

Testing Plan

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Introduction:

This document will describe the project course of action, the final goal and also what kind of test have to be done with user story and acceptance criteria.

Goal:

The purpose of the application is to validate email addresses.

- **Tested elements:**
 - ensure that the username or user tag is present in the address
 - ensure that the '@' is present as well
 - ensure that a domain name terminated by '.com' or any other suffix.
- **Untested elements:**
 - user inputs
 - UI/UX
 - application performance

Environnement:

- **OS:** N/A cause we will use docker to deploy the app
- **IDE:** Visual Studio Code
- **Python version:** 3.13.1
 - <https://www.python.org/ftp/python/3.13.1/python-3.13.1-amd64.exe>
- **Testing framework:** pytest 8.3.4
 - <https://pypi.org/project/pytest/>

Testing case:

User story 1:

Acceptance criteria 1:

- Ensure that there is a name in the address before the '@' sign.

Acceptance criteria 2:

- Ensure that the '@' sign itself is present in the address.

Acceptance criteria 3:

- Ensure that there is a domain name and a suffix such as '.com' at the end, after the '@' sign.

ID	Acceptance criteria	Title	Description	Requirements	Steps	Test data	Expected result
1	1	There is a name in the address before the '@' sign	Check if there is a name before the '@' sign.	The software is installed and running.	Check if there is a name before the '@' sign.	john@doe.com	true
2	1	There is a name in the address before the '@' sign	Check that the email cannot begin with the '@' sign.	The software is installed and running.	Check that the email cannot begin with the '@' sign.	@doe.com	false
3	1	There is a name in the address before the '@' sign	The email can have multiple names separates by a point.	The software is installed and running.	The email can have multiple names separates by a point.	john.doe@mail.com	true
4	2	There is the '@' sign in the email	Check if there is an '@' sign in the email	The software is installed and running.	Check if there is an '@' sign in the email	john@doe.com	true
5	2	There is the '@' sign in the email	Check if there is not an '@' sign in the email	The software is installed and running.	Check if there is not an '@' sign in the email	john.doe.com	false
6	2	There is the '@' sign in the email	Check if there is only one '@' sign in the email	The software is installed and running.	Check if there is only one '@' sign in the email	john@doe@test.com	false
7	3	There is a domain name and a suffix in the email	Check if there is a domain name with a suffix.	The software is installed and running.	Check if there is a domain name with a suffix.	john@doe.com	true
8	3	There is a domain name and a suffix in the email	Check if there is a suffix as '.com'.	The software is installed and running.	Check if there is a suffix as '.com'.	john@doe	false
9	3	There is a domain name and a suffix in the email	Check if there isn't a domain name.	The software is installed and running.	Check if there isn't a domain name.	john@.com	false