

## Product Requirements Document (PRD)

### Employee Pulse Survey Application

#### Overview

The Employee Pulse Survey Application enables employees to submit pulse surveys and view their past responses, while administrators can oversee all survey submissions, export data, and manage the system. The system consists of two types of users: employees and administrators.

#### Target Users

- **Employees:** Can register, log in, submit surveys, and view past responses.
- **Administrators:** Can log in, view all survey responses, and export data in CSV or JSON format.

#### Features and Functionality

##### Employee Features

- **Register/Login:** Employees can create an account and authenticate.
- **Submit Survey:** Employees can provide responses to a survey question.
- **View Past Submissions:** Employees can review their previous responses.

##### Admin Features

- **Login:** Secure admin authentication.
- **View Employee Responses:** Access and review all employee-submitted surveys.
- **Export Data:** Download responses in CSV or JSON format for analysis.

#### Technical Stack

- **Frontend:** ReactJS
- **Backend:** Node.js (Express.js)
- **Database:** MongoDB
- **Authentication:** JWT-based authentication

#### API Endpoints

##### Authentication

- **POST /api/auth/register** - Register a new employee.
- **POST /api/auth/login** - Authenticate an employee/admin.

##### Employee

- **POST /api/survey/submit** - Submit a new pulse survey.
- **GET /api/survey/history** - Retrieve past survey submissions.

##### Admin

- **GET /api/admin/surveys** - Fetch all employee survey responses.

- **GET /api/admin/export?format=csv** - Export survey data as CSV.
- **GET /api/admin/export?format=json** - Export survey data as JSON.

### User Interface (UI)

- **Employee Dashboard**
  - Survey submission form.
  - View past responses.
- **Admin Dashboard**
  - List of all responses.
  - Export options.

### Security Considerations

- Secure password storage with hashing.
- JWT authentication for session management.
- Role-based access control (RBAC) for employees and admins.

### Deployment

- **Hosting:** Vercel for frontend, AWS/DigitalOcean for backend.
- **Database:** MongoDB Atlas.

### Success Metrics

- User adoption rate (number of registered users).
- Survey submission frequency.
- Admin engagement with survey data exports.