**Meeting Minutes #1**

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| **Date** | **February 3rd, 2016** | |
| **Time** | 3:00 PM | |
| **Location** | | Lakeside 1 Lobby | |
| **Attendees** | | Elena Chong, Tim McDaniel, and Mitchell Murray | | |
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The meeting started at 3:05PM

The purpose of today’s meeting is to get our project started by brainstorming ideas and features for our navigation system, understanding the requirements for design, and creating a physical draft of what we would like to have as our system based on the ideas.

During this meeting, we discussed the following:

Mitchell started the brainstorming process by describing that knowing the distance, the capital in states.

Las Vegas, Nevada: all the points of interests.

Tim suggested just state-capital, but Las Vegas may be simpler to deal with.

We have narrowed down to Nevada State with several cities and points-of-interest.

Elena suggested to go in order of the requirements:

1. Focus on Nevada state with cities and points-of-interest
2. Use hashmap(city, distance), and hashmap(city, time).
3. Algorithm: straight line to choose
4. Use A\* algorithm with graph data structure and hashmap
5. Shortest route with A\* algorithm
6. Speed limit?
7. Time and distance
8. How interesting are : trip advisor. Gathering data
9. Search, user interface ?
10. Trip planner: features
11. GUI
12. Scale-up, users can insert things, we need to store data?

Problems encountered (Ask Dr. Wollowski):

1. How two cost functions work? Can we have mile/hr since we know the miles and calculate the time it takes from point A to point B. No because it will be proportional, so it won’t have another choice.
2. What is the 48 hour grace period?

| Action Plan | | | |
| --- | --- | --- | --- |
| No. | Action Item(s) | **Owner** | **Target Date** |
| 1. | Explore and implement the skeleton for the navigation system. | Mitchell | 2/6/2016 |
| 2. | Explore GUI, user interfaces. | Elena Chong | 2/6/2016 |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
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Next Meeting: February 3rd, 2016

Weekend Meeting: Saturday, 7:00 pm ~ 10:00 pm

The meeting was adjourned at 4:00 PM

Respectfully submitted,

Elena Chong

Scale-up: using data structure, cannot use a bunch of array

How can we scale up? If you use graph and A\*

Using and saving things to file and ask users for input.

GUI designed for end-user: whatever you want to do. Pre-load.

Hashtable to get to node and each node has a linked list for the edges

Cost functions:

Two different costs for each edge. Assume same speed.

Each edge is distance and time.

Each edge is label: I70, I40.

Distance, label, speed, time

Good GUI