

**Class:** Object-oriented Analysis and Design Fall 2014 @ KMITL

**Project :** KMITL-simple-event-bulletins-board

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## Problem Analysis

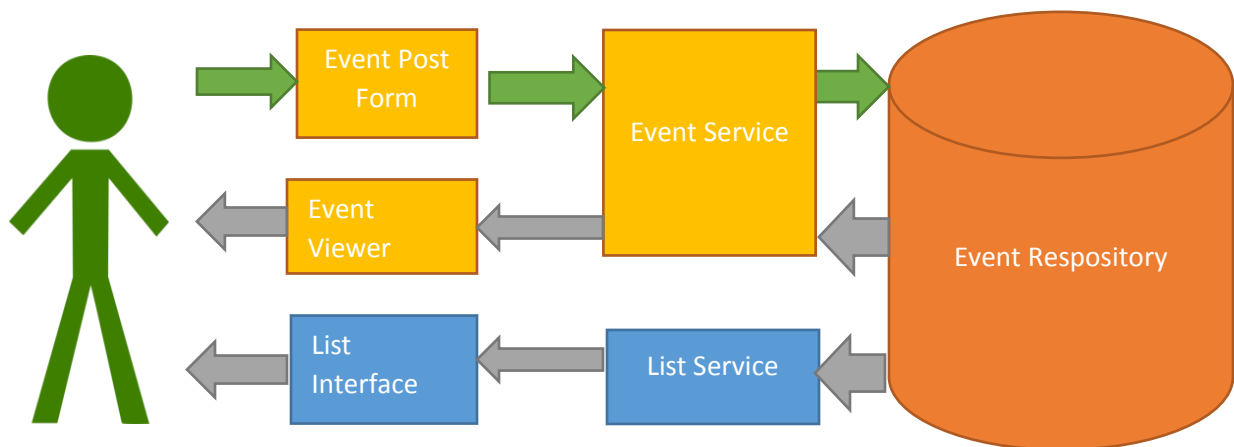
We have analysed problem and separate in two part , list and event. We decide like this because of usage of web application that users should get event's list when they access to interface then they will select what event they want to see.

Though we have function such as load data from database and store data from user to database ,we still keep them in event part because these function have some similar thing that can go along with same service.

## Component & Abstraction

- Event : contain with title, description, poster image destination, post date, due date and author.
- List : contain with array of event's list from ListService.
- EventService : provide service to load and store event detail for user.
- ListService : provide service for user to get ,search or sort list following user's request.

## Application Architecture



## Interface

- Event Post Form : Interface that give users a form to add new their event to database
- Event Viewer : Interface that provide event's detail requested by users
- List Interface : Interface that provide event's list to users

## System

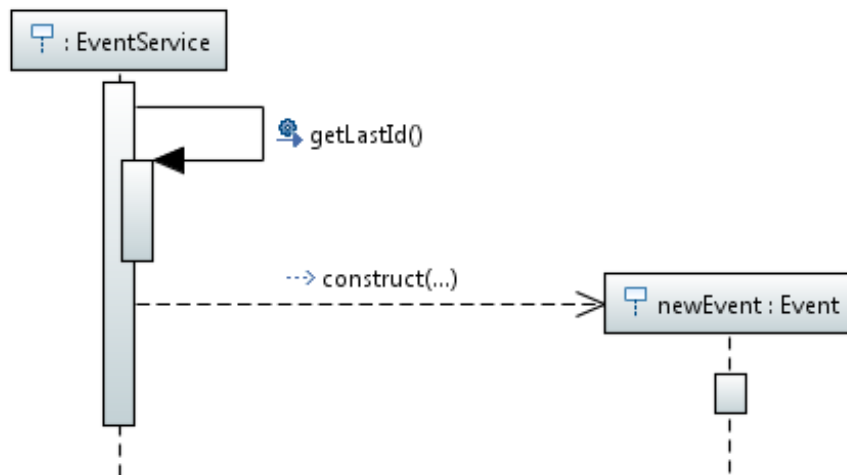
- Event Service : Service that load and store event's detail
- List Service : Service that get data list from Event Respository

## **Subsystems / Components**

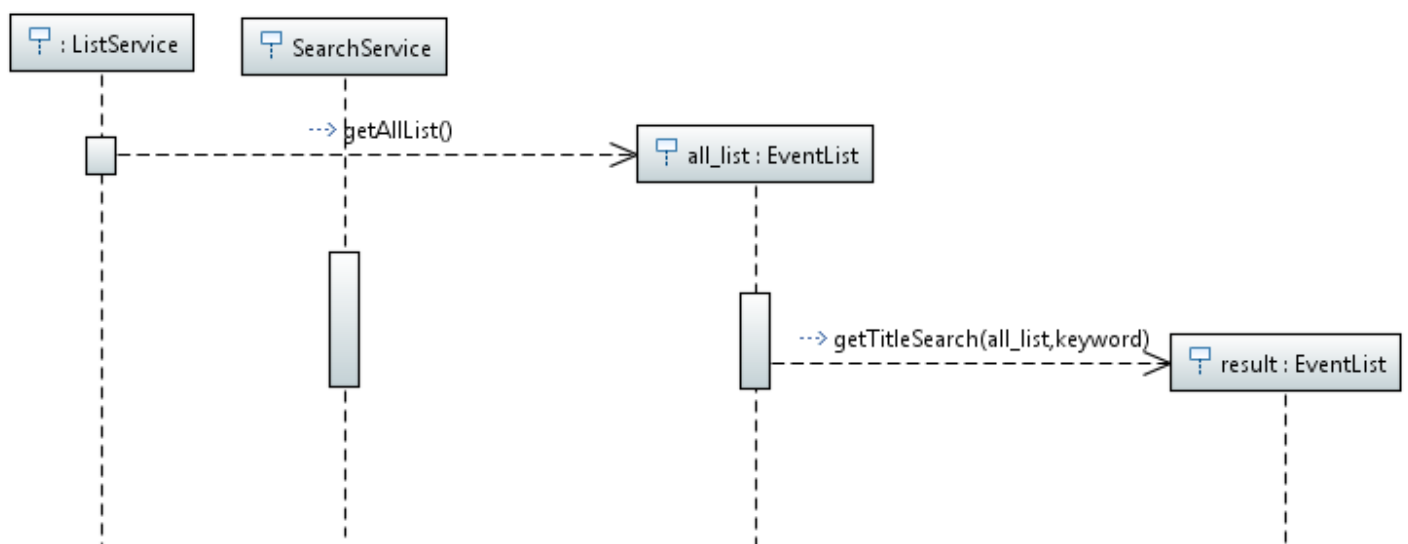
- Event Service
  - Responsibility
    - Save data from form to database
    - Get data from database following request
  - Interaction
    - Keep data from Event Post Form to Event Respository Event Viewer
    - Get data from Event Respository to show on
    - Update data that edited by author
  - Subsystems
    - StoreEvent
    - LoadEvent
    - UpdateEvent
- List Service
  - Responsibility
    - Give data list to users following users's request
  - Interaction
    - Get list from Event Respository
  - Subsystems
    - SearchService
    - SortService

## Sequence diagrams

Case 1 : User submit post form to server.



Case 2 : User search title of Event's list that match to keyword.



## Domain classes

ListService : This class provide function to get all list from database and return EventList object.

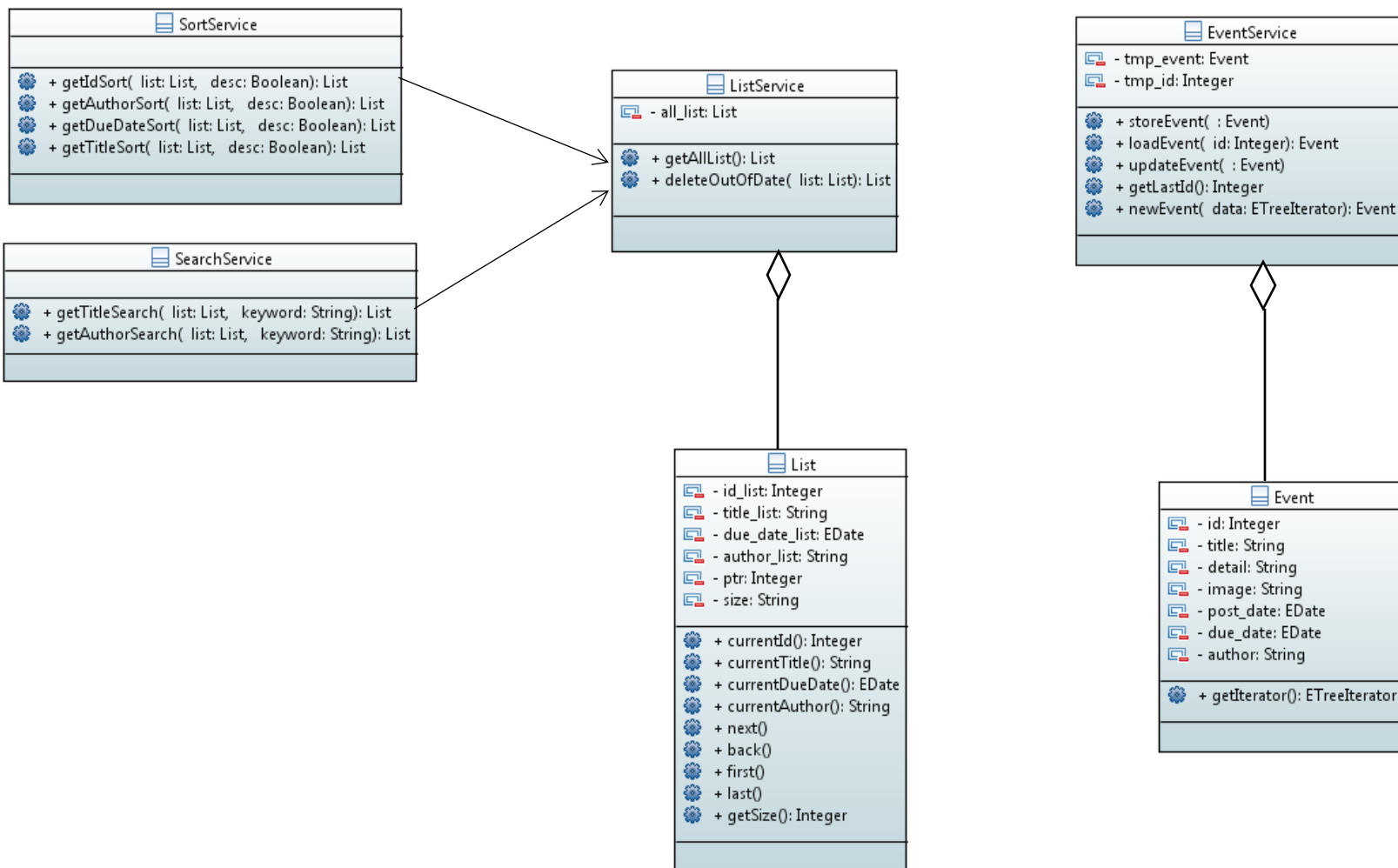
SortService : This class provide function to sort EventList object.

SearchService : This class provide function to return EventList object which content is match to keyword.

List : Class object which represent list in array.

EventService : This class provide function to load and store event's data in database .

Event : Class object that collect all details of one event.



## Deployment

Server : Ubuntu server run on Azure VM

- Web server : Apache + PHP5
- Database : MySQL + phpMyAdmin

Web Application

Back-end : PHP with CodeIgniter framework

Front-end : HTML with javascript,CSS,ajax

## Implementation Plan

TASK	September		October											November	
	27	29	1	7	12	14	15	16	18	20	23	25	1	6	
MODEL															
Implement Event Class															
Implement List Class															
Implement Event Collector Class															
Implementant List,Sort,Search Service Class															
Implement User Class															
Implement Admin Class															
Build Unit Test															
CONTROLLER															
Connect Event List Interface with List Service															
Connect Event Viewer with Event Class															
Connect Post Form with Event Collector															
Build Search and Sort System															
Build Sign Up System															
Build Sign In&Out System															
Connect User Panel with User Class															
Connect Moderator Interface with Admin Class															
VIEW															
Build Event List Interface															
Build Event Viewer															
Build Post Form															
Build User Panel															
Build Moderator Interface															
Other															
Build & Set up VM on Azure															
Install All Program on VM															
Build Integration Test															
Test both unit and Integration															

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