Uni cever

Empowering Trust Through
UNICEVER - Your OpenSource Solution for Secure
Certificate Verification





Rajarshi Samaddar - 24400120030 Prateek Kumar - 24400120009 Md Danish Raja - 24400120012 Soumayadip Saha - 24400120037

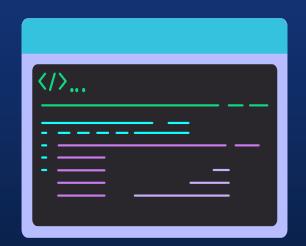
Table of Contents

01	Overview	02	Objective
03	Domain	04	Tech Stack
05	HLD Architecture	06	Login / Sign-up
07	Create Certification Events	08	Manage Certification Events
09	Certificate Issuance	10	Future Scopes
11	Benefits and Outcomes	12	Conclusion



Project Overview

- > Trustworthy Certificates: UNICEVER delivers secure, authentic certificates for educational institutions and organizations.
- ➤ Effortless Verification: Unique codes embedded in certificates enable easy online verification, ensuring integrity.
- > Open-Source Innovation: Built on opensource principles, UNICEVER combines collaboration and security for a new standard in certificate validation.





Project Objective

- Enhance Authenticity: Develop an open-source tool that ensures the legitimacy of digital certificates, addressing the challenge of forgery and counterfeiting.
- **Streamline Verification:** Create an automated verification process using unique codes, simplifying certificate validation for recipients and organizations.
- **Promote Transparency:** Foster transparency and trust by providing organizations with a secure, open platform for issuing and verifying credentials.

Project Domain

- Secure Verification: Developing secure methods to authenticate digital certificates, guarding against fraud and tampering.
- Efficient Validation: Creating efficient automated processes for certifying the legitimacy of credentials.
- **Trust Enhancement:** Promoting credibility and transparency in digital certifications for increased trust among issuers and recipients.

Tech Stack

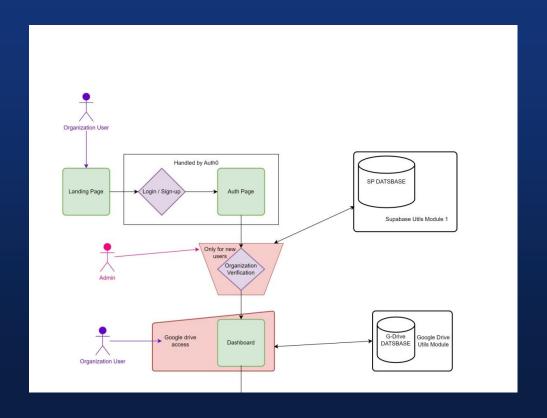
Next. js **Redux Toolkit PostgreSQL TypeScript Material UI AuthO Vercel and GitHub**

HLD Architecture

Login / Sign-up Dashboard Create event / course Manage event / course



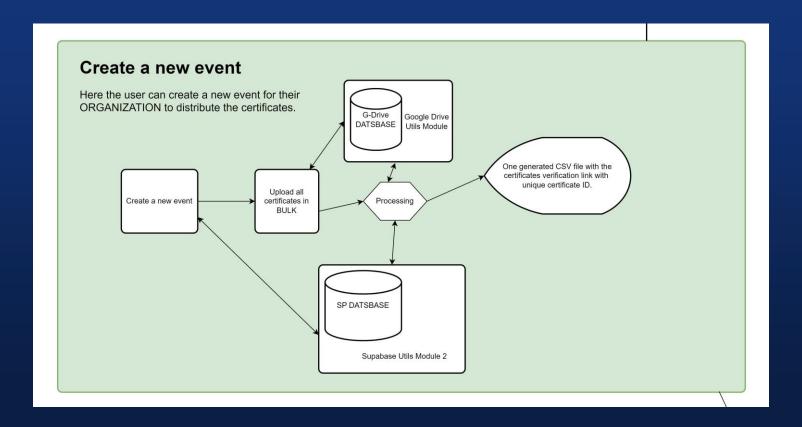
Login or Sign-up





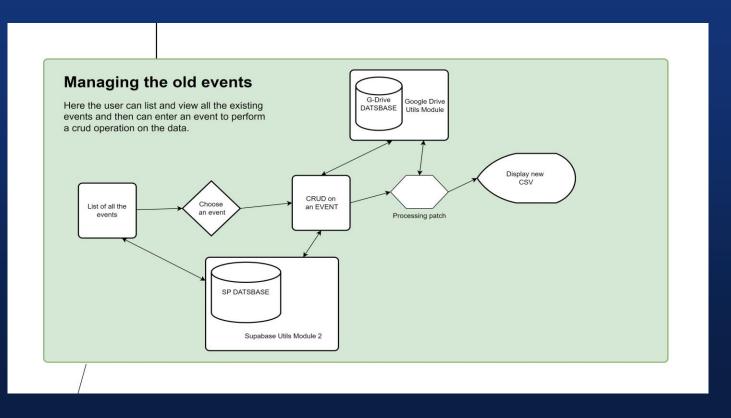


Create Certification Events





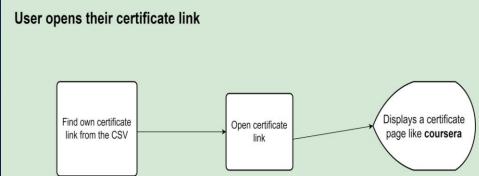
Manage Certification Events





Certificate Issuance and Access

- Effortless Issuance: Generate certificates swiftly, providing a CSV file with unique links for hassle-free distribution.
- Secure Access: Grant recipients secure access to digital certificates via unique links, ensuring reliable validation.
- **User Empowerment:** Equip holders with control over their credentials, enabling efficient management, sharing, and utilization.





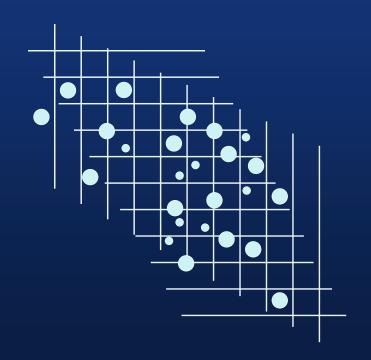
Future Scope

- Blockchain Integration: We can explore blockchain for heightened certificate security and immutability.
- Al Verification: Implement Al to automate precise organization validation.
- API Integration: Develop APIs for effortless system integration with diverse platforms.



Benefits and Outcomes

- **Credibility Boost:** Ensure authentic certificates for enhanced trust.
- Efficiency Gains: Save time and costs through automated processes.
- Fraud Prevention: Combat fraud with secure validation measures.
- **User Convenience:** Elevate user experience through accessible, shareable credentials.





Conclusion

- Project Impact: `UNICEVER` stands as a groundbreaking solution, enhancing certificate credibility through streamlined verification and secure distribution. It redefines the certification landscape, fostering trust between institutions and recipients.
- Future Assurance: With its focus on security, efficiency, and transparency, `UNICEVER` reshapes certificate authentication. As it evolves, this project promises to set new authenticity standards, revolutionizing digital credentials for the future.















