**Plan for Forecasting System**

**Introduction**

Primarily, the system will strive to predict weather conditions for students in the Chicago area as accurately and reliably as possible for up to 3 days. Tentatively, the system may allow students to make predictions for up to a week, however the system will provide more accurate weather predictions for 3 days or less. Our goal is to have the user be able to access temperature, wind, humidity, and historical information by our final presentation on July 24, 2014.

As this is a student software project and due to the fact that the software system will be authored in a 12-week summer semester, the issue of time is a factor that will weigh heavily on all aspects. Time can also be considered our budget. We have a limited amount of it that we can allot to various aspects of the project. It is our main constraint and is a factor when it comes to coding collaboration, coding learning curves, and other project issues that might arise.

**Project Organization**

Chief Manager: Dilusha Harischandra

Engineering Manager: Rob Niesen

Project Manager: Emmanuel Raguay

Sr Programmer: Efren Ulloa

Sr Programmer: Lalitha Vedula

**Milestones**

1 Weekly Documents and Tasks

2 Diagrams

3 Presentation 1: Diagram critique

4 Presentation 2: Sponsor visit (coding preview)

5 Presentation 3: Due Date 14 JUL 24

6 Coding and Calculations

7 User Interface

8 Testing

**Components being worked on by which team members**

Due to the nature of the project it is essential that all team members work on all aspects of the project whenever possible. This requires all team members to be aware of collaboration protocols, group tasks, and individual tasks for the week.

**Risk Analysis**

**Staff Turnover/Unavailability – Moderate**

Due to the nature of a graduate student’s hectic summer schedule, there is the possibility that a team member will drop the class or be unavailable during the life of the project.

**Management Change – Low**

Although there are a diverse array of talents on our team, we do not anticipate any one team member doing more than anyone else or acting in a traditional managerial position. The team will mainly function as one large whole, thus, the potential for a change in management is not likely.

**Requirements Change – Low**

Our plans for the project’s features may need to be scaled back if they are initially too ambitious. We are, however, aware that one of our largest constraints is time and because of that, we will plan and incorporate features as time allows.

**Specification Delays – Moderate**

The delay of a specification is a fair possibility, due to specifications that may depend on prior features being finished.

**Size Underestimate – Low**

Judging from our initial ideas and the sheer number of possible features and specs the project could include, the opposite may actually be an issue if we are not careful with planning features accordingly and in a timely fashion.

**CASE Tool Underperformance – Low**

Our software project will be flexible in terms of the support tools we use to create it. The tools that we will use (IDES, programming style, etc.) are high quality and dependable.

**Technology Change – Fair**

We have a strong idea of which technology tools we wish to use in order to implement our software system. However, as requirements come to light, we may decide that a certain language or programming style is better suited to fit our project’s needs, at which team we will decide as a team whether or not the change is justifiable.

**Product Competition – Fair**

Although NEIU currently has a weather application, we believe our software application will be a more than suitable alternative. Additionally, we think the fact that our system will be engineered by NEIU students is another reason students may wish to use our system instead.

**Hardware and Software Resource Requirements**

The software system will be produced in such a way that only a reasonably powerful machine will be needed to run it optimally. Furthermore, it will be authored with the goal of platform independence in mind.

Submitted by:

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