Ingé1 - Unix LAB 3 - Regular Expressions

ESME Bordeaux-Lille-Lyon-Paris

Exercise 1: Email Address Verification

- Q1. Write the regular expression to find email addresses. The regular expression must adhere to the format of a valid email address and verify the following conditions:
 - The username is a non-empty string that can contain letters, digits, hyphens, underscores, and dots.
 - Only letters, digits, periods, and hyphens are allowed in the domain name, which must be at least 2 characters long.
 - The domain extension consists of 2 to 5 lowercase letters.

Exercise 2: Searching for lines in a file

Write the regular expression to:

- Q1. Search in the file /etc/passwd for lines where the first letter can be any character, and the second letter must be o.
- Q2. Search in the file /etc/passwd for lines that start with u.
- Q3. Search for lines that do not start with u.



Exercise 3: Metacharacters in regular expressions

Consider the following file, phone.txt:

Durand, Sophie: 4-5471 Bigard, Jean-Marie: 8-7463 Roumanoff, Anne: 3-8456 Satriani, Joe: 7-1554

Saintlazar, Rob: 5-8451

Vai,Steve:7-9547 Maiden,Iron:9-6669

- Q1. Display lines where the phone number starts with a 5 and ends with a 1.
- Q2. Display lines where the last name starts with an S and the first name starts with an R.
- Q3. Display lines where the last name starts with letters ranging from M to Z.
- **Q4.** Display lines where the last name starts with letters ranging from M to Z and the phone number ends with either a 1 or a 2.
- Q5. Display lines where the first name is composed of four characters.