

Event Management System Project Description Document

IS 690 Spring 2011

This document gives a high level description of the Event Management System and its architecture

Revision History

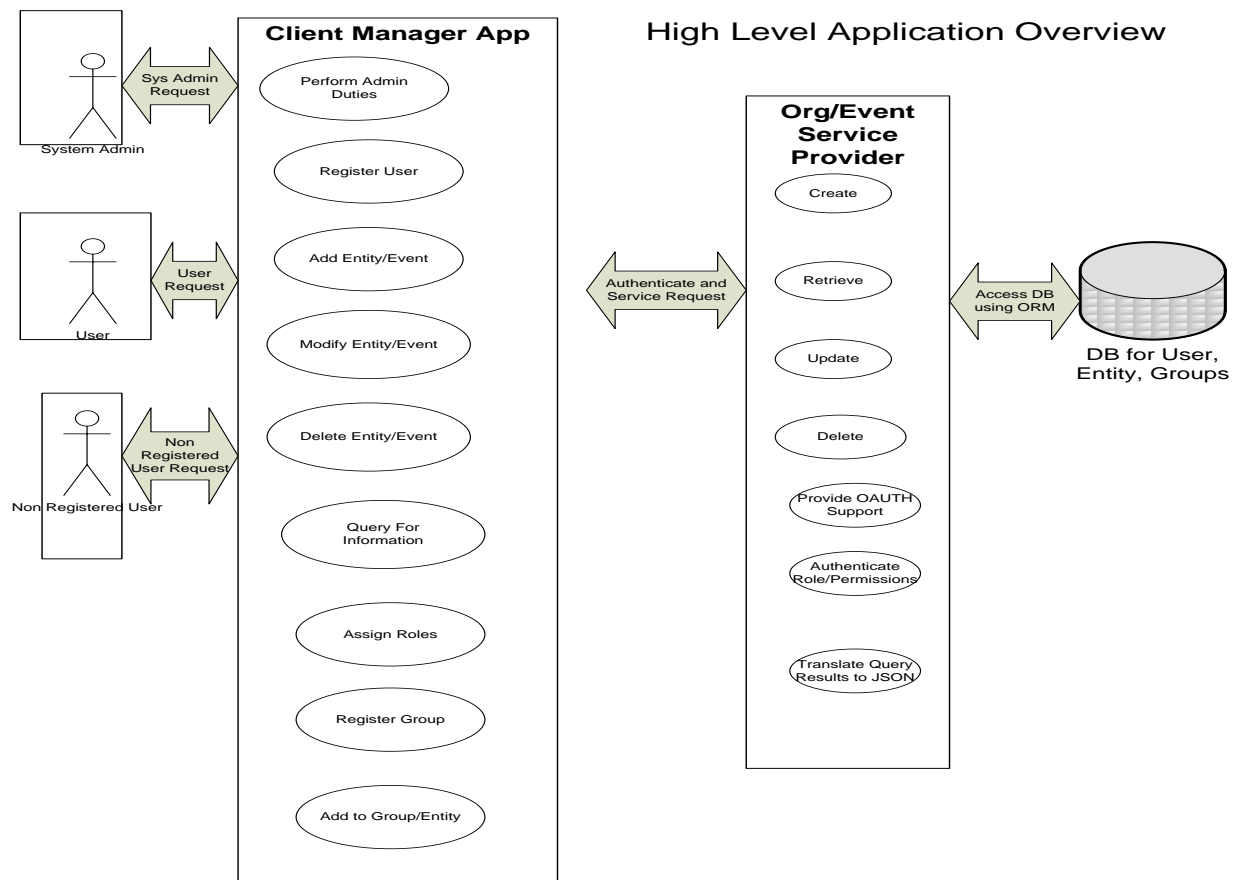
Version Number	Description	Date	Changes made By
0.1	Initial Draft	02/19/2011	Ramya Balaji

IS 690 Event Management System Project Description

High Level System Overview

The Event Management system will maintain an information repository of people, events, and organizations on the web that can be accessed through APIs by applications wishing to access this information for their own purpose. The APIs will be offered as a web service and will enable the consuming applications to selectively query the information they require. Users will be able to register themselves and their events of choice and be able to manage them as well. Permissions to manipulate the information will be assigned and managed also. People that are not registered users of the system will be still able to access events and other entities depending on the access status of the same.

System administration tasks and general management of the above repository will be done by a Manager Consumer application. In addition, other applications will also be able to use the web service.



The Provider

1. The Event Management System will offer in the form of a web service, the ability for its users to register themselves, and other entities and groups and to participate in these entities and groups at various levels.
2. Entities can be organizations (corporations, associations etc). Events are happenings in organizations or related to entities (sporting events, meetings, cultural events etc).
3. The system allows a user to have different roles in different entities and groups and will have the ability to provide different levels of user access to perform various tasks on the system like Create, View, Update and Delete the entities.
4. The system will allow non registered users. i.e. anyone that does not want to be registered as a system user can still be registered for an event.
5. Permissions are maintained by Role in the organization (Manager, User, System Administrator) , by means of membership in Groups(for e.g Group members may have the permission to view and update while others may only be able to view) and by means of Roles within groups.
6. Sys Admin will be the only group allowed to perform system level maintenance, schedule system events for periodic clean up and Database maintenance and have universal permissions for all operations across the system.
7. The Provider will provide OAUTH authentication (server side) support for applications consuming the services.
8. The Provider will provide API s for consuming applications to perform the operations above including viewing and querying for information with various combinations of filters.
9. The information retrieved will be sent to the consumer app in JSON format
10. All these features will be in the form of web services provided to consumer applications.

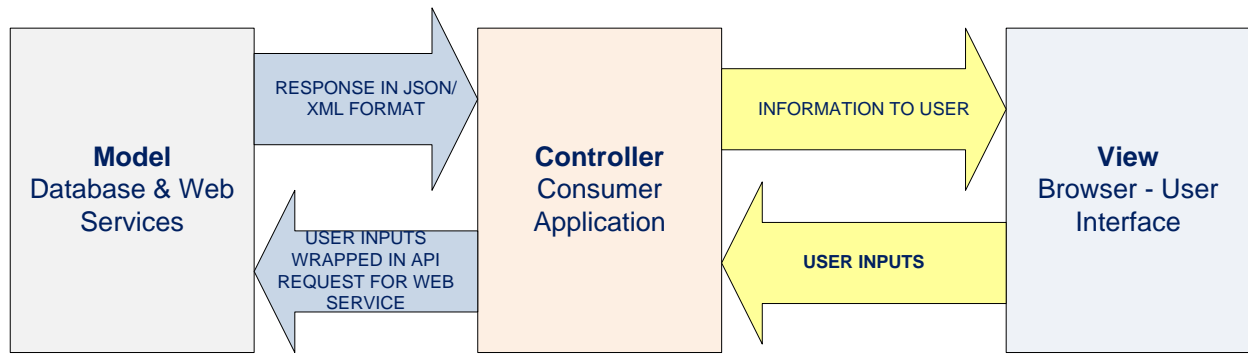
The Consumer

1. Users of the system can have their own consumer applications for a variety of purposes. The system will have a manager consumer application that can be downloaded if the user so wishes to. The basic function of the consumer will be to provide an interface to Register, view, Update and Delete the information in the database.
2. Users will be registered for using this consumer application or a custom application and this information will be used to provide OAUTH authentication for a consumer accessing the web services.

High Level Architecture

The proposed system architecture will follow the MVC pattern – Model, View, Controller. The user will interact through the web browser which will be the “View”. The controller will be the Manager consumer application that will interpret the user inputs suitable into APIs that access the web service and the database which also represent the “Model”.

MVC ARCHITECTURE OF THE EVENT MANAGEMENT SYSTEM



Deliverables

The deliverables on completion of the initial phase of the project will consist of the Provider Application and the Consumer application.

The Provider will be able to Create/Retrieve/Update and Delete Entity, Person, Event, and Organization. In addition, it will support similar operations for Users and will enable the provision of basic permissions for users.