

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

Project Timeout
Software Product Manual

Revision 1.0
23.05.2015

By Team Timeout

Ali Haluk Seven	2013719111
Hakan Keçelioglu	2012719132
Morteza Bandidian	2013719015
Münevver Calayır	2012719021
Oğuz Çam	2013719039
Sezgi Seret	2013719108
Tuncay Altınpulluk	2013719006

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.

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

 BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

Home Create Event Create Group

Create Event

*Event name:

*Event description:

Location:

*Start Date/Time: 

*End Date/Time:

Invite people/groups:

Tag:

Public to all

Create



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Figure 3: Create Event Page with Date Picker

 BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

Home Create Event Create Group

Create Event

*Event name:

*Event description:

Location:

*Start Date/Time: 

*End Date/Time:

Invite people/groups:

Tag:

Public to all

Create



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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

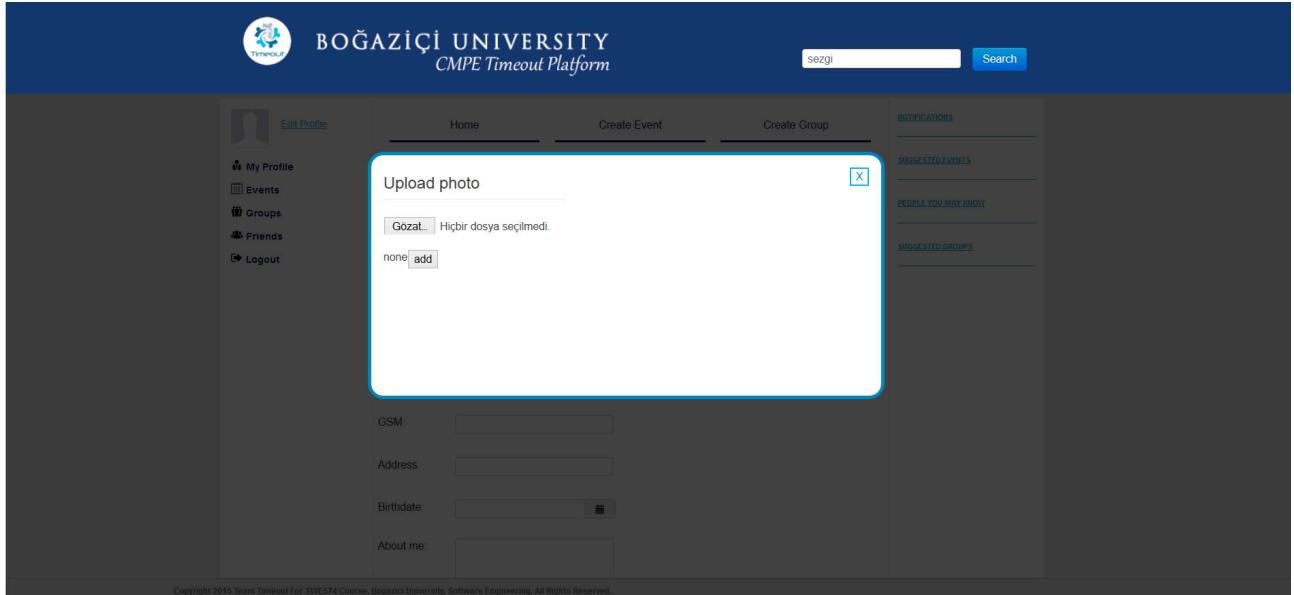


Figure 7: Edit Profile Page Photo Upload Window

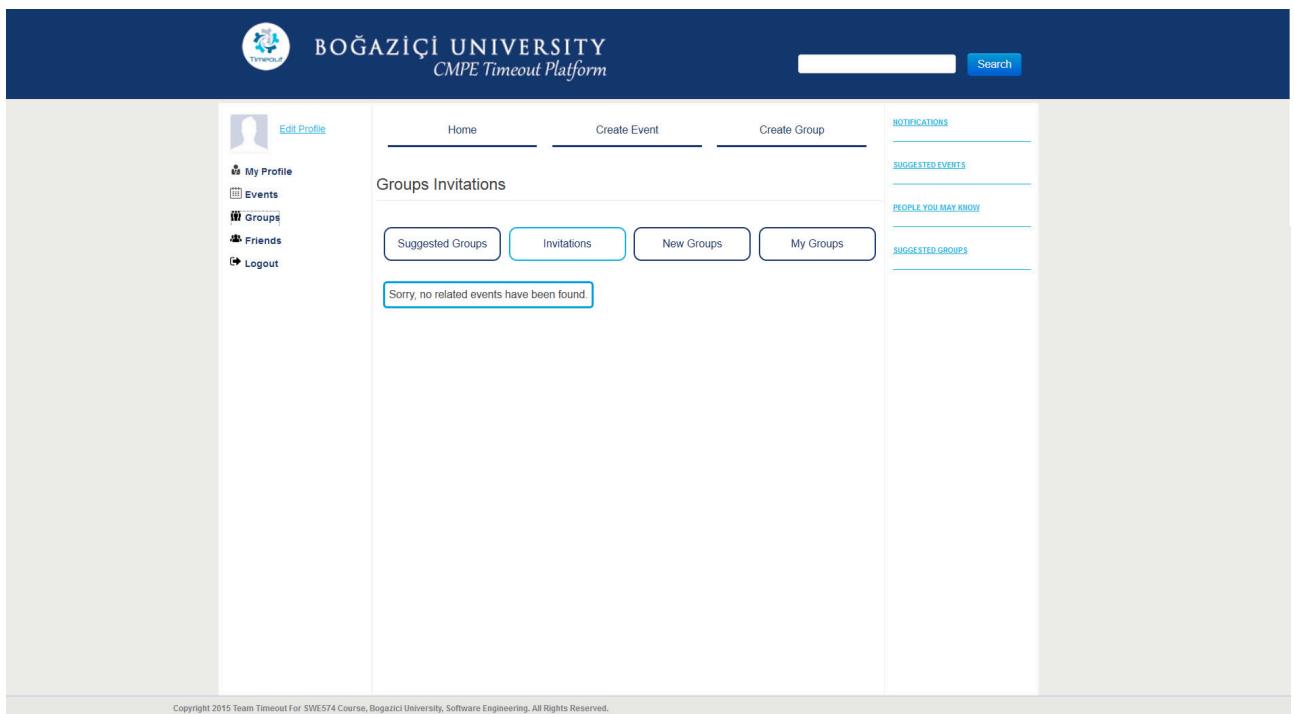


Figure 8: Group Invitation Page

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 one card: '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

BOĞAZİÇİ UNIVERSITY
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

BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

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

Add Friend

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.

Join to the Group

Events

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

Join to the Event

Notifications

SUGGESTED EVENTS

- Yıl Sonu Partisi
- Bağışçı Üniversitesi
- Geleneksel Yılsonu partisidir.

tuncay's event

PEOPLE YOU MAY KNOW

- hakan2
- kobet15@yahoo.com
- sezgi.seret@gmail.com
- murat.melek087@gmail.com
- ayseuzungol@gmail.com

SUGGESTED GROUPS

- group test1
- undefined
- python group
- python
- Timeout
- Yazılım Grubu
- Cat Lovers
- We love, we protect cats

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Figure 14: Search List Page

BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

Search

My Profile

Events

Groups

Friends

Logout

Edit Profile

Home

Create Event

Create Group

NOTIFICATIONS

SUGGESTED EVENTS

PEOPLE YOU MAY KNOW

SUGGESTED GROUPS

cat| Search

Search Results

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Figure 15: Search Page

BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

Edit Profile

My Profile

Events

Groups

Friends

Logout

GROUP GOURMET

Add Post

Default Restaurant + Join to the Group

Group Members

More

Yıl Sonu Partisi
Boğaziçi Üniversitesi
Genelisel Yılsonu partisidir
tuncay's event

PEOPLE YOU MAY KNOW

hakan2
kobet5@yahoo.com
sezgi.serent@gmail.com
murat.melek087@gmail.com

SUGGESTED GROUPS

This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets. This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets. This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets. This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets. This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets. This group is created for sharing info, experiences, receipt, advices, etc. for Gourmets.

Posts

Pasta

Pide

Baklava

Sushi

Kebab

Mexican Food

Recipe, where to eat, which city's food, etc.

Recipe, where to eat, which city's food, etc.

Recipe, where to eat, which city's food, etc.

Recipe, where to eat, which city's food, etc.

Recipe, where to eat, which city's food, etc.

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Figure 16: The Group Page

BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

PASTA

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,

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

BOĞAZİÇİ UNIVERSITY
CMPE Timeout Platform

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
Genel Seçim Vicosunu partisidir.
tuncay's event

PEOPLE YOU MAY KNOW

hakan2
kobet15@yahoo.com
sezgi.seret@gmail.com
murat.melek007@gmail.com

SUGGESTED GROUPS

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Figure 18: The User Page

BOĞAZİÇİ UNIVERSITY
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

BOĞAZİÇİ UNIVERSITY
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

