Dietaide Feasibility Study

Technical Feasibility

1.  Users' and analysts' familiarity with the business area:
    The business area is health service and electronic-aided counseling for both patients and doctors in a select hospital. This is an entirely unfamiliar area to the team's members, both in terms of business needs, in medical area expertise, and in technical minutes. Extensive investigations must be made into the area to acquire exact business needs.

2.  Familiarity with technology:
    The technical tools we are going to use:
    - Possible programming languages: C++/C, Python, Java
    - Database Management System: NoSQL systems such as MongoDB
    - Web languages such as HTML/CSS

    Technical unfamiliarity primarily results from lack of knowledge of the exact type of database to be used by the prospective client hospital, as well as the prospective process of integrating Dietade with that database. A simulated hospital database might be considered, but that might mean reduced accuracy with regards to actual diet-diagnosis correlations.

3.  Project Size:
    The team consists of 4 persons. Communication, planning, and modeling phases will take around 1 month. Construction and testing phases will take around 1 month with work only able to be done intermittently, in relatively inflexible schedules.

4.  Conclusion:
    The risk at this stage of the project is high, due to lack of familiarity with the business area, lack of familiarity with the actual database organization to be used by real hospitals, as well as relatively modest team size and limited work schedule.