## Tables

|  |
| --- |
| **users** |
| id |
| email |
| encrypt\_password |
| status |
| created\_at |
| updated\_at |

|  |
| --- |
| **folders** |
| id |
| name |
| user\_id |
| created\_at |
| updated\_at |

|  |
| --- |
| **private\_emails** |
| id |
| subject |
| body |
| folder\_id |
| attachment\_count |
| created\_at |

|  |
| --- |
| **attachments** |
| id |
| email\_id |
| file\_name |
| size |
| file\_type |
| file\_path |
| status |
| created\_at |

## Email Subject format

**Subject:**  [keyword] Real Subject Line

**Body:** Body Text

**Attachments:** read the configure file to know which format need handle

## Configuration

attachement\_root\_path = /var/IIMAttachment

accepted\_file\_format=psd,xls,xlsx,doc,docs,ppt,pptx

pop3 server=pop3.xxx.com

account=username

password=security code

port=110

## Assumption

No log to write in current stage

## Process

1. Get the Email subject and metadata
   1. Get the user id from **users** table by source email address
   2. Get the keyword from subject, no case sensitive
   3. Get the folder id from **folders** table by name=keyword(1.b) and user\_id=user id(1.a)
   4. If folder id not found, ignore this email
2. Get the email body and attachments
   1. Filter all attachment, only keep required ones by compare the suffix to ‘accepted\_file\_format’
   2. Insert a new record to **private\_emails** table
      1. Id - auto
      2. Subject – form step 1
      3. Body – from step 2
      4. Folder\_id – from step 2.d
      5. Attachment\_count – from step 2.a
      6. Created\_at – Now
3. Loop for all kept attachments, save them and create records
   1. Save attachment to ‘attachement\_root\_path’/userid/folderid/hash(filename).suffix
   2. Create the record in table attachments
      1. Email\_id – private\_emails.id
      2. File name – the real file name
      3. Size – the unit is MB
      4. Type – the suffix
      5. Path – the path from step 3.a
      6. Status – No need to insert, set a default value for insert

## Question

1. How to handle rich format and text based Email body? We only need the text, no format is required