Software Requirements Document (SRD)

1. Overview

This document outlines the requirements for the frontend development of three microservices/applications within the DNA ecosystem: Dashboard, LMS (Leave Management System), and PODs. The focus is on UI/UX design, API contracts for integration, and overall frontend development guidelines.

2. UI/UX Design Guidelines

2.1 Color Scheme

- **Primary Color**: #007bff (Blue for primary actions)
- Secondary Color: #6c757d (Gray for secondary actions)
- **Background Color**: #f8f9fa (Light Gray for application background)
- Success Color: #28a745 (Green for success messages)
- Error Color: #dc3545 (Red for error messages)

2.2 Typography

- Font Family: "Inter", sans-serif
- **Heading Font Size**: 24px (Bold)
- **Subheading Font Size**: 18px (Medium)
- **Body Text Size**: 16px (Regular)
- **Button Text Size**: 14px (Bold)

2.3 Components

- **Buttons**: Rounded corners (8px), filled for primary actions, outlined for secondary actions.
- Cards: Shadow (box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1)) with padding (16px).
- **Modals**: Centered popups with a semi-transparent background.
- **Forms**: Input fields with a border radius of 5px and padding of 10px.

3. Application Features

3.1 Dashboard

- Displays multiple tiles reflecting highlights from various applications.
- Each tile fetches real-time data from APIs.
- Users can customize which tiles appear on their dashboard.

API Contract

Fetch Dashboard Data

Request:

3.2 LMS (Leave Management System)

General User Features

- Apply for leave.
- View granted leaves.
- Check available leave balance.

Manager Features

- Approve/reject leave requests.
- View team leave history.

API Contract

Apply for Leave

Request:

```
POST /api/lms/leave/apply
Headers: { Authorization: Bearer <token> }
Body:
{
   "startDate": "2025-03-15",
   "endDate": "2025-03-18",
```

```
"reason": "Family event"
}
Response:
  "message": "Leave request submitted successfully",
  "status": "pending"
}
Approve Leave (Manager Only)
Request:
POST /api/lms/leave/approve
Headers: { Authorization: Bearer <token> }
Body:
  "leaveId": "12345",
  "status": "approved"
Response:
  "message": "Leave request approved",
  "status": "approved"
```

3.3 PODs

- Managers can add employees to a pod.
- Employees can view their pod details.
- Employees can recommend other employees to join their pod.

API Contract

View Pod Details

Request:

```
GET /api/pods/details
Headers: { Authorization: Bearer <token> }

Response:
{
   "podId": "56789",
   "podName": "Innovation Team",
   "members": [
```

Recommend an Employee for a Pod

Request:

```
POST /api/pods/recommend
Headers: { Authorization: Bearer <token> }
Body:
{
   "podId": "56789",
    "recommendedUserId": "3"
}

Response:
{
   "message": "Recommendation sent successfully"}
```

4. Authentication & Authorization

- Users authenticate via JWT-based login.
- Role-based access control (RBAC) to differentiate between managers and employees.

API Contract

Login

Request:

```
POST /api/auth/login
Body:
{
    "email": "user@example.com",
    "password": "securepassword"
}

Response:
{
    "token": "jwt-token-here",
```

"user": { "id": "1", "role": "manager" }

Fetch Current User

}

Request:

```
GET /api/auth/me
Headers: { Authorization: Bearer <token> }

Response:
{
    "id": "1",
    "name": "John Doe",
    "role": "manager"
}
```

6. Deployment & Hosting Considerations

- Frontend Framework: Angular with Angular with Material UI.
- **Hosting**: Vercel, Netlify, or S3 with CloudFront.
- **CI/CD**: GitHub Actions or GitLab CI/CD for automated deployment.

7. Conclusion

This document provides frontend implementation guidelines, UI/UX specifications, API contracts, and integration details for Dashboard, LMS, and PODs applications.