# Email Service Protocol Descriptor

**Host:**                     127.0.0.1/localhost

**Port:**                     8081

**Transmission Encoding:**    Text

**Protocol:**                 Tcp

**Message Format:**

*Request to Signup:*

>     Client request:                    signup%%$username%%$password
>
>         Server response for added:      SIGNUP
>
>         Server response for failure:    FAILED

*Request to Signin:*

>     Client request:            signin%%$username%%password
>
>         Server response for success:        SIGNEDIN
>
>         Server response where no file:          FAILED

*Request to view all emails:*

>     Client request:            viewAll
>
>         Server response:
>
>     $sender%%$sentDate [##$sender%%$sentDate%%$subject%%$content
>     ]*

*Request to view single email:*

>     Client request:            singleEmail
>
>         Server response:
>
>     $sender%%$sentDate%%$subject%%$content

*Request to view single email:*

Client request: markRead%%email

Server response for read: MARKED

Server response for email not found: FAILED


*Request to send Email:*

Client request: send%%subject%%content%%receiver

Server response for read: SENT

Server response for email not found: FAILED

*Request to send spam:*

Client request: markSpam

Server response for read: SPAMMED

Server response for email not found: FAILED

*Request to send delete:*

Client request: delete&&email%%id

Server response for read: DELETED

Server response for email not found: FAILED


*Request to close the client's session with the server:*

Client request: logout

Server response: GOODBYE

## Sequence Diagram:

```
    ┌──────────┐                              ┌──────────┐
    │  Client  │                              │  Server  │
    └──────────┘                              └──────────┘
         │                                         │
         │  signup%%$miguel%%$elpayaso             │
         │────────────────────────────────────────>│
         │                                         │
         │            SIGNEDUP                     │
         │<────────────────────────────────────────│
         │                                         │
         │      signin%%$miguel%%$elpayaso         │
         │────────────────────────────────────────>│
         │                                         │
         │            SIGNEDIN                     │
         │<────────────────────────────────────────│
         │                                         │
         │            viewAll                      │
         │────────────────────────────────────────>│
         │                                         │
         │  test@gmail.com%%27march2021%%testing1%%paseloqu
         │  epase,aminomeimporta                   │
         │<────────────────────────────────────────│
         │                                         │
         │       test@gmail.com%%11                │
         │────────────────────────────────────────>│
         │                                         │
         │            DELETED                      │
         │<────────────────────────────────────────│
         │                                         │
         │────────────────────────────────────────>│
         │                                         │
         │<────────────────────────────────────────│
         │                                         │
         │              ...                        │
         │                                         │
         │             logou                       │
         │────────────────────────────────────────>│
         │                                         │
         │            GOODBYE                      │
         │<────────────────────────────────────────│
         │                                         │
```