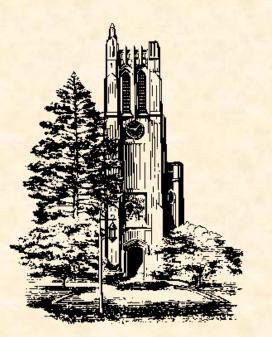


## Alpha Demonstration Weather Incident Verification System



Team Auto-Owners CSE 498, Collaborative Design

Evan Dontje Edward Waller Joseph Lockard

Department of Computer Science and Engineering
Michigan State University

Spring 2010



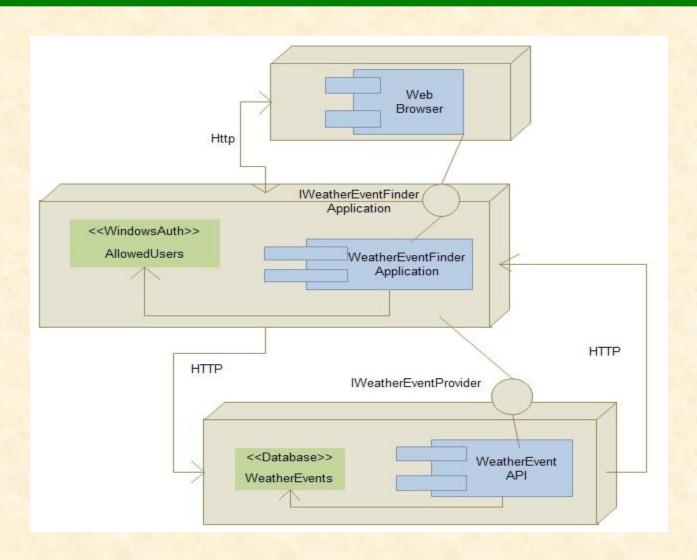


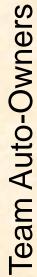
### **Project Overview**

- Insurance Claims Web Application
  - Used by Claims Associates
- Determine accurate weather history for specific location on specific date
- Compare weather history with claim
  - Helps Associate determine if claim is valid

## 5

### Architecture Illustrated







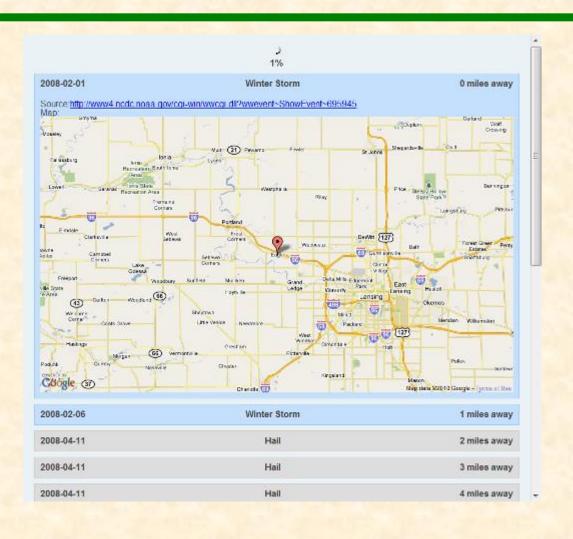




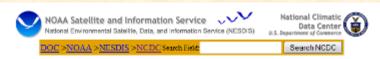


	0%	
2008-02-01	Winter Storm	0 miles away
2008-02-06	Winter Storm	1 miles away
2008-04-11	Hail	2 miles away
2008-04-11	Hall	3 miles away
2008-04-11	Hail	4 miles away
2008-04-11	Hail	5 miles away
2008-05-17	High Wind	6 miles away
2008-05-17	High Wind	7 miles away
2008-06-06	High Wind	8 miles away
2008-06-06	High Wind	9 miles away
2008-06-06	High Wind	10 miles away
2008-06-06	High Wind	11 miles away
2008-06-06	High Wind	12 miles away
2008-06-06	High Wind	13 miles away
2008-06-06	High Wind	14 miles away
2008-06-06	High Wind	15 miles away









### **Event Record Details**

State: Michigan Map of Counties

County: Clinton

Event: Flash Flood Begin Date: 19 Jun 2009, 21:30:00 PM EST Begin Location: 2 Miles East of Eagle Beein LAT/LON: 42º49'N / 84º43'W

End Date: 20 Jun 2009, 01:26:00 AM EST End Location: 3 Miles West North West of Waoousta

End LAT/LON: 42°51'N / 84°43'W

Fatalities: 0 Injuries: 0 Property Damage: \$ 0.0K. Crop Damage: \$ 0.0K

Magnitude: 0

EVENT NARRATIVE: Flooding of Bauer Road with more than six inches of flowing water from the Looking Glass River was reported. A rainfall measurement of 3.75 inches was reported in this location. EPISODE NARRATIVE: Thunderstorms developed and moved across Lake Michigan during the evening hours on June 19th. Several hours of intense rainfall occurred starting around 7:00 PM EST. The ground was already saturated from early morning thunderstorms that produced very heavy rainfall. In addition to the heavy rain, severe thunderstorms and tornadoes accompanied the thunderstorms.

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### What's left to do?

Active Directory Authentication

- Make it pretty
- Extra Credit
  - WSRP
  - Search for incidents in a given radius from location