

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

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

**Revision 1.0**  
**23.05.2015**

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## **Revision History**

<b>Revision</b>	<b>Date</b>	<b>Explanation</b>
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.

This screenshot shows the main login and sign-up page for the BOGAZICI UNIVERSITY CMPE Timeout Platform. At the top, there is a logo for the Department of Computer Engineering, 150th Year. Below the logo, there is a "Sign Up" form with fields for First Name, Last Name, Role (a dropdown menu), Email, Retype Email, Password, and Re-password. There is also a "Connect with Facebook" button. At the bottom of the page, there is a copyright notice: "Copyright 2015 Team Timeout For SWE574 Course, Bogazici University, Software Engineering. All Rights Reserved."

Figure 1: Main Page

This screenshot shows the "Create Event" page. On the left, there is a sidebar with links for My Profile, Events, Groups, Friends, and Logout. The main content area has tabs for Home, Create Event (which is selected), and Create Group. The "Create Event" form includes fields for Event name, Event description, Location, Start Date/Time (set to 24/05/2015 19:36:35), End Date/Time (set to 24/05/2015 20:06:35), Invite people/groups, Tag, and Public to all (with an unchecked checkbox). To the right of the form, there are sections for Notifications, Suggested Events, People You May Know, and Suggested Groups. At the bottom, there is a copyright notice: "Copyright 2015 Team Timeout For SWE574 Course, Bogazici University, Software Engineering. All Rights Reserved."

Figure 2: Create Event Page

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CMPE Timeout Platform

The screenshot shows the 'Create Event' page. On the left, there's a sidebar with profile links: 'Edit Profile', 'My Profile', 'Events', 'Groups', 'Friends', and 'Logout'. The main area has tabs for 'Home', 'Create Event' (which is active), and 'Create Group'. The 'Create Event' form includes fields for 'Event name', 'Event description', 'Location', 'Start Date/Time' (set to 24/05/2015 19:36:35), 'End Date/Time' (set to 24/05/2015 20:06:35), 'Invite people/groups', 'Tag' (with a search bar), and 'Public to all' (unchecked). A date picker modal is open over the end date field, showing the month of May 2015. The day 24 is highlighted in blue. The right side features sections for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'.

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Figure 3: Create Event Page with Date Picker

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CMPE Timeout Platform

This screenshot is identical to Figure 3, showing the 'Create Event' page with a date picker. However, the time picker is now open over the start date field. It displays a 24-hour format with hours from 19 to 35 and minutes from 30 to 59. The hour 19 and minute 36 are highlighted in blue. The rest of the interface, including the sidebar and other form fields, remains the same.

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Figure 4: Create Event Page with Time Picker



**BOĞAZİÇİ UNIVERSITY**  
CMPE Timeout Platform

Search


[Edit Profile](#)  
[My Profile](#)  
[Events](#)  
[Groups](#)  
[Friends](#)  
[Logout](#)

- [Home](#)
- [Create Event](#)
- [Create Group](#)

**Create Group**

Group name:

Group description:

Invite people/groups:

Tag:  Search tags

Public to all

[Create](#)

**NOTIFICATIONS**

---

**SUGGESTED EVENTS**

---

**PEOPLE YOU MAY KNOW**

---

**SUGGESTED GROUPS**

---

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**Figure 5: Create Group Page**



**BOĞAZİÇİ UNIVERSITY**  
CMPE Timeout Platform

Search



Münevver 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:

Birthday:  

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:

You have selected:

[Submit](#) [Reset](#)

**NOTIFICATIONS**

---

**SUGGESTED EVENTS**

---

**PEOPLE YOU MAY KNOW**

---

**SUGGESTED GROUPS**

---

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**Figure 6: Edit Profile Page**

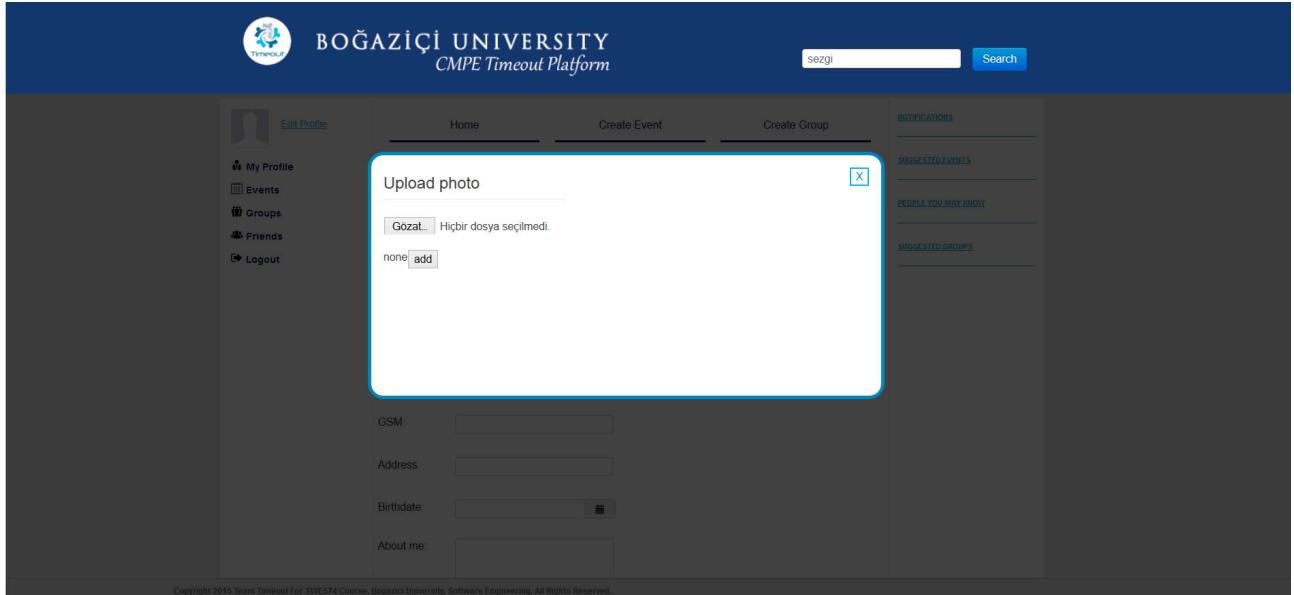


Figure 7: Edit Profile Page Photo Upload Window

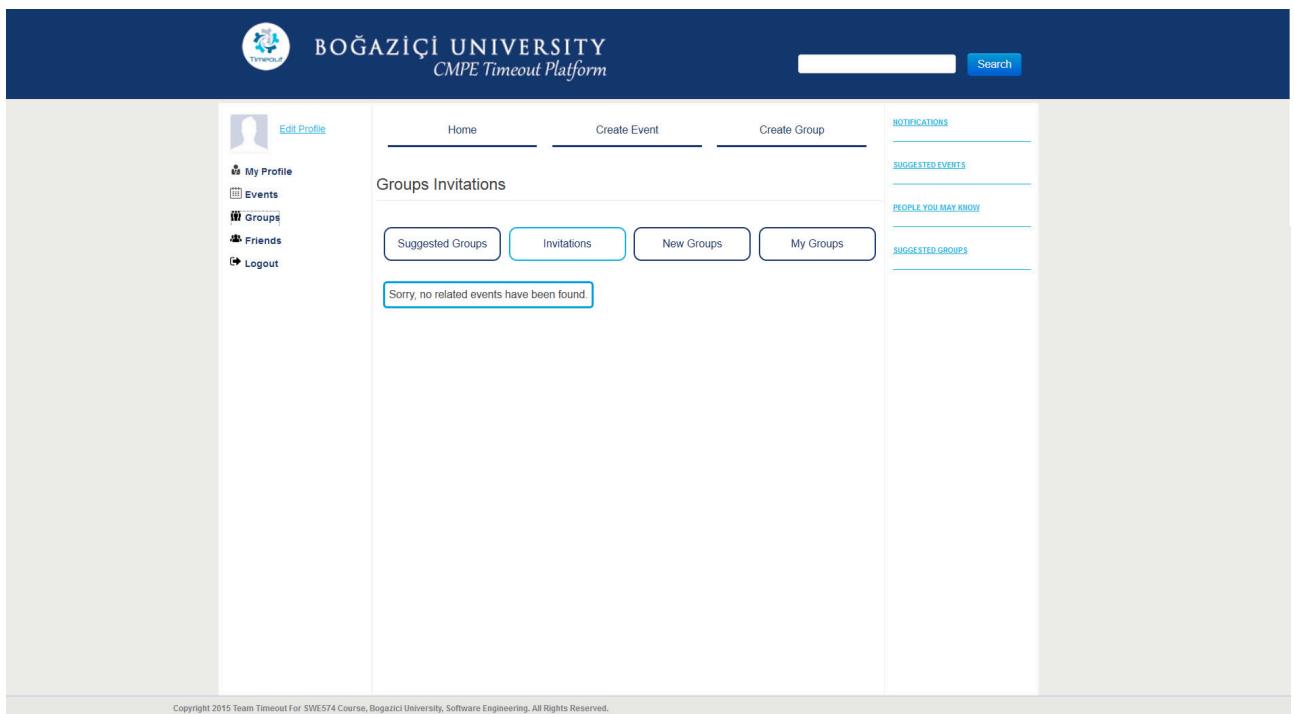


Figure 8: Group Invitation Page

The screenshot shows the 'My Events' section of the platform. On the left sidebar, there are links for 'Edit Profile', 'My Profile', 'Events', 'Groups', 'Friends', and 'Logout'. The main content area has tabs for 'Home', 'Create Event', and 'Create Group'. Below these tabs, under 'Your Events', there are four cards: 'Bebekte Yürümeyece' (1 event), 'event test morteza' (1 event), and 'event test morteza' (1 event). Each card includes a delete icon. To the right, there are sections for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'. At the bottom, a copyright notice reads: 'Copyright 2015 Team Timeout For SWE574 Course, Bogazici University, Software Engineering. All Rights Reserved.'

Figure 9: My Events Page

The screenshot shows the 'New Events' section. The left sidebar and top navigation are identical to Figure 9. The main content area has tabs for 'Home', 'Create Event', and 'Create Group'. Below these tabs, under 'New Events', there is a single button labeled 'Sorry, no related events have been found'. To the right, there are sections for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'. At the bottom, a copyright notice reads: 'Copyright 2015 Team Timeout For SWE574 Course, Bogazici University, Software Engineering. All Rights Reserved.'

Figure 10: New Events Page

The screenshot shows the 'My Groups' section of the platform. On the left sidebar, there are links for 'Edit Profile', 'My Profile', 'Events', 'Groups', 'Friends', and 'Logout'. The main content area has tabs for 'Home', 'Create Event', and 'Create Group', with 'Create Event' being the active tab. Below these tabs is a section titled 'Groups You're In' containing a list of groups. The groups listed are: 'classic music' (1 member), 'java core' (1 member), 'java EE' (1 member), 'Oguz Sevenler' (1 member), 'morteza test group' (1 member), 'morteza test group' (1 member), 'morteza test group' (1 member), 'morteza test group' (1 member), 'morteza test group' (1 member), 'morteza test group' (1 member), 'second groups' (1 member), 'second groups' (1 member), and 'Rafting Lovers' (1 member). To the right of the group list, there is a column of icons representing various group categories. The right sidebar contains sections for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'.

Figure 11: My Groups Page

The screenshot shows the 'New Groups' section of the platform. The left sidebar is identical to Figure 11. The main content area has tabs for 'Home', 'Create Event', and 'Create Group', with 'Create Group' being the active tab. Below these tabs is a section titled 'New Groups' containing a list of groups. The groups listed are: 'Suggested Groups', 'Invitations', 'New Groups' (which is highlighted in blue), and 'My Groups'. Below this list is a message: 'Sorry, no related events have been found.' The right sidebar contains sections for 'NOTIFICATIONS', 'SUGGESTED EVENTS', 'PEOPLE YOU MAY KNOW', and 'SUGGESTED GROUPS'.

Figure 12: New Groups Page

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CMPE Timeout Platform

Suggested Groups

- Suggested Groups
- Invitations
- New Groups
- My Groups

Group Name	Count	Action Buttons
classic music	1	[trash]
java core	1	[trash]
java EE	1	[trash]
Oguz Sevenler	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
morteza test group	1	[trash]
second groups	1	[trash]
second groups	1	[trash]
Rafting Lovers	1	[trash]

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Figure 13: Suggested Groups Page

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Search Results

cat domesticated species of feline

People

- hakan2
- sezgi.seret@gmail.com
- murat.melek087@gmail.com
- mo@mo.com
- OGÜZ CAM oguzcam\_50@hotmail.com
- Ayşe Uzungol ayseuzungol@gmail.com

Groups

- Dog Lovers We love dogs
- Cat Lovers We love, we protect cats
- Cute catty video sharing We want all members to share cute cat videos
- Cute kitty video sharing Cute kitty video sharing
- testevent We want all members to share cute cat videos
- Cute catty video sharing We want all members to share cute cat videos
- Cat matching If you have cat and it is time for it to have a couple, join us
- Cat matching If you have cat and it is time for it to have a couple, join us
- Cat Matchmakers If you have a cat and it is ready to be a couple, join us
- Cat Haters The group consists of cat haters.
- second groups group desc.
- second groups group desc.

Events

- event test morteza event test
- event test morteza event test

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Figure 14: Search List Page

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Figure 15: Search Page

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Figure 16: The Group Page

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CMPE Timeout Platform

[Edit Profile](#)

- [My Profile](#)
- [Events](#)
- [Groups](#)
- [Friends](#)
- [Logout](#)

## PASTA

[Add Post](#)

 **Fresh Tomato, Sausage, and Pecorino Pasta**

**Ingredients**

8 ounces uncooked penne, 8 ounces sweet Italian sausage, 2 teaspoons olive oil, 1 cup vertically sliced onion, 2 teaspoons minced garlic, 1 1/4 pounds tomatoes, chopped, 6 tablespoons grated fresh pecorino Romano cheese, divided 1/4 teaspoon salt 1/8 teaspoon black pepper, 1/4 cup torn fresh basil leaves,

By  Gülnihal Bağış

**Preparation**

1. Cook pasta according to package directions, omitting salt and fat; drain. 2. Heat a large nonstick skillet over medium-high heat. Remove casings from sausage. Add oil to pan; swirl to coat. Add sausage and onion to pan; cook 4 minutes, stirring to crumble sausage. Add garlic; cook 2 minutes. Stir in tomatoes, cook 2 minutes. Remove from heat; stir in pasta, 2 tablespoons cheese, salt, and pepper. Sprinkle with remaining 1/4 cup cheese and basil.

**Where to Eat?**  
Dorry Pasta at İstiklal

**Which city's food?**  
Rome

**Comments**

 Ali Dostoglu  
Bir restoran var nispetiye caddesi no.3 kaşıklıklığında orada künfe bir harika dostar! Gidin yiyin derim!

**Comment:**

[Comment](#)

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Figure 17: The Post Page

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CMPE Timeout Platform

[Edit Profile](#)

- [My Profile](#)
- [Events](#)
- [Groups](#)
- [Friends](#)
- [Logout](#)

 **Münevver Calayır**

[Add Friend](#)

First name:	Münevver
Last name:	Calayır
Email:	munevvercalayir@gmail.com
GSM:	0533 463 08 02
Address:	Atakent Mah. 3. Etap 1. Cadde 506. Ada B-41 D: 30 Halkalı Küçükçekmece İstanbul
Birthdate:	30.09.1986
About:	
Interests:	Painting, Riding, Botanic
Gender:	Female
Languages:	Php, javascript, html, java, C

**NOTIFICATIONS**

**SUGGESTED EVENTS**

Yıl Sonu Partisi  
Boğaziçi Üniversitesi  
Genelkese Vİsionu partisidir.  
tuncay's event

**PEOPLE YOU MAY KNOW**

 hakan2  
 kobe15@yahoo.com  
 sezgi.seret@gmail.com  
 murat.melek08@gmail.com

**SUGGESTED GROUPS**

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Figure 18: The User Page

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CMPE Timeout Platform

Update Event

\*Event name:

\*Event description:

Location:

\*Start Date/Time:

\*End Date/Time:

Invite people/groups:

Tag:  Search tags

Public to all

NOTIFICATIONS

SUGGESTED EVENTS

- Yıl Sonu Partisi
- Boğaziçi Üniversitesi
- Öğrenciler Yıasona partisidir.
- tuncay's event

PEOPLE YOU MAY KNOW

- hakan2
- kobe15@yahoo.com
- sezgi.seret@gmail.com
- murat.melek087@gmail.com

SUGGESTED GROUPS

- group test
- undefined
- python group
- python
- Timeout
- Yazılım Grubu
- Cat Lovers
- We love, we protect cats

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Figure 19: Update Event Page

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CMPE Timeout Platform

Update Group

Group name:

Group description:

Invite people/groups:

Tag:  Search tags

Public to all

NOTIFICATIONS

SUGGESTED EVENTS

- group test
- undefined
- python group
- python
- Timeout
- Yazılım Grubu
- Cat Lovers
- We love, we protect cats

PEOPLE YOU MAY KNOW

- hakan2
- kobe15@yahoo.com
- sezgi.seret@gmail.com
- murat.melek087@gmail.com

SUGGESTED GROUPS

- group test
- undefined
- python group
- python
- Timeout
- Yazılım Grubu
- Cat Lovers
- We love, we protect cats

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Figure 20: Update Group 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

