TECHTONIC Full Features & Progress Report

1. Existing Application Features

- Login only (no self-registration)
- Two roles: Admin & Student
- · Force-change password on first login (Student)
- Password reset after login
- Admin override to reset any user's password
- Admin: Create & delete problems
- Admin: Generate Knowledge Pills & prompts via GPT
- · Student: View knowledge pills & problem PDF
- Student: Submit/update solution (max 3 attempts)
- · Student: Evaluate via GPT & download feedback PDF
- Student: View list of attempted problems with scores
- Student: Re-download past feedback PDFs
- Logout

2. Additional Desired Features & Flows

- Role & User Management: Add 'Teacher' role; force password change for teachers and students on first login; users can update their password; admin can reset any user's password.
- Course & Group Management: Admin can create courses; create groups within courses; import students via CSV (htno, name, password) into groups; add teachers and assign them to groups.
- Admin Reporting: View course-wise problems created by teachers; see student performance per problem; access/download any student solution.
- **Teacher Capabilities**: Create/edit problems for courses they're assigned; generate knowledge pills, prompts, and full solutions via GPT; start/stop problem windows; assign problems to groups; view/download student submissions; share solutions.
- Student Enhancements: Submit/update solutions; course-wise performance dashboards; access problem & solution PDFs; view latest feedback and overall performance per course.
- Problem Requirements: Every problem must include a GPT-generated solution during creation by teacher.

3. Progress & Pending Features

Feature	Status	Notes
Login only (no self-registration)		
Two roles: Admin & Student		
Force-change password on first login (student)		
Password reset after login		
Admin override to reset any user's password		
Create & delete problems		
Generate Knowledge Pills & prompts via GPT		
Create courses		Pending: form & backend
Create groups		Pending: form & backend
Import students via CSV into groups		Pending: upload & parsing
Add teacher accounts & assign to group		Pending: UI & logic

View course-wise problems & student performance ■		Pending: dashboard
Teacher role & login		Pending: role logic
Teacher create/edit problems		Pending: reuse flows
Teacher start/stop problems		Pending: action handlers
Assign problems to groups		Pending: selection UI
Teacher view/download submissions		Pending: listing page
Teacher generate/share solution via GPT		Pending: endpoint
Course-wise student performance report		Pending: per-course view