6m remaining

[View Full Description](#)

[Back to Dashboard](#)




Fig.Previous bidden item



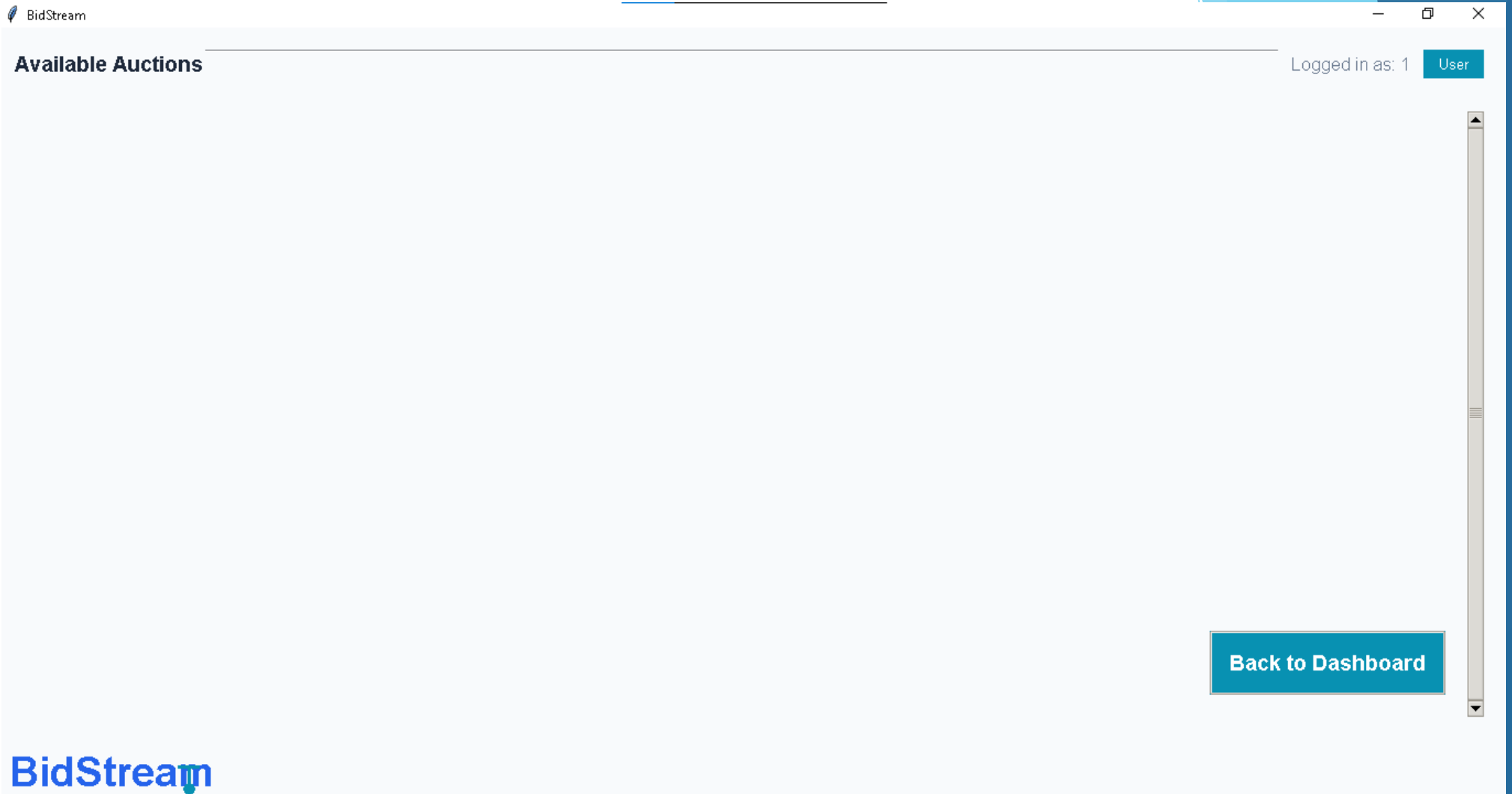


Fig.Available items page

## Welcome, Administrator

Manage all auctions and view platform statistics

### Manage Auctions

View and manage all auction items



[View All Items](#)

### Auction Analytics


View detailed bidding statistics and reports



[View Analytics](#)


[Logout](#)

Fig.Admin Dashboard

 BidStream

Manage All Auctions

Logged in as: admin [Admin](#)



1/1

Seller: 1

**Highest Bid: \$120,000.00**

Highest Bidder: N/A


Description: bmw is fast

Start: 2025-04-02 13:09

End: 2025-04-03 13:09

[View Full Description](#)

[Close Auction](#)



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ID: 4

**Rolls royce la**

Seller: user3

**Highest Bid: \$2,000,000.00**

Highest Bidder: user1

Description: The Rolls-Royce La Rose Noire Droptail is a bespo...

Start: 2025-04-02 13:38

End: 2025-04-02 13:40

[View Full Description](#)

[Closed](#)

[CLOSED](#)

[Back to Dashboard](#)


 BidStream

Fig.Manage all auction page



Fig. Auction Analytics

Thank You...!!