Stage: Initiation

Project Proposal
2008/9

Aselsan ClimbPlanner Project

Quattro

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1 Project Details

1.1 Summary

ClimbPlanner is planned to help climbers in their activities before and during the climb through best use of computer science. In particular ClimbPlanner provides guidance to climbers how to decide their path to aimed point like peaks or which equipments will be needed on the way considering weather conditions, terrain features and preferences of activity.

GIS(Geographical Information System) technologies will be densely used during development of this software. Depending on the user's choice and inputs given about group member information, weather/geographical conditions and constraints(time,distance etc.) the output of the program will be a climbing plan including path, time and distance related issues and equipment. In addition, users will be able to see 3D visualization of resulting route.

Details of Group Information:

- Age,
- Experience,
- Number of Members,
- Health Conditions of Members,
- Aim of The Group (leisure, rescue, military etc.)

Details of Weather/Geographical Conditions:

- The weather conditions during the climb,
- The physical situation of the route

Constraints:

- Time Constraints,
- Safety Constraints

1.2 Why This Project?

GIS is a widely used technology all over the world. The increasing need for this technology is one of the main reasons of why we have chosen this project. Also among other projects, ClimbPlanner has the clearest specifications and boundaries. Experiences of graduate students affected us positively about Aselsan’s project, too.

1.3 Stages

We are planning to define a general list of equipment, geographical issues or other terminology about climbing. While doing that we will contact with METU Climbing Club for these specific points. According to course syllabus we need to write reports about our progress like every month. By doing that not only lecturers but also the company will be able to follow what was done. We haven’t decided on which platform will be used or which programming languages will be needed. We are planning to decide on requirements and how can we represent desired results first. After that these points will lead us about platform choice. In January we will be ready for a demo representation. In this demo we’ll only show roughly what the program will look like when it’s finished. In second term, our main aim will be developing what we planned in first term. This project will be open source; reusability and ease of use are our main objectives.