Final Project Report – SkillSync

Project Title: SkillSync – Knowledge & Expertise Management

Phase: 10 – Final Documentation & Presentation

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Prepared By: Sharanya Lakshmi S N

1. Project Overview

SkillSync is a Salesforce-based CRM platform designed to enhance **employee skill management, engagement, and collaboration** within organizations. The system connects **employees, managers, mentors, and administrators**, creating a transparent and gamified ecosystem for **skill development and workforce productivity**.

Through 10 structured phases, the project addressed real-world organizational challenges such as skill tracking, project allocation, mentorship management, learning path progression, and employee engagement. The solution was built on Salesforce with scalable features, including custom data modeling, process automation, Apex programming, integration, reporting, and interactive dashboards.

The project delivered an **end-to-end system** where employees can:

- Showcase and update their skills & learning paths,
- Earn gamification points through projects, tasks, and mentorships,
- Track progress via reports and dashboards,
- Get recognized through a leaderboard-driven engagement model.

Managers and administrators benefit from **real-time visibility** into workforce capabilities, engagement levels, and project readiness, enabling **data-driven talent management**.

2. Problem Statement

In modern organizations, managing employee skills, learning progress, and engagement remains a major challenge. Traditional systems are often fragmented, manual, and lack real-time visibility, which leads to:

- Difficulty in **tracking employee skills** and matching them to project needs.
- Limited **employee engagement** and recognition, reducing motivation and productivity.
- Ineffective **mentorship programs**, as progress and outcomes are not measured properly.
- Lack of **centralized dashboards** and reports for managers to make data-driven decisions.
- No gamification or incentive system to encourage continuous learning and collaboration.

As a result, organizations face skill gaps, underutilized talent, and reduced workforce productivity. There is a strong need for a centralized, automated, and gamified Salesforce solution that can bring together employees, mentors, and managers to track, measure, and enhance skill development and engagement in a transparent way.

3. Solution Overview

The SkillSync project was implemented in Salesforce with a focus on the **Admin Login module**. The administrator acts as the central user who manages the entire system. Through the admin login, the project provides:

- Secure access to the platform with admin authentication.
- Ability for the admin to **create and manage records** for employees, skills, learning paths, and mentorship programs.
- Configuration of page layouts, record types, and permissions, ensuring the right data is visible and controlled.
- Setup of validation rules and process automation to maintain data accuracy and reduce manual effort.
- **Reports and dashboards** accessible to the admin, providing insights into employee points, engagement breakdown, learning path progress, and mentorship effectiveness.
- Centralized **control panel for the admin**, ensuring smooth monitoring of activities and system management.

By focusing on the **Admin Login**, the project delivers the foundation of the SkillSync system, allowing administrators to have **full visibility**, **data accuracy**, **and control** over the skill and engagement management processes within the organization.

4. Project Phases & Deliverables

Phase 1: Problem Understanding & Industry Analysis

- Identified the challenge of managing employee skills, learning journeys, and mentorship programs in organizations.
- Validated that organizations need **gamification (points)**, **visibility of engagement, and structured learning paths**.
- Defined success metrics: admin-controlled system, accurate tracking, and clear dashboards.

Phase 2: Org Setup & Configuration

- Salesforce Developer Org created for project implementation.
- Configured Company Profile, Roles, Profiles, and Users.
- Defined **Admin Login** with full access to manage system records.

• Set up **Security Model**: Organization-Wide Defaults (OWD), Field-Level Security (FLS), and Permission Sets.

Phase 3: Data Modeling & Relationships

- Created custom objects:
 - o **Employee** $c \rightarrow$ Employee details + Points.
 - \circ Engagement Log $c \to \text{Tracks}$ activities and awarded points.
 - o **Learning Path** $c \rightarrow$ Training and skill progress.
 - o **Mentorship** $c \rightarrow$ Mentor-Mentee sessions and outcomes.
- Used Schema Builder to map relationships (Employee
 ← Engagement Logs, Mentor
 ← Mentee).
- Configured Page Layouts, Record Types, and Compact Layouts for each object.

Phase 4: Process Automation (Admin)

- Workflows built for:
 - o Sending notifications when new Engagement Logs are created.
 - o Updating fields automatically on certain conditions.
- Validation Rules to enforce correct data entry (e.g., Points cannot be negative).
- Basic Approval Logic handled using workflow-based notifications (Admin review).

Phase 5: Apex Development

- Developed **Apex Triggers** to send automated **emails** when:
 - o A new mentorship session is logged.
 - o A learning path status is marked as "Completed."
- Ensured data integrity through **trigger logic validations**.
- Created **Test Classes** to validate Apex functionality (achieved >75% coverage).

Phase 6: Lightning Web Components (LWCs)

(Not implemented – system used Salesforce standard UI and dashboard visualization.)

Phase 7: Integration

(Not implemented – no external API integrations in current phase.)

Phase 8: Data Management & Deployment

- Created sample records (Employees, Engagement Logs, Learning Paths, Mentorships).
- Imported test data using **Data Import Wizard**.
- Simple deployment within Developer Org (did not include multi-org pipelines).

Phase 9: Reporting & Dashboards

- Created 4 main reports:
 - o Leaderboard Report Employees ranked by Points.
 - o **Engagement Breakdown** Engagement types with total points.
 - Learning Path Progress Distribution by status.
 - o **Mentorship Effectiveness** Completed mentorships by mentor.
- Built SkillSync Dashboard with bar, donut, and summary chart components.
- Configured **Dashboard Filters & Subscriptions** for automated delivery to Admin.

Phase 10: Final Presentation & Wrap-Up

- Consolidated project into final documentation and presentation slides.
- Demonstrated the Admin Login, Data Modeling, Apex Email Triggers, Workflows, Reports, and Dashboards.
- Delivered SkillSync as a Salesforce solution for skill management, employee growth tracking, and engagement analytics.

5. Security & Compliance

- Data Security: Role hierarchy, FLS, OWD.
- Compliance: GDPR & Indian data privacy policies.
- Audit Trail: System logging & approval history tracking.

6. Project Outcomes

- The SkillSync project delivered a centralized Salesforce system for managing employee skills, learning paths, and mentorship.
- Workflows automated notifications and updates, while Apex triggers sent email alerts for key events like mentorship and learning completion.

7. Future Enhancements

- AI (Einstein Analytics): Provide Suggestions and Easy Processesing.
- **Mobile App Extension:** Knowledge will be shared with the expertise.

8. Conclusion

The SkillSync project successfully streamlined employee skill tracking and engagement within Salesforce. By combining workflows, Apex email triggers, and dashboards, the system enhanced automation, visibility, and employee development management.

Final Status: Project Completed (Phase 1–10).

Deliverables: Documentation, Apex Codes, Lightning App and PPT