Nandi Institute of Management & Science

Department of Computer Science

BCA-VI Semester – Project Synopsis Format

1	Name of the project	Decentralised E-voting
2	Objective/vision	• Transparency and Security • Efficient Election Management • Privacy and Integrity
3	Users	The users of the decentralized e-voting system include voters, election administrators, and observers.
4	Functional Requirements	• Generate unique voter IDs for secure registration. • Allow secure voting, ensuring each voter votes once. • Store votes immutably in a block-chain. • Enable admins to start, stop, and declare election results. • Provide real-time election results. • Admin dashboard to view statistics and voter data. • Validate votes to prevent duplicates. • Offer a block-chain explorer to verify vote integrity.

5	Non-functional Requirements	• Scalability: Handle large voter volumes efficiently. • Security: Ensure encryption and protection against tampering. • Availability: Be accessible 24/7, especially during elections. • Usability: Provide an easy-to-use interface for users. • Performance: Process and display results in real-time. • Reliability: Ensure continuous operation without failures. • Maintainability: Be easy to update and maintain. • Compliance: Adhere to legal and regulatory standards.
6	Optional features	• Mobile compatibility. • Vote confirmation messages. • Blockchain analytics.
7	user interface Priorities	• Simplicity: Ensure an intuitive and easy-to-navigate design. • Accessibility: Make the interface accessible to all users, including those with disabilities. • Responsiveness: Optimize the UI for desktop, tablet, and mobile devices. • Real-Time Feedback: Provide instant updates on vote submission and election status.

		- Security: Display clear warnings for invalid actions or potential security risks. - Clear Call-to-Action: Highlight key actions like voting, viewing results, and generating IDs. - Consistent Design: Maintain a cohesive visual style across all pages and sections. - Error Handling: Provide user-friendly error messages and guidance for troubleshooting.
8	Report	- Blockchain-based security: Ensures secure, transparent, and immutable voting. - Efficient management: Allows admins to manage elections and view real-time results.
9	Team Size	group - G Shreya - T Firdous
10	Technologies to be used	Flask (Python), Tailwind CSS, Javascript
11	Tools to be used	- Visual Studio code
12	Final deliverable must include	- Source Code & Documentation - Testing & Deployment - Security & Optional Features