Registration and User's Security Pages

Registration.php

- ✓ read: email, password, password_confirmation
- ✓ else if email doesn't contain '@', notify and stop
- ✓ else if password = null, notify and stop
- ✓ else if password_confirmation ≠ password, notify and stop
- ✓ go to RegistrationProcessing.php

RegistrationProcessing.php

- ✓ receive from Registration.php: email, password
- ✓ salt ← random integer from 100000 to 999999
- ✓ confirmation_code ← random string of 8 characters
- ✓ encrypted_password ← sha1(salt + password)
- ✓ if email is already in Registration, notify and stop (resend code?)
- ✓ if email is already in User, notify and stop (forgot password?)
- ✓ insert into Registration: email, encrypted_password, salt, confirmation_code send e-mail with confirmation code notify (confirmation code sent)
- ✓ go to EmailConfirmationForm.php

EmailConfirmationForm.php

- ✓ read: email, entered_confirmation_code receive from RegistrationProcessing.php: email (to autofill form)
- ✓ if confirmation_code is null, notify
- ✓ else if email doesn't contain '@', notify
- ✓ go to EmailConfirmationProcessing.php resend code goes to ResetCode.php

EmailConfirmationProcessing.php

- ✓ receive from EmailConfirmationForm.php: email, entered_confirmation_code
- ✓ reg ← row in Registration that contains email
- √ if reg = null, notify and stop (email not registered)
- √ if reg.code ≠ entered_confirmation_code, notifiy and stop (wrong code entered)
- ✓ if email is already in User, notify (email already confirmed)
- ✓ copy username, password, salt from reg to User
- ✓ delete reg
- ✓ notify (registration successfully done)
- ✓ go to Login.php

ResetCode.php

- ✓ reads: email receive from EmailConfirmationForm.php: email (to autofill form)
- ✓ go to ResetCodeProcessing.php

ResetCodeProcessing.php

- ✓ receive from ResetCode.php: email
- ✓ confirmation_code ← random string of 8 characters
- ✓ if email is not in Registration, notify and stop (not registered or already confirmed)
- ✓ user ← row in Registration that contains email
- ✓ user.code ← confirmation_code
- send e-mail with code confirmation
- ✓ notify (confirmation code sent)
- ✓ go to EmailConfirmationForm.php

Login.php

- ✓ read email, entered_password receive from EmailConfirmationFormProcessing.php: email (to autofill form)
- ✓ if email doesn't contain '@', notify and stop
- ✓ else if password = null, notify and stop forgot password goes to ForgotPassword.php go to LoginProcessing.php

LoginProcessing.php

- √ receive from Login.php: email, entered password
- ✓ user ← row in User that contains email
- ✓ if user = null, notify and stop (email not registered)
 if user = null and email is Registration, notify (email not confirmed)
- ✓ get password, salt, temp_password from user
- ✓ if sha1(salt + entered_password) = password, go to Main.php else if sha1(salt + entered_password) = temp_password, go to ResetPassword.php else notify and stop

ForgotPassword.php

read email

if email doesn't contain '@', notify and stop go to ForgotPassword.php

ForgotPasswordProcessing.php

receive from ForgotPassword.php: email
temp_password = random string of length 8
encrypted_temp_password = sha1(temp_password)
user ← row in User that contains email
user.temp_password ← encrypted_temp_password
send e-mail with code temporary password
notify (new password sent)
go to Login.php

ResetPassword.php

receive from LoginProcessing.php: email
read password, password_confirmation
if password = null, notify and stop
else if password_confirmation ≠ password, notify and stop
go to ResetPasswordProcessing.php

ResetPasswordProcessing.php

receive from ResetPassword.php: password, email salt ← random integer from 100000 to 999999 encrypted_password ← sha1(salt + password) user ← row in User that contains email user.salt ← salt user.password ← encrypted_password go to Login.php

Main.php

receive email from LoginProcessing.php

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