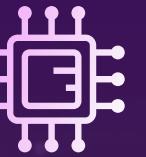


# NEURONS





# PROBLEM STATEMENT

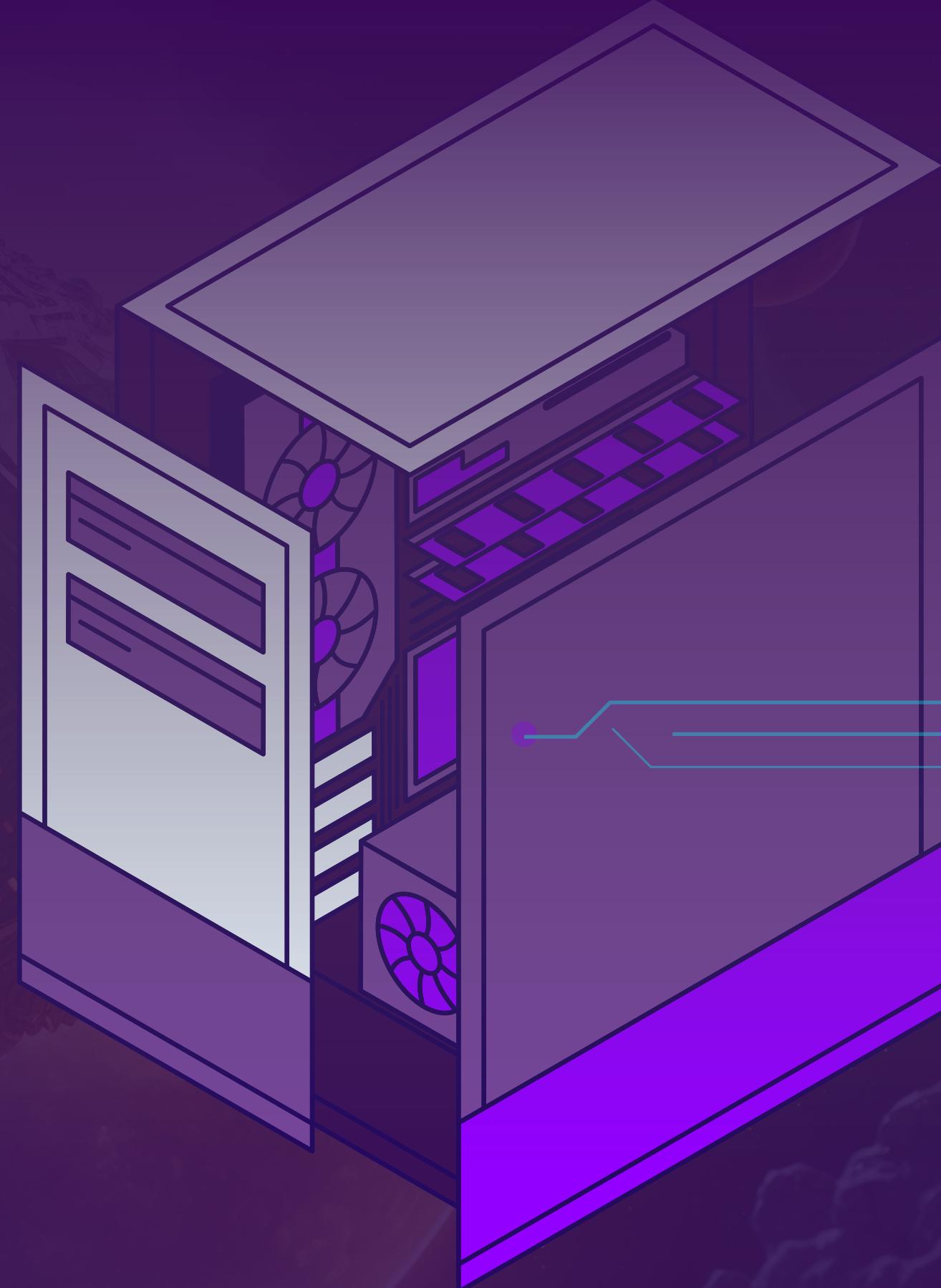
Applications are facing growing security threats from unauthorized access. Users need a secure, seamless way to authenticate across devices, but many current solutions depend on external APIs that introduce vulnerabilities and lack customizable options to meet different needs.





# OUR SOLUTION

We propose building a custom authentication service from scratch with cross-platform compatibility for web, mobile, and desktop apps. It will offer configurable security options, including fingerprint authentication, and feature a dashboard for real-time authentication analytics, ensuring robust protection against vulnerabilities.





# UNIQUE VALUE

Our solution enhances security by eliminating reliance on external APIs. It uses bcrypt for password hashing, JWT for secure sessions, and HMAC-SHA-256 for data integrity. We'll also offer federated login for added convenience and flexibility.

# SYSTEM DESIGN

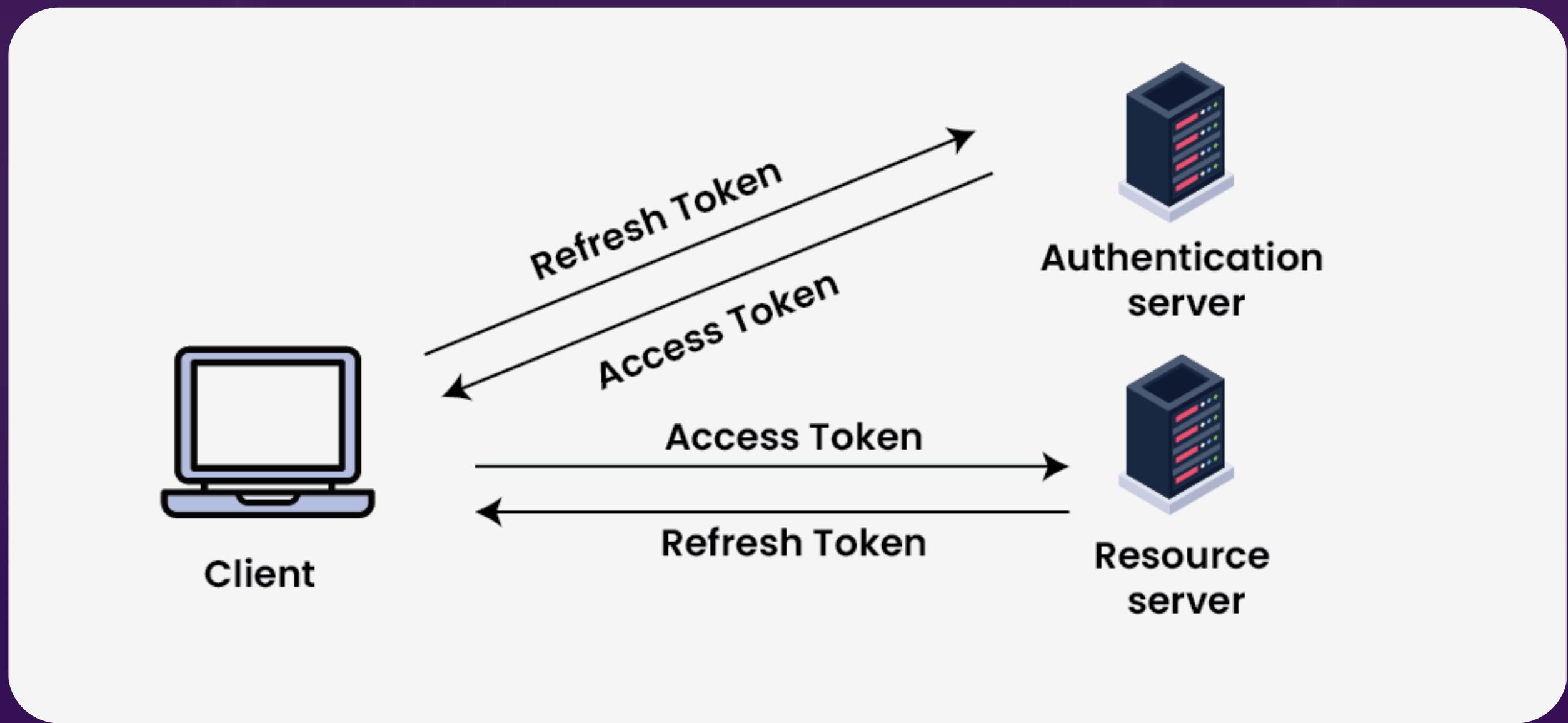


Fig 1.1 Low -Level System Design

# SYSTEM DESIGN

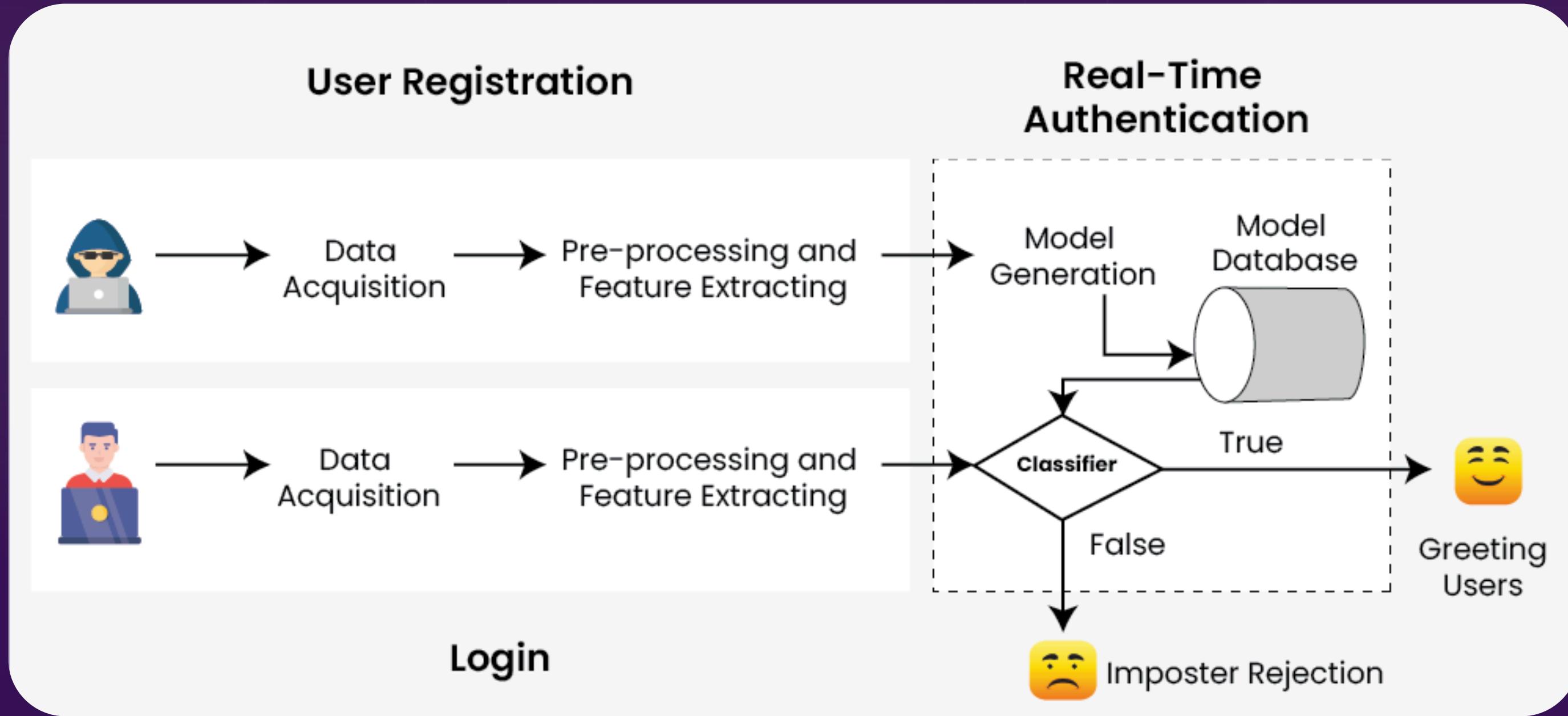


Fig 1. 2 System Design

# TECHNICAL FEASIBILITY

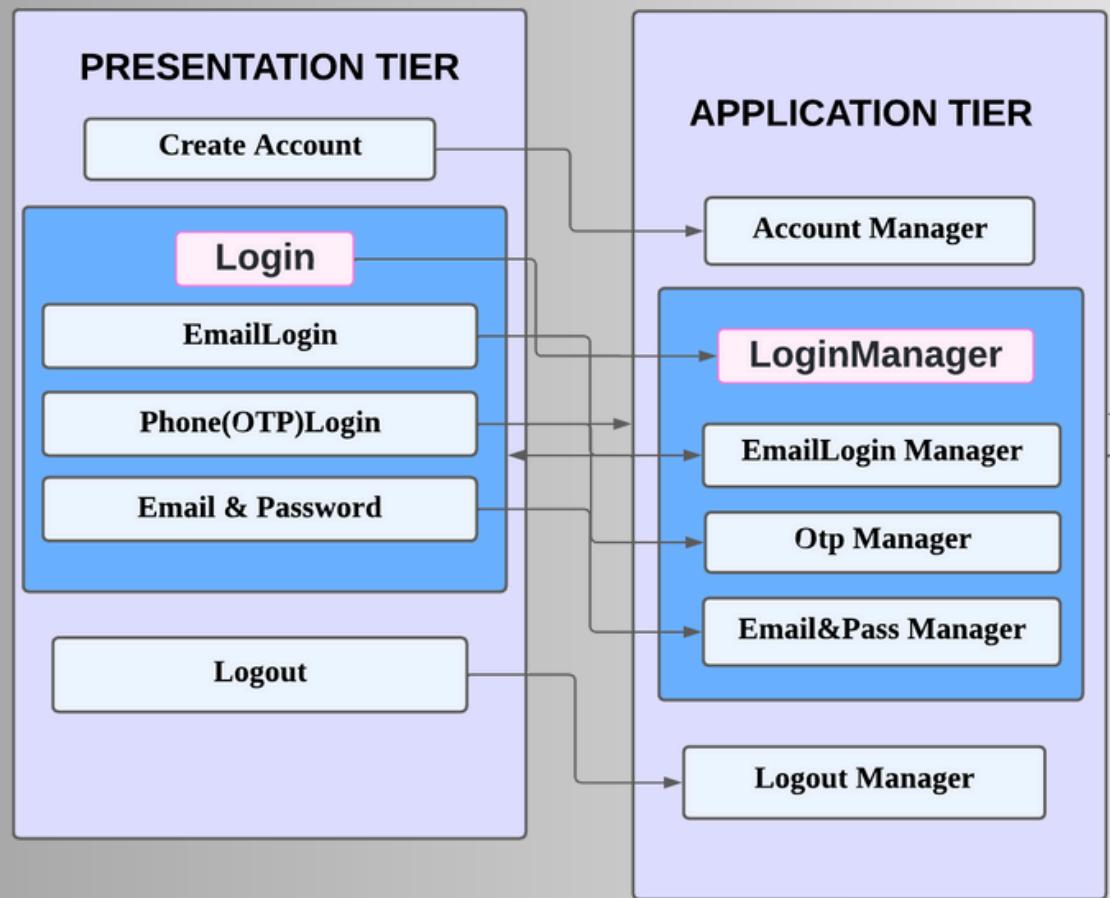


Fig 1.3 3-Tier Architecture

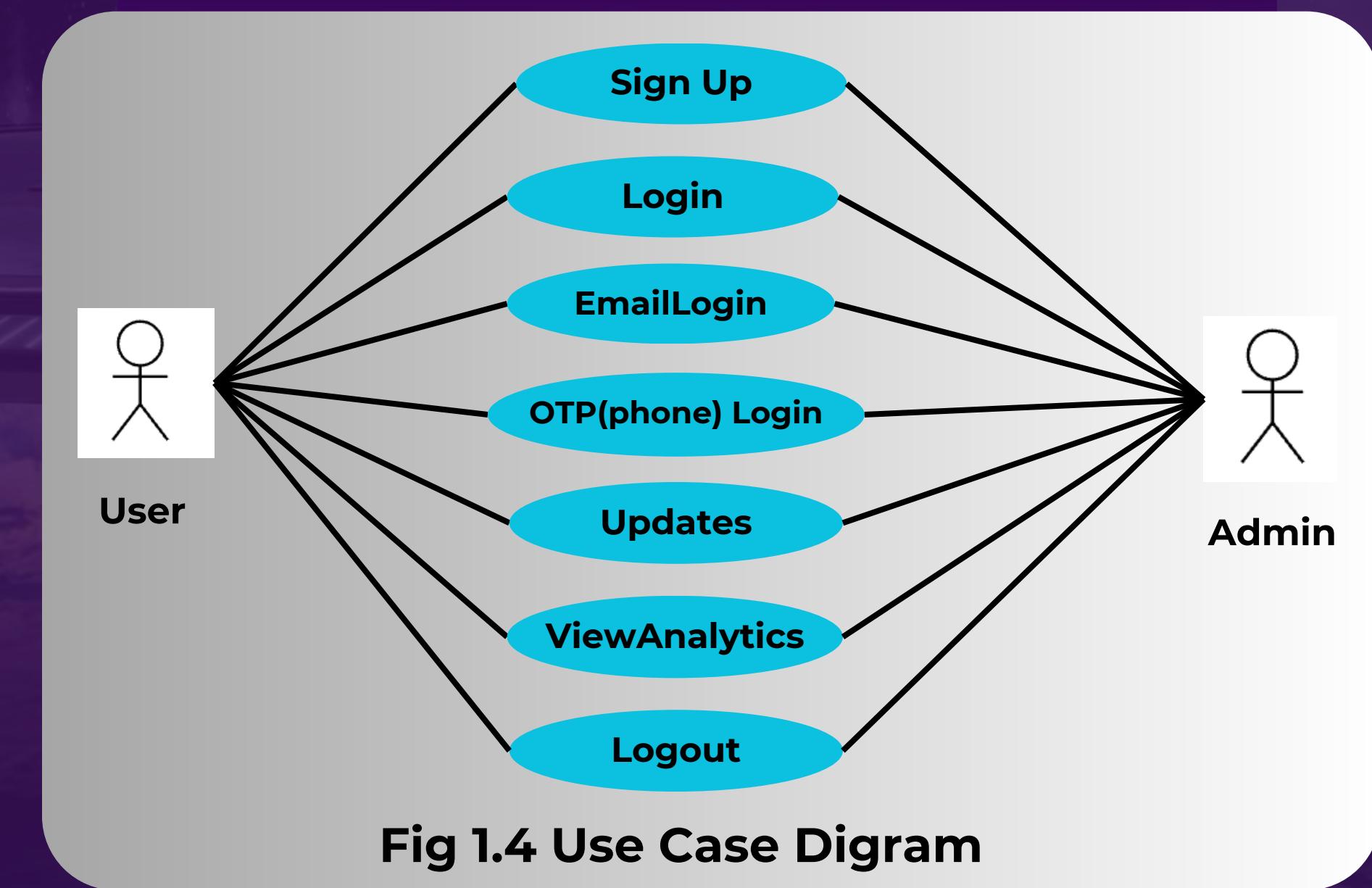
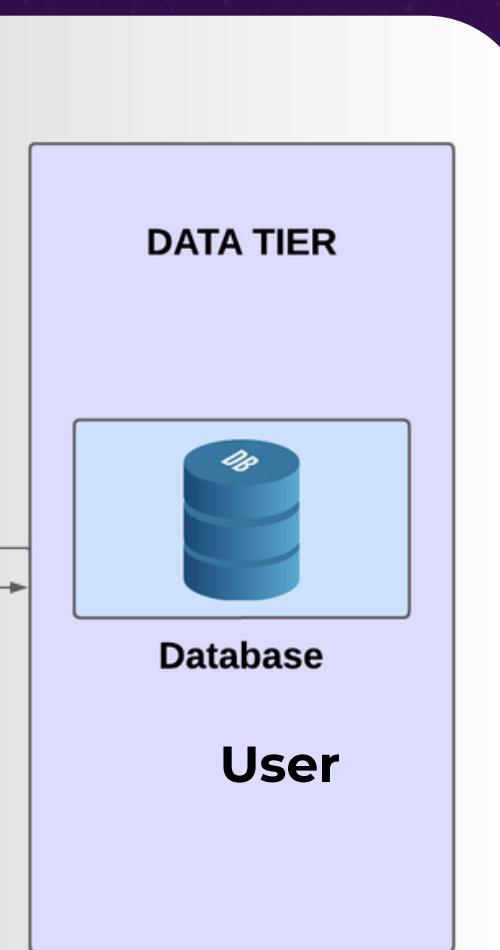
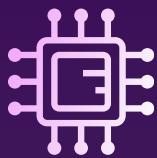


Fig 1.4 Use Case Diagram





# IMPACTS

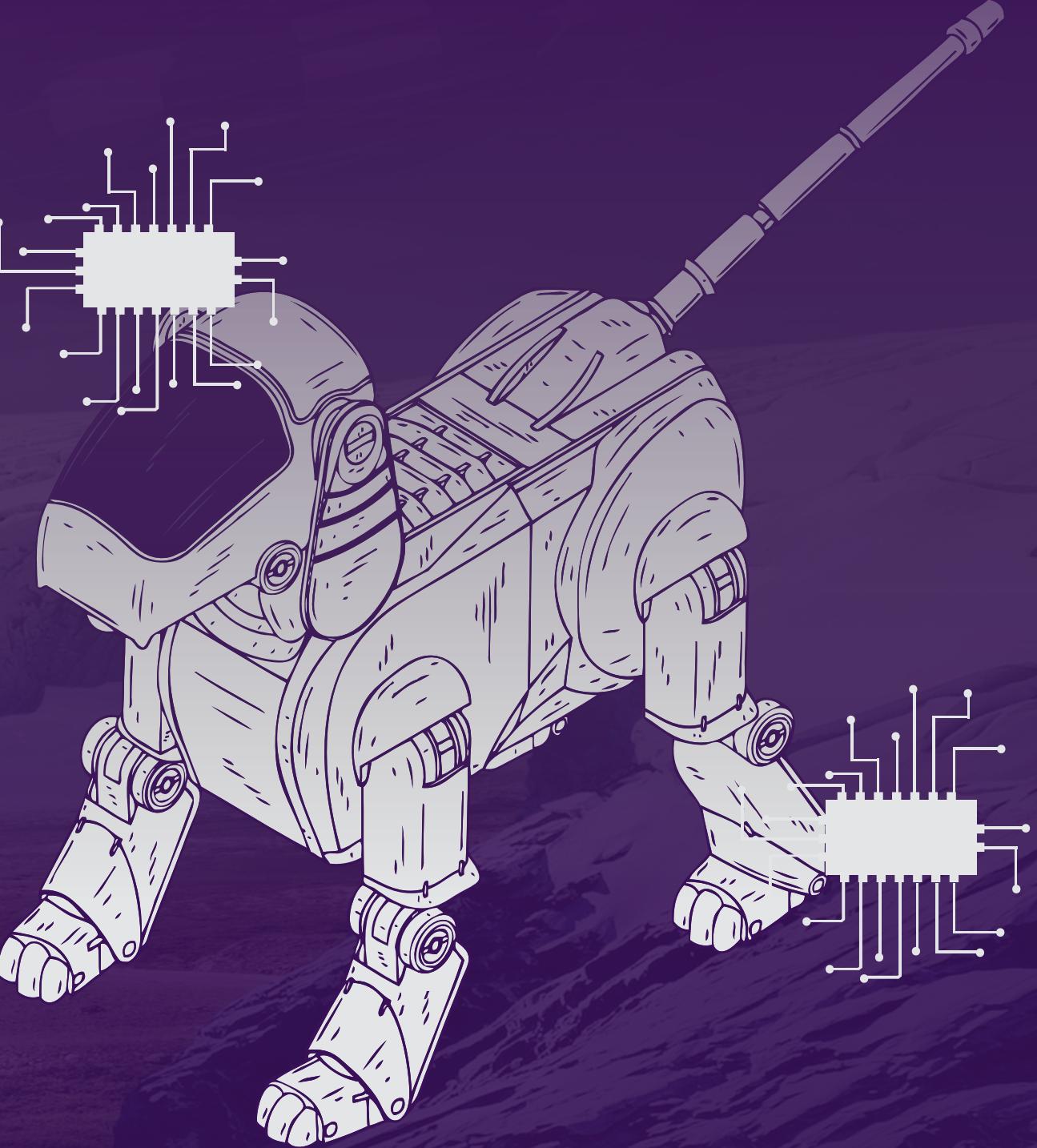
Impact is the significant effect of building a custom authentication system on security, customization, user experience, and competitive advantage.

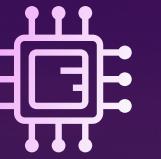




# FUTURE GOALS

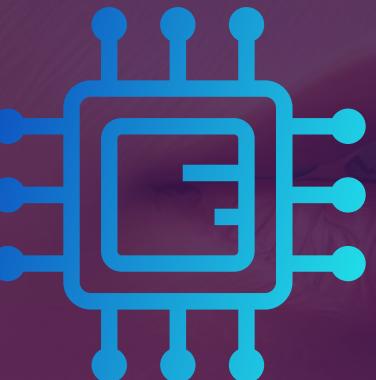
- Enhanced Security Features
- Cross-Platform Expansion
- User Feedback Mechanism
- Comprehensive Documentation and Support
- Integration with Emerging Technologies





# CONCLUSION

Our authentication system is meticulously designed to be secure, scalable, and user-friendly. By developing this system from scratch, we provide a unique and robust solution to address modern authentication challenges effectively.





# THANK YOU!