

Email System Database:

The system's main functionality is to store incoming and outgoing emails and their attachments for a specific email account.

The system will consist of service providers, users, and emails.

Service Provider

- A service provider has an id, name, domain, POP server, IMAP server, SMTP server, ports for each server, SSL flag.

Users

- A user has an id, first name, last name, email, password, and a service provider.

Emails

- Emails are divided into two categories sent emails and received emails.
- Emails are identified by an email number that should be unique. Emails consist of multiple destinations, a sender, multiple attachments, a source mailbox, a timestamp, a subject and a body.
- Received emails should have a priority flag, and spam flag.
- Sent emails may have a category and an importance flag.
- The attachments consist of a unique id number, the email's header, an extension and the file itself.