

Weather Site

Requirements and Design

15 August 2005
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Weather Site Requirements and Design

This document outlines the requirements and design of the Weather Site.

1.0 Strategic Brief

The purpose of the Weather Site is to inform users about the current weather at the University of Queensland's Ipswich Campus. I will also display various pieces of past data in the hope that trends can be seen to help the user predict the changes in weather for that day.

The helpfulness of this system lies in the fact that it will make clothing suggestions based on the weather (coat, sunnies, umbrella, etc).

Measurements of success of this project will be determined from positive user feedback.

1.1 Roles

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1.2 Target Audience

The target audience for the Weather Site will be students that need to travel to the Ipswich Campus from a considerable distance. They will be able to get weather readings from the site and take into account the suggestions the site makes.

1.3 Influences

Some of the influences of this site are as follows.

AccuWeather

- Lots of adds, though the data itself is set out rather well

AllWeather

- No adds
- Colours could use some work
- Icons could use some work

MetService

- The icons are good and animated
- General Map with specific area hovering data
- Good use of colour

2.0 Functional and Design Requirements

2.1 User Interface

- 2.1.1 User Interface must be fast and intuitive as not all users are experts with fast connections.
- 2.1.2 The site will be professional and clean.
- 2.1.3 The site will make use of bright and crisp colours.
- 2.1.4 The site will use various icons to display some of the data.

2.2 Information and Links

- 2.2.1 The live data will be provided by the client.

2.3 Infrastructure

- 2.3.1 The weather site will be deployed on a server at UQ running Tomcat 5.5 and Postgres. The site shall use JSP as the base server-side coding language.
- 2.3.2 The icon suite for the site shall be created using the GIMP image editing package (or similar).
- 2.3.3 The web pages will be designed and developed using Macromedia Dreamweaver web editing software (or similar).

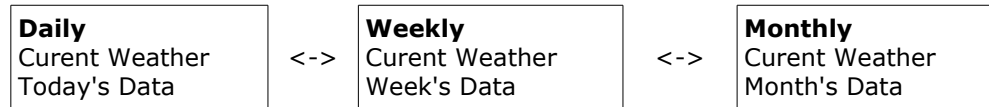
2.4 Feedback and Testing

- 2.4.1 The site will be tested using students of UQ Ipswich.

3.0 System Design

3.1 Site Map

The site will consist of 3 pages:



All pages make a connection to the live data.

3.2 Navigational Layout

All pages will link to each other through the use of a main menu:

Daily	The weather for today
Weekly	The week's weather
Monthly	Averages for the current month's weather

3.3 Database Interaction

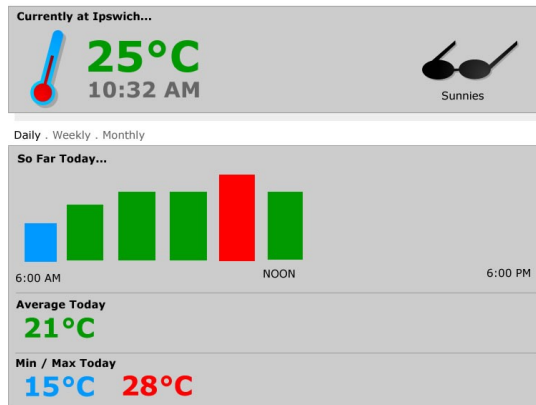
3.3.1 Nothing will be written to the database

3.3.2 All pages will make a connection to the database to retrieve current weather data as well as historical data for the purpose of calculating averages.

3.3.3 Should any suspected erroneous data be found (outliers, etc) while attempting to calculate averages the system will simply ignore it.

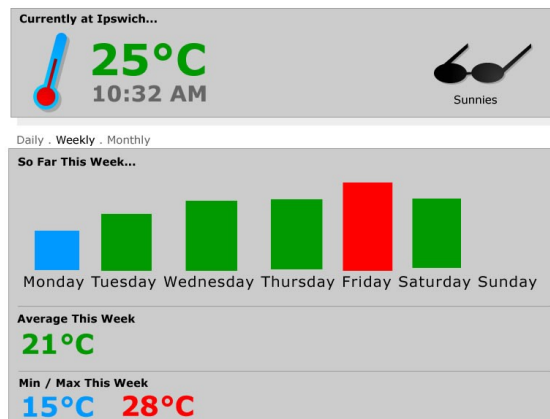
3.4 Website Look and Feel

3.4.1 Daily (Home Page)



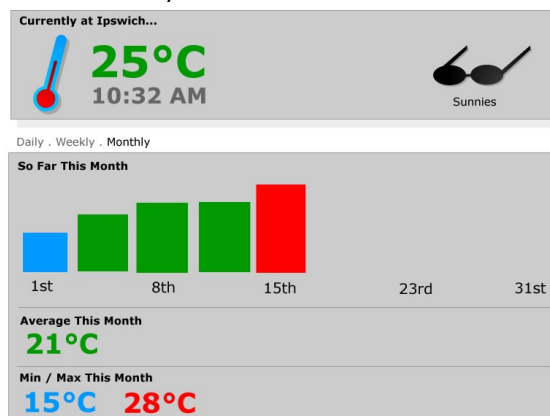
This page will contain several icons. One, in the form of a thermometer, will show how cold/hot the day is. Others (a series of various clothing icons) will show the viewer a suggested range of clothing to take to university for the current weather.

3.4.2 Weekly



This page will show a rough bar graph of the weeks temperatures. The page will also show the average temperature of the week.

3.4.3 Monthly



This page will show a rough bar graph of the months temperatures. The page will also show the average temperature of the month.

4.0 *The Project*

4.1 Stages of the Project

Requirements	15 August 2005
Feedback Site	1 September 2005
Feedback Analysis	5 September 2005
Final Tweaking	10 September 2005
Final Release	12 September 2005

Note: Dates are only estimates and may change as the project progresses.