Knight Foundation School of Computing and Information Sciences
FLORIDA INTERNATIONAL UNIVERSITY

EMPLORA

COMPUTER SCIENCE
Capstone 2 · Summer 2026

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Problem

• Students often manage applications across emails, spreadsheets, and job portals.
• Important deadlines, interviews, and status updates can be missed.
• Scattered information makes it difficult to measure progress and stay organized.
• Students need one simple system for tracking the full application journey.

Stakeholders & Requirements

• Primary users: college students and early-career job seekers.

• Create an account and securely sign in.

• Add, view, edit, delete, search, and filter applications.

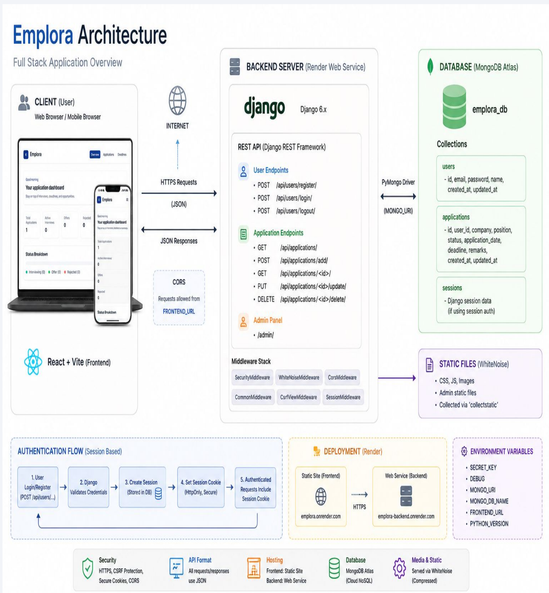
• Track statuses, deadlines, interviews, notes, and salary information.

• Provide a responsive interface and user-specific data.

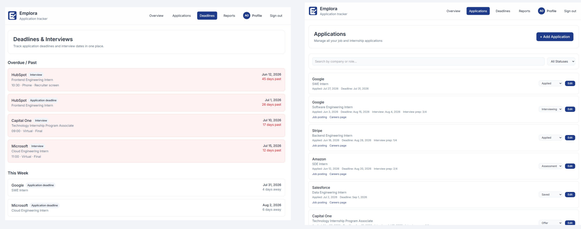
Our Solution

- Emplora centralizes job and internship applications in one web platform.
- A dashboard summarizes totals, interviews, offers, rejections, and recent activity.
- Users can quickly update statuses and manage deadlines without switching tools.
- Frontend and backend field mappings keep the interface simple while preserving structured data.

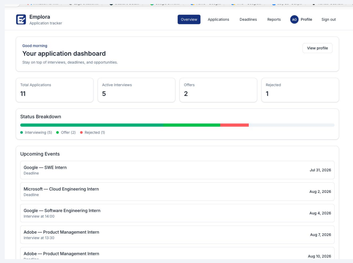
Architecture



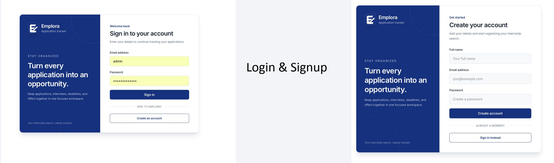
Demo & Screenshots



Applications and Deadlines



Dashboard



Login & Signup

Results & Evaluation

• Implemented the complete login and registration flow.
• Connected the React frontend to real Django API endpoints.
• Verified application create, read, update, delete, search, and status workflows.
• Tested personal-information add, list, and edit flows using mongomock.
• Resolved integration and user-interface issues during end-to-end testing.

Engineering Process (SO6)

SDLC Phases Followed
- Planned the project requirements and designed the system architecture.
- Developed the frontend, backend, and database integration.
- Tested core features and prepared the application for deployment.

Key Requirements & Design Decisions
- Built a secure authentication system for user registration and login.
- Used React for the frontend, Django REST API for the backend, and MongoDB Atlas for data storage.
- Designed a dashboard to track applications, statuses, deadlines, and interview progress.

Testing & Evaluation Highlights
- Verified user authentication and application CRUD operations.
- Tested API communication between the React frontend and Django backend.
- Evaluated database connectivity, security (CORS/CSRF), and overall application functionality.

What's Next

- Implement AI-powered resume feedback and job recommendations.
- Integrate with LinkedIn and major job boards for one-click application tracking.
- Add calendar synchronization and automated deadline reminders.

People & Acknowledgments

Team Leader: *Ousman Bah*
Team Members: *Ousman Bah, Manar Alhamad, Joshua Izquierdo, Mahi Patel, Miranda Sarmiento*
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Mentor: *Giuliana Russi*
Acknowledgments: *Prof. Masoud Sadjadi*

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