

Walchand College of Engineering, Sangli

(Government aided Autonomous Institute)

Department of Computer Science and Engineering

TY CSE Mini Project 1
Report on

TENDERbus - SMART TENDER MANAGEMENT SYSTEM

Submitted by

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Under the guidance of

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Department of Computer Science and Engineering,
Walchand College of Engineering, Sangli

2024 - 2025



Walchand College of Engineering, Sangli

(Government aided Autonomous Institute)

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CERTIFICATE

This is to certify that the Project Report entitled, "**TENDERbus- SMART TENDER MANAGEMENT SYSTEM**" submitted by Ms. Jasmine Sayyad, Mr. Aadarsh Nandedkar, Ms. Priti Desai, to Walchand College of Engineering Sangli, India, is a record of bonafide project work of course **Mini Project I 6CS341** carried out by him/her under my/our supervision and guidance and is worthy of consideration for the award of the degree of Bachelor of Technology in Computer Science & Engineering of the Institute.

Mrs. Sana Shaikh

Guide

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Acknowledgement

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Thanks to Walchand College of Engineering, Sangli for the facilities that enabled this project, and to any industry partners who shared insights that enhanced our understanding.

Finally, we are grateful to our families, friends, and peers for their encouragement and support.

Declaration

We, Jasmine Sayyad, Aadarsh Nandedkar, and Priti Desai, hereby declare that the project report titled "**TENDERbus - Smart Tender Management System**" is our original work, completed under the guidance of Ms. Sana Shaikh. This report is submitted in partial fulfillment of the requirements for the Bachelor of Technology (B.Tech) degree in Computer Science and Engineering at Walchand College of Engineering, Sangli, and has not been submitted for any other degree.

Date:

Place: Sangli

Jasmine Sayyad 22510033 (Signature)

Aadarsh Nandedkar 22510047 (Signature)

Priti Desai 22510062 (Signature)

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Abstract

Purpose and Overview:

Objective: Summarize the overall purpose of the TENDERbus system, which is to streamline and automate the tender management process, replacing traditional manual methods with a digital system.

Scope: Highlight that the system aims to serve government agencies, corporations, and other organizations by providing an efficient, transparent, and secure tendering process.

Key Features and Innovations:

Automation: The system automates tender-related tasks (like creation, publishing, bid submission, and evaluation), minimizing manual effort and errors.

Transparency and Accountability: The system enhances transparency through audit trails, live chats, and access controls that build trust in the process.

Security: Secured user authorization and authentication, encrypted data handling, and role-based access controls to ensure data integrity and privacy.

Live Chat feature: Inclusion of a live chat feature where tender officers and bidders can communicate in real time by joining dedicated chat rooms for each tender. This feature fosters effective communication, allowing for prompt clarification of tender details and requirements, ultimately improving the responsiveness and accuracy of the tendering process.

Intended Impact:

Efficiency and Cost Savings: The TENDERbus system reduces the time and costs associated with traditional tendering, by eliminating paper-based processes, postal communication, and manual evaluations.

Fair Competition: TENDERbus levels the playing field by ensuring all bidders have equal access and opportunities, reducing risks of favoritism and fraud.

Environmental Benefits: Acknowledge the reduction in paper usage and carbon footprint by moving the tender process to a digital format.

Summary:

The TENDERbus Smart Tender Management System revolutionizes tendering by delivering a secure, automated, and user-friendly platform that enhances efficiency, fairness, and transparency.

1. Introduction and Related work

Context and Background:

In the procurement sector, tenders play a crucial role in enabling public agencies, corporations, and NGOs to acquire essential goods and services. Tenders allow organizations to solicit competitive bids, ensuring the selection of vendors who offer the best value. However, traditional, paper-based tender processes have significant limitations. These processes are often slow, costly, and prone to errors or manipulation. Physical document submissions create administrative bottlenecks, while manual handling of data increases the risk of oversight or tampering. As a result, there is a pressing need to address these inefficiencies and enhance the transparency and reliability of the tendering process.

Motivation for the Project:

The manual tendering system, though widely used, presents several challenges that a digital solution could effectively overcome. First, paper-based submissions and reviews are time-consuming and can delay procurement timelines. Second, the high costs associated with printing, handling, and storing physical documents make the process financially burdensome. Furthermore, manual evaluations can lack transparency and open the door to potential fraud or favoritism. A digital platform offers a streamlined alternative, reducing processing times, cutting costs, and supporting a fairer, more accessible evaluation process. This project addresses these needs by introducing a comprehensive, automated tender management system.

Project Relevance:

This project is highly relevant within the context of current trends in e-governance and digital transformation. As organizations increasingly prioritize efficiency, transparency, and sustainability, digital tendering solutions align with these evolving objectives. By shifting to an electronic system, organizations can embrace a more secure, traceable, and eco-friendly approach to procurement, meeting modern standards for operational integrity and public accountability.

2. Problem statement

The traditional tendering process is often slow, costly, and prone to errors, fraud, and lack of transparency, impacting suppliers, evaluators, and administrators. Manual handling of physical documents leads to high operational costs and increases the risk of bid tampering and unfair practices. To address these issues, this project aims to develop a digital tender management system that automates bid submission, evaluation, and contract awarding. The system will enhance transparency, reduce costs, minimize errors, and ensure fair competition by offering secure, real-time notifications and streamlined processes that align with e-governance and digital transformation trends.

3. Objectives

1: Efficiency and Automation

Details: Automate tender creation, publishing, and bid submission to reduce manual work and accelerate processes.

Expected Impact: Save time, reduce human error, and make the tender process more accessible for participants.

2: Transparency and Accountability

Details: Implement real-time chats, audit trails, and secure documentation to ensure transparency throughout the tender process.

Expected Impact: Build trust among users by creating a system that is open, traceable, and easy to audit.

3: Fairness and Equity

Details: Ensure fair bidding practices, compliance with legal and regulatory standards, and prevent favoritism or insider advantage.

Expected Impact: Provide equal opportunity for all bidders, enhancing the credibility and reliability of the tender process.

4: Security and Compliance

Details: Protect sensitive data using authentication, encryption, and compliance with data protection laws.

Expected Impact: Deliver a secure, legally compliant system that safeguards data integrity and user privacy.

4. Methodology

Development Phases with Justification:

1. Planning and Analysis

Tasks: Define project scope, set goals, and gather requirements.

Outputs: Project scope document, high-level design, and tech stack decision.

Explanation: Establishes a clear project foundation by determining system requirements and preparing a solid architectural blueprint.

2. System Design and Architecture

Tasks: Design system components, create wireframes, and finalize UI/UX.

Outputs: Architectural diagram, UI mockups.

Explanation: Visualizes data flow and component interaction, ensuring system scalability, modularity, and efficient data handling.

3. Development

Frontend: Build a responsive, intuitive user interface using React.

Backend: Utilize Express.js and Node.js to manage data flow and system logic.

Database: Implement MongoDB to ensure secure and high-performance data management.

4. Testing and Quality Assurance

Types: Conduct functional, load, and security testing.

Tools: Use Selenium for UI testing and JMeter for performance testing.

Expected Outcome: Ensures the system is robust, reliable, and minimizes potential bugs, delivering a stable user experience.

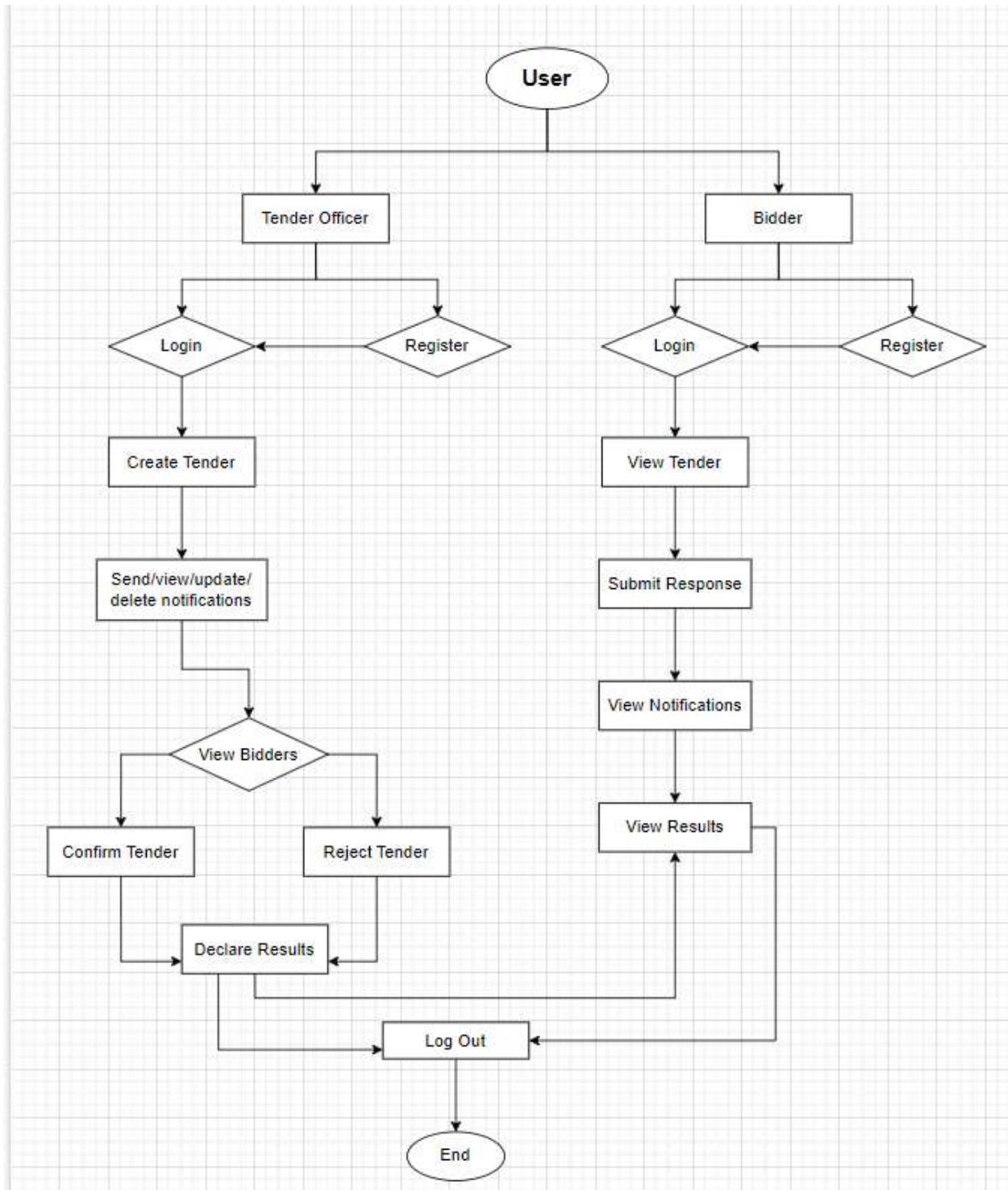
5. Deployment and Maintenance

Deployment: Deploy on a cloud platform (e.g., AWS) to ensure scalability and reliability.

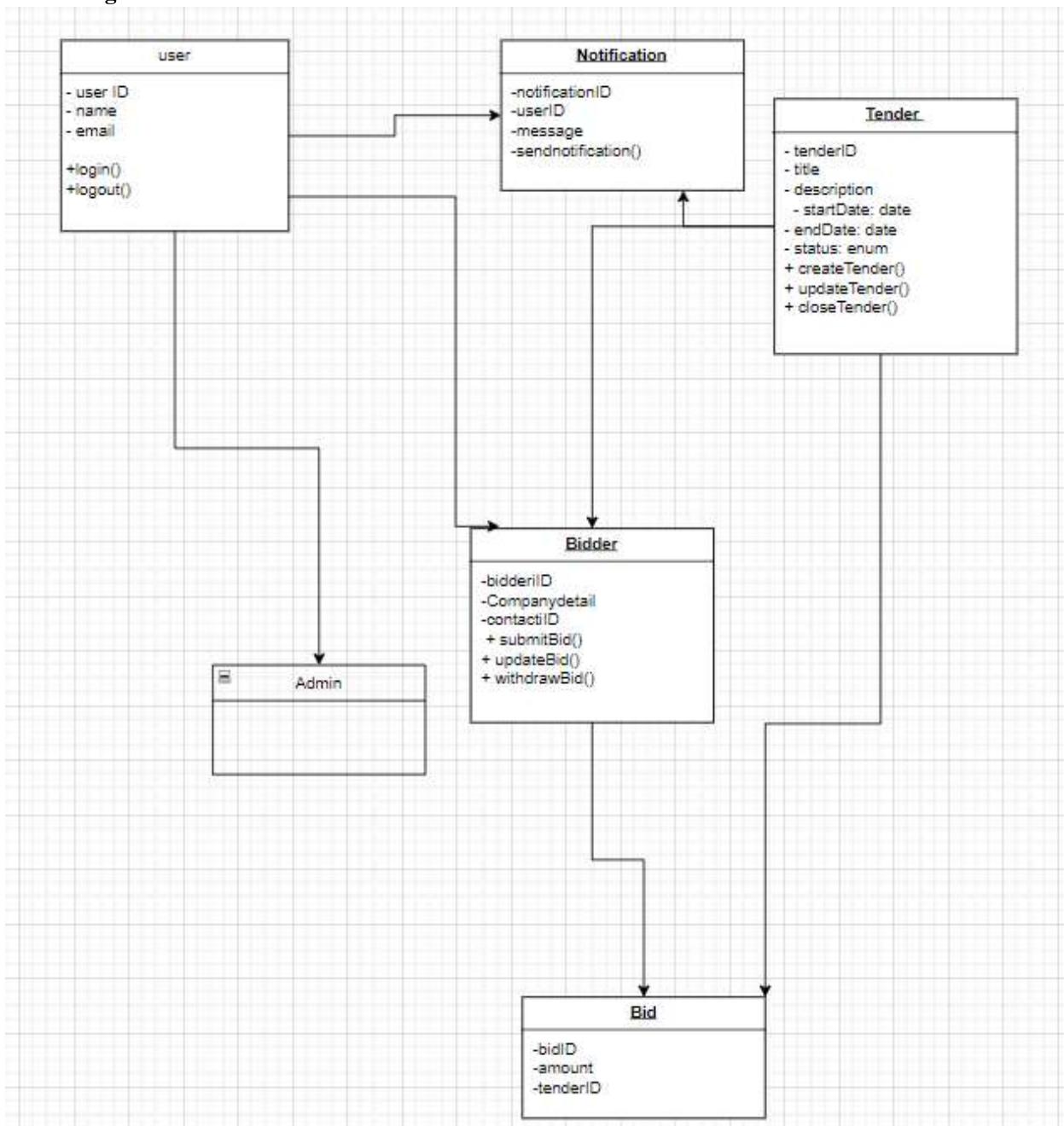
Maintenance: Establish continuous monitoring, feedback loops, and regular updates.

Expected Impact: Provides a stable, adaptable platform that evolves based on user feedback and performance requirements.

5. Project diagrams



UML Diagram



6. Test plan

1. Login and Authentication:

Description: Validate login for different user roles (admin, bidder, evaluator) and test the security of authentication mechanisms.

Expected Result: Successful login for authorized users and prevention of unauthorized access.

2. Tender Creation:

Description: Test admin functionality for creating and publishing tenders, ensuring required fields and validations are correctly implemented.

Expected Result: Admin can create and publish tenders without errors, with data accurately stored in the system.

3. Bid Submission:

Description: Verify bidder access to view available tenders, complete bid submission, and secure data handling throughout the process.

Expected Result: Bidders can access tenders, submit bids successfully, and have their data securely stored.

4. Notification System:

Description: Test the system's real-time notifications for critical events, including tender creation, bid deadlines, and award announcements.

Expected Result: Users receive timely and accurate notifications based on role and activity within the system.

Testing Methodologies

- Manual Testing: Used on basic functionalities to validate expected system responses and interactions for each feature.
- Automated Testing: Applied to repetitive tasks, ensuring reliability and consistent behavior across multiple test scenarios. Automated tests will be used for login authentication, data handling, and system notifications.

Acceptance Criteria

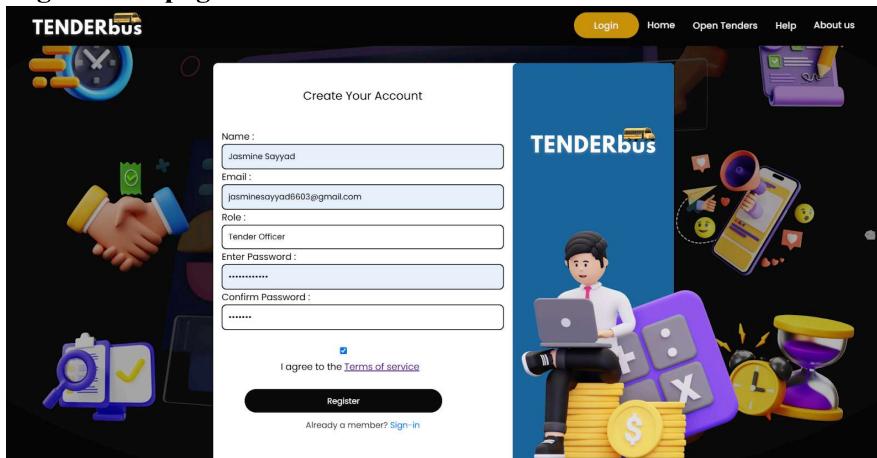
- Login and Authentication: Users can log in without errors, and unauthorized access is effectively prevented.
- Tender Creation: Tenders are fully listed and viewable post-creation, with no missing data or errors.
- Bid Submission: Bidders can submit error-free bids, and the system securely handles bid data.
- Notification System: Real-time notifications are triggered accurately and received by relevant users promptly.

7. Results

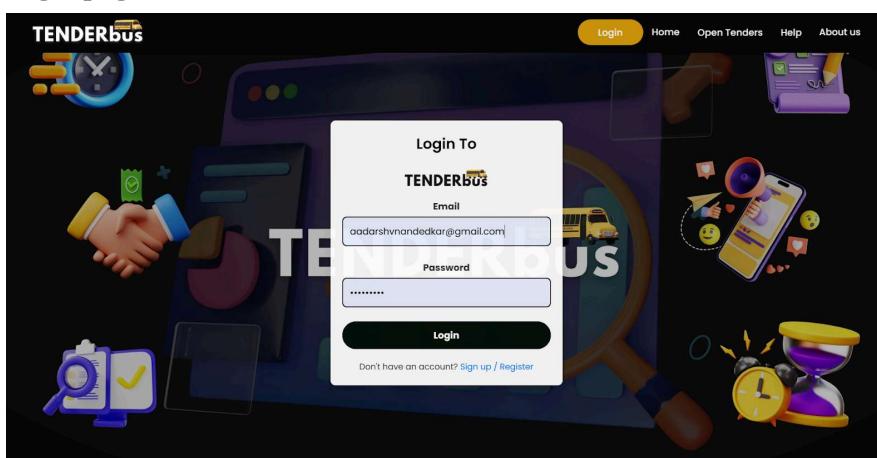
Landing Page :



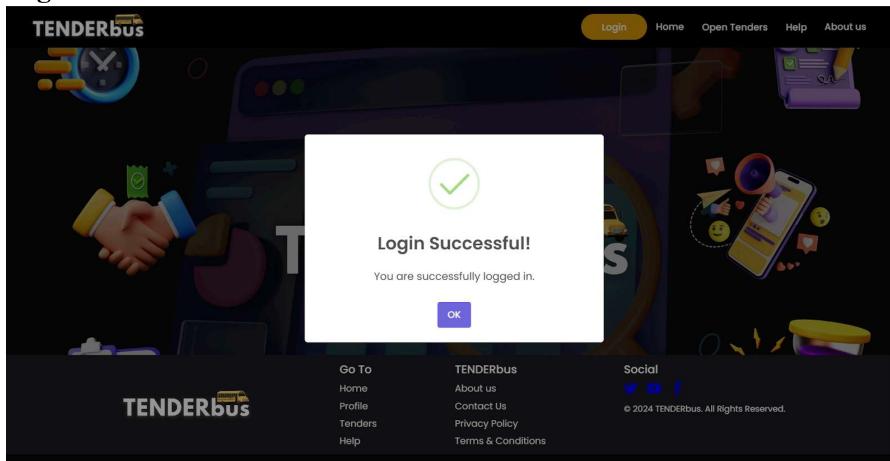
Registration page :



Login page :



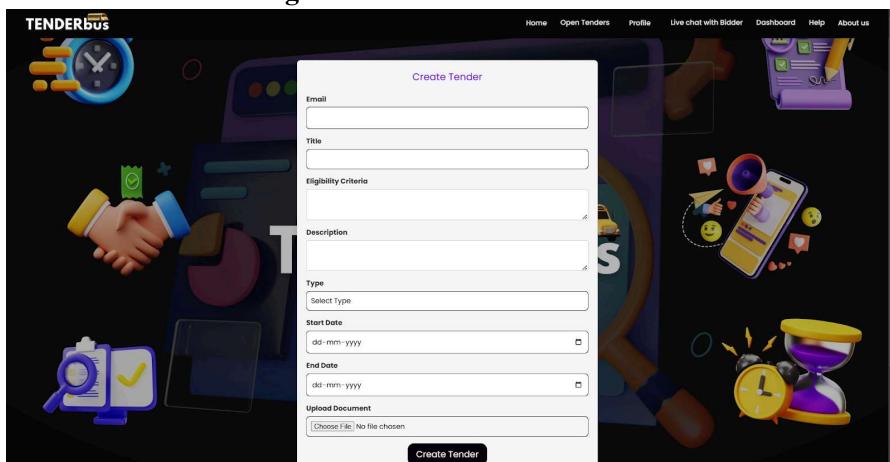
Login Successful :



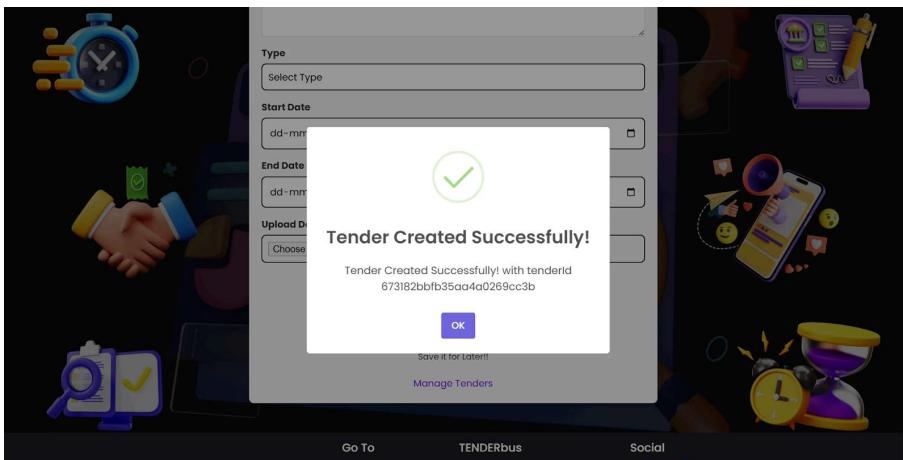
Tender Officer's Dashboard :



Tender Creation testing :



Tender Created :



Manage Tenders by Modifying or deleting particular tender created by owner :

Sr. No.	Tender ID	Title	Description	Start Date	End Date	Status	Actions
1	672da796dfa4ad218763bf97	Transportation	Transportation of apples from Kashmir to Kanyakumari	11/14/2024	11/28/2024	Active	View Bids Edit Delete
2	6730541b3984f614adbc08a2	Supply and Installation of Solar Power Systems	The objective of this tender is to invite qualified vendors for the supply, installation, and commissioning of solar power systems across designated public buildings and facilities. The project aims to harness renewable energy to reduce dependency on non-renewable power sources, lower carbon emissions, and promote sustainable energy solutions in alignment with government green energy initiatives.	11/12/2024	11/29/2024	Active	View Bids Edit Delete
3	6730eb78065a0c37da1309b2	Construction of a 10 story building	construction of the 10 story building near the MG road , Mumbai within the 1 year time and budget upto 2 crore.	11/15/2024	11/30/2024	Active	View Bids Edit Delete
4	673182bbfb35aa4a0269cc3b	Construction of railway bridge	Scope: Complete railway bridge construction, including foundation, structure, track laying, electrical, signaling, and safety measures. Timeline: Fixed project duration with penalties for delays. Standards: Strict adherence to safety and quality control.	11/15/2024	12/2/2024	Active	View Bids Edit Delete

Bids For Selected Tender :

Sr. No.	Tender ID	Title	Description	Start Date	End Date	Status	Actions
1	672da796dfa4ad218763bf97	Transportation	Transportation of apples from Kashmir to Kanyakumari	11/14/2024	11/28/2024	Active	View Bids Edit Delete
2	6730541b3984f614adbc08a2	Supply and Installation of Solar Power Systems	Bids for Selected Tender Bidder: Manali Khedekar View Bid Details Bidder: Ram View Bid Details solutions in alignment with government green energy initiatives.	11/12/2024	11/29/2024	Active	View Bids Edit Delete
3	6730eb78065a0c37da1309b2	Construction of a 10 story building	construction of the 10 story building near the MG road , Mumbai within the 1 year time and budget upto 2 crore.	11/15/2024	11/30/2024	Active	View Bids Edit Delete
4	673182bbfb35aa4a0269cc3b	Construction of railway bridge	Scope: Complete railway bridge construction, including foundation, structure, track laying, electrical, signaling, and safety measures. Timeline: Fixed project duration with penalties for delays. Standards: Strict adherence to safety and quality control.	11/15/2024	12/2/2024	Active	View Bids Edit Delete

Modify Tender Form :

The screenshot shows the 'TENDERbus' website's 'Modify Tender' interface. At the top, there's a navigation bar with links: Home, Open Tenders, Profile, Live chat with Bidder, Dashboard, Help, and About us. The main area has a dark background with various icons related to business and technology. A central modal window titled 'Modify Tender' contains the following fields:

- Enter Tender ID:
- Title:
- Eligibility:
- Description:
- Type:

A red 'Modify this Tender' button is at the bottom of the modal.

Tender Modified :

The screenshot shows the 'TENDERbus' website's 'Manage Your Tenders' page. The main content is a table with columns: Sr. No., Tender ID, Title, Description, Start Date, End Date, Status, and Actions. There are four rows of data:

Sr. No.	Tender ID	Title	Description	Start Date	End Date	Status	Actions
1	672da796dfa4ad218763bf97	Transportation	(empty)	11/13/2024	11/6/2024	Inactive	View Bids Edit Delete
2	6730541b3994f614ddbc09a2	Supply and Installation of Solar Power Systems	(empty)	11/12/2024	11/29/2024	Active	View Bids Edit Delete
3	6730eb78065a0c37da1309b2	Construction of a 10 story building	construction of the 10 story building near the MG road , Mumbai within the 1 year time and budget upto 2 crore.	11/15/2024	11/30/2024	Active	View Bids Edit Delete
4	673182bbfb35ca4a0269cc3b	Construction of railway bridge	Scope: Complete railway bridge construction, including foundation, structure, track laying, electrical, signaling, and safety measures. Timeline: Fixed project duration with penalties for delays. Standards: Strict adherence to safety and quality control.	11/15/2024	12/2/2024	Active	View Bids Edit Delete

A modal window in the center says 'Tender Modified Successfully!' with an 'OK' button.

Error Message If Wrong Tender-ID Entered :

The screenshot shows the 'TENDERbus' website's 'Delete Tender' interface. The main content is a modal window with the following text:

Delete Tender

Tender ID:

Failed to delete Tender

OK

The background shows the same dark-themed dashboard with icons and a navigation bar.

Bid Evaluation :

The screenshot shows the TENDERbus Bid Evaluation interface. At the top, there are navigation links: Home, Open Tenders, Profile, Live chat with Bidder, Dashboard, Help, and About us. Below this is a sub-navigation bar with 'Bid Evaluation' and a link to 'View The Bids To Be Included in the Csv File and click Export Here'. A 'Sort By:' dropdown is set to 'Bid Amount'. On the right, a purple 'Export to CSV' button is visible. The main content area contains two tables. The first table lists tenders with columns: Tender Title, Start Date, End Date, Status, and Actions. The second table provides detailed evaluation information for specific tenders, including Bidder Name, Company Name, Bid Amount, Evaluation Score, Status, and Actions. Both tables include 'Hide Bids' and 'View Bids' buttons.

Rate a Bid :

This screenshot shows the 'Rate Bid' dialog box overlaid on the Bid Evaluation page. The dialog has four input fields: 'bidAmount' (5), 'timeliness' (6), 'quality' (7), and 'reliability' (8). Below these is a text input field containing 'Quotation is higher'. At the bottom of the dialog are 'Submit Evaluation' and 'Close' buttons. The background shows the same bid evaluation tables as the previous screenshot.

Evaluation Submitted :

This screenshot shows a success message 'Evaluation submitted successfully!' displayed in a white box with a green checkmark icon. The message is centered over the bid evaluation tables. The background remains the same as the previous screenshots.

Status after Evaluation :

Bid Evaluation

View The Bids To Be Included in the Csv File and click Export Here ↗

Sort By: Bid Amount

Tender Title

Tender Title	Start Date	End Date	Status	Actions
Supply and Installation of Solar Power Systems	11/12/2024	11/29/2024	Active	<button>Hide Bids</button>
Construction of a 10 story building	11/15/2024	11/30/2024	Active	<button>View Bids</button>
Construction of railway bridge	11/15/2024	12/2/2024	Active	<button>View Bids</button>

Tender Title

Tender Title	Bidder Name	Company Name	Bid Amount	Evaluation Score	Status	Actions
Supply and Installation of Solar Power Systems	Manali Khedekar	The Khedekar's	800000	6.2	✓	<button>Evaluate</button>
Supply and Installation of Solar Power Systems	Ram	SKY	1234567	Not Scored	N/A	<button>Evaluate</button>

Export to CSV

Bidder Dashboard :

Welcome To
Bidder Dashboard

priti

Enter Your Bidder ID:

Fetch Bids

Manage Your Bids

All Tenders | Submit Bid | Your Bids

Your Bids and Points

Hide Bid Table

BID ID	EVALUATION SCORE
672e1f14c0ccb587c528ff83	Not Scored
672e1b09c0ccb587c528ff92	Not Scored
6730b784b615689b7e4b199e	5.0

Go To TENDERbus Social

Tenders :

The screenshot shows a dark-themed user interface for the TENDERbus platform. At the top, there's a navigation bar with links for Home, Open Tenders, Profile, Live chat with T/O, Dashboard, Help, and About us. Below the navigation is a decorative header featuring a stylized bus and school-related icons. A central call-to-action button says "Tenders Open Now!". Below this, there are eight cards, each representing a different tender. Each card contains a unique tender ID, a title, and a brief description.

Tender ID	Title
6729b4550e7e22e82f03be07	Upgrading of Public Transportation Systems
672b1571534d556f6c9e8b87	This tender involves the construction of a two-story school building including classrooms, administrative offices, and associated facilities
672b3444833f9f02f221891f	qwertyu
672c246ee907b8919c967e0b	Road Construction
672c6e4e12da3ce33afe3bdd	wcwccedcdwec
672c944c49ec103158385d1d	My tender by AV
672e5475897a11009f079165	Aadarsh is the best...No one is like AV
6730541b3984f6f4adbc08a2	Supply and installation of Solar Power Systems
6730eb78065a0c37d01309b2	Construction of a 10 story building
673182bbfb35aa40269cc3b	Construction of railway bridge

Tender Details :

This screenshot shows a modal window displaying detailed information about a specific tender. The title of the tender is "Supply and Installation of Solar Power Systems". The modal includes a description of the project, which aims to invite qualified vendors for the supply, installation, and commissioning of solar power systems across designated public buildings and facilities. It also specifies the tender type as "Limited", its status as "Active", and the dates for submission. A "View Document" link is also present.

Tender ID: 6730541b3984f6f4adbc08a2
Supply and Installation of Solar Power Systems

The objective of this tender is to invite qualified vendors for the supply, installation, and commissioning of solar power systems across designated public buildings and facilities. The project aims to harness renewable energy to reduce dependency on non-renewable power sources, lower carbon emissions, and promote sustainable energy solutions in alignment with government green energy initiatives.

Type: Limited
Status: Active
Start Date: 1/1/2024
End Date: 1/25/2024
[View Document](#)

Bidding :

This screenshot shows a list of tenders available for bidding. Each tender is represented by a card with its ID, title, and a brief description. The cards are arranged in a grid format.

Tender ID	Title
6729b4550e7e22e82f03be07	Upgrading of Public Transportation Systems
672b1571534d556f6c9e8b87	This tender involves the construction of a two-story school building including classrooms, administrative offices, and associated facilities
672b3444833f9f02f221891f	qwertyu
672c246ee907b8919c967e0b	Road Construction
672c6e4e12da3ce33afe3bdd	wcwccedcdwec
672c944c49ec103158385d1d	My tender by AV

Select Tender To Bid :

The screenshot shows the TENDERbus website's interface. A central modal window is open, titled "Click On Tender To Bid". Inside the modal, there is detailed information about a specific tender:

Tender ID: 672b1571534d556f6c9e8b87
This tender involves the construction of a two-story school building including classrooms, administrative offices, and associated facilities.
The selected vendor will supply, install, and provide maintenance for solar panel arrays on ten government buildings. This includes providing a warranty for at least 5 years and ongoing service support.

Type: Restricted
Status: Active
Start Date: N/A
End Date: N/A
[View Document](#)

Submit Bid

Outside the modal, several other tender cards are visible:

- Tender ID: 672b4550a7e22e1f Upgrading of Transportation
- Tender ID: 672c246ee597b89 Road Constr...
- Tender ID: 672e5475897a11009f079165 Aadarsh is the best ...No one is like AV
- Tender ID: 6730541b3984fe4adbc08a2 Supply and Installation of Solar Power Systems
- Tender ID: 6730eb78065a0c37da130b2 Construction of a 10 story building

Chat Room :

The screenshot shows the TENDERbus website's interface with a "Live chat with T/O" button highlighted. A modal window titled "Join A Live Chat" is open, prompting the user to enter their name and tender ID to join a room.

Join A Live Chat

Name...
Tender ID...
Join A Room

Submit Bid Form :

The screenshot shows the TENDERbus website's interface with a "Submit Bid" form for a specific tender. The form is titled "Submit Bid for Tender-id: 672b1571534d556f6c9e8b87". It contains fields for bidder information, company details, registration number, email, phone number, bid amount, and a description area.

Submit Bid for Tender-id: 672b1571534d556f6c9e8b87

Bidder's Full Name
Company Name
Company Registration Number
Email Address
Phone Number
Bid Amount
Bid Description
Additional Notes (Optional)

Bid Details :

The screenshot shows a modal window titled "Bid Details for Tender-ID: 672b1571534d556f6c9e8b87". Inside the modal, the following information is displayed:

- Bid ID: 672e11f4c0ccb587c528ff83
- Tender: 672b1571534d556f6c9e8b87
- Bidder Name: **jasmine**
- Company Name: **Tender**
- Company Registration Number: **123345**
- Email: priti@gmail.com
- Phone Number: **7507303673**
- Bid Amount: **\$4000**
- Bid Description: **qwertyuio**
- Additional Notes: **zxcvbnm,**
- Expiry Date: **11/12/2024**
- [Download](#)

The background of the page features a dark theme with various icons related to business and technology.

Help Desk :

The screenshot shows a "Contact Us" form on the left and "Other Details" information on the right.

Contact Us

- Full Name:
- Email Address:
- Your Message:

Send Message

Other Details

- Address: Walchand College of Engineering, Sangli-416 416
- Phone: +91 12389-45670
- Email: support.tenderbus@gmail.com

Business Hours: Mon - Fri: 9 AM - 6 PM

8. Conclusion

Project Achievements:

The project successfully implemented an automated and transparent tender management system that streamlines the entire tendering process. Key achievements include reducing manual work, ensuring secure bid submissions, providing real-time notifications, and enhancing transparency through audit trails. These features have made the tender process more efficient, cost-effective, and accessible for all stakeholders.

Limitations:

While the system meets the core requirements, it currently lacks advanced analytics features and may face challenges in handling highly complex vendor management scenarios. Additionally, further scalability improvements may be needed to support larger volumes of data and more intricate tender workflows.

Lessons Learned:

Integrating Security Protocols: Implementing robust security measures to protect sensitive bid data was challenging but essential, reinforcing the importance of secure data management.

Optimizing System Performance: Balancing responsiveness and performance taught valuable skills in resource management and system efficiency.

Project Management within Timeline: Successfully completing the entire project within the given timeline highlighted the importance of effective planning, time management, and prioritization of tasks to meet deadlines.

Team Collaboration: Working with a team on this project emphasized the value of clear communication, task delegation, and collaboration, which were crucial for synchronizing efforts and ensuring a smooth development process.

Overall Impact:

This project has made a substantial contribution to improving the efficiency, security, and fairness of the tendering process. By automating key steps and ensuring transparency, it offers a more streamlined and secure alternative to traditional methods, benefiting both administrators and bidders.

9. References

- 1.<https://blog.procureport.com/4-things-you-need-to-know-about-tender-software/>
- 2.<https://etenders.gov.in/eprocure/app>
- 3.<https://typeset.io/pdf/tender-management-system-184dj13v.pdf>
- 4.[Welcome to eProcurement - Tender Management System - Govt of Andhra Pradesh \(apeprocurement.gov.in\)](https://apeprocurement.gov.in)
- 5.[Tender Management Explained \(responsive.io\)](https://responsive.io)
- 6.[Tenders in Maharashtra | eTender Maharashtra](https://etender.maharashtra.gov.in)

10. Scholarly contribution

Date: 13/11/2024

To,
Chandrakant Hulwan,
Municipal corporator,
Sangli-Miraj-Kupwad.

Subject – Request for approval of ‘Smart Tender Management System’ project.

Respected Sir/Ma'am,

We are writing to seek approval for our project, **TENDERbus- The Smart Tender Management System**. This platform is designed to modernize and streamline the tendering process for government projects, enhancing transparency, efficiency, and fairness. By automating bid evaluations, providing secure user access, and offering real-time notifications, the system aims to make the tendering process more accessible and compliant with government standards.

We believe this project has the potential to reduce paperwork, minimize human error, and improve accountability within the tendering process. With your support, we are confident that we can make this platform a valuable asset for government operations, contributing to better service delivery and optimized resource allocation.

Thank you for considering our proposal. We look forward to a positive response and the opportunity to bring this project to life for the benefit of the government and the community.

Sincerely,
Team : INIT SQUAD

Signature