

**SWE 574 Software Development Practice, Spring 2015**  
**Instructor: Suzan Üsküdarlı**

**Project Timeout**  
**Software Product Manual**

**Revision 1.0**  
**23.05.2015**

**By Team Timeout**

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## Revision History

Revision	Date	Explanation
1.0	23.05.2015	Initial software product manual

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## 1. Introduction

The purpose of this software product manual is to document the implementation, testing, installation and operation of Timeout application as a software product.

Timeout Application is implemented and tested as it is described in Timeout Application Design Specification Document, Revision 2.0, satisfying the requirements in Timeout Application Requirements Specification Document, Revision 2.0, Implementation, testing and operation details are given in the following sections of this document.

## 2. Implementation

### 2.1. Source Code and Executable Organization

The source code can be downloaded from the link below.

<https://code.google.com/p/swe574-timeout-project/source/browse/#git>

See Section on Appendix A of this document regarding source code package and class details.

### 2.2. Software Tools

- Eclipse Java EE IDE for Web Developers, IntelliJ IDEA and Android Studio frameworks are used for development and testing.
- Java compiler is used as compiler.
- MAMP Version 3.2.1, Apache Tomcat are used for Apache Server and MySQL Server.
- MySQL Workbench is used for database part.
- Sublime editor is used for coding .css, .html and JavaScript.

### 2.3. Platform

- **System software**  
Operating system: Google Cloud Compute Engine Linux VM
- **Database**  
Version: MySQL 5.5  
Region: United States  
File System Replication: Asynchronous  
Tier: D32
- **Integrated development environments**  
Name: Eclipse IDE for Java Developers  
Version: Luna Service Release 2 (4.4.2)  
  
Name: IntelliJ IDEA  
Version: 14.1.3  
  
Name: Android Studio  
Version: 1.2

### 3. Testing

Application should be launched in Firefox 30+, Chrome version 35+, Internet Explorer 9 and 10.

The following functions have been implemented according to the RSD and DSD and have been tested sufficiently and operating correctly.

- Register
- Login
- Create Group
- Edit Group
- Create Event
- Edit Event
- Edit Profile
- Add Comment
- Semantic Search
- Event Recommendation
- Group Recommendation
- User Recommendation
- News Feed
- Logout

The following functions have been implemented according to the most recent RSD and DSD but have not been tested sufficiently and not operating correctly.

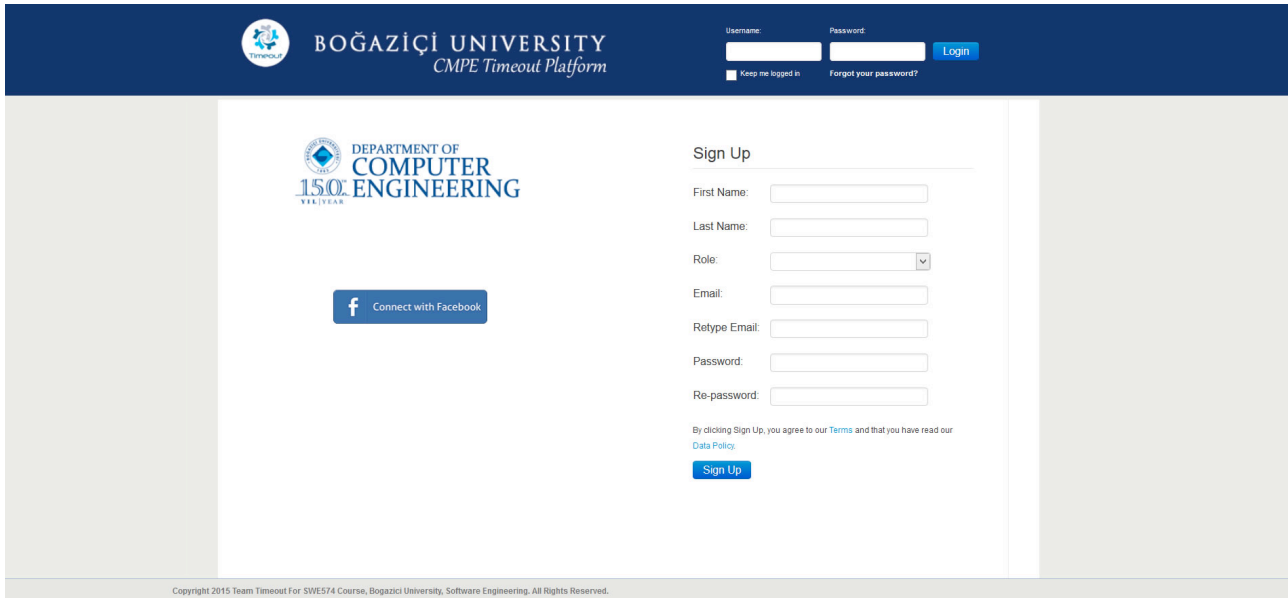
- Create Custom Type
- Create Post
- Edit Post
- Edit Custom Type

The following functions have not been implemented at all.

- Delete Event
- Delete Comment
- Edit Comment

## 4. Application Installation, Configuration and Operation

The following snapshots are user interfaces of timeout application.



The main page of the CMPE Timeout Platform features a dark blue header with the Boğaziçi University logo and name. Below the header, there is a login section with fields for Username and Password, a Login button, and links for 'Keep me logged in' and 'Forgot your password?'. The main content area is divided into two sections: on the left, the Department of Computer Engineering logo and a 'Connect with Facebook' button; on the right, a 'Sign Up' form with fields for First Name, Last Name, Role (a dropdown menu), Email, Retype Email, Password, and Re-password. Below the form, there is a disclaimer about terms and data policy, and a 'Sign Up' button. The footer contains copyright information for the SWE574 Course.

BOĞAZIÇI UNIVERSITY  
CMPE Timeout Platform

Username: Password: Login

Keep me logged in Forgot your password?

DEPARTMENT OF  
COMPUTER  
ENGINEERING  
150<sup>TH</sup> YEAR

Connect with Facebook

Sign Up

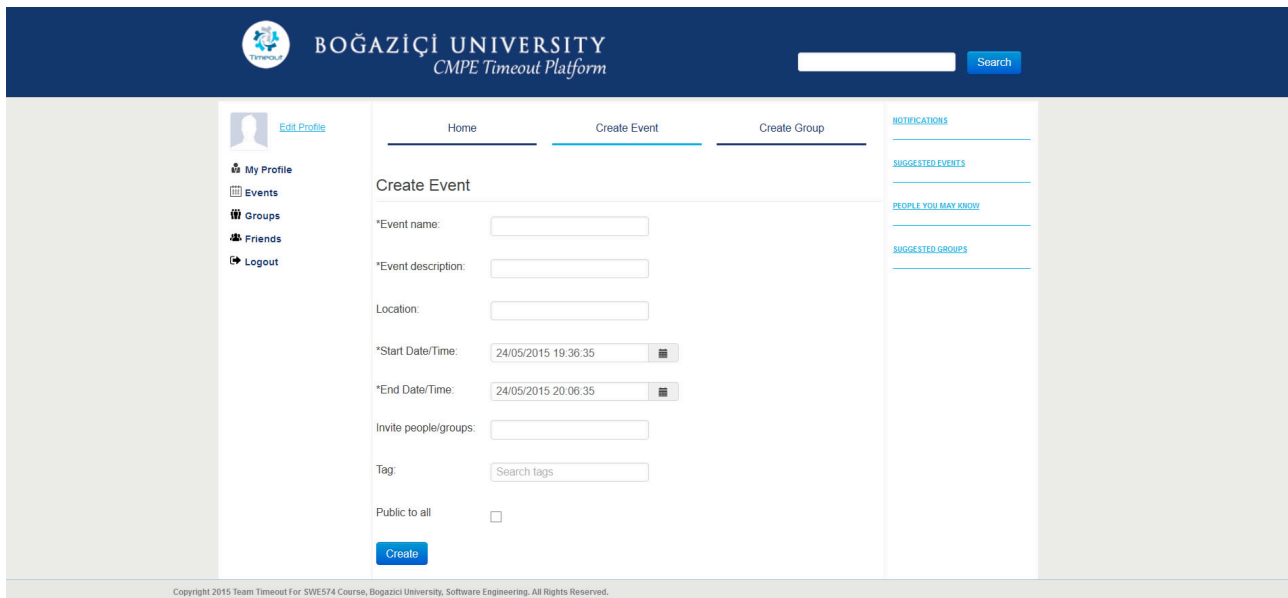
First Name: Last Name: Role: Email: Retype Email: Password: Re-password:

By clicking Sign Up, you agree to our [Terms](#) and that you have read our [Data Policy](#).

Sign Up

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Figure 2: Main Page



The 'Create Event' page has a dark blue header with the Boğaziçi University logo and name. Below the header, there is a search bar and a 'Search' button. The main content area is divided into three sections: on the left, a sidebar with links for 'My Profile', 'Events', 'Groups', 'Friends', and 'Logout'; in the center, the 'Create Event' form with fields for Event name, Event description, Location, Start Date/Time, End Date/Time, Invite people/groups, Tag, and a 'Public to all' checkbox; on the right, a sidebar with links for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'. The footer contains copyright information for the SWE574 Course.

BOĞAZIÇI UNIVERSITY  
CMPE Timeout Platform

Search

My Profile Edit Profile

Events

Groups

Friends

Logout

Home Create Event Create Group

Create Event

\*Event name: \*Event description: Location: \*Start Date/Time: 24/05/2015 19:36:35 \*End Date/Time: 24/05/2015 20:06:35 Invite people/groups: Tag: Search tags Public to all

Create

NOTIFICATIONS


SUGGESTED EVENTS

PEOPLE YOU MAY KNOW


SUGGESTED GROUPS

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Figure 3: Create Event Page



BOĞAZİÇİ UNIVERSITY  
CMPE Timeout Platform


[Edit Profile](#)

My Profile  
Events  
Groups  
Friends  
Logout

Home
Create Event
Create Group

### Create Event

\*Event name:

\*Event description:

Location:

\*Start Date/Time: 

<

May 2015

>

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	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	30
31	1	2	3	4	5	6

⊙

\*End Date/Time:

Invite people/groups:

Tag:

Public to all ☐

NOTIFICATIONS


SUGGESTED EVENTS

PEOPLE YOU MAY KNOW


SUGGESTED GROUPS

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Figure 4: Create Event Page with Date Picker



BOĞAZİÇİ UNIVERSITY  
CMPE Timeout Platform


[Edit Profile](#)

My Profile  
Events  
Groups  
Friends  
Logout

Home
Create Event
Create Group

### Create Event

\*Event name:

\*Event description:

Location:

\*Start Date/Time: 

⊙

⏮

⏪

⏩

⏭

19

:

36

:

35

⏴

⏵

\*End Date/Time:

Invite people/groups:

Tag:

Public to all ☐

NOTIFICATIONS

SUGGESTED EVENTS


PEOPLE YOU MAY KNOW


SUGGESTED GROUPS

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Figure 5: Create Event Page with Time Picker

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**BOĞAZİÇİ UNIVERSITY**  
CMPE Timeout Platform



Münever Calayır  
[Edit Profile](#)

My Profile  
Events  
Groups  
Friends  
Logout

Home
Create Event
Create Group

### Edit profile

First name:

Last name:

Email:

Password:

Photo: [Upload Photo](#)

GSM:

Address:

Birthdate: 

May 2015

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	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	30
31	1	2	3	4	5	6

About me:

Interests:

Gender:

You have selected  
Languages:


Turkish  
English  
French  
German


You have selected:

NOTIFICATIONS  
SUGGESTED EVENTS  
PEOPLE YOU MAY KNOW  
SUGGESTED GROUPS

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Figure 6: Edit Profile Page


**BOĞAZİÇİ UNIVERSITY**  
CMPE Timeout Platform



[Edit Profile](#)

My Profile  
Events  
Groups  
Friends  
Logout

Home
Create Event
Create Group

Upload photo

GSM:

Address:

Birthdate:

About me:

NOTIFICATIONS  
SUGGESTED EVENTS  
PEOPLE YOU MAY KNOW  
SUGGESTED GROUPS

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Figure 7: Edit Profile Page Photo Upload Window



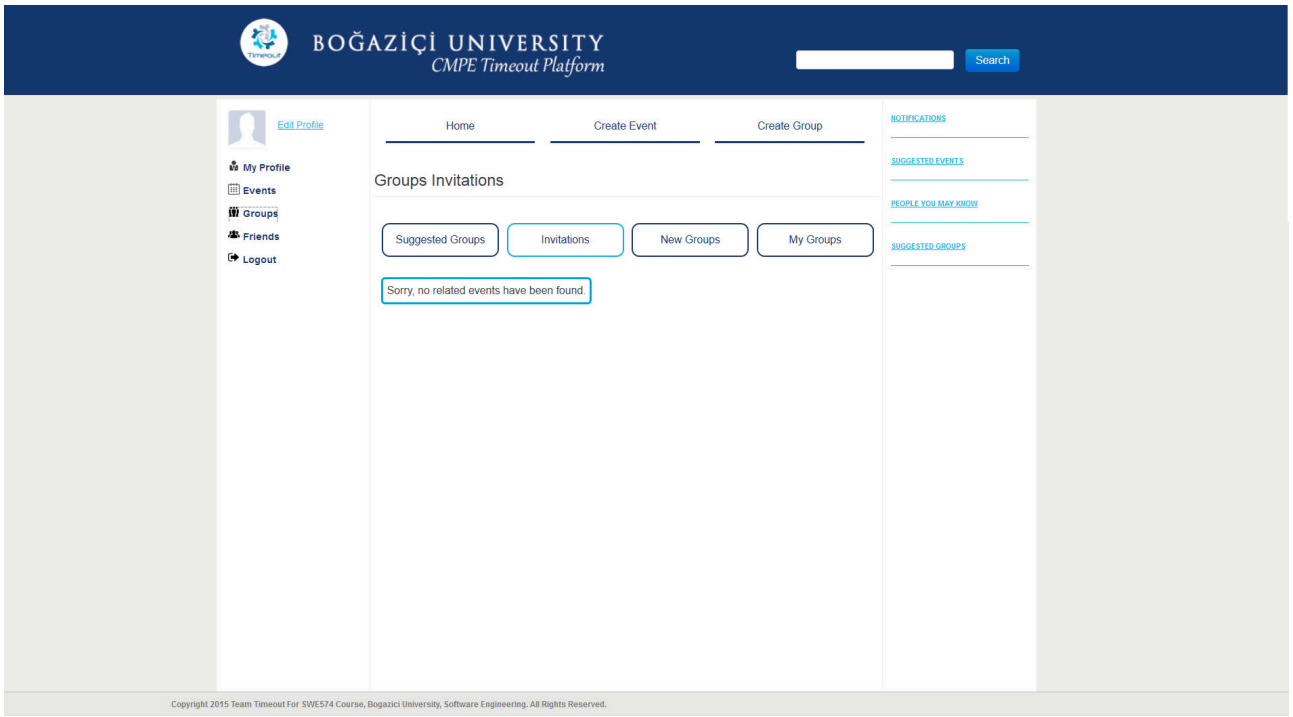


Figure 8: Group Invitation Page

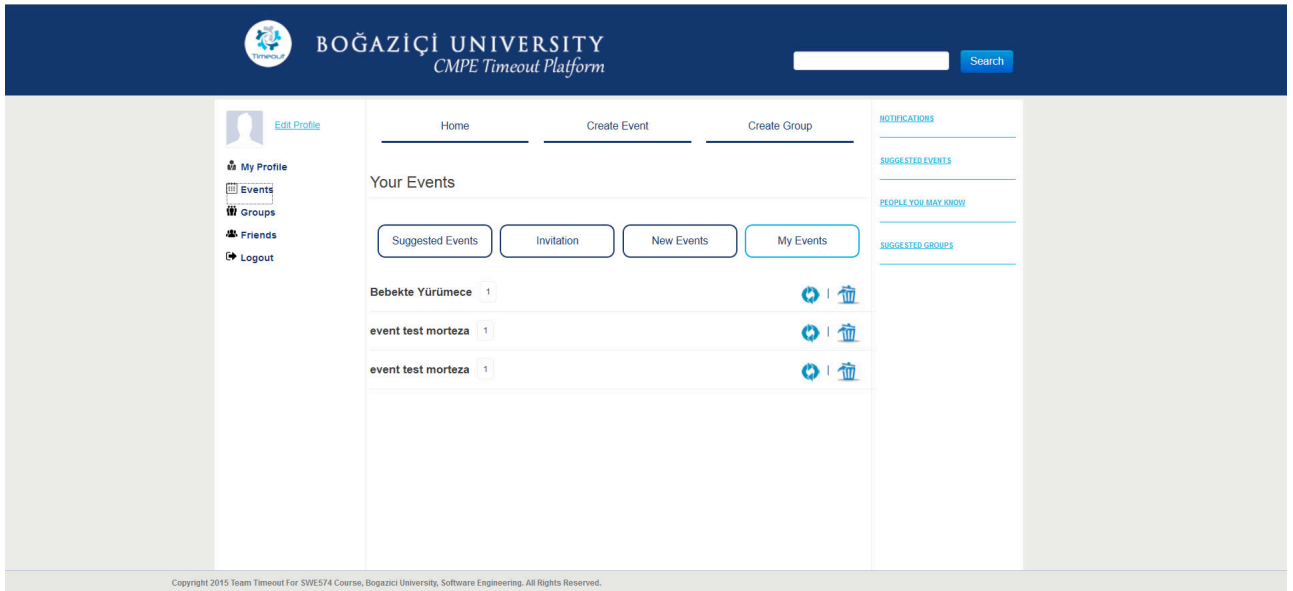


Figure 9: My Events Page

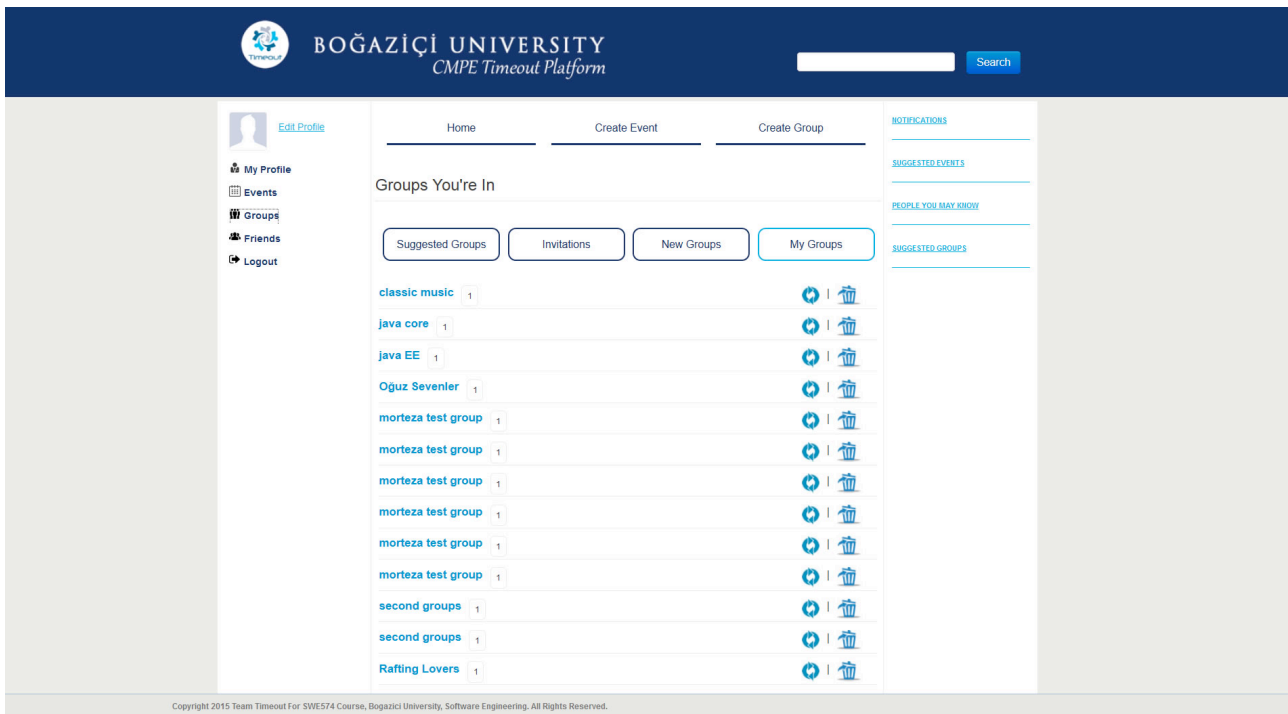


Figure 10: My Groups Page

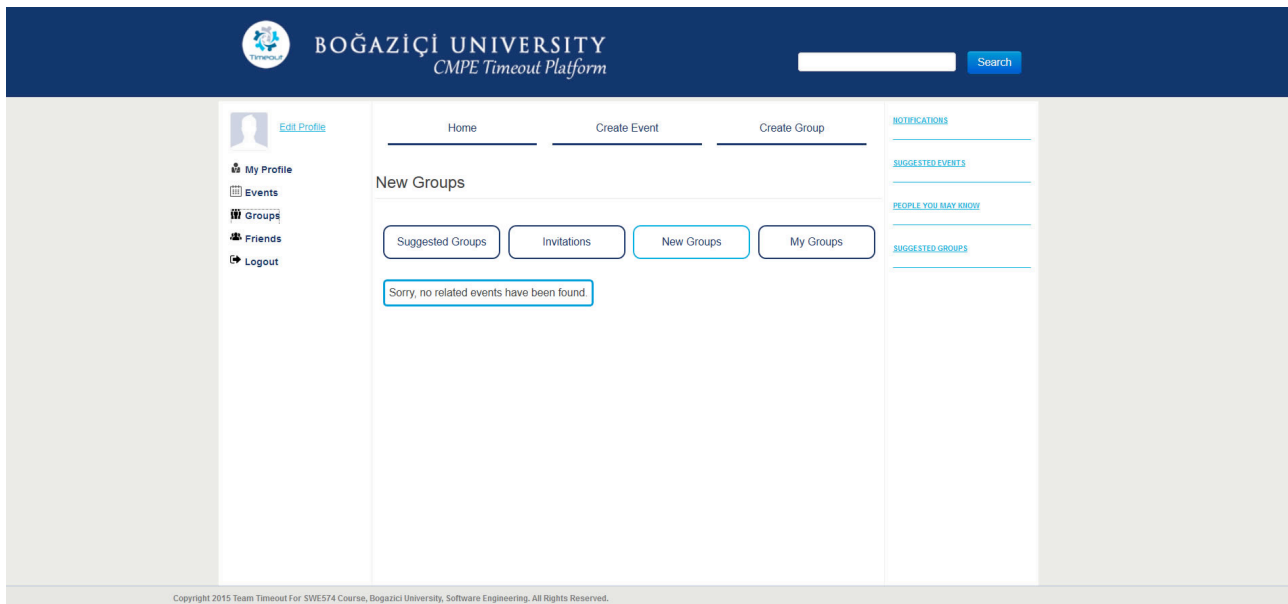


Figure 11: New Groups Page

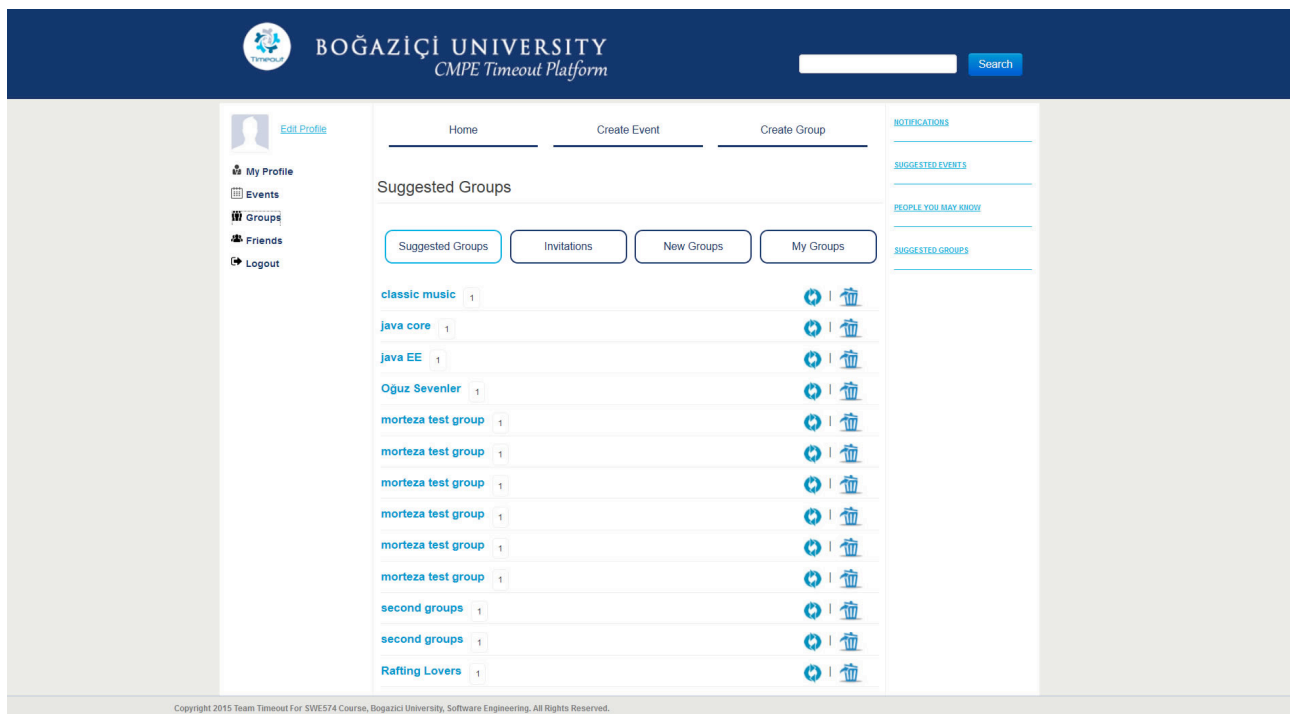


Figure 12: Suggested Groups Page

## Installation & Configuration:

In order to configure Google Cloud Platform,

1. Log in to your Google Account.
2. Go to your console <https://console.developers.google.com/>
3. Create a new Project with a Project ID and enable billing for your project.
4. Go to Cloud SQL under Storage menu.
5. Create a new instance with an Instance ID.
6. Authorize your app with assigning Project ID to Authorized App Engine applications.
7. In access control, create new user with Username: root and Password: password
8. Create a new database with following properties; Name: "demo", Character Set: utf8, Collation: utf8\_general\_ci

In order to configure the project in local environment and deploy it to Google Cloud,

1. Maven, JDK and MySQL 5.5 should be installed in your computer.
2. In MySQL, create a new user; Username: root and Password: password
3. Create a new database with following properties; Name: "demo", Character Set: utf8, Collation: utf8\_general\_ci
4. Clone project in your local directory.
5. Open appengine-web.xml file under src/main/webapp/WEB-INF directory and modify <application> with your Project ID
6. Open DBUtility under src/main/java/common and modify javax.persistence.jdbc.url with jdbc:google:mysql://your-project-id:your-instance-name/demo?user=root
7. In pom.xml properties section modify <cloudsql.url> with jdbc:google:mysql://your-project-id:your-instance-name/demo?user=root
8. Dir to /project\_folder/TimeoutBackend/TimeoutBackend
9. Run 'mvn clean install' command to build project
10. Run 'mvn gae:deploy' to deploy your project to Google Cloud

11. Google Account username and password will be prompted.
12. Application is up and running in cloud.
13. Test the cloud server with sending a REST request to <http://your-project-id.appspot.com/test>

In order to configure the Timeout Frontend,

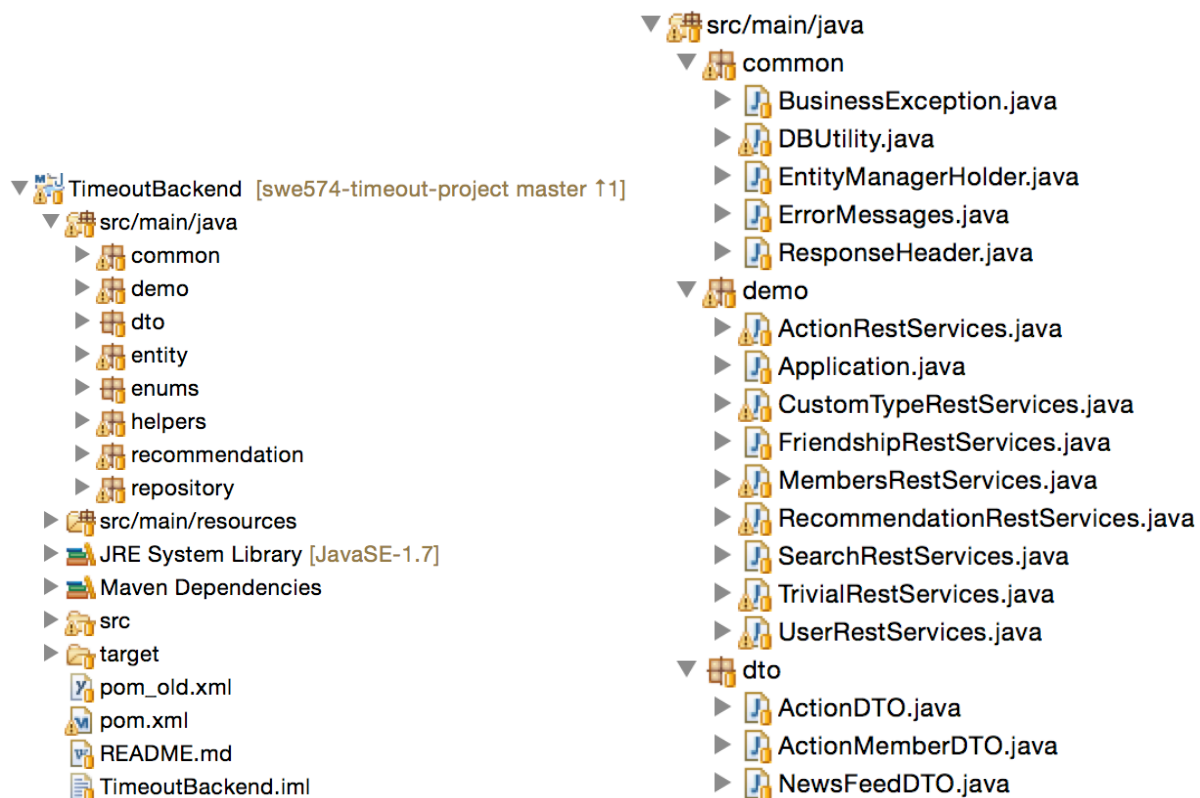
1. Open spa.js under TimeoutFrontEnd/public/spa.js directory and modify var backendUrl with <http://your-project-id.appspot.com/>
2. Upload public folder under TimeoutFrontEnd directory to any hosting service.












































## References

1. GroupTimeout-ProjectTimeout-RSD-2015-05-23-Rev-2.0.docx
2. GroupTimeout-ProjectTimeout-DSD-2015-05-23-Rev-2.0.docx
3. Bennett, McRobb, Farmer, Object Oriented Systems Analysis and Design Using UML, McGraw-Hill, 2010, 4th Edition.

## Appendices

### Appendix A: Source Code and Executable Delivery



- ▼  entity
  - ▶  Action.java
  - ▶  ActionInvitation.java
  - ▶  ActionRecommendation.java
  - ▶  ActionTag.java
  - ▶  ActionUser.java
  - ▶  Attribute.java
  - ▶  AttributeValue.java
  - ▶  Comment.java
  - ▶  CustomType.java
  - ▶  Event.java
  - ▶  Friendship.java
  - ▶  Greeting.java
  - ▶  Group.java
  - ▶  Location.java
  - ▶  Notification.java
  - ▶  Post.java
  - ▶  Role.java
  - ▶  Session.java
  - ▶  Tag.java
  - ▶  User.java
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  - ▶  UserCommInfo.java
  - ▶  UserExtraInfo.java
  - ▶  UserRecommendation.java
  - ▶  UserTag.java
- ▼  enums
  - ▶  ActionType.java
  - ▶  ActionUserStatus.java
  - ▶  FeedType.java
  - ▶  FriendshipStatus.java
  - ▶  PrivacyType.java
- ▼  helpers
  - ▶  ServiceHelper.java
  - ▶  ValidationHelper.java
- ▼  recommendation
  - ▶  RecommendationEngine.java
- ▼  repository
  - ▶  ActionRepository.java
  - ▶  CustomTypeRepository.java
  - ▶  FriendshipRepository.java
  - ▶  MembersRepository.java
  - ▶  UserRepository.java