

# **Business Requirements Document (BRD)**

**Project Title:** Optimizing the Internal Request Tracking System

**Client/Organization:** Regional Municipality of York

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## 1. Project Overview

### 1.1 Purpose

The purpose of this project is to modernize and centralize the internal request tracking process, reducing inefficiencies caused by Excel- and email-based systems, while providing actionable insights for management.

### 1.2 Objectives

- Enable users to submit, track, and update requests efficiently.
- Implement role-based access (Admin, Management, External Users) for secure data handling.
- Provide management with visual analytics (dashboards) for data-driven decision-making.
- Automate notifications and updates using Power Automate to reduce manual effort.

### 1.3 Scope

#### In Scope:

- Power Apps form for request submission
- SharePoint list for centralized data storage
- Gallery view with filters (date, project status, assigned team leader, deadline status)
- Power BI dashboard for visual insights
- Automated emails via Power Automate

#### Out of Scope:

- Integration with third-party systems outside Microsoft 365
- Mobile app beyond tablet responsiveness

## 2. Stakeholders

Stakeholder	Role	Responsibility
Admins	System Management	Manage users, approve requests, oversee gallery views
Management	Decision-Making	Monitor KPIs, filter and sort requests, access dashboards
External Users	Request Submission	Submit and track requests within permitted access
IT Team	Support & Maintenance	Ensure SharePoint and Power Apps integrations work as expected

### 3. Functional Requirements

ID	Requirement Description	Priority	Status
FR1	Users must submit new requests via Power Apps form	High	Implemented
FR2	Requests stored in centralized SharePoint list with unique IDs	High	Implemented
FR3	Admins/analysts can view, filter, sort requests in gallery	High	Implemented
FR4	Role-based views for Admin, Management, External Users	High	Implemented
FR5	Users can update/edit submitted requests per access rights	Medium	Implemented
FR6	Power Automate sends confirmation and status update emails	Medium	Implemented
FR7	Gallery supports filtering by date, project status, team leader, deadline status	Medium	Implemented
FR8	Data visualizations (bar/pie charts) for management insights	Low	Implemented

### 4. Non-Functional Requirements

ID	Requirement Description	Priority	Status
NFR1	Accessible within secure Microsoft 365 environment	High	Implemented
NFR2	Load time for forms and gallery $\leq 3$ seconds	Medium	Implemented
NFR3	Support responsive design for desktop/tablet	Medium	Implemented
NFR4	User actions logged for audit purposes	High	Implemented
NFR5	Comply with regional privacy and data retention standards	High	Implemented
NFR6	$\leq 5$ clicks to submit a new request	Medium	Implemented
NFR7	Maintainable and scalable for future enhancements	Medium	Implemented

### 5. User Stories

As a...	I want to...	So that...	Priority	Status
Admin	View all data requests in a gallery	I can track project progress and manage assignments	High	Implemented
Admin	Filter and sort requests by date, project status, team leader, or deadline status	I can easily find and prioritize tasks	High	Implemented
Admin	Receive email notifications when a request is submitted or updated	I am aware of changes and updates in real-time	Medium	Implemented
Management	View charts and dashboards of requests by status over time	I can gain insights and make data-driven decisions	Medium	Implemented
External User	Submit a new data request through Power Apps	My request is recorded in the system with a unique ID	High	Implemented

<b>External User</b>	Edit or update my submitted requests	I can correct or add information if needed	Medium	Implemented
<b>System</b>	Assign unique IDs to each submitted request	Requests are easily identifiable and trackable	High	Implemented
<b>System</b>	Support role-based access (Admin, Management, External)	Users see only the data relevant to them	High	Implemented

## 6. Business Rules

- Completed requests are automatically flagged and cannot be edited by external users.
- Requests exceeding deadlines trigger automated alerts.
- Only assigned team leaders can update request status.
- Admins have full visibility of all requests; external users see only their submissions.

## 7. Data Requirements

- Fields captured in SharePoint: Request ID, Request Date, Project Name, Assigned Team Leader, Project Status, Deadline, Brief Description, Confidential Flag
- KPIs calculated: Requests due within 5 days, overdue requests, requests by status and team leader and requests by deadline (month) and project status.
- Reports and dashboards must be refreshed daily

## 8. Assumptions

- All users have Microsoft 365 credentials
- Data entered into the Power Apps form is accurate and complete
- Internet connectivity is reliable for dashboard and gallery usage

## 9. Constraints

- Power Apps and SharePoint list size limitations
- Must remain within the Microsoft 365 environment
- Dashboard refresh and calculation performance are subject to SharePoint data limits

## **10. Acceptance Criteria**

- Users can submit, edit, and view requests per role
- Gallery filters return accurate results
- Dashboard accurately displays KPIs
- Automated notifications are sent reliably on submission/status changes
- System maintains <3s load time under normal usage