



# Empowering Trust Through **UNICEVER** - Your Open-Source Solution for Secure Certificate Verification



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# 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 open-source 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

TypeScript

Material UI

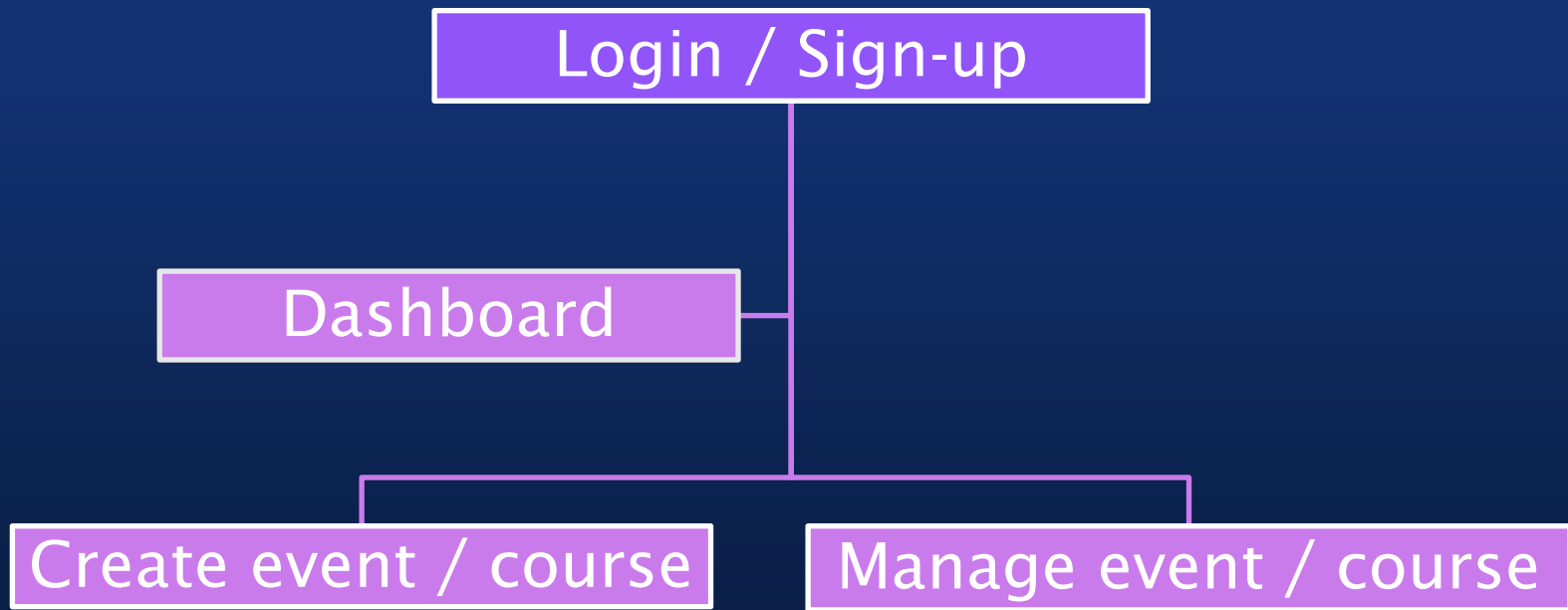
Redux Toolkit

PostgreSQL

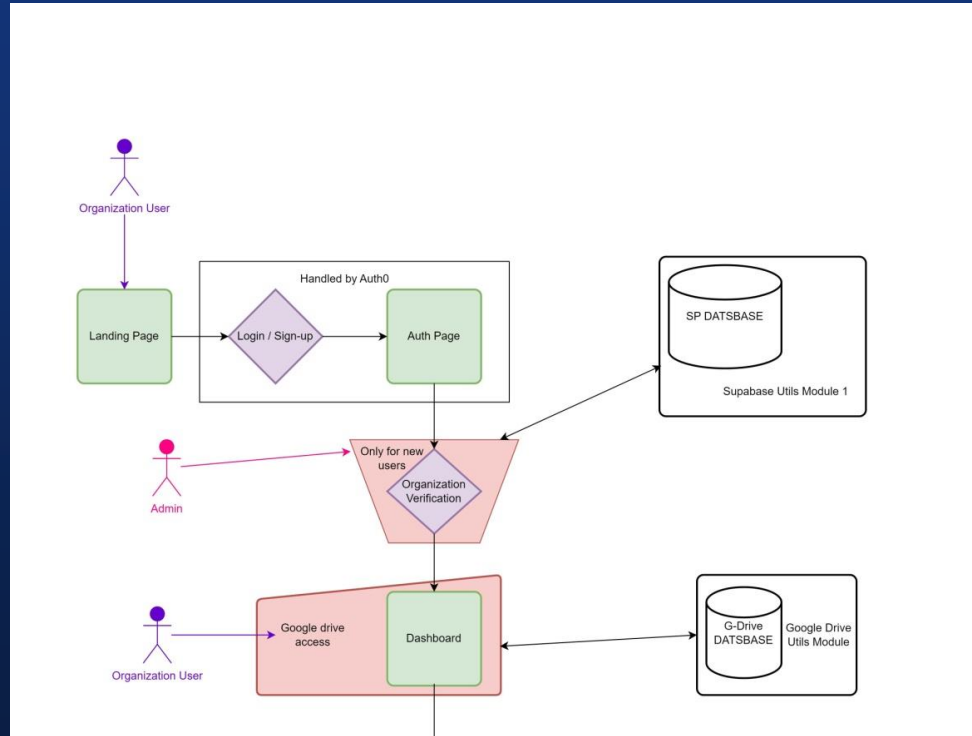
Auth0

Vercel and GitHub

# HLD Architecture



# Login or Sign-up

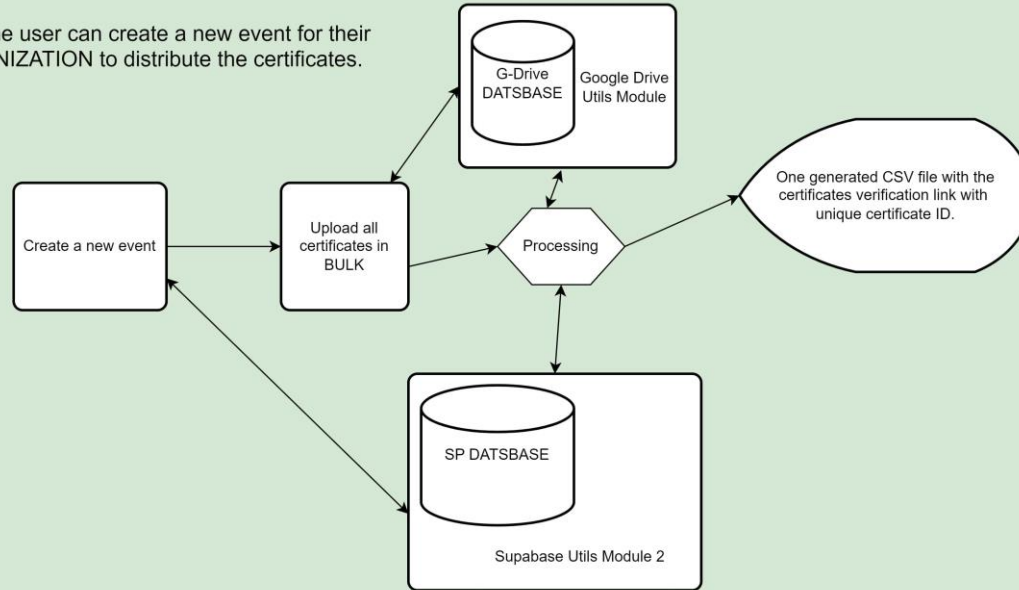




# Create Certification Events

## Create a new event

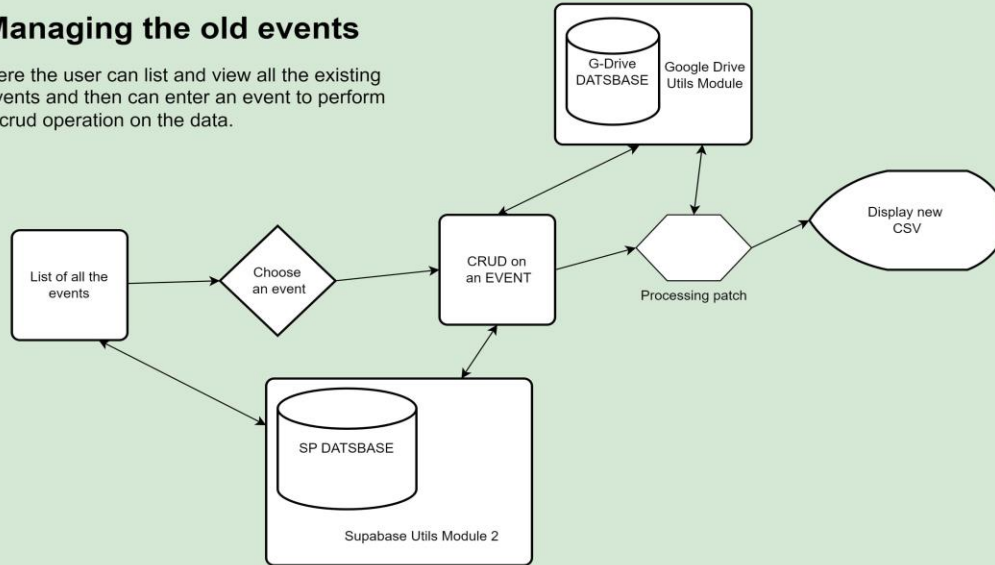
Here the user can create a new event for their ORGANIZATION to distribute the certificates.



# Manage Certification Events

## Managing the old events

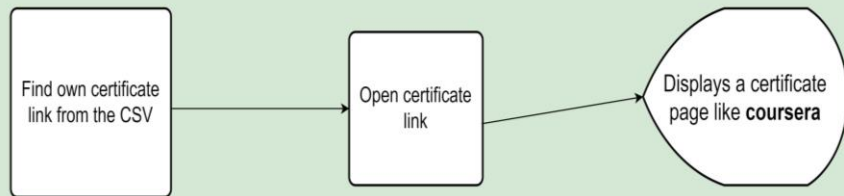
Here the user can list and view all the existing events and then can enter an event to perform a crud operation on the data.



# 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.

User opens their certificate link



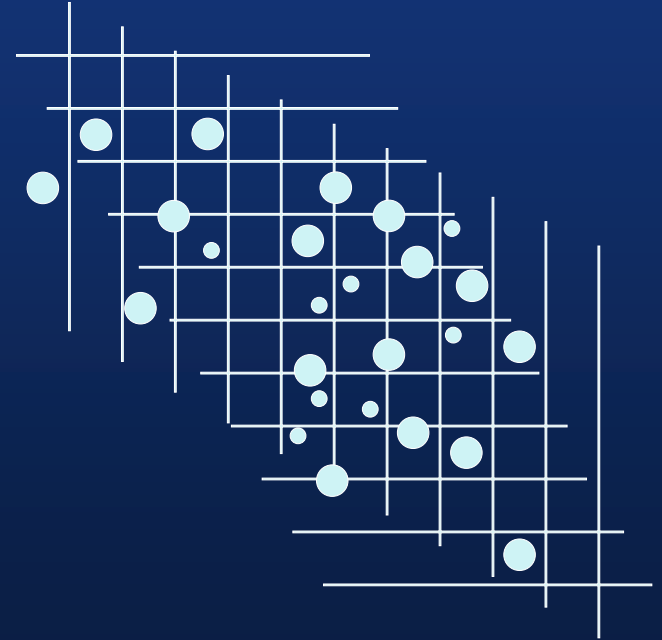
# Future Scope

- Blockchain Integration: We can explore blockchain for heightened certificate security and immutability.
- AI Verification: Implement AI 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.



# Thank You!