

Citizen Developer Posting Board

Technical Documentation

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1. Introduction

The Citizen Developer Posting Board is a web application that connects teams with development needs to citizen developers who can implement solutions. This platform facilitates idea submission, skill matching, and project tracking through a comprehensive workflow system.

Key Features:

- Idea submission and browsing
- Skill-based matching
- Dual approval workflow for claims
- Team-based organization
- Progress tracking with sub-status system
- Monetary and non-monetary bounty support
- Comprehensive notification system

2. System Architecture

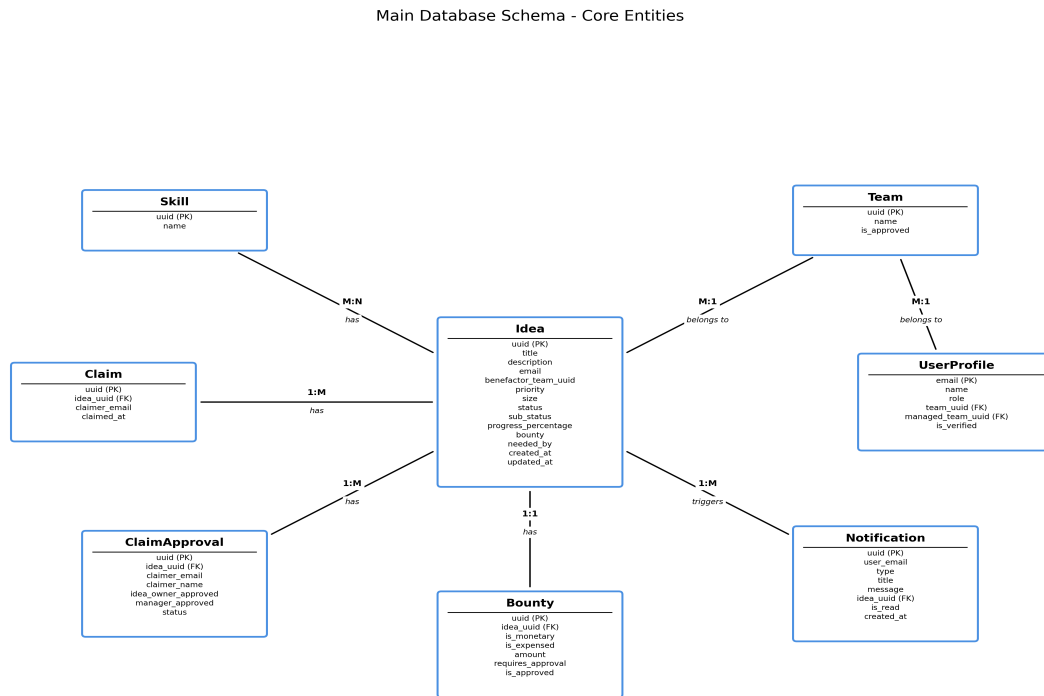
Technology Stack

Component	Technology
Backend	Python Flask
Database	SQLite with SQLAlchemy ORM
Frontend	Jinja2 Templates + Vanilla JavaScript
Authentication	Email-based verification (passwordless)
Session Management	Flask-Session (filesystem storage)
Deployment	Docker with Gunicorn

3. Database Schema

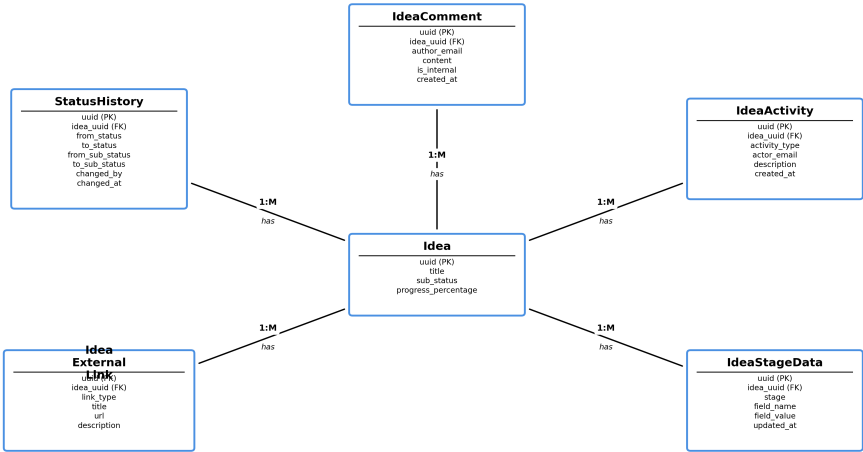
The application uses UUID-based primary keys for all entities:

Core Database Schema



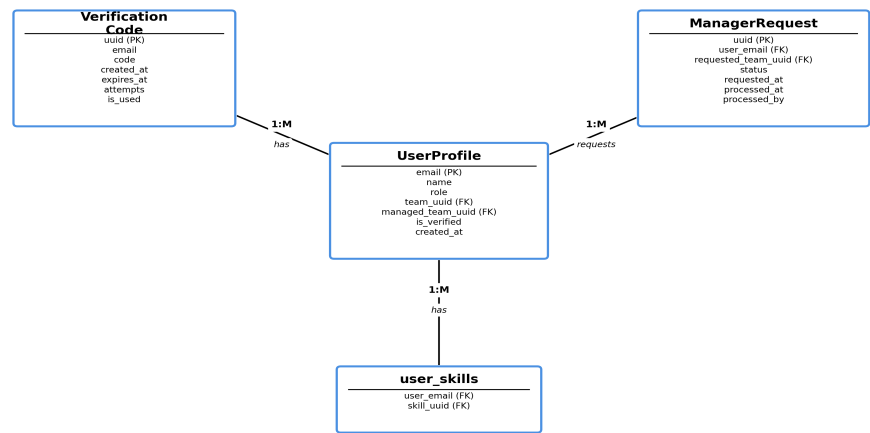
SDLC Tracking Schema

SDLC Tracking Schema



Authentication Schema

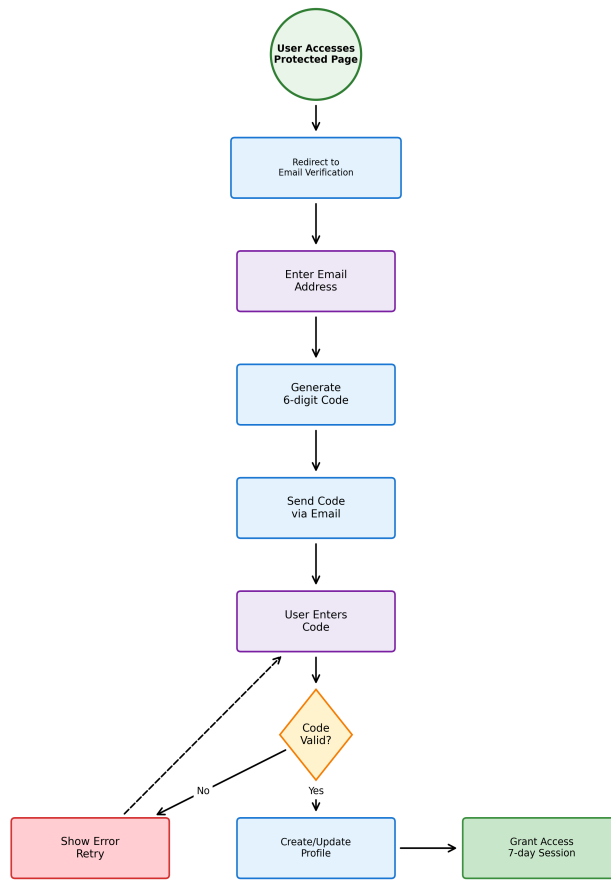
Authentication & User Management Schema



4. Key Workflows

4.1 Authentication Workflow

Email-Based Authentication Workflow



4.2 Claim Approval Workflow

Claim Approval Workflow (Dual Approval)

