

Project Requirements Document(PRD)

Title: SecureBlog

Overview:

SecureBlog is a beginner-friendly web app for sharing blog posts, designed with security and role-based access in mind. Users can register, log in, create posts, comment, and manage their own content. The app enforces permissions using user roles (Admin, Author, Moderator, Reader, Banned) to keep the platform safe and organized.

Goals & Objectives:

- Allow users to share and read blog posts securely.
- Enable role-based permissions for posting, editing, commenting, and moderation.
- Prevent banned users from posting or commenting.
- Provide a clean, simple UI for easy navigation and use.

Target User

- Age group: 16+
- Students, personal bloggers, or anyone looking to post simple content
- Community members who want a safe, organized blogging space
- Users familiar with basic web apps (no tech expertise required)

Features

Feature	Description	Priority
Authentication	Users can create accounts, log in and logout securely	High
Role Management	Assign roles: Admin, Author, Moderator, Reader, Banned	High
Create Post	Only Admins/Authors can create new posts	High
Edit / Delete Post	Only post authors can edit/delete their own posts	High
Comment	Readers, Authors, Admins, Moderators can comment (not Banned)	High

Feature	Description	Priority
Profile Page	Users see their posts, comments, and role	Medium

Functional Requirements

User Authentication

- Register, login, logout using Django's built-in system

Role-Based Access

- Roles stored in user profile
- Permissions enforced in views

Posts

- Title, content, author, created date, published status
- Only allowed roles can create/edit/delete.

Comment

- Linked to posts and users.
- Only allowed roles can comment.
- Moderators/Admins can delete any comment.

Profile

- Shows user's posts, comments, and role

Database

- SQLite for development.
- Models: User, Profile, Post, Comment, Category.

UI/UX Requirements

- Clean, responsive design using HTML and CSS.

- Main screen:
 - Home (Post list)
 - Post Details(with comments)
 - Create/ Edit Post
 - Profile /Dashboard
 - Register/Login

Tech Stack

- Frontend: HTML, Tailwind, CSS
- Backend: Django, SQLite
- Role Management: Custom Profile model

Timeline

Task	Deadline
Requirement Finalization	Day 1
UI Wireframes	Day 2
Build Post & Comment View	Day 3
Add Role Management	Day 4
Testing	Day 5
Final Touches & Report	Day 6

Success Criteria

- Users can register, log in, and log out.
- Role-based permissions work as described.
- At least 5 posts and 5 comments can be created and managed.
- Banned users cannot post or comment.
- Responsive layout, no major bugs during testing.

Deliverables

- Working app (deployed - Vercel/Python everywhere)

- Code (GitHub)
- Short demo video (2-3 minutes)
- Final Report (PDF with screenshots and features)

Result A secure, beginner-friendly blogging platform with clear role-based access, ready for learning or small community use.