

The background of the slide is a deep blue gradient. On the left side, there is a stylized, semi-transparent globe showing latitude and longitude lines. Overlaid on the globe are several glowing blue lines that represent a network or data flow, some of which are wavy and others more straight. The overall aesthetic is high-tech and digital.

Javamail API

Mrežno i distribuirano programiranje

Mail protokoli

- SMTP
 - Simple Mail Transfer Protocol
 - koristi se za slanje poruka od klijenata ka mail serveru
 - koristi se za slanje poruka između mail servera
- POP3
 - Post office protocol
 - Trenutno – verzija 3
 - koristi se za „dohvatanje“ poruka iz mailbox-a klijenta
- IMAP
 - Internet Message Access Protocol
 - Trenutno – verzija 4
 - napredniji protokol za pristup e-mail porukama
 - dozvoljava upravljanje višestrukim folderima na serveru, periodične backup-e i dr.

Java Mail

- Java Mail API – API za slanje i prijem e-mail poruka
- opcioni API za Java SE
- uključen je u Java EE
- Podržava sljedeće protokole:
 - SMTP
 - POP
 - IMAP
 - MIME

Java Mail

- za rad sa mail-om potrebni su:
 - JavaMail Reference Implementation
 - https://javaee.github.io/javamail/#Download_JavaMail_Release
 - https://javaee.github.io/javamail/#API_Documentation

Java Mail

- Važne klase:
 - Session
 - Message
 - Address
 - Transport
 - Store
 - Folder

Java Mail

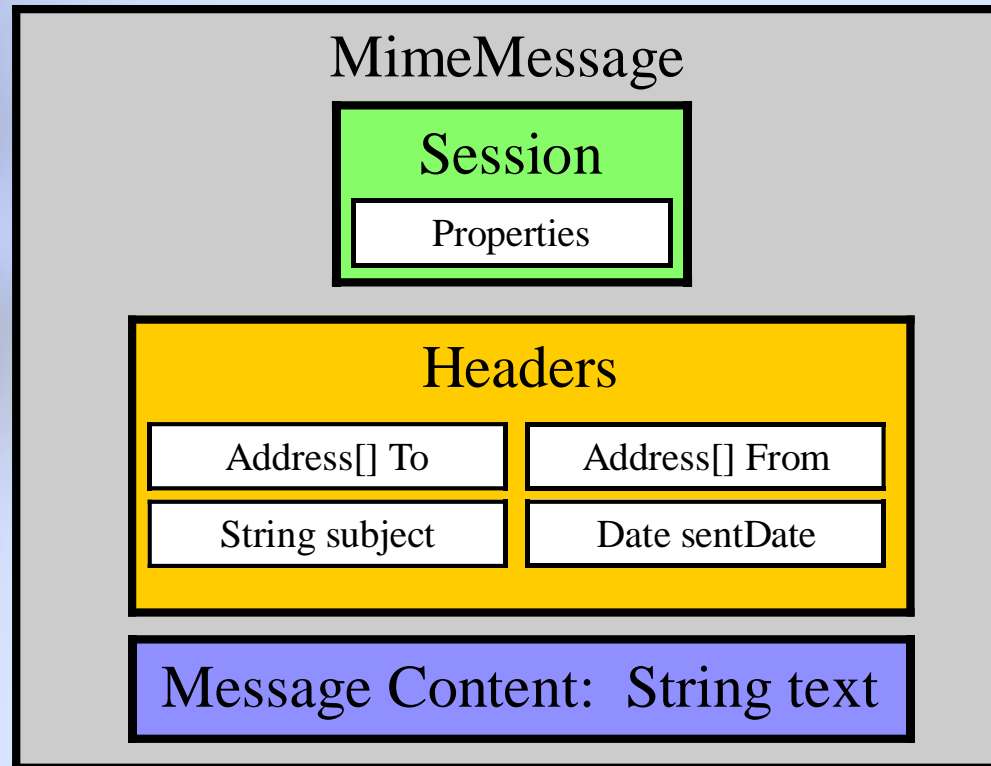
- Session
 - paket javax.mail
 - definiše mail sesiju
- Message
 - paket javax.mail
 - predstavlja email poruku koja je kreirana i spremna za slanje ili primljena
 - apstraktna klasa
 - MimeType – klasa nasljednica koja se obično koristi za rad s mail porukama
- Address
 - paket javax.mail
 - predstavlja email adresu
 - apstraktna klasa
 - javax.mail.internet.InternetAddress – klasa nasljednica Address klase

Java Mail

- Transport
 - ova klasa implementira protokol – obično SMTP
- Store i Folder
 - kad preuzimamo poruku
 - kreiramo sesiju
 - povezujemo se na store pomoću korisničkih kredencijala
 - pristupamo određenim folderima (obično inbox folderu)
 - preuzimamo poruke

Java Mail

- Poruka



Java Mail

- Slanje poruke

```
Properties p = System.getProperties();  
p.put("mail.smtp.host", "202.125.140.71");
```

```
Session s = Session.getDefaultInstance(p,null);
```

```
Message m = new MimeMessage(s);
```

```
InternetAddress to = new InternetAddress("it@etf.unibl.org");  
InternetAddress from = new  
    InternetAddress("bill_gates@microsoft.com", "Bill Gates");
```

```
m.setContent("tijelo poruke", "text/plain");  
m.setFrom(from);  
m.setRecipient(Message.RecipientType.TO, to);  
m.setSubject("Naslov");
```

```
Transport.send(m);
```

Java Mail

- Čitanje poruke

```
Properties props = new Properties();  
Session session = Session.getDefaultInstance(props,  
null);
```

```
Store store = session.getStore("pop3");  
store.connect(host, username, password);
```

```
Folder folder = store.getFolder("INBOX");  
folder.open(Folder.READ_ONLY);
```

```
Message message[] = folder.getMessages();
```

```
for (int i=0, n=message.length; i<n; i++) {  
    System.out.println(i + ": " +  
        message[i].getFrom()[0] + "\t\t" + message[i].getSubject());  
}
```

```
folder.close(false);  
store.close();
```

gmail – programsko slanje mail-a

- Allow less secure apps: ON

