

# CPSC 476: ASSIGNMENT 1

## SHARED EVENTS CALENDAR

CPSC 476 Assignment 1

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### DESCRIPTION

The assignment architecture is Model 2. It is a design pattern used in JEE web application. It is known as Model-View-Controller (MVC) design pattern. The Controller Servlet –EventServlet.java- handles the user's request. intercepts all the incoming requests. EventServlet intercepts all the incoming requests. It receives request that contains action as parameter. Actions in JSP are hidden input field in form or <c:param> in <c:url>. Depend on action value the EventServlet will response by redirect request to View JSPs.

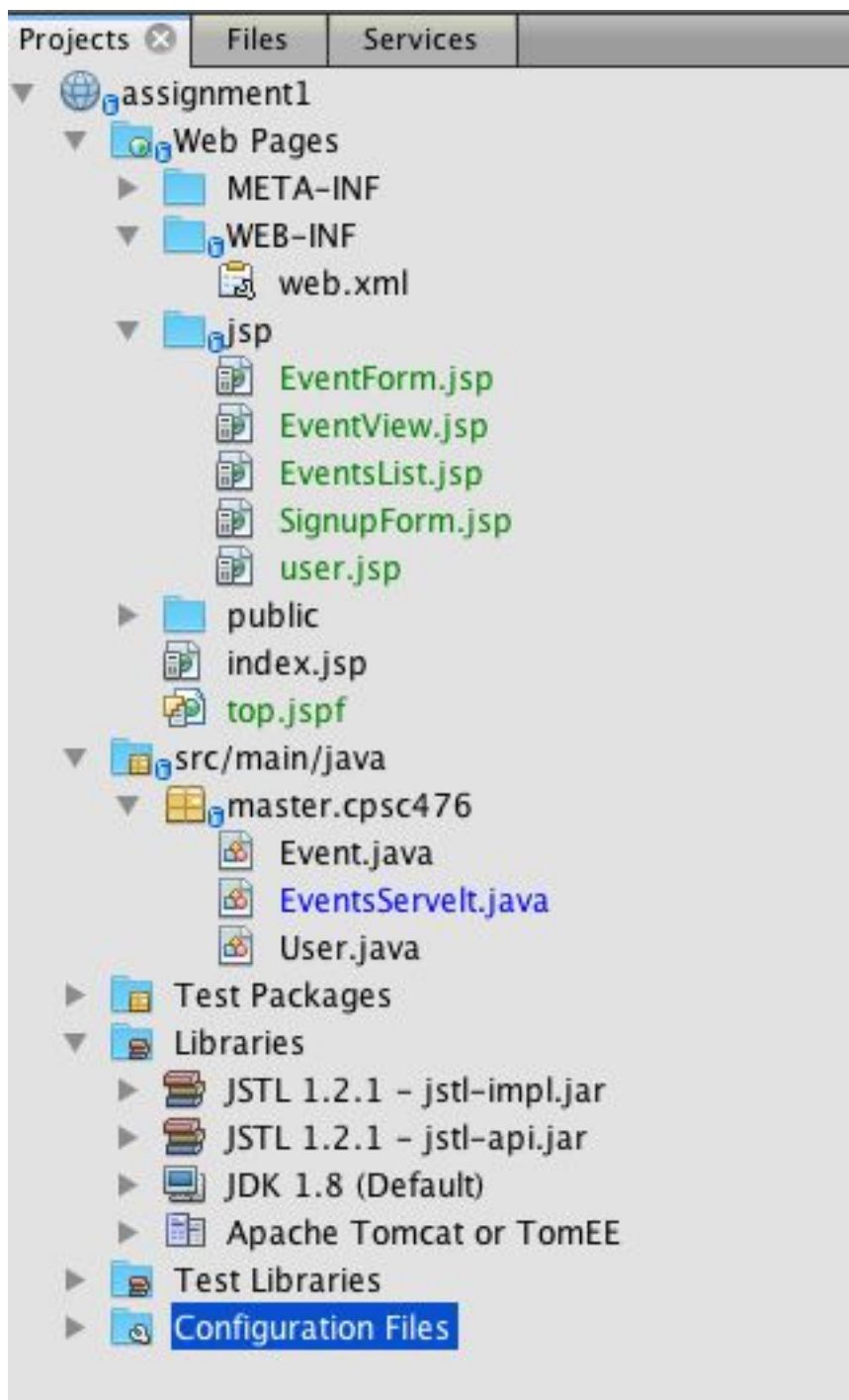
EventServlet-controller- get and puts data in java beans and these beans are then bound to the session or response to be sent to the JSP –view- to display the information. The assignment has two beans: User and Event. To pass variables between EventServlet and JSPs, the assignment use HttpSession and HttpServletRequest depend on scope. Request scope ends when the associated response is finished. The session scope ends when the session has been timed.

JSPs are the view component in this pattern. In that JSP use JSTL and EL to loop through the data in the request scoped bean and build an HTML table with that data. The assignment has the following JSPs:

- /jsp/EventForm.jsp : it represents event creation form.
- /jsp/SignupForm.jsp : it represents sign up form.
- /jsp/EventView.jsp : it represents event detail.
- /jsp/User.jsp : it represents a user information, events list of user interested list, and events list for user created events.
- /jsp/EventsList.jsp : it represents a list of all coming events and map with markers to events location.
- top.jspf : it contains login form, links to sign out, user home, events list.
- index.jsp : it is a welcome page. It forward to /jsp/EventsList.jsp.

The assignment uses HTML 5 and JQuery in representation layer. HTML5 has many new features that rich user interface development such as dateTime-local input type and validation attributes. Also, JQuery library simplify the representation scripting such as selection DOM elements and create plugin.

All javascript files, CSS, and images are located in public folder. I tried to put javascript files in js folder and images in other folder but tomcat not accept any folder other public!.



### Action values are:

- "createEvent" with post method: to create new event. EventServlet read event values from /jsp/EventForm.jsp. Then store in events list in memory, and it also store in user's created events list . It is required login.
- "signup" with get method: to show signup form by redirect to /jsp/SignupForm.jsp.
- "signout" with get method: to logout by remove user bean form HttpSession.
- "create" with get method: to show event create form by redirect to /jsp/EventForm.jsp. It is required login.
- "view" with get method: to show event detail by redirect to /jsp/EventView.jsp. Event Id is passed as parameter. It is required login.
- "userHome" with get method: to show user detail by redirect to /jsp/User.jsp. User Id is passed as parameter. It is required login.
- "likeEvent" with get method: to add event to user interested list. User id and event id are passed as parameters. It is required login.
- "unlikeEvent" with get method: to remove event from user interested list. User id and event id are passed as parameters. It is required login.
- "list" with get method: to show all events list. It is the default action if action value is null. It is not required login.
- "createUser" with post method: to create new user. EventServlet read user values from /jsp/SignupForm.jsp. Then store in users list in memory.
- "signin" with post method: to login process. EventServlet read event user from /jsp/top.jsp, check email id and password in uses list in memory if it match, then store user detail in HttpSession. To searching in users list, using a new lambda expressions that included in Java Platform Standard Edition 8.

## BUILD INSTRUCTIONS

In this assignment, Apache Maven manage the build,package and deploy process. Maven saves developer's effort. I have eight years experience with Ant, but I see the difference with first maven project. It is only one xml file for whole project, and we do not care about library or include, exclude, path...etc.

To packaging and deploying the assignment using Maven, we have to do the following:

- prepare assignment's Project Object Model -pom.xml-.
- update tomcat-users.xml
- for package execute

```
mvn package
```

- or for deploy execute

```
mvn tomcat7:deploy
```

### **Prepare pom.xml:**

1. Add Maven dependencies for servlet and JSTL:

- Servlet

```
<dependency>
```

```
<groupId>javax.servlet</groupId>
```

<artifactId>javax.servlet-api</artifactId>

<version>3.1.0</version>

<scope>provided</scope>

</dependency>

- JavaServer Pages Standard Tag Library (JSTL)

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

## 2. Add Tomcat plugin

<build>

<finalName>assignment1</finalName>

<defaultGoal>tomcat7:deploy</defaultGoal>

<plugins>

<plugin>

```
<groupId>org.apache.tomcat.maven</groupId>
```

```
<artifactId>tomcat7-maven-plugin</artifactId>
```

```
<version>2.2</version>
```

```
<configuration>
```

```
    <update>true</update>
```

```
    <url>http://localhost:8080/manager/text</url>
```

```
    <server>TomcatServer</server>
```

```
    <username>admin</username>
```

```
    <password>password</password>
```

```
</configuration>
```

```
</plugin>
```

```
</plugins>
```

```
</build>
```

### **Update tomcat-users.xml**

1. In tomcat path, open file bin/tomcat-users.xml
2. Change the permission as:

```
<role rolename="manager-gui"/>
```

```
<role rolename="manager"/>
```

```
<role rolename="manager-script"/>
```

```
<role rolename="tomcat"/>
```

```
<role rolename="manager-status"/>
```

```
<role rolename="manager-jmx"/>
```

```
<user password="password"  
roles="manager-script,tomcat,manager,manager-gui,manager-status,manager-jmx"  
username="admin"/>
```



# DEMONSTRATING

Main screen without login contains events list, and top page contains login form and link sign-up link. The title in events list is link to event detail.

←

→

↺

localhost:8080/assignment1/Events?action=list

Welcome Guest

email

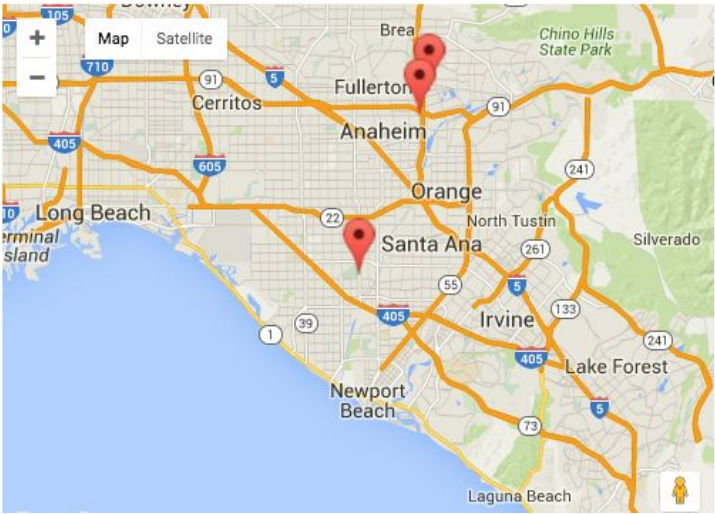
Password

Login

[Signup](#)

Events List

Title	Time	Location
<a href="#">Summit Event Productions</a>	Jan 21,2017 13:00	2627 e la palma ave
<a href="#">Impulse Event Lighting</a>	Dec 01,2016 11:30	516 Cameron St, Placentia
<a href="#">Fun On Wheels</a>	Feb 29,2016 13:00	16801 Euclid Street

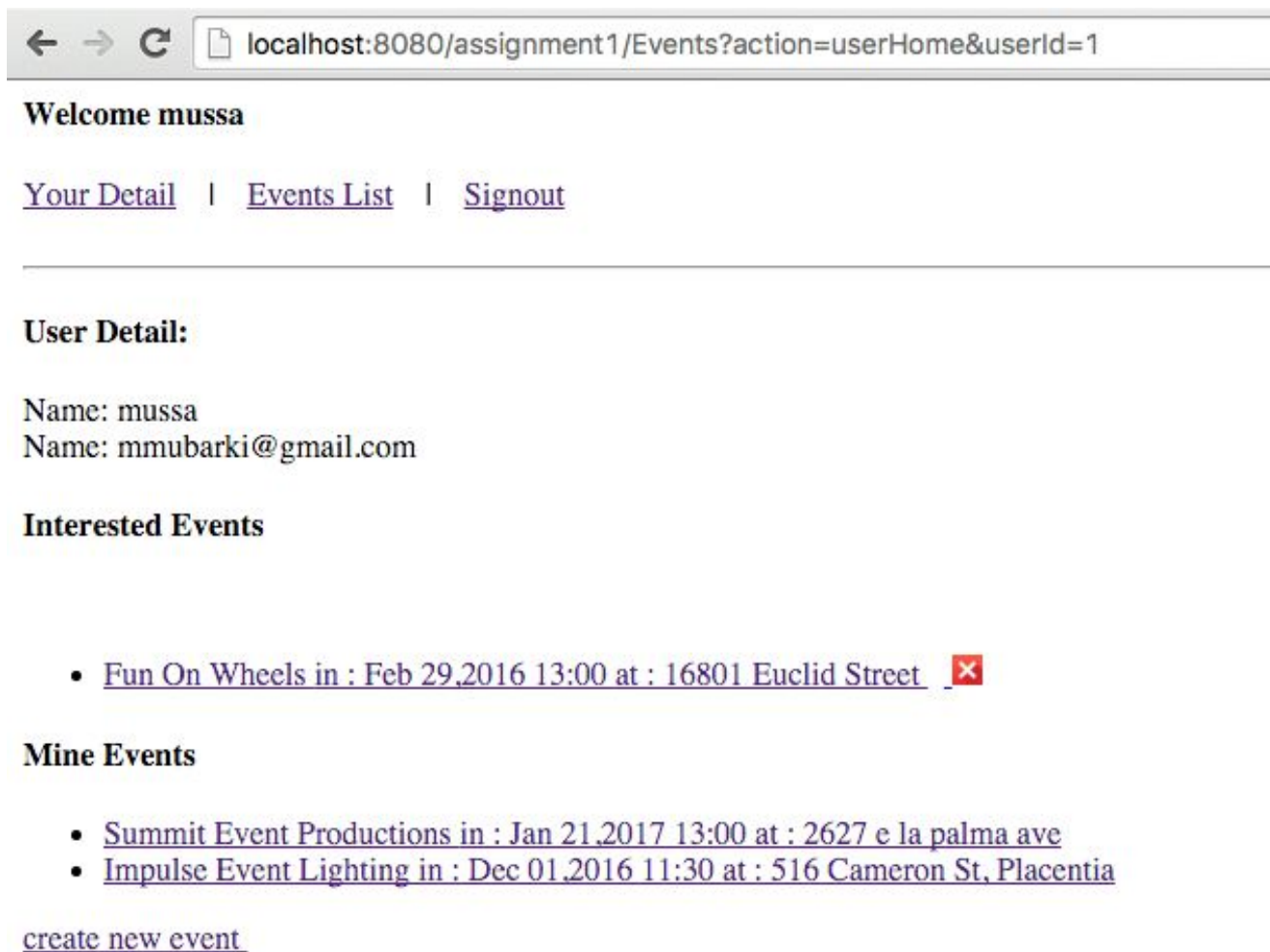


To login: user the following information:

email: [mmubarki@gmail.com](mailto:mmubarki@gmail.com)

password: 123456

After login: servlet forward into user detail screen. It contains user information, user's interested events list, and user created events list. User has option to drop unlike events from interested events list. Also each event has link to its detail.



The screenshot shows a web browser window with the address bar displaying `localhost:8080/assignment1/Events?action=userHome&userId=1`. The page content includes a welcome message for 'mussa', navigation links for 'Your Detail', 'Events List', and 'Signout', a 'User Detail' section with the user's name and email, an 'Interested Events' section with a single event 'Fun On Wheels', a 'Mine Events' section with two events 'Summit Event Productions' and 'Impulse Event Lighting', and a link to 'create new event'.

**Welcome mussa**


[Your Detail](#) | [Events List](#) | [Signout](#)

---

**User Detail:**

Name: mussa  
Name: mmubarki@gmail.com

**Interested Events**

- [Fun On Wheels in : Feb 29,2016 13:00 at : 16801 Euclid Street](#) 

**Mine Events**

- [Summit Event Productions in : Jan 21,2017 13:00 at : 2627 e la palma ave](#)
- [Impulse Event Lighting in : Dec 01,2016 11:30 at : 516 Cameron St, Placentia](#)

[create new event](#)

Main page if login contains event list and link to create new event, and top page contains three links: to user detail page, to events list, and sign-out link.

←

→

↺

localhost:8080/assignment1/Events?action=list

Welcome ali

[Your Detail](#) | [Events List](#) | [Signout](#)

---

Events List

[create event](#)

Title	Time	Location	
<a href="#">Summit Event Productions</a>	Jan 21,2017 13:00	2627 e la palma ave	✓
<a href="#">Impulse Event Lighting</a>	Dec 01,2016 11:30	516 Cameron St, Placentia	✓
<a href="#">Fun On Wheels</a>	Feb 29,2016 13:00	16801 Euclid Street	✓

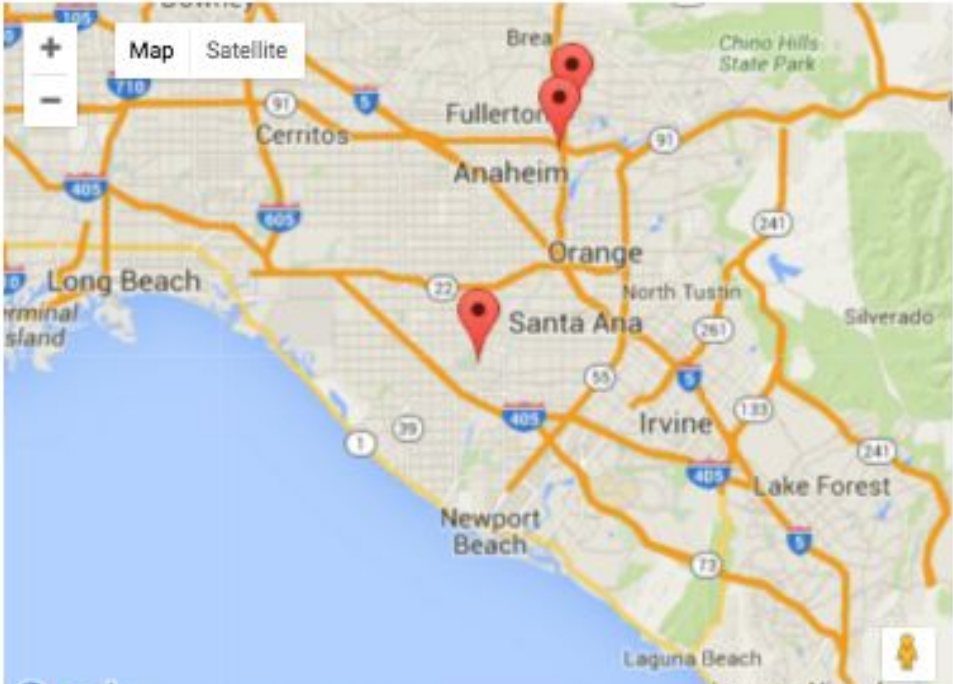
---

+

Map

Satellite

-



Map data ©2016 Google 10 km Terms of Use Report a map error

Event view without login. It contains link to events list.

[←](#) [→](#) [↻](#) [localhost:8080/assignment1/Events?action=view&eventId=1](#)

**Welcome Guest**

email

Email Id

Password

Password

Login

[Signup](#)

---

[Events List](#)

**Event View**

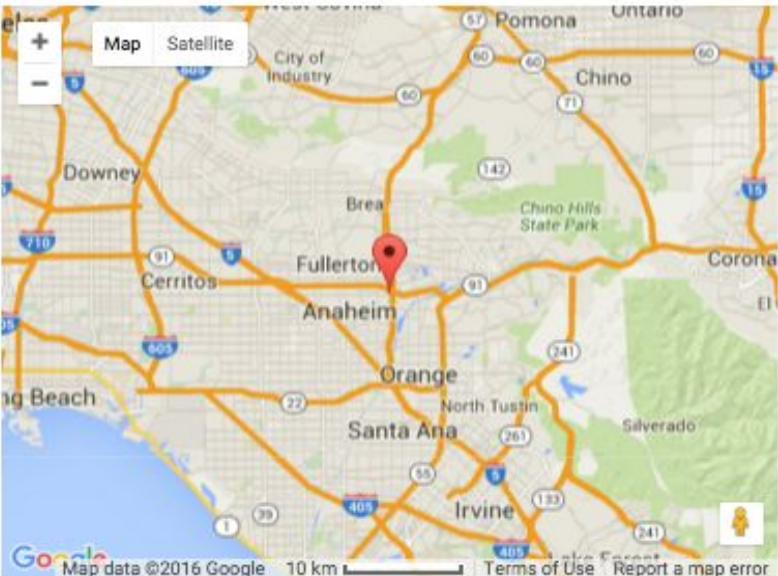
[Title](#)  
Summit Event Productions

[Description](#)  
We are a boutique lighting design production company based in the MD/DC/VA area

[Time](#)  
Jan 21,2017 13:00

[Location](#)  
2627 e la palma ave

---



Map data ©2016 Google 10 km [Terms of Use](#) [Report a map error](#)



Event view if login. It contains link to create event.

[←](#) [→](#) [↻](#) [localhost:8080/assignment1/Events?action=view&eventId=1](#)

**Welcome mussa**

[Your Detail](#) | [Events List](#) | [Signout](#)

---

[create event](#)

## Event View

**Title**  
Summit Event Productions

**Description**  
We are a boutique lighting design production company based in the MD/DC/VA area

**Time**  
Jan 21,2017 13:00

**Location**  
2627 e la palma ave



## Sing-up form with validation

← → ↻ localhost:8080/assignment1/Events?action=signup&email=ali@gmail.com

[Home](#)

### Signup Form

Your Name

email

Password

Confirm

! Please match the requested format.  
length must be six or more

[Cancel](#)

create new event form

[←](#) [→](#) [↻](#) [localhost:8080/assignment1/Events?action=create](#)

**Welcome mussa**

[Your Detail](#) | [Events List](#) | [Signout](#)

---

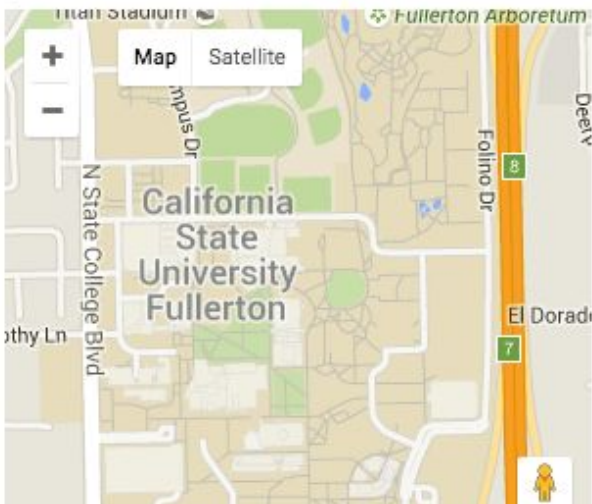
## Create New Event

**Title**

**Description**

**Time**

**Location**  
 [show](#)



In create new event form: uses dateTime-local input type. It is not supported in Firefox and Internet Explorer.

localhost:8080/assignment1/Events?action=create

Welcome ali

[Your Detail](#)

|

[Events List](#)

|

[Signout](#)

---

Create New Event

Title

Event Title

Description

Event Description

Time

mm/dd/yyyy, --:-- --

February 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	1	2	3	4	5

show

N State College Blvd

California State University Fullerton

Folino Dr

El Dorado

Deer

16



Create new event after filled

← → ↻

localhost:8080/assignment1/Events?action=create

Welcome ali

[Your Detail](#) | [Events List](#) | [Signout](#)

---

Create New Event

Title

Fun On Wheels

Description

Fun on Wheels Mobile Recreation Program is a free drop-in program designed to bring recreation and other resources into the neighborhoods for children, ages 5-18. The program offers homework assistance, fitness fun, art enrichment, and resource materials. No registration is needed! All programs

Time

02/29/2016, 01:00 PM

Location

16801 Euclid Street

[show](#)


Create

---

+

-

Map Satellite



Mile Square Regional Park

Heil Ave

Begonia Ave

Lavender Ave

Stonecress Ave

Warner Ave

Sugarloaf St

17

## View event after creation

[←](#) [→](#) [↻](#) [localhost:8080/assignment1/Events?action=view&eventId=3](#) [🔍](#) [☆](#) [📱](#) [☰](#)

Welcome all

[Your Detail](#) | [Events List](#) | [Signout](#)

successfull created event:Fun On Wheels

---

[create event](#)

### Event View


**Title**  
Fun On Wheels

**Description**  
Fun on Wheels Mobile Recreation Program is a free drop-in program designed to bring recreation and other resources into the neighborhoods for children, ages 5-18. The program offers homework assistance, fitness fun, art enrichment, and resource materials. No registration is needed! All programs are closed on holidays and days of inclement weather

**Time**  
Feb 29,2016 13:00

**Location**  
16801 Euclid Street

---

A map of the Santa Ana, California area. The map shows major highways including I-5, I-405, SR-91, SR-241, and SR-125. Cities and towns labeled include Brea, Fullerton, Anaheim, Orange, Santa Ana, North Tustin, Irvine, Lake Forest, Newport Beach, Long Beach, and Cerritos. A red pin is located in the Santa Ana area, near the intersection of I-5 and SR-241. The map also shows Chino Hills State Park and Silverado. The map interface includes a zoom control on the left and tabs for 'Map' and 'Satellite' at the top left.

Add event into interested list

localhost:8080/assignment1/Events?action=list

Welcome ali

Your Detail

|

Events List

|

Signout

event:Impulse Event Lighting added to interested list

Events List





create event

Title	Time	Location	
<a href="#">Summit Event Productions</a>	Jan 21,2017 13:00	2627 e la palma ave	✓
<a href="#">Impulse Event Lighting</a>	Dec 01,2016 11:30	516 Cameron St, Placentia	
<a href="#">Fun On Wheels</a>	Feb 29,2016 13:00	16801 Euclid Street	✓

MapSatellite

Map data ©2016 Google10 kmTerms of UseReport a map error

Drop event from interested list

 <localhost:8080/assignment1/Events?action=userHome&userId=2>

---

**Welcome ali**

[Your Detail](#) | [Events List](#) | [Signout](#)

event:Impulse Event Lighting removed from interested list

---

**User Detail:**

Name: ali  
Name: ali@gmail.com

**Interested Events**

You are not select any events

**Mine Events**

- [Fun On Wheels in : Feb 29,2016 13:00 at : 16801 Euclid Street](#)

[create new event](#)