# Alumni Project Performance Analytics and Visualization System

## I. Features:

1. User Management

- Admin login/logout
- Role-based access (Admin, Faculty)
- User account management (add/edit/delete users)

2. Alumni & Project Database

- Alumni profile records (name, batch, course, contact, employment status)
- Project records (title, category, year, adviser, members)
- Upload supporting documents

3. Performance Analytics

- Project success indicators (awards, implementation status, impact)
- Alumni employment statistics
- Skills utilization tracking
- Trend analysis per batch/year

4. Data Visualization Dashboard

- Interactive charts (bar, line, pie, heatmap)
- Filter by year, program, project type
- Comparative analysis between batches
- Key Performance Indicators (KPIs)

5. Search & Reports

- Advanced search for alumni/projects
- Export reports (PDF/Excel)
- Printable summaries

6. System Utilities

- Data import/export
- Backup & restore
- Audit logs

## II. Task Assignment of Members

1. Ablang, Jonathan Caballero

- Define requirements, scope, and timeline - Week 1

- Set up Kanban board and assign tasks - Week 1

- Monitor progress and conduct meetings - Weeks 2–9

- Coordinate integration and resolve issues - Weeks 7–8

- Prepare final presentation - Week 9

2. Benito, George Christian Valero

- Design ERD and database schema - Week 1

- Implement database tables and relationships - Week 2

- Develop authentication and role-based access - Week 3

- Implement CRUD for alumni and projects - Week 4

- Validate data and test database operations - Weeks 2–8

3. Bautista, Shaila Jane Vivit

- Gather UI requirements and plan layout - Week 1

- Create wireframes for key pages - Week 2

- Design high-fidelity mockups - Week 3

- Define visual style (colors, typography, navigation) - Week 3

- Finalize UI assets for development - Week 4

4. Agaoid, Jemima Victoria Peralta

- Identify metrics and define KPIs - Week 1

- Implement analytics and statistical computations - Weeks 2–3

- Perform trend and batch analysis - Weeks 2–4

- Aggregate and validate data - Week 4

- Prepare analytics output for dashboard - Week 5

5. Canido, Ram Reniel Malicdem

- Set up frontend project structure - Week 1

- Implement login and dashboard interfaces - Week 2–3

- Integrate charts and KPI displays - Week 5

- Connect frontend to backend APIs - Week 4

- Add filters, search, and responsive design - Week 6

6. Dacanay, Ethelyn Policarpio

- Create test plan and test cases - Week 1

- Test system features and usability - Weeks 2–8

- Track bugs and verify fixes - Weeks 2–8

- Prepare user manual - Weeks 8–9

- Compile and finalize documentation - Week 9

## III. Scope of the System

The Alumni Project Performance Analytics and Visualization System is designed to:

- Serve as a centralized database for storing alumni profiles and project records, including detailed information such as batch, course, adviser, project members, employment status, and supporting documents.
- Provide role-based user management, allowing Admin and Faculty users to securely log in, manage accounts, and access system features based on permissions.
- Enable performance analytics by tracking project success indicators (awards, implementation, impact), alumni employment statistics, and skills utilization across batches and years.
- Offer a data visualization dashboard with interactive charts (bar, line, pie, heatmap), filters by year, program, or project type, and comparative analysis between batches.
- Support search and reporting capabilities, including advanced search for alumni/projects, exportable reports in PDF/Excel, and printable summaries for academic and administrative decision-making.
- Include system utilities for data import/export, backup and restore, and audit logs to ensure data integrity and security.


This system is intended to improve academic planning and decision-making by providing administrators and faculty with actionable insights derived from alumni projects and outcomes