Business Requirement Document for Weather and Flight Planning

# 1. Introduction

The purpose of this document is to define the business requirements for the Weather and Flight Planning component. This system provides real-time weather updates and assists in the planning and routing of flights.

# 2. Scope

This document covers the business requirements for integrating weather data into flight planning and decision-making processes.

# 3. Business Objectives

- Ensure safe and efficient flight routes based on real-time weather data.  
- Minimize delays and diversions due to adverse weather conditions.  
- Enhance the decision-making process for flight operations.

# 4. Functional Requirements

## Weather Data Integration

The system should integrate real-time weather data from reliable sources to assist in flight planning.

## Route Optimization

The system should optimize flight routes based on current and forecasted weather conditions.

## Delay and Diversion Management

The system should provide recommendations for delays or diversions in case of severe weather.

## Pilot and Dispatcher Support

The system should provide critical weather updates and advisories to pilots and dispatchers during flight operations.