Project Requirement Document (PRD)

Project Title: Dashboard WebApp

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Overview:

This project is a full-stack web application designed for secure user registration, login, and task dashboard management. It uses React for the frontend, Django for the backend, and custom CSS for styling — without using any third-party UI libraries.

🎯 Objectives:

Allow users to register and log in securely.

Display a user-specific dashboard upon login.

Show pending tasks, updates, notifications, and user profile info.

Maintain clean UI using handcrafted CSS.

Implement RESTful communication between frontend and backend.

🧩 Features:

1. User Registration

Fields: Username, Email, Password, Confirm Password

Validations: Format checks, password match

2. User Login

Fields: Username, Password session-based

On success, redirect to dashboard

3. Dashboard (after login)

Pending Tasks section: List with status

Updates section: System messages

Notifications: Alerts and reminders

User Profile: Editable fields like username/email

🛠 Tech Stack:

Frontend:

React.js

CSS (plain, no frameworks)

Axios (for HTTP requests)

React Router DOM (for page navigation)

Backend:

Django

Django REST Framework (DRF)

JWT or session-based authentication

🗂️ API Endpoints:

Method   Endpoint Description

POST /api/register/   Register a new user

POST /api/login/ Log in and return token

GET /api/dashboard/ Get all dashboard data

GET /api/profile/   Get logged-in user's profile

PUT /api/profile/update/ Update user's profile

🖥️ Frontend Pages:

Register Page

Login Page

Dashboard Page

Sections: Pending Tasks, Updates, Notifications, Profile

All styled using custom CSS

🔐 Security:

Passwords stored with Django's default password hashing

Token-based authentication via HTTP-only cookies or headers

CSRF protection and form validation

Clean and secure form inputs

🧪 Testing Plan:

Backend API testing using Postman

Frontend form testing manually (React form validation)

End-to-end testing by simulating user actions

Screenshots: