

# NEXT GEN EMPLOYABILITY PROGRAM

CREATING A  
FUTURE-READY  
WORKFORCE

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## CAPSTONE PROJECT SHOWCASE

Project Title  
**Online Auction Platform**

Abstract | Problem Statement | Project Overview | Proposed Solution |  
Technology Used | Modelling & Results | Conclusion | Q&A

## Abstract

1

The Auction App is a web-based platform designed to facilitate online auctions.

2

It allows users to sign up, log in, post auction items, place bids, and manage their auctions.

3

Built using modern technologies like React, Express.js, and MongoDB, the app provides a seamless and secure user experience.

4

The project focuses on creating a user-friendly interface, robust backend functionality, and efficient data management.

## Problem Statement

- Traditional auction systems are often manual, time-consuming, and lack transparency.
- There is a need for a digital platform that simplifies the auction process, ensures secure transactions, and provides real-time updates to users.



## Project Overview

•**Objective:** To create a web-based auction platform that allows users to post, bid, and manage auctions efficiently.

•**Features:**

- User authentication (signup, login, logout).
- Post, edit, and delete auction items.
- Place bids on auction items.
- View auction details and bid history.

•**Target Audience:** Individuals and businesses looking for an online auction platform.



### Proposed Solution

- **Frontend:** Built with React and Vite for a fast and responsive user interface.
- **Backend:** Developed using Express.js and MongoDB for efficient data handling and storage.
- **Authentication:** Secure user authentication using bcryptjs and JSON Web Tokens (JWT).
- **Real-Time Updates:** Users can view real-time bids and auction status updates.
- **Currency and Date Format:** Supports Indian Rupees (₹) and Indian Standard Time (IST).

## Technology used

### •Frontend:

- React
- Vite
- React Router
- Axios

### •Backend:

- Express.js
- MongoDB
- Mongoose
- bcryptjs
- jsonwebtoken

## Modelling & Result

### •User Authentication:

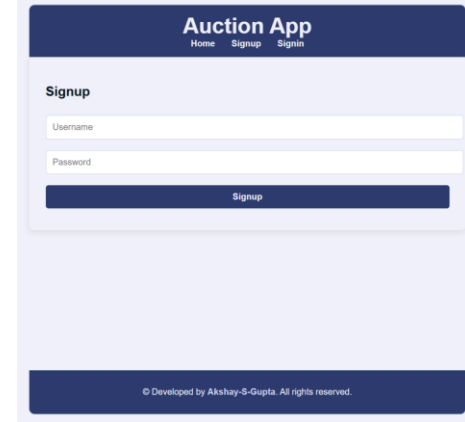
- Users can sign up, log in, and log out securely.
- Passwords are hashed using bcryptjs.

### •Auction Management:

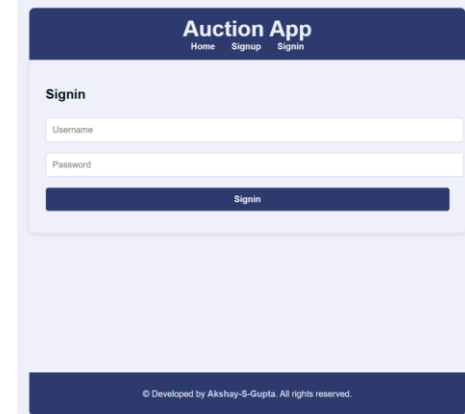
- Users can post, edit, and delete auction items.
- Real-time bidding functionality with updates on the highest bidder.

### •Dashboard:

- Displays a list of active auctions with details like item name, current bid, and closing time.



The image shows a web form for the 'Auction App' with a dark blue header containing the app name and navigation links for Home, Signup, and Signin. The main section is titled 'Signup' and contains two input fields for 'Username' and 'Password'. Below these fields is a dark blue button labeled 'Signup'. At the bottom of the form, there is a dark blue footer with the text '© Developed by Akshay-S-Gupta. All rights reserved.'



The image shows a web form for the 'Auction App' with a dark blue header containing the app name and navigation links for Home, Signup, and Signin. The main section is titled 'Signin' and contains two input fields for 'Username' and 'Password'. Below these fields is a dark blue button labeled 'Signin'. At the bottom of the form, there is a dark blue footer with the text '© Developed by Akshay-S-Gupta. All rights reserved.'



## Modelling & Result

### •Post Auction Page:

- Users can post new auction items with details like item name, description, starting bid, and closing time.

### •Auction Item Page:

- Displays detailed information about an auction item, including the current bid and highest bidder.
- Users can place bids on the item.

The screenshot shows the 'Post New Auction' page of the 'Auction App'. The app has a dark blue header with the title 'Auction App' and navigation links for 'Home', 'Dashboard', 'Post Auction', and 'Logout'. The main form area is light blue and contains the following fields: 'Item Name:' with a text input, 'Description:' with a text area, 'Starting Bid (₹):' with a numeric input set to '0', and 'Closing Time (IST):' with a date-time picker set to 'dd-mm-yyyy --:--'. A dark blue 'Post Auction' button is at the bottom of the form. A footer bar at the very bottom states '© Developed by Akshay-S-Gupta. All rights reserved.'

The screenshot shows the 'Auction Dashboard' page of the 'Auction App'. The header is identical to the previous page. Below the header, there is a 'Post New Auction' button. The main content area displays two items: 'Shirt - Current Bid: ₹1,50,00,001' and 'Pant - Current Bid: ₹15,00,000'. A footer bar at the bottom states '© Developed by Akshay-S-Gupta. All rights reserved.'

## Modelling & Result

### •Error Handling:

- Displays error messages for invalid inputs or API errors.

### •Responsive Design:

- The app is designed to work seamlessly on both desktop and mobile devices.

### •Currency and Date Format:

- All monetary values are displayed in Indian Rupees (₹).
- Dates and times are displayed in Indian Standard Time (IST).

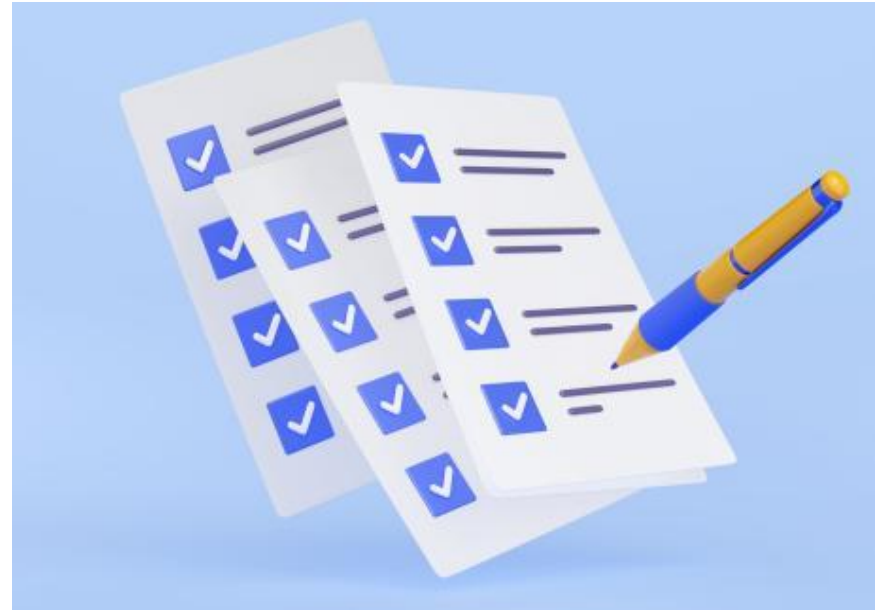
```
_id: ObjectId('67cca7d8ceba68826616343')
itemName: "Shirt"
description: "A shirt worn by Akshay S Gupta the Great."
startingBid: 10000
currentBid: 15000001
highestBidder: "akshaysgupta"
closingTime: 2030-11-15T09:45:00.000+00:00
isClosed: false
__v: 0
```

```
_id: ObjectId('67ccade181d8ef0c4a40aed2')
itemName: "Pant"
description: "Pant is worn by Akshay S Gupta the Great."
startingBid: 1500000
currentBid: 1500000
highestBidder: ""
closingTime: 2030-11-15T09:45:00.000+00:00
isClosed: false
__v: 0
```

```
_id: ObjectId('67cca5650175823f05a11dfb')
username: "akshaysgupta"
password: "$2a$10$BuYJnC9YDZgs3cktSyDlR.c/ty0Z1CVfaG5TKMn8s/F.9oXi4h.m."
__v: 0
```

## Conclusion

- The Auction App successfully addresses the challenges of traditional auction systems by providing a digital platform for auction management.
- Key features like user authentication, real-time bidding, and secure data handling make it a reliable solution for online auctions.
- Future enhancements could include payment integration, advanced search filters, and support for multiple languages





Thank you!

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foundation