Use Case S6: Detailed Description

Use Case Name: Save Meteorological Data Scenario: Save Temperature Data to a Database

Brief Description: With the System running, and the database server working, the system sends the Temperature Data to the database for archiving—including

the current minimum and maximum.

Primary Actor: System Secondary Actor: Database

Related Use Cases: Use Case S1: The System Shall Monitor Temperature

Data

Use Case S6 Scenario 1: The System Shall Save Temperature Data

Stakeholders: Local and National Weather Buereaus and individuals desiring

to archive temperature data.

Climatoligists interested in archived temperature data.

Preconditions: The System is running, the temperature is monitored, the database server is running the System is logged in/accessing the database.

Postconditions: The data is archived to the database.

Flow of Events

System	Database
1. Send Temperature Data to	
Database	
	2. Parse the Date into Month, Year, Day
	fields
	3. Place the Time data in the perspective
	Day field.
	4. Parse the temperature data into Metric,
	English and Absolute
	5. Place the Metric Temp Data in the
	Metric Field, the English Temp Data in
	the English Field, the Absolute Temp
	Data in the Absolute Field
6. Send the Max/Min Temperature data	
to the Database with the Date.	
	7. Parse the Date into Month, Year, Day
	fields
	8. Plase the Time data in the perspective
	Day field.
	9. Parse the max/min temperature into the
	appropriate units
	10. Place the Max/Min temperature data into
	the appropriate Max/Min with the appropriate
	units.

Exception Conditions

1a, 6a. If the Database Server is not running, then the System cannot save the data to the Database and alerts.

Technology and Data Variations List

*a. The Database Could be one of several different types: preferably an SQL type Database. *b. Querrying of the database via GUI interaction (if not already implemented) to be developed within 6 months.

^{*}a. At anytime, if the fields do not contain the current data for saving, then the Database creates the data: placing that data in the appropriate Entity for the Database.

^{*}b. At anytime, if the data cannot be saved in the Database, then the Database alerts the System, the System alerts.