E-Team Building

E-Team Building is an information system for a company that is specialized in organizing team building events. The company`s competitive advantage and its marketing point is maintaining a long term relationship with their clients and offering professional counseling and advice for the HR departments. The exercises focus on building team relationships and team leadership.

The company offers both in-site counseling and weekend events that take place in a mountain resort. For the in-site counseling, a member of the company goes to the client and holds communication exercises with a single team from the client company. The aims for the exercises are pre-established with the HR and the assessments after the exercise are also sent to the HR department.

For the events, usually most of the client company members come in the weekend to a mountain resort and they are organized in different teams than the ones they work into at office. The splitting into teams takes into consideration previous events so that two aims are followed: discover new talents by putting members into different roles than before and also strengthening a role, for example, strengthening the role of a new unit leader.

The system should maintain the list of clients and client personnel, with their assessments and history in previous events. The system must allow the owner to graphically view existing team structures and relations. The system must provide decision support in organizing an event, from booking the location to preparing the daily program for each team and instructor. The assessments are introduced by the instructors and validated by the team building company owner before being sent to the HR department of the client. Lastly the system should be interconnected with the HR departments IT systems in order to extract personnel files.

You are encouraged to increase the complexity of the problem statement in order to fulfil the following requests:
1. **You can add new business objects, new use cases starting from the preliminary problem description. Develop the business architecture.**

2. **Develop the domain model that should emphasize the business information resources. Develop the business information architecture. Map it on the business architecture.**

3. **Design three software architectures using different styles and architectural patterns. Justify your decisions in writing. Select the most suitable architecture for the information system objectives and business constraints and declare it as your application architecture.**

4. **Implement an architectural prototype. A working test system must be produced using a component-based architecture implemented in Enterprise Java Beans 3.0. Develop the information technology architecture and map it on the previous application architecture.**

5. **A prototype of a new architectural application version based on web services will be also welcomed.**