

Gift Registry

CS 6314 – Web Programming Languages

Fall 2017 Dr. Mithun Balakrishna

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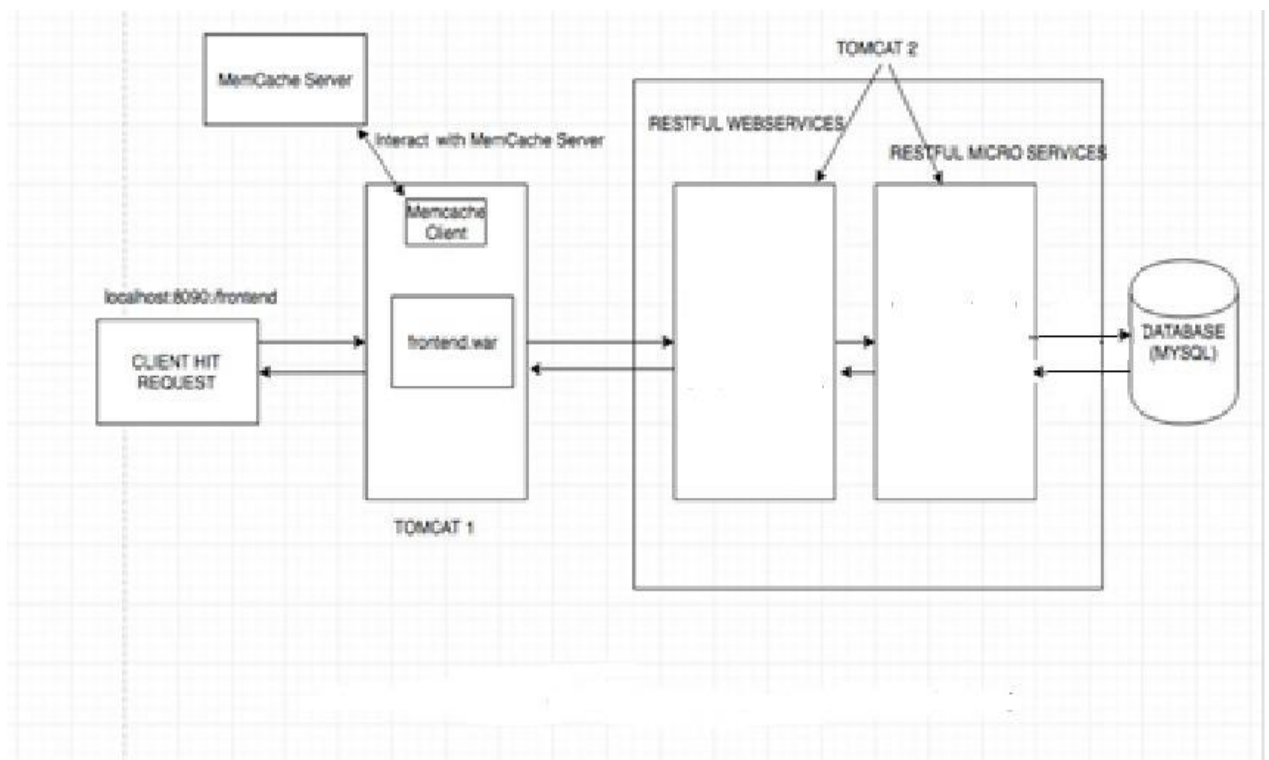
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	WEBSITE IMAGES	

Chapter 1

Introduction

A responsive e-commerce gift registry website was developed as part of our Web Programming Languages Coursework through which user can create a registry and share them to specific users or to all the users in the system. It was designed in a responsive fashion using Bootstrap templates. The detailed architectural diagram showing the interaction between various components is shown below



Chapter 2

Technologies Used

- Front-End Technologies: Spring MVC for Controllers, HTML, CSS, JSP and BootStrap.
- Back-End Technologies (Web Services & Micro Services) : Spring MVC for hosting Web services and Micro-services, MySql as Database for communication with database.
- Using Memcached as caching technology.
- Encrypted the communication channel between the client (i.e. browser), web site server, web services, and microservices server using TLS/SSL (Installed the self signed certificated.)

2.1 LIST OF TECHNOLOGIES CONSIDERED

For Building Web Services:

- Spring MVC and Java Servlets.

Spring MVC

- Enables low coupling with Autowiring of services and inverse dependency injection
- Easy to use, can write faster code using annotations
- Clearer view of DAOs, services and controllers and easy to assign responsibilities to each class.

Front-End: JSP, BootStrap, JQuery Datatables

-Readily available responsive templates helping us concentrate better on the business logic and other requirements

Table 2.1: Technologies

FRONT END TECHNOLOGIES	BACKEND TECHNOLOGIES
HTML	Java
CSS	Spring
BOOTSTRAP Template	JSON
JavaScript	MySQL
JSON	RESTful
JQuery	JDBC
Memcached	

Chapter 3

Functionalities

3.1 Non Functional Requirements

- HTTPS: Made tomcat secure by importing certificate to the keytore, and adding nio protocol connector in the server.xml of tomcat.
- Compression: Requests between all the web servers are compressed and send forward using gzip
- Authentication: Authorization key is added in the header parameter.
- MemCache: Used as caching technology in the front end.

3.2 Functionalities

- New user registration : A new user should register by filling out the registration form to create an account. Upon successful registration the user will be redirected to the login page.
- Existing user login and logout : Upon successful login user can access options to create a registry. The user can logout anytime.
- User profile information display and editing : The user can view /edit their profile information .
- User login information: The login information of the user and the last time of valid login will be displayed on the homepage of the website.
- Ability to create a registry: A user can create a registry along with the ability to add or delete items from the registry.
- Ability to share the registry: A user can share their registry to specific users in private or can make the registry public
- Ability to view shared registry: A user can view all the registries that are shared with him and also can assign an item from the registry
- Ability to filter: A user can filter the products list and sort them on different fields
- Forgot Password functionality: A user can reset his password with the help of forgot password link and answer the security question that was created at the time of registration.
- Ability to view the inventory: A user can view the contents of an inventory and add items to a registry
- Admin functionalities: An admin user can add/ remove items from the inventory
- A generic 404 page: A customized generic 404 page is displayed when the user tries to access an unavailable pag

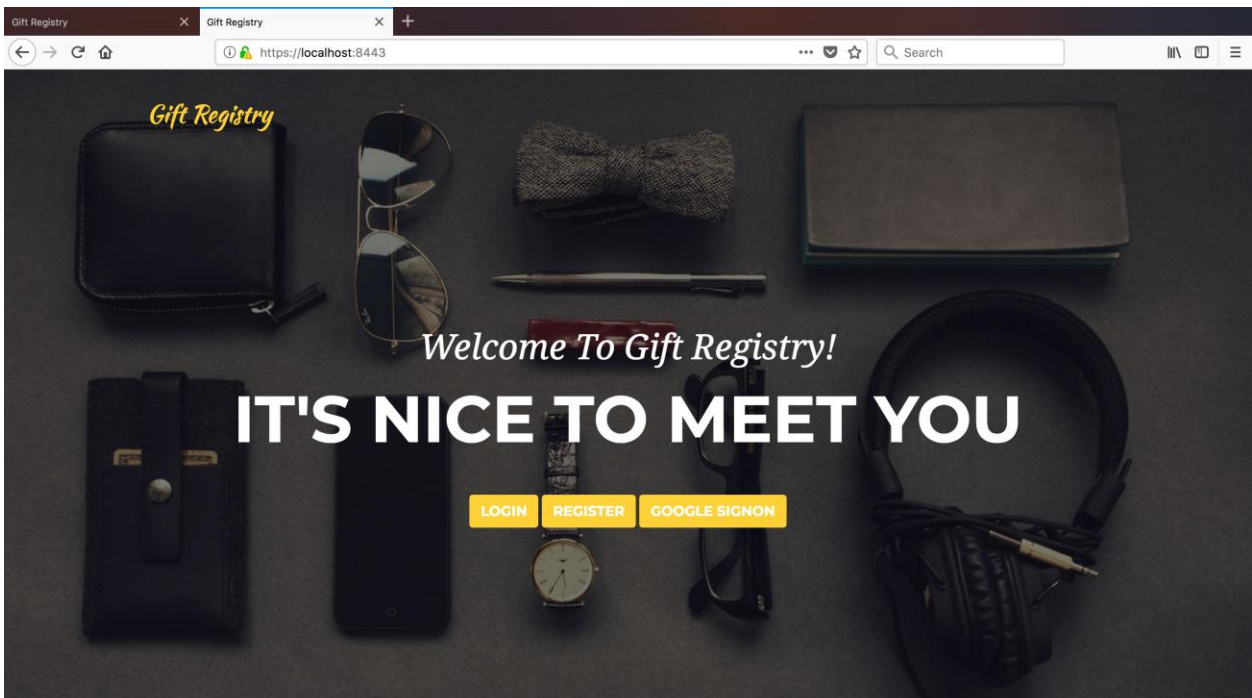
Chapter 4

Website

4.1 Frontend Website:

All pages of the website are built using Bootstrap Framework. When user clicks on <https://localhost:8443> they will be redirected to the landing page of the website, where he/she has the option to login a registered user or register to the site if a new user.

HOME PAGE



SIGN IN

Gift Registry

Gift Registry

https://localhost:8443/login

Gift Registry

Sign in

Email

Password

[Forgot your password?](#)

Sign in

New to site?

Create an account

or

Sign in with Google

By signing in you are agreeing to our [Terms of Use](#) and our [Privacy Policy](#).

REGISTRATION

Gift Registry

Gift Registry

https://localhost:8443/registernewUser

Gift Registry

Create account

Your First name

Your Last name

Email

Password

at least 6 characters

Password again

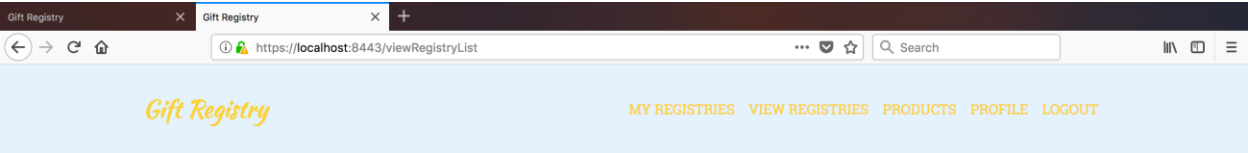
Security Question

Security Answer

Create your account

By creating an account, you agree to our [Terms of Use](#) and our [Privacy Policy](#).

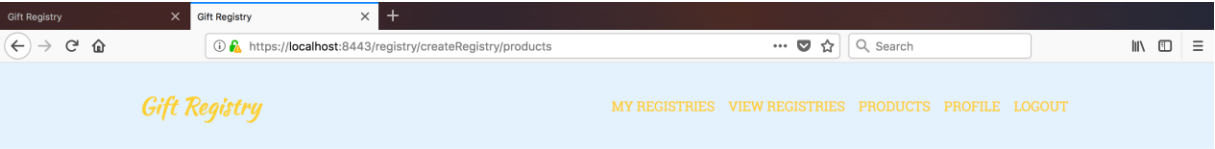
LIST OF REGISTRIES



My Registries

ID	Registry Name	
1	anniversary	VIEW
2	sneha	VIEW
3	kind	VIEW
4	safsfsdg	VIEW
5	asd	VIEW
6	ssf	VIEW
7	ssf	VIEW
8	sgdgdg	VIEW

REGISTRY CART



Filter

Show 10 entries

Search:

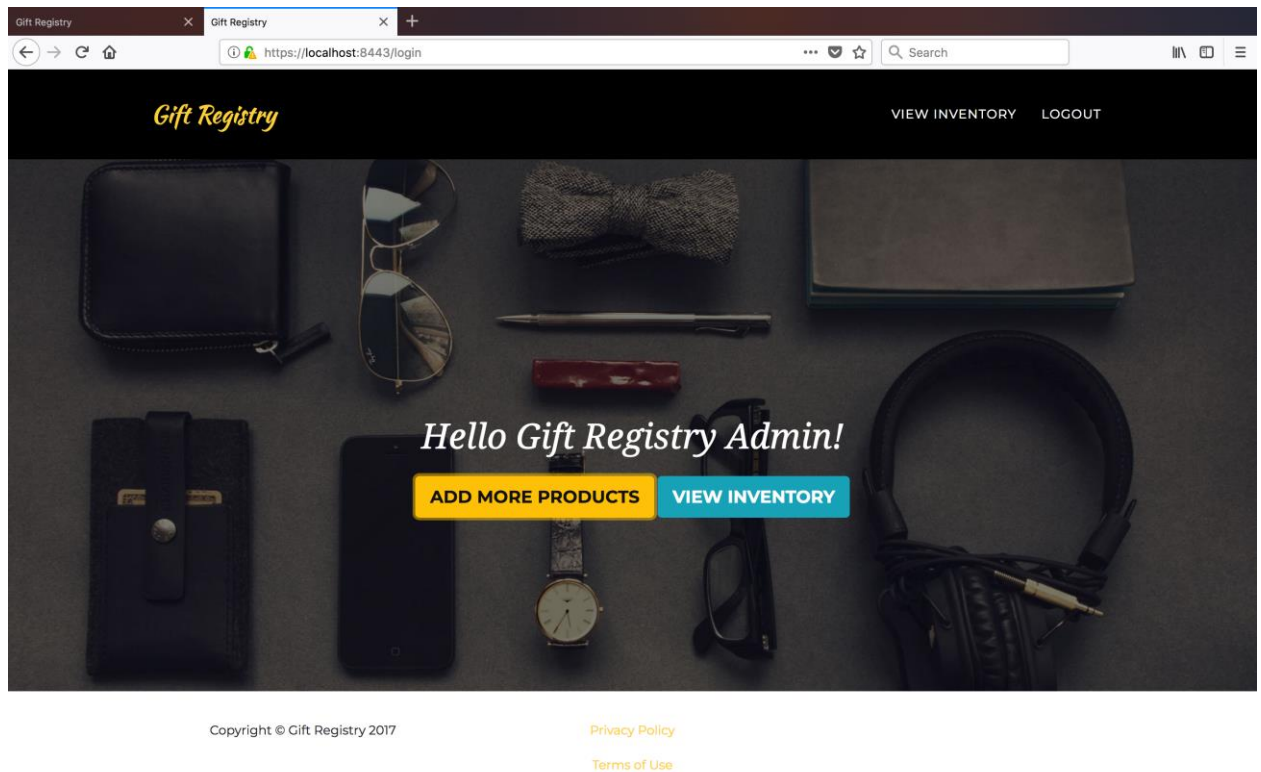
Product ID	Name	Price	Category	Color	Rating	ADD
8	Lamp	200	Kitchen	Blue	4	ADD
9	Tera	0	Electronics	Yellow	1	ADD
10	JINGLE	0	Electronics	Yellow	1	ADD
11	sads	0	Electronics	Yellow	1	ADD
12	Mac charger	0	Electronics	Yellow	4	ADD
13	abc	200	Electronics	Yellow	1	ADD

Showing 1 to 6 of 6 entries

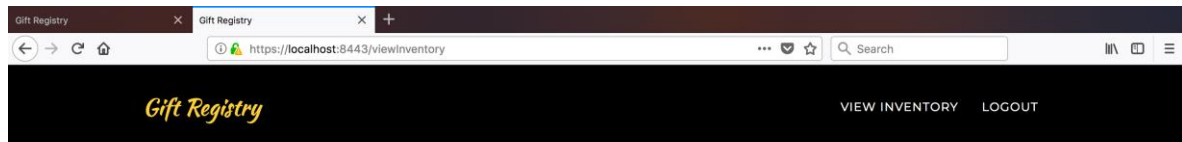
Previous1Next

Registry Cart

ADMIN HOME PAGE



VIEW INVENTORY PAGE

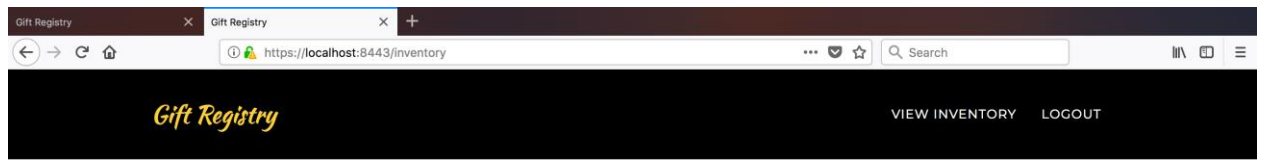


Products in inventory

[ADD A PRODUCT](#)

Product ID	Name	Price	Color	Rating	DELETE
8	Lamp	200	Blue	4	DELETE
9	Tera	0	Yellow	1	DELETE
10	JINGLE	0	Yellow	1	DELETE
11	sads	0	Yellow	1	DELETE
12	Mac charger	0	Yellow	4	DELETE
13	abc	200	Yellow	1	DELETE

ADD TO INVENTORY



ADD A PRODUCT TO INVENTORY

Product Name	Color
<input type="text" value="Product Name *"/>	<input type="text" value="Yellow"/>
Category	Rating
<input type="text" value="Electronics"/>	<input type="text" value="1"/>
Price	
<input type="text" value="0"/>	

[ADD PRODUCT](#)

Chapter 5

SUMMARY

5.1 Problems Encountered

The main challenges encountered during the course of this project are

- Was not able to resolve the issues with using AJAX for gzipped response
- Took some time to understand how Memcache works
- Because we are passing a request through three layers. It got harder to debug, but postman was useful in debugging the webservises
- Had trouble merging codes from each of us.
- We explored Git, version control system to works as a team but we faced some issues while merging the changes together.

5.2 Conclusion

During the course of the project we have learnt how to architect web applications from a single html page to a large scale application spread horizontally and vertically. The technologies learnt during the course of the project were all implemented for the project and it is plenty helpful for our further work in this area.