**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.