|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Id** | **Email** | **Major** |
| Fan Zhang | 4638155 | [zhan2191@umn.edu](mailto:zhan2191@umn.edu) | Master of Computer Science |
| Zhiqi Chen | 4638151 | [chen2795@umn.edu](mailto:chen2795@umn.edu) | Master of Computer Science |

**Four articles we are interested in:**

* Hotspot Detection, Prioritization, and Security
* Location Based Services: Practices and Products
* Road Maps, Digital
* University of Minnesota (UMN) Map Server

**Project:**

We would like to develop an interactive parking map which will implement the ideas of “Location Based Services: Practices and Products (Encyclopedia of GIS, J. Francica, pp. 623-627) “.

In our project, we are not only focus on the location and parking rates of the parking lots, but also users’ feedback about the free space of the parking lots. We want add users’ estimation about the available space in the parking lots. It’s not need to be accurate, but this information will be very useful for other drivers who are looking for a parking spot, especially in some holidays and event day.

Once we get enough data from users’ feedback, we can make estimation about the rush hours in some parking lots. This feature will also help drivers to make a smart decision when and where to park.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Number of Computers** | **Number of items (with rfid tags)** | **Mobile phone with GPS** | **Other GPS devices in the home?** | **Database management system** | **GIS software** |
| Fan Zhang | 1 | 2(GoTo card ZipCard) | Yes | Yes, one GPS device | MySQL | None |
| Zhiqi Chen | 1 | 1(GoTo card) | Yes | No | MySQL | None |