Sprint Evaluation

What is the progress of your project in this sprint? What goals are achieved? What problems are overcome? If you are updating your plans what are your justifications?

Firstly, we will not use SAP HANA database platform anymore. This is because SAP does not give licensed version of HANA platform whereas it is said that licensed version will be provided in proposal of the project. Hence, we couldn't connect trial version of SAP HANA to anywhere. So, we have decided to change database platform to common and user friendly one. We have started to use MySQL database platform to store and gather data. Then, we need to change plan of project. From now, we use MySQL server for data storing and gathering. These data will be used on modeling part which is written in Java on Eclipse platform. Resultant model will be written to server. However, we haven't connected the ArcGIS to MySQL server. Because of this, we write the longitude-latitude and risk combination to the excel file and ArcGIS extracts data from excel file. Secondly, we have completed synthetic data generation. In addition to the data attributes mentioned in previous retrospective document, we have also found building information before 2002. Data information includes number of building, age of building, number of people per building, number of floor of a building, ground information, construction material information. Only longitude and latitude of the buildings could not been found due to the political issues. Longitude and latitude coordinates are converted to the WGS 1984 Web Mercator Auxiliary Sphere coordinate system since ArcGIS supports this convention. Thus, buildings are distributed on distinct area randomly since we know the approximate border information of each district. This approximate border can be challenging in some situations (no building area, sea border, smooth border passing). We will work on this in next semester. It can be said that only synthetic part of the data creation is assigning longitude and latitude information. This is done by c^{++} code. Then, various techniques are examined to choose most suitable method while applying hot spot mapping. Natural Neighboring technique is used since it serves smooth passing along the border. In order to visualize data on ArcGIS we need to write risk and coordinate couples to the excel document. A simple decision tree algorithm is implemented to give approximate risk result for demo day. At same time, we talked with Etkin Hasgül researcher in Disaster Management and Implementation Center at METU to consult regarding modeling phase. He gave several articles about calculating risk using gathered data. We have also applied to AKUT to get distribution capacity of each service and their locations. We have also completed user interface. Then, it can be said that all things mentioned in previous backlog update have been completed. Lastly, we have started to write SDD document.

Team evaluation

How well your team working together? How many meetings did you hold? Are you planning any changes in your cooperation strategy? Which work is completed by which member (in a Gannt chart)?

As a team, we have good division of labor. We have met 5 times until last sprint. Two us completed the data gathering and creating web site of the project. One of us completed user interface. One of us created random coordinates according to WGS_1984_Web_Mercator_Auxiliary_Sphere coordinate system and wrote a sample risk code using data attributes. One of us visualized the data extracted from excel and create neighboring hot spot map using different risk attributes. All of us started to write SDD and created the presentation. Everyone completed his/her own work on time.

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| Task | Assigned Member | 1 st Week | | | | 2 nd Week | | | | 3 rd Week | | | |
|--------------|------------------|----------------------|---|----|---|----------------------|---|---|---|----------------------|---|---|---|
| Data | Onur Yılmaz& | + | + | + | + | + | + | + | + | | | | |
| creating and | Goksucan Akın | | | | | | | | | | | | |
| storing them | | | | | | | | | | | | | |
| in the | | | | | | | | | | | | | |
| database | | | | | | | | | | | | | |
| Creating | Onur Yılmaz | | | | | | | | | + | + | + | + |
| Web-site | | | | | | | | | | | | | |
| User | Goksucan Akın | | | | | | | + | + | + | + | | |
| Interface | | | | | | | | | | | | | |
| Creation | | | | | | | | | | | | | |
| ArcGIS | Arda Aslan | + | + | + | + | + | + | + | + | + | + | | |
| configuratio | | | | | | | | | | | | | |
| n, data | | | | | | | | | | | | | |
| mapping | | | | | | | | | | | | | |
| and | | | | | | | | | | | | | |
| visualizing | | | | | | | | | | | | | |
| Creating | Miray Mazlumoglu | | | + | + | + | + | | | | | | |
| coordinates | | | | | | | | | | | | | |
| using | | | | | | | | | | | | | |
| special | | | | | | | | | | | | | |
| coordinate | | | | | | | | | | | | | |
| Croating | Miray Mazlumoglu | + | + | | | | | + | + | + | + | | + |
| simple | | ' | ' | | | | | ' | 1 | ' | ' | | |
| Model & | | | | | | | | | | | | | |
| article | | | | | | | | | | | | | |
| searching | | | | | | | | | | | | | |
| Writing | All Members | | | + | | | | | | + | + | + | + |
| SDD | | | | | | | | | | | | | . |
| Creating | All Members | | | 1 | 1 | 1 | + | | + | + | + | + | + |
| Presentation | | | | | | | | | | | | | |
| | ļ | 1 | - | -1 | 1 | | | | - | | - | - | |

Backlog Updates

What are your backlog updates?

Creating real model to determine risk map, Improving coordinate distribution, Distributing units and resources, Drawing simple path to reach destination.