XCHANGER®

Design Report

THYKEtech

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<u>1 - Xchanger : A Brief Explanation</u>

1.1 - Xchanger is a Composite System:

Xchanger has several more basic components in its body (figure 1). Those components include News Server, Mail Server, XML Feeders and Web Interfaces, SQL Database, RSS Archive, File Archive and the Core. All these components' harmony is kept by the Core of the system. News Server and Mail Server have their own databases. They save data related to only what their names suggest. However a separate SQL Database is built to logically connect the data in the two other databases for numerous features of the system described below. The SQL Database also holds data for user information. For often-repeated information requests, XML Archive takes the jobs to fasten the system. File Archive is where the public attachments will be saved.



1.2 - Xchanger is a News Server:

Users of the system are able to subscribe to news groups of the system and to post and read articles. While sending and receiving posts, users will be able to attach files for others to download. These attachments are going to be moved to the system's archives for later downloads by any other user. System will be providing a search feature to its users. To make the search feature work, key words for those attachments are going to be either derived by the system using some smart techniques or given by the uploader with some description to aid later search.

1.3 - Xchanger provides WebMail Interface:

System has a webmail interface for its users to send and receive mails. In addition to this, users have some amount of quota and can save their file on the systems servers. Whenever the user wishes or the quota is full, all the files in a specific directory, with one click, can be downloaded to the users PC and free their space. Users can modify their options such that they will be able receive the articles those are sent to user-specified news groups and read these articles using their mail accounts. The same is available for mail lists. RSS documents from any source will also be available to be read using mail accounts.

1.4 - Xchanger has Mail Lists:

People who have already joined the Xchanger system will also be able to join mail lists. Each mail list has its owner and, if needed, with the approval of the owner of that mail lists users will be able read mails those are posted by other members of that mail list. Via mail lists, users are able to make attachments. If the sender gives permission, these attachments will be moved to the systems archives and available for other users of the system just like it was in news groups. Making suitable adjustments to their account options, users can read and reply mail to mail lists, using their email accounts.

1.5 - Xchanger Publishes and Receives RSS Documents:

System is capable of publishing RSS documents to its users which are going to be compiled according to previously user-determined criteria. Those RSS documents may include data which is compiled using the system's news server databases. In other words, users are going to able to get RSS documents which include articles those are posted to the system's new groups, and publish them any where they want. System also can get RSS documents from the users. Using this feature users will be able to publish their own data (may be blogs etc.) using the system's interfaces.

2 – Use Case Diagrams

2.1 – Use Case Diagrams for Administrator:

Use Case Diagram: Administrator / Members



Use Case Diagram: Administrator / Mail Lists



Use Case Diagram: Administrator / News Groups



2.2 – Use Case Diagrams for Members:

Use Case Diagram: Member / News Group



Use Case Diagram: Member / RSS



Use Case Diagram: Member / Mail List



Use Case Diagram: Member / Webmail



<u>3 – Class Diagrams</u>

	Ki	si
id	:	Long
adi	:	String
soyadi	:	String
kullaniciAdi	:	String
parola	:	String
cinsiyet	:	String
statu	:	Statu
eposta1	:	String
eposta2	:	String
webAdresi	:	String
imza	:	String
TCKimlikNo	:	String
ePostalar	:	EPostalar
resim	:	String
sonGiris	:	Date
sonGirisIP	:	String
makaleler	:	Makalaler
haberGruplar	i:	HaberGruplari
ePostaListele	eri:	MailListeleri



String String String FPostalar
String String FPostalar
String FPostalar
FPostalar
La Obtului
Kisiler
Kisi
Anketler
Date



	CollectionBase
HaberGrubu	InnerList : Object[]
yonetici : Kisi yol : String tarih : Data	Α
makaleler : Makaleler	HaberGruplari
	haberGruplari : HaberGrubu[]

EPosta		
gonderen	:	Kisi
alicilar	:	Kisiler
dizin	:	Dizin
konu	:	String
tarih	:	Data
metin	:	String
eklentiler	:	Eklentiler
statu	:	MaiStatu
okundu	:	Bool
	-	



Anket						
baslik	:	String				
secenekler	:	Secenekler				
acilmaTarihi	:	Date				
kapanmaTarihi	:	Date				
ePostaListesi	:	EPostaListesi				
oylayanlar	:	Kisiler				



Eklenti				
yol reyting dosyaAdi anahtarKelimeler tarih	: : : : : : : : : : : : : : : : : : : :	String Int String String[] Date		
boyut	:	Long		

CollectionBase				
InnerList : Object[]				
A				
Eklentiler				
eklentiler : Eklenti[]				

Makale			
baslik	:	String	
metin	:	String	
gonderen	:	Kisi	
eklentiler	:	Eklentiler	
tarih	:	Data	
makaleler	:	Makaleler	
ilkMakale	:	Bool	



Secenekler				
metin secilmeAdeti secenlar	: : :	String Int Kisiler		

MailStatu					
id	:	Int			
adi	:	String			

DizinTipi					
id	:	Int			
adi	:	String			

Ko	nt	tak
sahip kontakListesi isim	:	Kisi Kisiler Dizin
tarih	:	Date

		Dizin
adi ePostalar dizinTipi tarih	: : :	String EPostalar DizinTipi Date

<u> 4 – Database Diagrams</u>



5 – Graphical User Interfaces

5.1 - GUIs Related To email Lists:

EPosta-Listesi:	Ara	
EPosta Listeleri:		
Liste 1	_	
Liste 2		
Liste 3		
Liste 4		
Liste 5	-	
Secilen E-Posta Listesi i	cin:	
Ana Sayfasina Git	Uye Listesi	Sil
<u>Uyeler L</u> istesi:		
Uye 1	<u> </u>	
Uye 2		
Uye 3		
Uye 4		
Uye 5	-	
Uve Detavi Goster >>		

Descriptions:

E-Posta Listesi: Describes related e-mail list. In order to find it, [Ara] button is used.

E-Posta Listeleri: Describes result of search. Lists found are listed.

Secilen Eposta Listesi icin: Describes operations for the selected e-mail list in the list.

Ana Sayfasina Git: Button to go to the main page of the selected list. In the main page, administrator reaches all data of the list including mails, files etc.

Uye Listesi: Button to list the members of the selected list.

Sil: Button to delete the selected list.

Uyeler Listesi: Describes the list of the members of the selected list. It is displayed after clicking [Uye Listesi] button. A member is selected from the list.

Uye Detayi Goster: Describes the hyperlink for displaying details of the selected member from *Uyeler Listesi*.

Opsiyonlar:				
🖸 Yeni grup olustur				
🖸 Grubu pasif yap				
🔲 Grubu aktiflestir				
Haber Gruplari Listesi:				
List Item 1				
List Item 2				
List Item 3				
List Item 4				
List Item 5				
Adi:				
Yolu: com.pl.oo				
Uygula Iptal				

Opsiyonlar: Describes the option list of the page.

Yeni Grup Olustur: Describes the option to create a new news group.

Grubu Pasif Yap: Describes the option to make a group passive.

Grubu aktiflestir: Describes the option to activate a passive group.

Haber Gruplari Listesi: Describes the list of news groups. The list changes according to selected option.

Adi: Describes the name of the newly created group. This is displayed if '*Yeni Grup Olustur'* option is selected **Yolu:** Describes the path of the newly created group. This is displayed if *'Yeni Grup Olustur'* option is selected.

Uygula: Button to apply changes.

Iptal: Button to cancel changes.

<u>Haber Gruplari Listesi</u> :
List Item 1
List Item 2
List Item 3
List Item 4
List Item 5
Arsivleme Tipleri:
Sunucudan silerek arsivle
O Sunucudan silmeden arsivle
Tamam Iptal

Descriptions:

Haber Gruplari Listesi: Describes the list of available news groups. One of them is selected to go forward application.

Arsivleme Tipleri: Describes the types of archiving news groups. If 'Delete the articles from server' is selected, then articles are deleted from database of the news server and archived on the web server computer. Hence, articles are not displayed in the list of articles of the group however, in a detailed search; administrator is able to reach archived articles.

Tamam: Button to apply changes.

Iptal: Button to cancel changes.

5.2 - GUIs Related To RSS & News Groups:

1770	and M	seru	Contract (mins gonder)	I relative recommendation of the	G #		yat	- nym n
Haber Gru	plan	-	Subject Mikisewane India	From	Sec		30.0	14
	Simeran	- C	III III OHUMMUS MOD	Ugur YILDIRIM	11/23/200	623.	108	1.1
			E Spana gosterme	HARAMEMERCE	11,124,12006	5:29	3635	
	Sague	R	Rei bilgisayar toplulugu	HAKAN EMEKCE	11/24/208	6 5 3	1108	
	Oremshall	I C	🗄 📓 Rac bilginayar toplulugu	HARANEMERCI	11,124,12006	5:35	18.0	
	Con	-	🖬 Re: bilgisayar toplulugu	Centre GUNGOR	11/27/200	6 3 0	2108	
	. Orta		🛃 Re: bilgisayar tophulugu	HAKANEMEKEL	11/24/200	6 3:4	160	
		R	🖽 🔛 Rei bilgisawar baplulugu	Golideniz Karadag	11,124/2006	6(13)	##B	
hinisment		10	🗄 📁 Re: kilginoyar topikilaga	HARANEMEKET	11/24/200	6 6:3.	100	-
Condition of the		10	🗏 🖾 Rex bilgistever bapkulugu	Utivi Erdogdu	11,124,12006	7:16	3#.B	
0.0	1度:	-	🛃 Rac bilgtnayar toplulugu	Onur Tolga Sehitogiu	11/24/2006	10:1	4825	
		1	🗏 🛤 iker bilgisayar toplulugu	Cuneyt Mertayak	11/24/200	67.0	4408	
			🗄 💕 Re: bilgisəyər topluluğu	HAKANEMEKCE	11/24/200	6 7:1_	168	
		m.	Rei bilgirayar topluluğu	Burdh SAR42	11,1240,2005	7131	3#B	
		-	E Rac bilgineyer toplulugu	Oursey& Mertayak	11/24/2006	0:14	IND	140
		1.0	🖂 🕞 ikel bilgesayar tophulugu	HARANEMERLI	11/25/200	624+	108	*
avatar	From: Newsgrou Date:	φĸ						
TeatTearTe TeatTearTe	ust ustTextTextTe esstTextFessT	onTe. konTe	nt TextTextTextTextTextTextText nt TextTextTextTextTextTextText					

Descriptions:

This is the main page of newsgroups. There are three main parts in the page. One is at left side. The list of subscribed newsgroups is here. The second part (at upper part of body) is the list of article names of chosen news group. The third part is at bottom side of site. At this part user can see an article with the properties (subject, sender of articles, possible attachments). User can click a newsgroup in first part. Then, the articles of it are listed at second side. Then, user can click an article to see it at third part.

There are also some tools at this page. These are:

• Write: This is for writing an article. If user chooses an article and clicks Write, then this will be a reply of the article

- Seçili Olanlari...: This tool has three options for selected articles: these are Sending Mail, Make Read, Download and Don't Show Me
- Ara : Searching tool



This page is for sending articles. There three text box. One is subject of article, one is the receiver newsgroup, or other user's mail addresses. The last is for body of article. And the button **Gonder** finalizes the sending.

😌 Untitled Document - Mozilla Firefox		1. ST 10		
		ara		
	Γ	Haber Gruplan	Açıklama	
		Sinema	vizyondaki filmler hakkında .	
	Я	Sağlık		
	Γ	Otomobil		
	P	Gezi		
			ka	ydet vazgeç

This is the setting page about subscribing to newsgroups. User can select the newsgroups and subscribe them using **Kaydet** button. **Vazgeç** button is for discarding the changes and go back to main newsgroups side. User can also make search among the newsgroups using **Ara** tool.



This page is the main RSS page. At this page, there is a menu at left-hand side. Using this menu, user can:

- Get information about usage of RSS, keywords etc. by using the links RSS Kullanımı and Sıkça Sorulan Sorular.
- Download tools:
 - RSS Reader: To read RSSs any where this program or code supplies users multiply options to read. And also one can read other RSS feeds.
 - RSS Writer: This tool is for double sided RSS users. User wants to send articles in their own sides can write their articles to RSS documents using this tool.

The body of the site supplies users choosing any RSS feed or forming a new custom RSS.

- Choosing RSS: There are two lists at the upper side of body of part. One of them includes the RSS pool. Other is user's own RSSs. User can choose a RSS from the RSS pool and transfer it to his own side using ">>>>" button. Also user can transfer his/her own RSS to the RSS pool for other users to use if there is not same RSS in the pool.
- User can choose any RSS: s/he can see the details of it by using
 Ayrıntı Göster button. This is another page was shown below.
- User also can form a new custom RSS feed at bottom part of the body. The steps of forming RSS:
 - **RSS Adi**: Name of RSS feed
 - Haber Grubu Seç: Choosing a newsgroup. It can be chosen
 Hepsi to choose all newsgroups.
 - Çift Yönlü RSS İstiyorum: This checkbox means double side RSS. If this is checked, the steps below will be disabled and will be set default values.
 - Kişi Seç: Choosing a member. It can be chosen Hepsi for choosing all members. This step means that user can choose any one's articles.
 - **Tarih Seçenekleri**: There are three options to determine constraints about date
 - Son x Makale: Means last 1 or 5 or 10 or 20 articles
 - ...Den İtibaren: Means "since any date"
 - Son x Gün: Means 1 or 5 or 10 days' articles
 - **Kaydet**: Saves the RSS feed.
 - **Temizle**: Clears the forms to theirs defaults values.



This page is for the details of RSS feeds. User can see the details of RSS here. If the feed is user's own feed, then s/he can change its some details.

- RSS Adi: Name of RSS feed
- **RSS Path**: The path of RSS that user can reach it to read;
- Haber Grubu Seç: Choosing a newsgroup. It can be chosen
 Hepsi for choosing all newsgroups.
- Çift Yönlü RSS Istiyorum: This checkbox means double sided RSS. If this is checked, the steps below will be disabled and will be set default values.
- Kişi Seç: Choosing a member. It can be chosen Hepsi for choosing all members. This step means that user can choose any ones articles only
- **Tarih Seçenekleri**: There are three options to determine constraints about date
 - Son x Makale: Means last 1 or 5 or 10 or 20 articles
 - ...Den İtibaren: Means "since any date"

- Son x Gün: Means 1 or 5 or 10 days' articles
- **Kaydet**: Saves the RSS feed.
- **Vazgeç**: No change is done. It also means "go back to main RSS page".

5.3 - GUIs Related To Web Mail:

Although it is easy to understand, we will explain some important parts of the below user interfaces. Also we will try to explain the idea behind.

ThykeTech kemal@thyketech.com Availar Yardin Quadar Yeni Posta Olustur Sil Spam Argivle Isarette I agu Postalar 1/1 Gelen Kutusu [venile] Yildiz Sil Spam Argivle Isarette I agu Postalar 1/1 Yildiz Posta Seç: !Limiùi Judzizliai Inicipii Jokunanalai fokunavaniai fok	🔜 Giriş Sayfası	
Yeni Posta Oluştur Selen Kutusu [venile] Yıldız Postalar [*] Postalar 1/1 Posta Seç: [timii] Yıldız Postalar [*] Postalar 1/1 Posta Seç: [timii] Yıldız Postalar [saretle] Komik Postalar [saretle] Komik Postalar [saretle] Siden Postalar [saretle] Soam Kutusu [temizle] Coo Kutusu [temizle] Kontak Listesi [veni] İzetak Arama [timii] İtzaslaklar Spam Detavk Arama [timii] İtzeleme [veni] Ditmetik Cevaplandıma [veni] Otomatik Cevaplandıma [veni] Posta Seç: [timii] İtimelene [veni] Sil Spam Arşivle [saretle] Tasiklar Som Kutusu Coo Kutusu Itemizle] Kontak Listesi [veni] İtab Kontaklar Itimii] İtab Kontaklar Itimii] İtab Kontaklar <	ThykeTech	kemal@thyketech.com <u>Ayarlar</u> <u>Yardım</u> <u>Çıkış</u>
Image: Second second	Yeni Posta Oluştur Gelen Kutusu [venile] Yıldızlı Postalar [*]	Sil Spam Arşivle İşaretle 🕶 Taşı 💌 Posta Seç: [tümü] [yıldızlılar] [hiçbiri] [okunanlar] [okunmayanlar] [<<] [<] [>] [>>]
Giden Postalar Iaslaklar Spam Kutusu Itemizle Cöp Kutusu Itemizle Kontak Listesi [yeni] Jubatik Chvketech.com Nubatik Chvketech.com Michael Resimier Eklentiler Filtreleme [yeni] Sil Spam Arşivle İşaretle V Taşt V Postalar 1 / 1 Posta Seç: Itumii Jubatik Cevaplandırma [yeni]	Dizinler [yeni] [düzenle] Fikra Postaları Komik Postalar Arif'den Seçmeler	Yıldız Konu Tarih Boyut [*] asli@thyketech.com İspanyolca Festivali 12.10.2006 17:30 13K
Spam Kutusu [temizle] Cöp Kutusu [temizle] Kontak Listesi [yeni] Hzik Kontaklar [timii] tozaslan@thyketech.com tozaslan@thyketech.com rulubatii@thyketech.com rulubatii@thyketech.com rbomeroqlu@thyketech.com filteleme Petayli Arama Sil Spam Arşivle [şaretle v Taşt v Postalar 1 / 1 Posta Seç: [timii] Posta Seç: [timii] [vidizlilar]	<u>Giden Postalar</u> <u>Taslaklar</u>	
Kontak Listesi [yeni] [düzenle] Hızlı Kontaklar [tümü] tozaslan@thyketech.com fulubatli@thyketech.com nbomeroqlu@thyketech.com Petaylı Arama Esimler Eklentiler Filtreleme [yeni] Sil Spam Arşivle İşaretle 🖤 Taşı 🖤 Postalar 1 / 1 Posta Seç: [tümü] Yuldzıllar [hicbiri] [soumatik Cevaplandırma [yeni]	Spam Kutusu [temizle] Cöp Kutusu [temizle]	
Detaylı Arama Image: Hizli Aramalar Resimler Eklentiler Filtreleme [veni] Sil Spam Arşivle İşaretle v Taşı v Postalar 1 / 1 Posta Seç: [tümü] [veni] [okunmayanlar]	Kontak Listesi [yeni] [düzenle]	
Filtreleme [yeni] Sil Spam Arşivle İşaretle Taşı Postalar 1 / 1 Otomatik Cevaplandırma [yeni] Posta Seç: [tümü] [yıldızlılar] [hicbiri] [okunmayanlar] [<<] [<] [>]	<u>Detaylı Arama</u>	
	Filtreleme [yeni] Otomatik Cevaplandırma [yeni]	Sil Spam Arşivle İşaretle 🗸 Taşt 🔽 Postalar 1 / 1 Posta Seç: <u>[tümü] [vıldızlılar] [hiçbiri] [okunanlar]</u> [okunmayanlar] [<<] [<] [>]

Yildizli Postalar holds the important mails that are starred by the user before. User can create new directories and can easily edit them. User can hold copy of the sent mails in **Giden Postalar** box. If the user does not have enough time to finish writing mail and sending, s/he can save it as draft mail into **Taslaklar** box and sends it later. So many times we encounter with unnecessary mails. In this project we will use some tools that will detect such kind of mails and collect them in the **Spam Kutusu**. As we may need to take back mails that are deleted by mistake, deleted mails collected in the **Cop Kutusu**. User may be so tidy in his/her job; s/he may want to categorize mails. With **Dizinler**, s/he can do it. User can add new contacts and can easily edit them. Also user may select contacts from Hizli Kontaklar in order to send mail quickly. User can search mails in directories and mail boxes. To ease user's job we will hold all the attachments separately and by the help of this user can search in attachments and pictures. User can make some filters to the incoming emails and can direct them. Some times user may go travel and need some static responses to the incoming mails. Then they can use **Otomatik Cevaplandirma** in our system and by defining criteria they can travel cheerfully. User can delete mails and can report mails if they are spam or not spam. Also in our system user may archive the selected mails and save them to their computer. User can mark mails as Okunmus, Okunmamis, Yildizli, and Yildizsiz and can select mails according to these properties. They can move mails as it can be seen in the Tasi... combo box from one directory to other. Besides user may have hundreds of mails, for that we serve mails page by page to increase the efficiency. Also by clicking **Avarlar** at the top, s/he can change its user settings. Also s/he can log out by using **Cikis**.

🔜 Yeni Posta	Oluştur 📃 🗖 🔀				
Gönder	Taslak Kaydet İptal				
Kime:	tolga@thyketech.com; fuat@thyketech.com				
Haber Grubu:	metu.ceng.test; metu.ceng.courses				
	CC Ekle BCC Ekle				
Konu:					
Ø	C:\Resimlerim\Wallpaper Images\woodup.bmp Gözat [iptal] [veni]				
	BIU J-T-T-T ₃ So ≧ Ξ Ξ Ξ Δ Ξ Ξ Ξ Δ _{Yazım Kontrolü}				
Gönder	Taslak Kaydet İptal				

Let me explain the above one. User can write new mails (also not written above but user will be able to reply / reply to all / forward mails). They can save mails as draft. Also they can add attachments. User can use rich text functionality and needs spell check after finish writing.

💀 Dizinler			
Yeni Dizin:	Kaydet		Dizin Ara
Dizin İşlemleri Seç: <u>(tümü) [hiçbiri]</u>	<u> </u>	Boşalt Arşivle	Dizinler 1 / 1 [<<] [≤] [≥]
İsim Fıkra Postaları Komik Postalar Arif'den Seçmeler	[veniden adlandır] [sil] [veniden adlandır] [sil] [veniden adlandır] [sil]		
Dizin İşlemleri	.	Boşalt Arşivle	Dizinler 1 / 1 [<<] [∠] [∠] [∠]

User can use directories to be tidy. S/he can add new directories, search directories. User will be able to mark all the mails in selected directories as **Okunmus**, **Okunmamis**, **Yildizli**, and **Yildizsiz** in **Dizin Islemleri...** combo box. Also s/he can empty selected directories. Archiving mails can be done after selecting directories and clicking **Arsivle**.

🔜 Kontak Listesi		
Posta Gönder Sil Seçenekler 🗸		Kontak Ara
👾 Kontak Ekle	😴 - <u>Kontak Listesi Ekle</u>	
İsim:	Liste İsmi:	
EPosta:	Kontaklar:	
Detaylar:		
Dosyadan Ekle Kaydet İptal	Dosyadan Ekle	Kaydet İptal
Kontaklarım Kontak Listelerim		
Seç: <u>[tümü] [hiçbiri]</u>		Kontaklar1/1 [<<] [<] [≥] [≥≥]
<u>İsim Detaylar</u> Dolga Özaslan tozaslan@thyketech.com	<u>Hızlı Kontakta Gösterilsin mi?</u> Hızlı Kontak Seçenekleri ✔	[düzenle]
Seç: <u>[tümü] [hiçbiri]</u> Posta Gönder Sil Seçenekler ✔		Kontaklar 1 / 1 [≤≤] [≤] [≥≥] Kontak Ara

Descriptions:

User can hold contacts/contact lists to save the address of friends. After that s/he can directly access to these contacts/contact lists and mail to them. Most of the parts of the above interface are the same and explained before (we think that standardization is important and tried to do them similar. So that user can be adapted to our system happily). The different part is **Dosyadan Ekle**. Here we will serve mechanism to save contacts to files and after if necessary user can add them back to the system. User can put some of the contacts into **Hizli Kontaklar** by selecting from **Hizli Kontak Secenekleri...** combo box. S/he can put important contacts to the **Hizli Kontaklar** by selecting **Her zaman**, or sometimes s/he can use **Hicbir zaman** or **Auto** settings. User can change the locations of the contacts in the **Settings...** combo box. User can move contacts from one contact lists to other or to new contact lists. Also s/he can select, delete contacts.

🖶 Detaylı Arama					
Ara Temizle Aramayı Dizinde Sakla: Dizin Etiketi: Seç: [tümü] [hicbiri] Fıkra Postaları Komik Postaları Arif'den Secmeler					
Alicilar: İçeriyor / İçermiyor: 💉					
Konu: İçeriyor / İçermiyor: 🗸					
Posta Metni: İçeriyor / İçermiyor: 💌					
Eklenti: İçeriyor / İçermiyor: 💌					
Tarih: Tarih Ayarları: 💌	03 Aralık 2006 Pazar 💌 [takvim]				
Aranacak Postalar:	Aranacak Posta Seçenekleri 🗸				
Ara Temizle					

Descriptions:

Detailed searching is very important. Users so many times need that. Here we have some ideas to help them. As it can be seen easily, s/he can search mails in selected directories. After searching s/he can put listed mails into newly created directory. The system checks written keywords in **Gonderen**, **Alicilar**, **Konu**, and Posta **Metni** fields. It also compares values with the **Eklenti** field and also look for the related time interval. From the **Aranacak Posta Secenekleri...** combo box user may select properties of mails (i.e **Okunmus**, **Yildizli**...)

🔜 Resim Arama	
Arşivle Resim Ara	Resimler 2 / 2
Seç: [tümü] [hiçbiri]	[≺<] [≤] [≥]
Karikatür Sigara Sagliga Zararli	
Seç: [túmú] [hiçbir]	Resimler 2 / 2
Arşivle Resim Ara	[<<] [↓] [▶] [▶]

Picture search is very useful part of our project. So many times, to find the picture in the attachments of mails, we searched all the mails with attachments. User can search pictures and archive selected pictures.

ulunan (25) : izinler:	Arşiv Seç: [/le	Eklenti	Ara	Eklentiler 4 / 25 [<<] [≤] [≥]
Fikra Postalari (19) Arif'den Secmeler (6)	1	<u>Eklenti İsmi</u>	Gönderen	Konu	<u>Tarih</u>
klentiler: <u>Resim (jpeg) (16)</u>		sig10hy.gif Photo (gif) (244)	Areoy AR	Sigara Sagiga Zaratlidet	Tue Feb 21, 200
Powerpoint (6) Resim (gif) (2) Diğerleri (1)		sig25W:jog Phota (pag) (17%)	Arsoy AP	Sigara Segliga Zeratlidit	Tue Feb 21, 20
osta Durumlari: <u>Yildizli (1.)</u> Xildizari (24.)		sig33ft.jog Photo (jong) (16%)	Arsoy AP	Sigara Sagiga Zaradidid	Tue Feb 21, 20
Okunmuş (24) Okunmamış (1)		sig(Tfy.)pg Photo (joeg) (154)	Areoy AR	Sigara Sagliga Zararlidir	Tua Feb 21, 20

Descriptions:

Attachment search is very important. User can search in attachments and archive selected attachments. Sort according to their name, topic date etc. User can see which attachment in which place. We will provide some useful information about locations and properties of attachments that correspond to search. (i.e we show the number of contacts in directories or types of contacts and dates etc...)

Yeni Filtre	Filtre Adi:					Dosyadan Ekle.
Kimden:	İçeriyor / İçermi	iyor:	✓ tolga@thyl	etech.com; me	tu.ceng.test	
Alicilar:	İçeriyor / İçermi	iyor:	🗸 fuat@thyk	tech.com; met	u.ceng.kult.sine	ema
Konu:	İçeriyor / İçermi	iyor:	×			
Posta Metni:	İçeriyor / İçermi	iyor:	~			
Eklenti Adı:	İçeriyor / İçermi	iyor:	~			
Eşleme İçin: Üstte İletileri Yı İletileri Si Ü Yönlendi	iki Seçeneklerin H Idızla il	Hepsi k@thyketeo	Ch.com; metu.cen	Seçeneklerin l	Herhangi Biri	
Eşleme İçin: Üstte İletileri Yı İletileri Si ÜYönlendi İletileri Ta	iki Seçeneklerin H Idızla il ir: bura aşı: Hedi	Hepsi k@thyketeo ef	Ch.com; metu.cen	Seçeneklerin İ .kult.dizi	Herhangi Biri	Kaydet
Eşleme İçin: Üstte İletileri Yı İletileri Si Yönlendi İletileri Ta Seç: <u>[tümü]</u>	iki Seçeneklerin H Idızla il ir: bura aşı: Hedu <mark>hiçbiri] Sil</mark>	Hepsi k@thyketec ef	☐ Üsttek ch.com; metu.cen	Seçeneklerin l .kult.dizi	Herhangi Biri Filtre Ara	Kaydet Filtrelerim 2 / 2 [<<] [<] [>] [>]
Eşleme İçin: Üstte İletileri Yı İletileri Si Yönlendi İletileri Ta Seç: <u>[tümü]</u>	iki Seçeneklerin H Idızla il ir: bura aşı: Hedu <mark>hiçbiri] Sil</mark>	Hepsi k@thyketec ef Filtre Se	☐ Üsttek ch.com; metu.cen <u>Etkin mi?</u>	Seçeneklerin I .kult.dizi	Herhangi Biri Filtre Ara	Kaydet Filtrelerim 2 / 2 [<<] [<] [≥] [≥∑

Filtering is a very popular and useful idea. Most important thing in filtering is forwarding mails and automatically deleting unwanted mails. As above, user can add more than one filter. User also can add new filters from file. After setting keywords, user determines what s/he wants to do with incoming mails that fit into defined filter. User can forward mails to different email addresses / email lists / news groups. Also s/he can move mails to defined directory instead of **Gelen Kutusu**. Setting filters active or deactivate is important and user can edit these options. Also user can delete filters.

🛃 Otomatik Cevaplandırma		
 Otomatik Cevaplandırma Ekle Otomatik Cevaplandırma Adı: 		Dosyadan Ekle
Yigin yada liste iletileri Yanıt Gönderilmeyecek Adresler:	re cevap gonderme	
Tüm Gelenlere Vanıt Gönderilmeyece	L Sadece konta k Adresler Haricindeki Tüm Gelenlere ilecek Adreslere	aklarima
Otomatik Posta Konusu:	C:\Resimlerim\Wallpaper Images\woodup.bmp	Gözat [iptal] [yeni]
Otomatik Posta Metni:	₿ <i>ӏ</i> <u></u> <i>Ӻ</i> т <u>т</u> , <u>т</u> <u></u> <u></u> <u></u> <u></u> <u></u>	≣≣⊥ <u>Yazım Kontrolü</u>
	· I	Kaydet iptal
Arşivle Sil Seç: <u>[tümü] [hicbiri]</u>	Otomatik Cevaplandırma Ara	Otomatik Cevaplarım 1 / 1 (조 조 호 호
İsim D Arkadaşlarıma	Etkin mi? Otomatik Posta Seçenekleri	
Seç: <u>(tümü) [hicbiri)</u> Arşivle Sil	Otomatik Cevaplandırma Ara	Otomatik Cevaplarım 1 / 1 [<<] [∠] [∠] [>>]

Otomatik Cevaplandirma is a mechanism that mostly used when user go on a holiday. User can add new **Otomatik Eposta**. After addition user can activate or deactivate it. Besides s/he can archive or delete them.

Ayarlar		
Görünecek İsmim: İkincil EPosta:	Nurettin Burak ÖMEROĞLU	
Sayfa Başına Maksimum Posta Sayısı: Resmim:	25 🔽 Yükle İptal	Gözat
İmzam:	Değişiklikleri Kaydet	İptal

Generally we are bored when we have to fill so many text boxes, combo boxes and so on. We minimized settings for user not let him/her be bored. User can add more than one email to our system. S/he can edit name and picture in the system. Can put signature that shown at the end of each mail. Also user can set the number of the mails per page.

5.4 - GUIs Related To Mail Lists – (Groups):

🔜 Genel					
Gruplarım [veni] [düzenle] odtu iletisim-[sahibi] [vönet] fen lisesi 2004	Seç: <u>(tùmù)</u> [hicbiri]	Terket			Gruplarım 2 / 2 [≤≤] [≤] [≥]
Profilim Detaylı Arama	<u>İsim</u> <u>odtu iletisim-[sahibi]</u> ☐ <u>fen lisesi 2004</u>	<u>Üye Sayısı</u> 23 121	Kullandiği Eposta burak@thyketech.com nbomeroglu@gmail.com	<u>Erişim Düzeyi</u> Kısıtlı Herkese Açık	[vönet] [üve ekle]
Grup Ara	Seç: <u>(tümü) [hiçbiri</u>]	Terket			Gruplarım 2 / 2 [<≤] [∠] [∠]

Descriptions:

Here, we used **Grup** instead of **Eposta Listesi** as users adapted this usage. User will define his/her groups. S/he can add new groups and edit settings of the groups. Also s/he checks the **Profilim** for changing personal information. User can search groups that are defined in our system or use detailed search if necessary. User can leave groups, edit groups.

😸 Genel Grup Özellikleri		
burak@thyketech.com - Grup Sahibi Odtù İletişim Topluluğu	odtu_iletisim@thy	ketech.com <u>Avarlar Yardım Çıkış</u> Yeni Grup <u>Gruplarım Profilim</u>
Ana Sayfa [yenile] Postalar [ekle]	Posta Seç: <u>[tümü] [hiçbiri]</u> Sil Arşivle	Postalar 1 / 1 [<≤] [≤] [≥] [≥≥]
Dosvalar [ekle] Anketler [ekle] Üveler [ekle] Beklevenler	Kimden Konu asli@thyketech.com İspanyolca Festivali	Tarih Bovut 12.10.2006 17:30 13K
Posta Ara Detayli Arama Eklenti Ara Resim Ara		
Dosya Ara Anket Ara	Posta Seç: <u>[tümü] [hiçbiri]</u> Sil Arşivle	Postalar 1 / 1 KS KS D
Uye Ara	Mesaj Geçmişi:	
Grup Bilgisi Uye Sayısı: 23	Jan Feb Mar Apr May Jun Ju Aug Sep Oct Nov Dec 2005 19 2 17 7 4 7 11 1 4 10 3 2004 23 7 2 6 6 3	
Grup Özellikleri Erisim Düzevi: Kısıtlı	E	
Grup Posta Adresleri: Grup Adresi: fen_lisesi_2004@thy Abonelik: fen_lisesi_2004-abone@ Abonelik Iptali: fen_lisesi_2004-ab Grup Sahibi: fen_lisesi_2004-sahij	ketech.com Ythyketech.com one_iptal@thyketech.com @thyketech.com	

In **Genel Grup Ozellikleri** window, user can add new mail to the group. Add new file and poll to the system. S/he can follow members from **Member** link and also response to **Bekleyenler**. As it is important to find uploaded files, attachments, polls, pictures and so on, we can so detailed search. User can archive mails in the group and delete mails if the settings let. Another useful thing is the message calendar that shows the numbers of incoming mails in months. User can sort rows according to their **to**, **konu**, **date**, **and size**. User can change his/her personal settings from **Ayarlar** from the left-top. Also some useful information about groups can be put at the left of the page.

•	Gruba	Posta	a Göne	der								
0							0					.
	Kime:		odtu_il	etisimi	@thykete	ch.com						
	Kimden:		burak@	⊇thyk	etech.cor	n						
	Konu:											
		Ø	C:\Res	simlerii	m\Wallpa	per Images\w	oodup.bmp		Gözat	[iptal]	[veni]	
0			B I	Ū	£∙тГ∙	T ₂ T ₂ 🙁] 	E ₹ ₹	T,	<u>Yazım Kontro</u>	
ō							0					
									G	önder	İptal	

Instead of writing mails in the webmail user interface, user can directly and easily post mails to the groups. Also s/he can add so many attachments. **To** and **From** settings will be defined beforehand.

😸 Dosyalar				
🛒 Yeni Dosya				
Dosya Adı:				
0	C:\Resimlerim\Wallpaper Imag	es\woodup.bmp	Gi	izat <u>[iptal]</u>
Anahtar Kelimeler:				
🔲 Dosya eklendiğini grup s	sahibine eposta ile bildir			
🔲 Dosya eklendiğini herke	se eposta ile bildir			
			Yükle	İptal
Arşivle Sil		Dosya Ara	Di	osyalar 4 / 25
Seç: <u>[tumu] [hiçbiri]</u>				
<u>Dosya Adı</u>	<u>Gönderen</u>	<u>Konu</u>	<u>Tarih</u>	
🔲 Toplantı Notları - 1	burak@thyketech.com	Haftalik toplanti	05.11.2006	[düzenle]
🔲 🛛 Toplantı Notları - 2	burak@thyketech.com	Haftalik toplanti	12.11.2006	[düzenle]
🔲 🛛 Toplantı Notları - 3	burak@thyketech.com	Haftalik toplanti	19.11.2006	[düzenle]
🔲 Toplantı Notları - 4	burak@thyketech.com	Haftalık toplantı	26.11.2006	[düzenle]
Sec: [tümü] [hicbiri]			Di	osyalar 4 / 25
Arşivle Sil		Dosya Ara	[<u>>></u>	K D DN

User can select / deselect file name. User can archive files in desktop computer not to lose any data. Sort files according to their **Dosya Adi, Gonderen, Konu, and Date.** Also it can be edited. User can delete unnecessary lectures, **Haftalik Toplanti.** Important part will be **anahtar kelime** for files. It must be consistent for files.

🔜 Anketler				
🔄 Yeni Anket				
Anket Adı:	Şampiyonluk			
Anket Sorusu:	Sizce Bu Sene Kim Şarı	npiyon Olur?		
Anket Seçenekleri:	Fenerbahçe; Galatasara	ay; Beşiktaş; Trabzon; Ve	stel Manisaspor	
🔘 Tek Seçimli	🔘 Anket süresin	ce sonuçları göster	🔘 Kapalı oylama	
🔘 Çok Seçimli	🔘 Anket sonund	la sonuçları göster	🔘 Açık oylama	
O Elle kapat O <u>03 Aralık 2</u> Anket eklendiğir Anket eklendiğir	006 Pazar 💌 tarihinde kapat ni grup sahibine eposta ile ni herkese eposta ile bildi	○ Anket tar ○ Anket tar e bildir ir	namlandığında sonuçlerı namlandığında anketi olu	herkese gönder şturana gönder Oluştur İptal
Arşivle Sil		Anket Ara]	Anketler 0 / 0
Seç: <u>[tumu] [hiçbiri]</u>				
<u>Anket Adı</u>	<u>Oylar</u>	<u>Oluşturan</u>	<u>Oluşturma Tarihi</u>	<u>Bitiş Tarihi</u>
Seç: <u>[tùmù] [hicbiri]</u>				Anketler 0 / 0
Arşivle Sil		Anket Ara)	

Users can share their opinions by adding polls. Define the settings of polls and may be transfer the mail to the owner of the group. We also categorized polls and by clicking **Arsivle** we can take all the mails to our computer harddisk. We can delete polls. We can search for polls.

🔜 Üyeler				
<u>Oye Ekle Tüm Öyeler Bel</u> Sil Yasakla Seç: <u>[tümü] [hiçbiri]</u>	deyenler <u>Yasaklananlar</u> Uyelik Tipi Seçenekleri	Uye Ara	Ûyeler ∠∠ ∠	4 / 23 D DD
Eposta	<u>Rumuz</u>	Katılım Tarihi	<u>Oyelik Tipi</u>	[düzenle]
burak@thyketech.com	Kanarya	05.11.2006	Grup Sahibi	
necati@thyketech.com	Polat	14.11.2006	Nye	
kenan@thyketech.com	Miroğlu	15.11.2006	Oye	[düzenle]
	Hebele	17.11.2006	Oye	[düzenle]
Sil Yasakla	Üyelik Tipi Seçenekleri	Úye Ara	Ûyeler	4 / 23
Seç: <u>[tümü] [hiçbiri]</u>		Tamam	[≺<[<]	[>] [>>]

Members of the group can be seen in the above interface. We can delete and ban members. We can decide what to do on **Bekleyenler**. We can change **Yasaklananlar** list. We have 3 kinds of membership types. These are Grup Sahibi, Uye ve Digerleri. We can search selected eposta from **Uye Ara** combo box.

🔜 Grup Kur & Üye Ekle		
🛒 Yeni Grup		
Grup Adı:		
Grubun Eposta Adresi:		@thyketech.com
Grubun Tanımı:		
	Sadece Yetişkinler	
Erişim Düzeyi:	Düzey Tipleri 🔽	
Kontrol Resmi:	M7287F	
	Kaydet	İptal
🖼 <u>Oyeler Ekle</u>		
Eposta Adresleri:		
	O Davet Et O Ekle	
Hoşgeldiniz İletisi:		Kaydet İptal

This page is the opening page of the **Grups**. User can add new grup from "Yeni Grup". Users must be accessed. In the **Duzey Tipleri...** we hold the settings for gmail. User must be passing from the control picture before getting the mail list. User can add new users. User can invite or sometimes add new **eposta adresleri**. Also users put some welcome text.

📰 Posta Detaylı Arama 📃 🗖 🔀									
Ara Temizle									
Gönderen:	İçeriyor / İçermiyor:	~							
Alicilar:	İçeriyor / İçermiyor:	*							
Konu:	İçeriyor / İçermiyor:	~							
Posta Metni:	İçeriyor / İçermiyor:	~							
Eklenti Adı:	İçeriyor / İçermiyor:	~							
Tarih:	Tarih Ayarları:	~	03	Aralık	2006	Pazar	~		
🔲 Sadece Eklentili Postalarda Ara									
Ara Temizle									

As we said earlier, we have seen searching in detail. User checks written keywords with **Gonderen** contain or not, **Alicilar** contain or not, **Konu** contain or not, **Posta Metni** contain or not, **Eklenti yok** contain or not, time interval.

	🔚 Detaylı Grup Arama 📃 🗖 🔀				
(Ara Temizle				
	Grup İsmi:	İçeriyor / İçermiyor: 🖌 hayvan; kedi; köpek			
	Grup Konusu:	İçeriyor / İçermiyor: 💌 komiklik; şakalar			
C	Grup Sahibi Adı:	İçeriyor / İçermiyor: 🗸 Ahmet Uslu			
	Grup Üye Sayısı:	10 🕑 ile 100 💟 arasında			
	Grubun Posta Sayısı:	100 🔹 ile 1000 🐱 arasında			
	Grubun Kuruluş Tarihi:	03 Aralık 2006 Pazar 💌 ile 03 Aralık 2006 Pazar 💌 arasında			
(Ara Temizle	O			

User can search groups in our system. S/he can search groups according to the group name, group subject, owner of the group, the number of the member, the interval of the opening dates. After setting these properties, we will search and clear.

🖶 Profilim				
Tercihlerim: Grup yöneti Grup yöneti	cilerinin beni grupl cilerinin beni grupl	arına davet etmesine izin verme arına doğrudan eklemelerine izin verme	Tercihleri Kaydet	
Eposta Adreslerim:				
Birincil Eposta A	dresim:	burak@thyketech.com		
Alternatif Eposta	a Adreslerim:	nbomeroglu@gmail.com		
			Epostaları Kaydet	
İsim:	Nurettin Burak ÖMEROĞLU]	
Rumuz:	Kanarya]	
Yer:	Ankara]	
Onvan:	Üğrenci]	
Web Sitesi:]	
Detaylar:				
			Profil Kaydet	

Descriptions:

We have written the important settings for user and owner of the group. User can change its own profile which contains name, nick, location, superscription, and web site, others... User can be easily adding extra **eposta adresleri** into their profile. Sometimes users may not want any invitations and any automatic adding to the groups, so s/he can block these properties.

🔡 Ayarlar	
Grubu Sil Grubu Terket 😴 Tanımlama Ayarları	😴 Grup Ayarları
Grup Adı: Grubun Eposta Adresi: Grubun Tanım: Sadece Yetişkinler	Dosya Ayarları: Oyeler (yükleme/değiştirme/indirme yapar) Limitli (Üyeler indirebilir/Grup sahibi yükleme/değiştirme yapar) Grup sahibi (yükleme/değiştirme/indirme yapar) Kapalı (dosya eklenmez) Anket Ayarları: O Üyeler (oluşturma/değiştirme/oylama yapar)
odtu_iletisim@thyketech.com Değişiklikler konusunda üyeleri bilgilendir Değişiklikler Konusunda üyeleri bilgilendir	 Limitli (Üyeler oylar/Grup sahibi oluşturma/değiştirme yapar) Grup sahibi (oluşturma/değiştirme/oylama yapar) Kapalı (anket eklenmez) Değişiklikleri Kaydet iptal
 Yeni birisi gruba girdiğinde / gruptan çıktığında eposta gönd Bekleyen üyeler varsa eposta gönder 	er Değişiklikleri Kaydet İptal

Group owner can delete group by clicking **Grubu Sil.** Member can leave grubu by just clicking **Grubu Terket**. Grup owner can change **Grup name, Grup Epostalari, Grubun Tanimi, Erisim Duzeyleri.** After clicking **Degisiklikleri Kaydet** all the settings applied to the current views. Also user can edit file settings and poll settings as can be seen at right. Also if user wants, s/he can let other people know changes in the system.