

WEB PROGRAMMING LANGUAGE

2017 Fall

Blue Leaf

BY

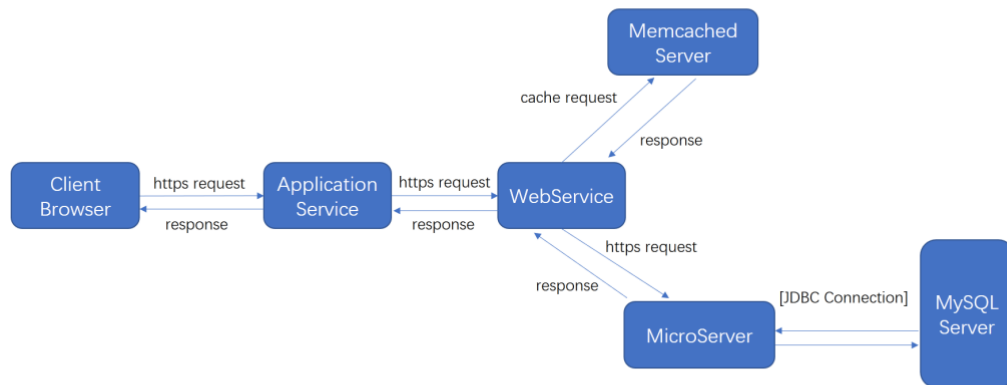
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Diagram of components



Description of technologies used

- For each module, a clear description of the various technologies considered and the technology that was finally used in the module development. Also provide a reason why a particular technology was selected

Application Service:

- JSP, Java Servlet, jQuery, Bootstrap.

Choose Java over PHP, because Java language have high performance, and it is a good chance to learn more about Java EE.

Choose jQuery over JavaScript, because jQuery is more easy to write, and code looks cleaner.

Web Service:

- Java, RESTful, SSL/TLS.

RESTful is less rely on tools, easier to understand and develop.

MicroServer :

- Java, RESTful, SSL/TLS.

Memcached Server:

- Java, Caching, Memcached.

Caching can improve the performance of web service.

MySQL Server:

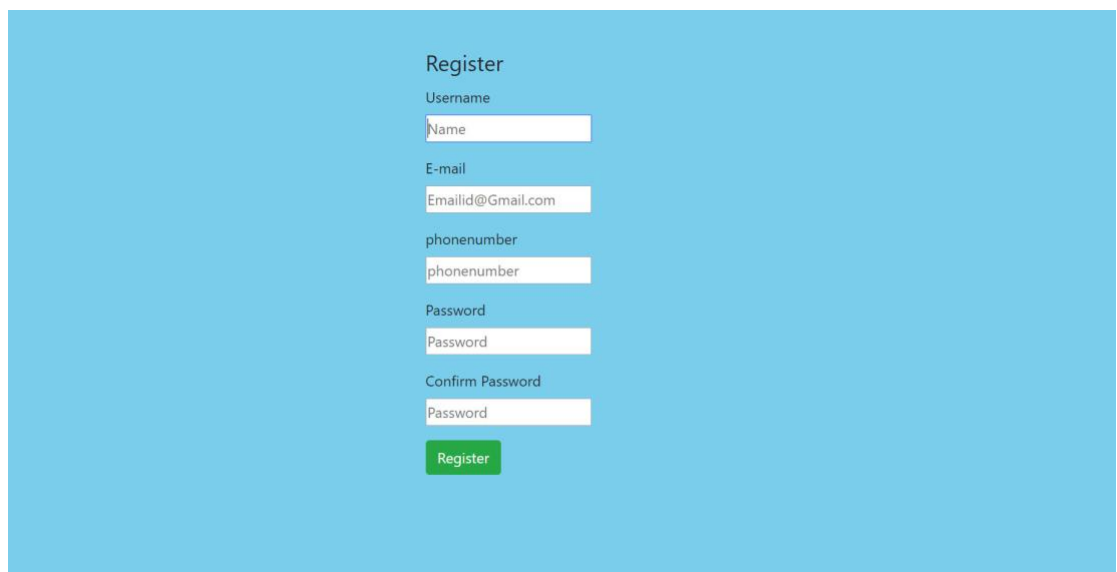
- Java, RESTful, MySQL.

MySQL is powerful and widely use.

Description of functionalities

- A clear description of the various functionalities that were available to users on your web site

1. New regular user registration



Register

Username
Name

E-mail
Emailid@Gmail.com

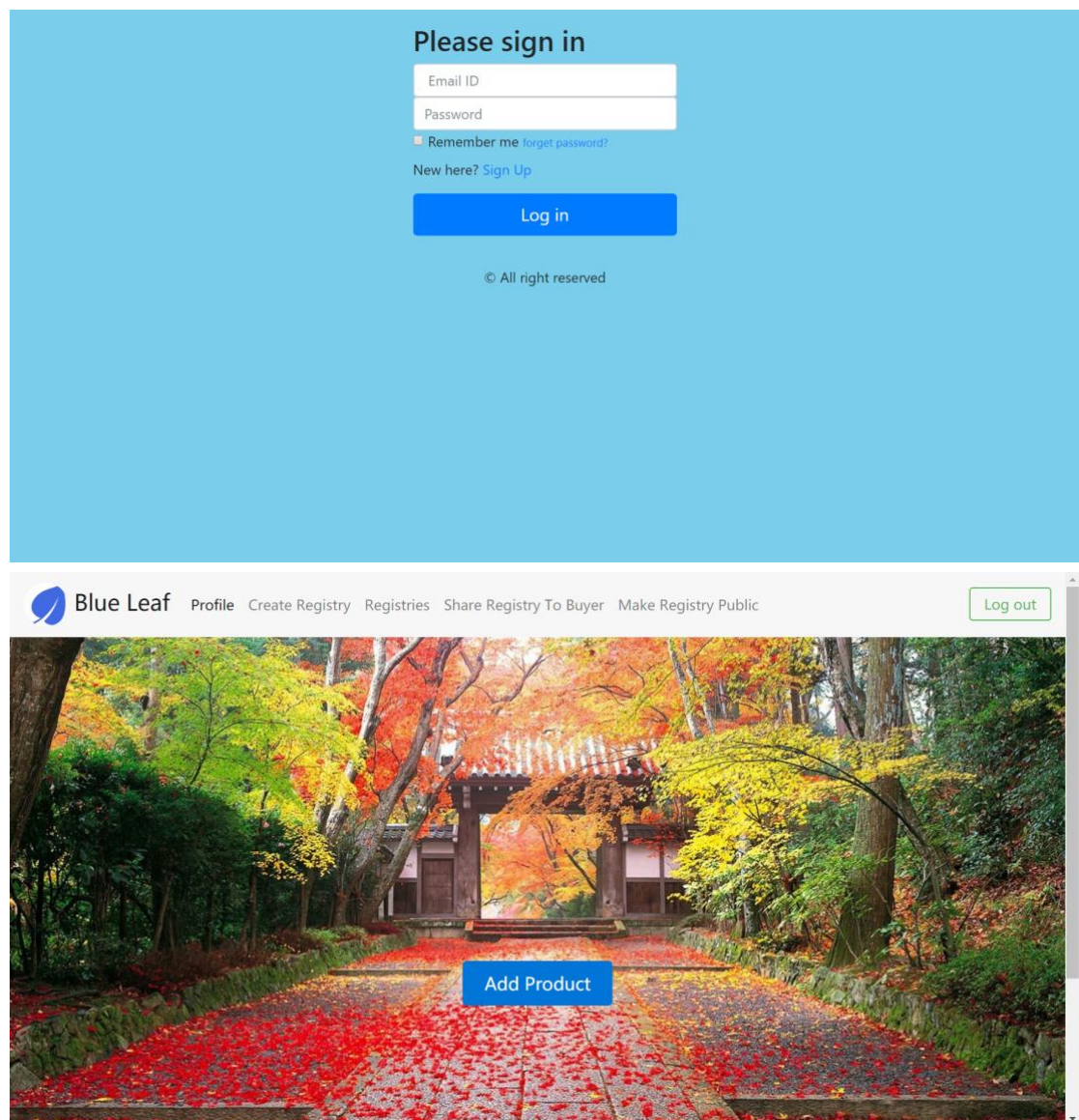
phonenumber
phonenumber

Password
Password

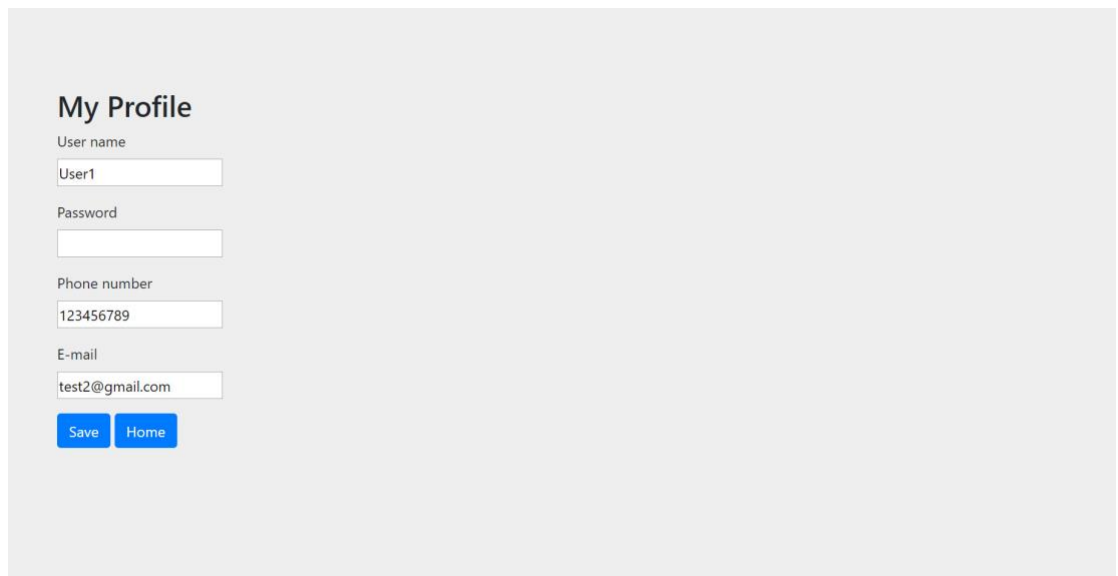
Confirm Password
Password

Register

2. Regular user log in, log out.



3. User profile information display and modification



My Profile

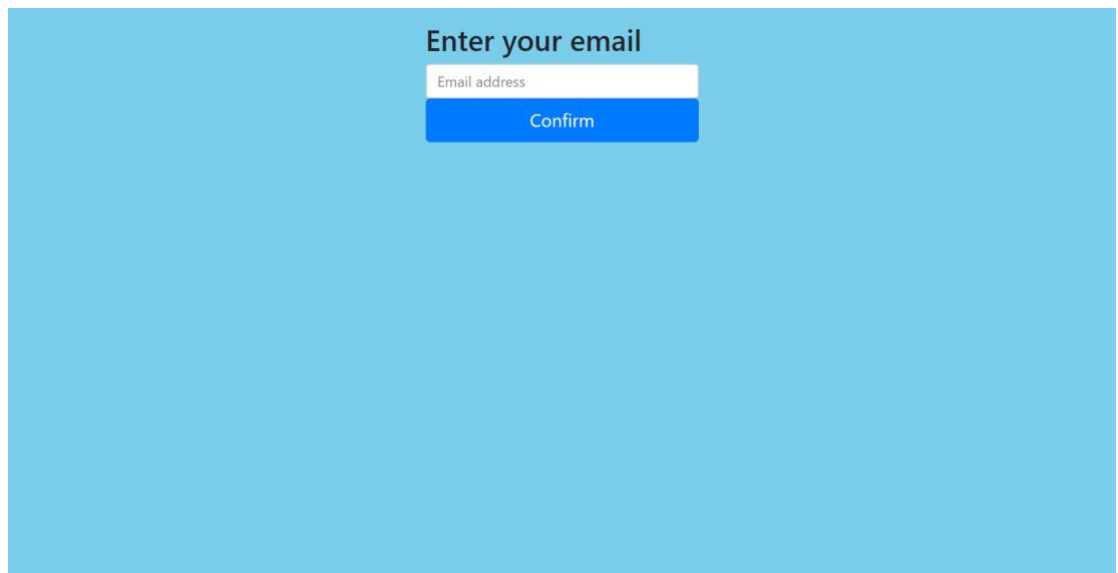
User name

Password

Phone number

E-mail

4. Forgot password functionality



Enter your email

Email address

5. Ability to create a registry

Create Registry

User ID

Registry Name

☐ Private
☐ Public

6. Display products in table, filter products on four properties

List of Products HOME

Filters

Category

☐ Accessories
☐ Electronics
☐ Instruments

Rating





☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

Brand

☐ Chanel
☐ Apple
☐ Nike

Certification

☐ 1 YES
☐ 0 NO

	RegisterID	ProductName	BrandName	ProductID	Price	Certification	Rating	Category	
*	 <input type="text" value="Enter RegID"/>	PEN	Chanel	900	40.0	0	4	Accessories	<input type="button" value="AddToRegistry"/>
*	 <input type="text" value="Enter RegID"/>	IPHONE	Apple	902	1400.0	1	5	Electronics	<input type="button" value="AddToRegistry"/>
*	 <input type="text" value="Enter RegID"/>	MAC	Apple	905	1400.0	1	5	Electronics	<input type="button" value="AddToRegistry"/>
*	 <input type="text" value="Enter RegID"/>	BIKE	Nike	906	300.0	1	4	Instruments	<input type="button" value="AddToRegistry"/>

7. Ability to add/remove items from a registry

My Registry

HOME

Registry Name :
sunny

Registry ID :
913

delete

Registry Name :
birthday

Registry ID :
914

delete

Registry Name :
Spring

Registry ID :
915

delete

8. Ability to share registry to particular user or make it public

Add Buyer to Registry

UserID
126

RegID
RegistryID

buyeremailID
buyeremailID

submit Home

Make public

OwneruserID
126

"RegistryID"
RegistryID

submit Home

9. Self-assign an item on another user's registry

Product detail

RegisterID:	ProductName	ProductID :	price :	certification :	rating :	category:	assigned to	Action:
900	PEN	900	40.0	0	4	Accessories	User1	SelfAssign Home

10.404 page

Page Not Found **Error 404**

The page you requested could not be found, either contact your webmaster or try again.

Use your browsers **Back** button to navigate to the page you have previously come from

Or you could just press this neat little button:

[Take Me Back](#)

11.Admin log in, **log out**

Admin Home Page

Add Product

Delete

12.Admin can Add/remove items into/from inventory

Delete Product

Product Name :

PEN

Product ID :

900

delete

Product Name :

IPHONE

Product ID :

902

delete

Add Product

Product Name :

productName

Brand Name :

brandname

Category :

category

Certification :

certification

Price :

price

Rating :

rating

Image URL :

imageURL

Description of Web Services and Microservices

- Description of the Web Services supported by the web application.

Including the breakdown Web Services into Microservices

Web service 1: DatabaseWebService.

Exchange data with database, manage user info, product info, registry info, sign up, self-assign product, etc.

Microservices:

BuyerProductMappingService

- To assign a product to self from shared registry.

CustomerDetailsService

- To get user Info use ID.
- To get user Info for the profile Info page.
- To update profile information or password.

ListUserServiceService

- To get all user Info.

ProductManagementService

- To get all the list of Products
- To add a product.

- To delete a product.
- To get brand.
- To get categories.

RegistryManagementService

- To create a new registry.
- To delete a registry. Make a registry public.
- To get all registries.

RegistryProductMappingService

- To get all registries of the given userID.
- To add product to registry.
- To delete a product from registry.
- To get all products from registry which was added to a registry.

SelfAssignedProductsService

- To get the value of list of products already assigned to self in a particular registry.

UserRegistrationService

- To add new user.

- To check old user.

Web service 2: AppWebService.

Exchange data with DBWebServer, manage user info, product info, registry share, make public, etc.

Microservice:

ProductManagementService

- To get all the list of Products for admin page.
- To add a product. Used in admin page.
- To delete a product, called from admin page.

ProductRegistryMappingService

- To add product to registry.
- To delete a product from registry.
- To get all products from registry which was added to a registry.

RegistryMangementService

- To create a new registry.
- To delete a registry. Make a registry public.
- To get all shared registries.

RegistrySharingService

- To share a registry with user.

UserManagementService

- To authenticate a user.
- To add a new user to DB.
- To get user Info for the profile Info page.
- To update profile information or password.

Web service 3: FrontEndService

Exchange data with AppWebServer, manage user info, product info, registry share, make public, etc.

Microservice:

- Add product service
- Change password service
- Create registry service
- Delete product service
- Delete registry service
- Edit profile service
- Log in service
- List my registries service

- New sign up service
- List products service