

MULTITHREADED EMAIL SERVICE

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Problem Statement

- Mass Mailing (usually in applications with many users) takes lot of time (hours?)
- Load on the application increases while Mass Mailing
- Can we send an HTML template as the mail body while mass mailing?

Methodologies

- **.tmplt** files are used to create a template of the mail that you wish to send. A template file has 3 parts.
 - Subject
 - Text content
 - HTML content
 - Each of these sections are separated by 3 tilde characters "~~~".
- We have created a python **library** that can read this tmplt file and have methods to login to the smtp server and send the mails.
- **Execution:** Using the concept of multithreading to increase the speed at which mails are sent and also decrease load on the application.

Outcomes

- Able to increase the speed (mails/sec) at which mails are sent
- If there are any duplicate mails in the csv, because we are sending mails parallelly, the smtp server will not send the duplicates.
- Able to send HTML template as mail body and read data from csv files.
- Can send attachments with the mail as well.

Lessons Learned

- Using the concept of Multithreading, we can increase the speed at which we send the mails very significantly.
- We can increase the performance of the application.