



Purpose

-- Efficient and convenient dating website;

-- Provide opportunities for the young;

https://www.datingwebapp.cloudns.ph/

Features

Login page:

Searching page:

Searching for your love!

Fragments:





-- DAN WANG

Features

Cloud hosting

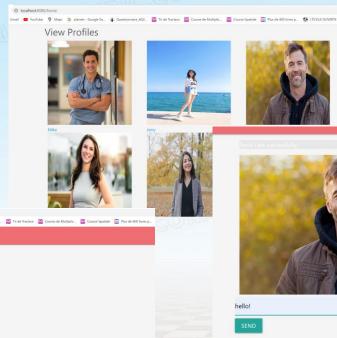


Features

- Send Message
- **Notification**
- Like
- Home page
- Profile page (other user)

like your profile

send you a new message Just want to say hello :)

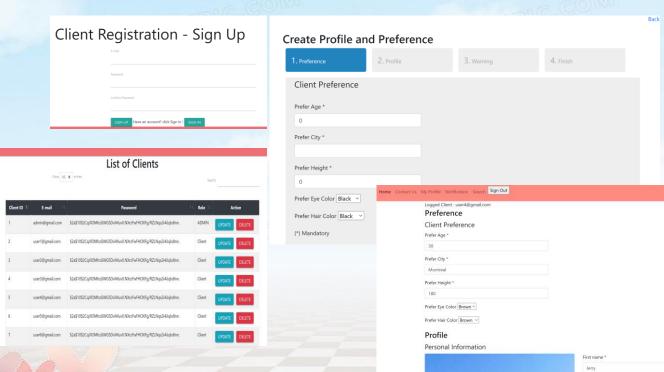






Forms and Lists

- Sign up form
- New profile wizard
- Edit form
- Admin crud

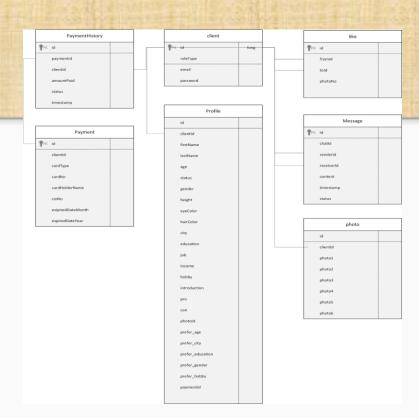


Database Structure

client: <u>long id</u>, string roleType ,string email, string password,Profile profile

profile: long id, Client client, string firstName...

message: long id; Client sender, Client recipient, String content...



Technologies

- ✓ RDS(AWS);
- ✓ Spring boot & Thymeleaf;
- ✓ Bootstrap & Materialize framework;
- ✓ Cloud hosting;
- ✓ Let's encrypt + Certbot + OpenSSL;

Challenge and Solution

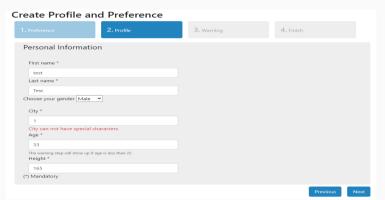


Wizard —- single form with jqeury

Separate entity

Intelliji and git

And debugging.....



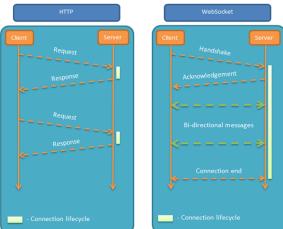
Wizard query, validation

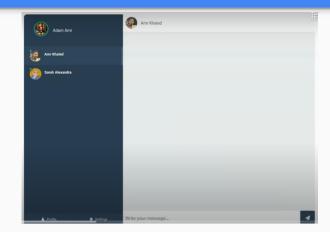
```
var form = $("#example-advanced-form").show();
    onStepChanging: function (event, currentIndex, newIndex) {
        if (currentIndex > newIndex) {
       if (newIndex === 3 && Number($("#age-2").val()) < 25) {</pre>
           form.find(".body:eq(" + newIndex + ") label.error").remove();
           form.find(".body:eq(" + newIndex + ") .error").removeClass("error");
    onStepChanged: function (event, currentIndex, priorIndex) {
        if (currentIndex === 2 && Number($("#age-2").val()) >= 25) {
           form.steps("next");
```

```
//relation to entity Client, †k = clientId
                                                                            A 20 A 1 ^
   @OneToOne(fetch = FetchType.LAZY, optional = false)
   @JoinColumn(name="clientId", nullable = false)
   private Client client;
   @Column(columnDefinition = "TIMESTAMP DEFAULT CURRENT_TIMESTAMP")
   private LocalDateTime createdTS;
   @Column(nullable = false, length = 30)
   @Pattern(regexp = "[a-z A-Z]{1,30}", message = "Name can not have special characters
   private String firstName;
   @Column(nullable = false, length = 30)
   @Pattern(regexp = "[a-z A-Z]{1,30}", message = "Name can not have special characters
   private String lastName;
   @Min(value=0, message = "Age should not be less than 0")
   @Max(value=120, message ="Age should not be greater than 120")
   @Column(nullable = false)
   private int age;
   @Min(value = 80, message = "Height should not be less than 80 cm")
```

Solution for Chat feature (remove)

- √ Websocket for chat feature (instance message)
 - Http protocol is a one-way protocol
 - Websocket: two-way





-- Yuan Li

Solution for Message feature

- √ Leave message (asyn) solution
 - Message table
 - When user leave message
 - How can user receive notification
 - If I want to see the message history(remove)



How to define if the client needs to do a profile wizard, or edit profile

```
<div sec:authorize="hasRole('Client')" th:object="${client}">
    <div th:if="${client.profile != null}">
         <a th:href="@{/edit_profile/{id}(id=${client.profile.id})}" class</pre>
    </div>
    <div th:if="${client.profile == null}">
         <a th:href="@{/wizard}" class ="btn z-depth-0">Add Profile</a>
@PreAuthorize(value="hasAnyRole('Client','ADMIN','VIP')")
@GetMapping(@~"/home")
public ModelAndView ShowHomePage( Principal principal) {
   ModelAndView mav = profileService.getRecommendProfiles();
   Client client = clientService.findByEmail(principal.getName());
   mav.addObject( attributeName: "client", client);
                                                                                      -- XIN ZHAO
   return mav;
```



Change email as login username —user detail interface

Config where to change — httpsecurity http configure

```
@Override
          public String getUsername() { return email; }
          //email as username
                      .and() HttpSecurity
                         .formLogin() FormLoginConfigurer<HttpSecurity>
                         .loginPage("/login")
                         .usernameParameter("email")
                         .failureUrl("/login_err")
000000
                         .defaultSuccessUrl("/home")
                                                                                        Xin Zhao-
```



√ How to properly enable HTTPS on your server:

-- issue:

how to install certification the configuration file for the webserver



https://certbot.eff.org/instructions?ws=other&os=ubuntubionic

https://www.openssl.org/docs/man3.0/man7/migration_guide.htmlN0



- ✓ How to deploy app to virtual server:
 - -- issue: choose an easier way
 - -- solution:



actuator + jar + maven + app.properties

Reference

00000

https://www.youtube.com/watch?v=W2Ccvpt4C3A

-- DAN WANG



✓ Use Principal to get current login user

Issue: need to know current user to get userid

```
Solution: Principal parameter

public String sendMessage(Long id,Message message, BindingResult bindingResult, RedirectAttributes redirAttrs, Principal principal) {
    if (bindingResult.hasErrors()) {
        //redirAttrs.addFlashAttribute("error", "Error:sendfailed.");
        return "profile";
    } else {
        Client sender = clientRepository.findByEmail(principal.getName()).get();
        message.setSender(sender);

        **COOOM**

**CO
```



√ th:with="variable = \${object}"

Issue: how to pass multi object to one form

Solution: define a tempory variable





√ @Query

how to do complicated query, how to get random result

```
QQuery(value = "select * from tbl_profile order by rand() limit ?3", nativeQuery = true)
List <Profile> getRandomProfile(int num);
```

```
@Query(value = "select name, author, price from Book b where b.name like %:name%")
List<Book> findByNameMatch(@Param("name") String name);
```

```
QQuery(value = "select count(m) from Message m where m.status=:status AND m.recipient=:recipient")
Integer findNewMsgNumberUsingJPA(@Param("status") String status, @Param("recipient") Client recipient);
```

Future work

- Add feature of payment;
- Add feature of logging by the third part application
- Email verification
- 3S image upload and download
- Show who like you and you like who list on current user profile page
- Recommendation
- show new notification number on header
- Message page (show message box with history)



Technology RDS(AWS);Spring boot & Thymeleaf; Bootstrap & Materialize framework; Cloud hosting; Let's encrypt + Certbot + OpenSSL;

Client add/edit profile, view recommended client list View profile of other users Search other users Send message/like to other users Get notification when there's new unread message/like

Admin CRUD clients

