

Project: Capstone Project Management System

Backlog Date: February 24, 2026

Tech Context: Django backend + Vue.js frontend (SPA), role-based access & routing

1. Overall Application Structure

- **Landing / Home Page (Role-Based Routing)**
 - Single entry point after login
 - Redirect / show different dashboard content & actions based on user role (determined via email/login or profile)
 - Recommendation: Research & adopt common patterns (e.g., check role on auth callback → route to appropriate dashboard; hide/show menu items or entire sections via Vue conditional rendering + route guards)
- **Authentication & Role Detection**
 - Use email/domain or explicit role field to classify: Admin (Dr. Anderson), Student, Sponsor
 - Future: Integrate with UA/Bama auth if applicable

2. Admin Role (Dr. Anderson) – Admin Home Page / Dashboard

High-priority admin tools for managing the semester cycle.

- **Project Assignment**
 - Manual assignment interface: Assign students to projects
 - View & verify final assignments
 - (Future consideration: Algorithmic/auto-assignment support, possibly via co-pilot/data integration)
- **Student Rankings Management**
 - View all submitted student rankings/preferences
 - Display options: By student, by project, by preference level (high/medium/low)
 - Basic search/filter functionality (consider Tabulator.js for table views)
- **Email & Notifications**
 - Generic email facility with templates
 - Target audiences: All users, all active students, all active sponsors, specific to sponsors/students

- Launch/send emails (e.g., reminders, assignment notifications)
- **Student Import**
 - CSV import for bulk student loading (leverage Django admin or custom view)
- **Sponsor Management**
 - Update/edit sponsor records (basic CRUD)

3. Student Role – Student Home Page / Dashboard

Focus on one-time (or revisable) preference submission + project discovery.

- **View Available Projects**
 - List/browse project bios/descriptions
 - View attached files/links (PDFs, images, YouTube/Box links, etc.)
- **Submit Project Rankings**
 - Ranking submission form
 - Suggested format: 5 high preference, 5 medium, 5 low + optional comment field (skills/interests description)
 - One primary submission per student per semester
 - Allow resubmissions/edits before deadline (submission disappears/grays out or becomes read-only after cutoff?)
 - Validation: Ensure exactly 15 ranked or flexible with min/max

4. Sponsor Role – Sponsor Home Page / Dashboard

Project submission & limited post-assignment visibility.

- **Submit / View / Edit Projects**
 - Create new project submission form
 - Edit own existing projects
 - Attach files/links to project (images, PDFs, docs; no direct video upload → use links)
 - Students see these attachments before ranking
- **Submit Feedback**
 - Simple text box/area for general feedback (details TBD)
- **View Assigned Students**
 - See list of students assigned to their project(s)
 - Access basic student contact info (name, email, possibly phone if provided)

5. Cross-Cutting / Shared Features

- File/link uploads on projects (sponsor → visible to students)
- One submission per student for rankings (with edit window)
- Role-aware navigation/menu (Vue Router + guards or conditional components)
- Basic search/filter on admin-side rankings view

Prioritization Notes (Suggested Backlog Order)

1. Authentication + role-based landing page/routing
2. Student: Project listing + ranking submission form
3. Admin: View rankings + manual assignment interface
4. Sponsor: Project submission + file/link attachments
5. Admin: Email sending tool + student CSV import
6. Sponsor: View assigned students + feedback box
7. Polish: Search/filter on rankings, resubmission logic, deadline gray-out