Project Phoenix: User Authentication Specification v2.0

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Introduction

This document updates the v1.0 spec, adding support for Google OAuth 2.0 login alongside existing email/password functionality.

Requirements

Existing Requirements

- All requirements from v1.0 remain in effect.

New Requirements

1. **Google OAuth Integration**

   - Users must be able to register/login using their Google account via OAuth 2.0.
   - The system must securely handle OAuth tokens and user profile information retrieval from Google.
   - Users who previously registered with email/password should be able to link their Google account.
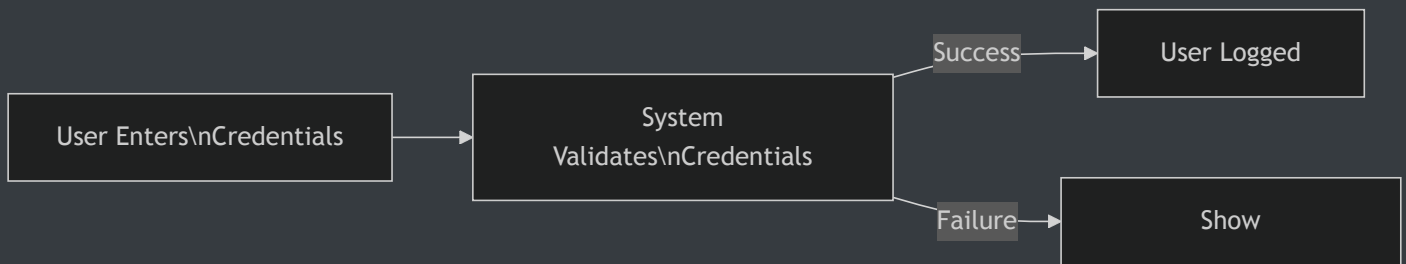
2. **Profile Management**

   - Users who register via Google OAuth should have a profile automatically created using available Google profile data.

   - The system must handle potential conflicts if a Google email matches an existing account email.
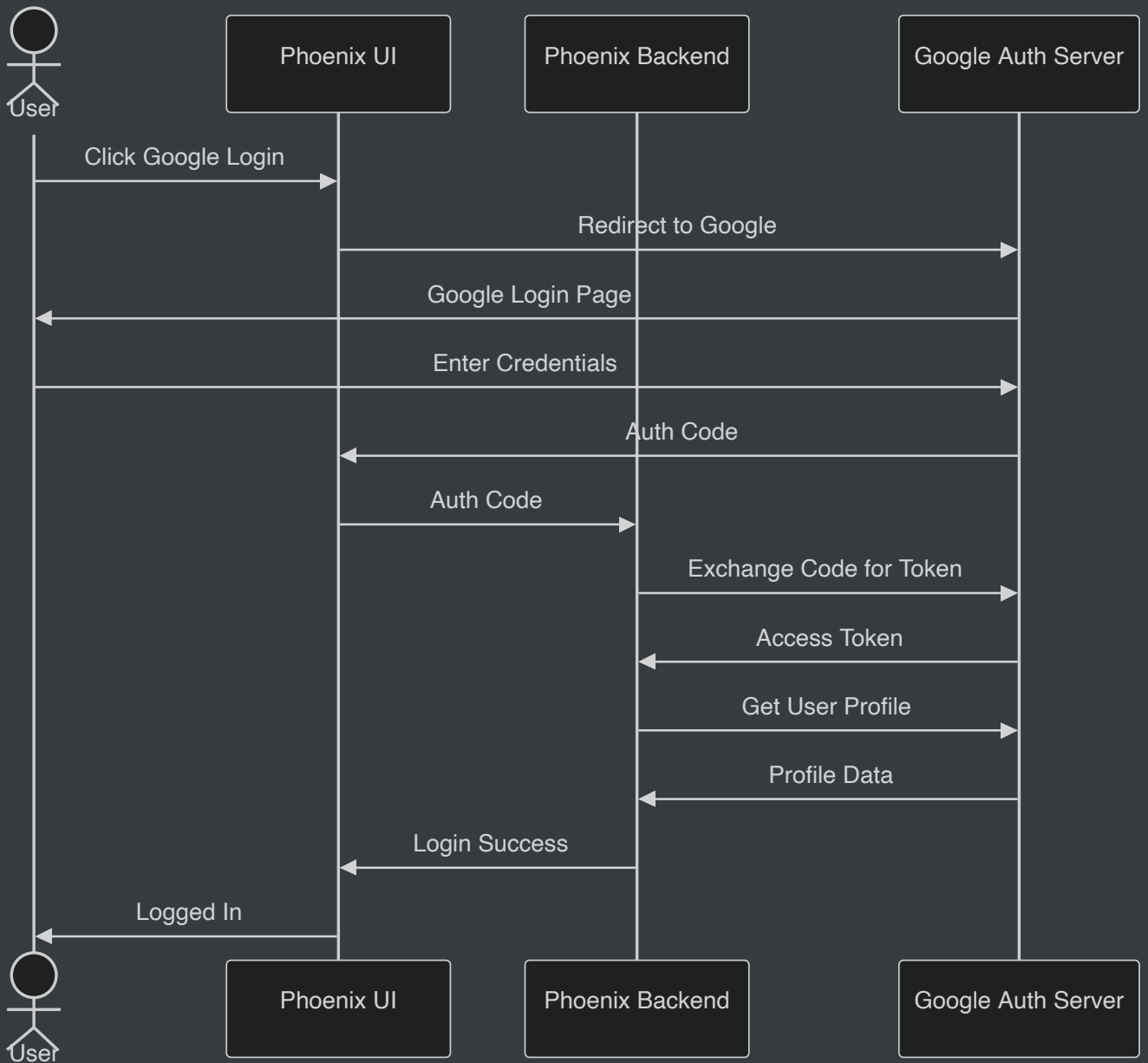
Authentication Flows

Email/Password Authentication

Figure 1: Basic Login Flow (unchanged from v1.0)

Google OAuth Authentication

Figure 2: Google OAuth Login Sequence

Out of Scope

The following items are explicitly out of scope for v2.0:

- Other OAuth providers
- Two-factor authentication (2FA)

Next Steps

Implementation will begin once this specification is approved by all stakeholders.

Document Approvals:

Role	Name	Date	Signature
Product Manager			
Engineering Lead			
Security Lead			