

# Mailinglist – php example code – part 1 – app decomposition

Article describes decomposition of problem for mailinglist app. Users can subscribe for newsletter, grant GDPR. Admin can send mass emails to subscribers and remove them by e-mail.

Our goals are:

1. Users of app can subscribe into a mailinglist. Optionally current subscription can be removed just in time. If user will be removed from mailinglist. Then only admin can remove them. (our first demonstration does not solve security at login level – admins only know names of files on server, that is not very hard solution).
2. Admin use separate page for writing subject and main message. After writing these parts, e-mail are sent one by one. For consideration is how to prevent to send duplicate e-mails. Two solutions can be used – UNIQUE keyword for email database field and during querying database for result DISTINCT for emails.  
For better insight in what is going on are outputted infos about sending e-mails and also list of subscribers is on bottom part of page. For unsubscribing users is on bottom of the page available button referencing on third page of app.
3. App for unsubscribing users by e-mail for administrator

of mailinglist. One field gain email that must be removed from subscription. After submitting appropriate e-mail is removed and new listing of subscribed user is showed for further verification.

4. **Optional** will by added simplified verion page for unsubscribe user by e-mail. This page does not show list of all subscreibers, only say that appropriate email was found on database and was succesfully removed from them.

Next pictures shows GUI of appropriate page from final mailinglist app:

1. Subscribtion into mailinglist page

## Mailinglist app v 1.0 - subscribing part

new subscribertest@test7.sk succesfully addedYour postmessage was  
suceessfully send via e-mail



Please provide Your first name:

User

Please provide Your last name:

Lastname

E-mail:

test@test7.sk

I agree with GDPR regulations

I subscribe to Newsletter:

SUBSCRIBE TO MAILINGLIST

UNSUBSCRIBE NOW

RESET FORM

*E-mail:* test@test7.sk

succesfully added to mailinglist and granted these privileges  
Newsletter subscribed

2. Admin for sending e-mails into a subscribers



Subject of send message:

Subject of message:

Message to send:

Here you can write your notification message for subscribed users.

Your developers team

SEND TO SUBSCRIBERS

RESET FORM

*Message:* Here you can write your notification message for subscribed users. Your developers team  
succesfully sent to all subscribers on list bellow

## Sending e-mails

Email to: test@test.com has been sent ...

Email to: test@test2.sk has been sent ...

Email to: test@test3.sk has been sent ...

Email to: test@test4.sk has been sent ...

Email to: test@test6.sk has been sent ...

Email to: test@test7.sk has been sent ...

## Our subscribers mailinglist

UNSUBSCRIBE BY E-MAIL ->

id	firstname	lastname	date	email
8	User	Lastname	2020-09-19 18:20:25	test@test7.sk
7	User	Lastname	2020-09-19 18:20:21	test@test6.sk
5	User	Lastname	2020-09-19 18:20:12	test@test4.sk
4	User	Lastname	2020-09-19 18:20:08	test@test3.sk
2	User	Lastname	2020-09-19 18:18:41	test@test2.sk
1	Milan	Cijjak	2020-09-19 18:18:12	test@test.com

3. Page for unsubscribing by an e-mail

## Mailinglist app v 1.0 - unsubscribe from mailinglist

Subscriber with e-mail: test@test5.sk has been succesfully removed from mailinglist.



e-mail to unsubscribe:

test@test5.sk

UNSUBSCRIBE

RESET FORM

*Your e-mail:* test@test5.sk  
has been succesfully removed from mailinglist.

### Our subscribers mailinglist

id	firstname	lastname	date	email
8	User	Lastname	2020-09-19 18:20:25	test@test7.sk
7	User	Lastname	2020-09-19 18:20:21	test@test6.sk
5	User	Lastname	2020-09-19 18:20:12	test@test4.sk
4	User	Lastname	2020-09-19 18:20:08	test@test3.sk
2	User	Lastname	2020-09-19 18:18:41	test@test2.sk
1	Milan	Ciljak	2020-09-19 18:18:12	test@test.com

In a further articles we will take a closer look at appropriate pages. Current version of mailingapp can be obtained from github [here](#).