*CLONE-PORTAL-PROJECT*

**DATA VALIDATION DOCUMENT**

***Version<1.1>***

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 08/06/2023 | 1.0 | Started | Le Huu Trong |
| 14/06/2023 | 1.1 | Update account data validate (modify account password), create subject validate, create User name validate. | Truong Van Chi |
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|  |  |  |  |

# USER DATA VALIDATION

## User identification

* Length must be 5 characters:

Example: “S1212” (correct), “S231” (wrong)

* Start characters:
  + Manager: must be start with “M”
  + Student: must be start with “S”
  + Teacher: must be start with “T”
* User id is unique data

## User name

* User name must be data type string utf-16
* Maximum 100 characters
* User name contain first name and last name  
  Example: Trương Văn Chí, Lê Hửu Trọng (correct).   
  LeeNguye, PhanNguyen, Hung (incorrect).

## User gender

User gender must be “male” or “female”

## User email

* User email must be Gmail form:

Example: “[abc@gmail.com](mailto:abc@gmail.com)”, “[xyz@gmail.hcmus.com.vn](mailto:xyz@gmail.hcmus.com.vn)”

* Updating….

# ACCOUNT DATA VALIDATION

## Account identification

Account identification is user identification

## Account password

* Maximum characters: The minimum length account password is 8 characters, the maximum length account password is 24 characters
* Account password must be data type utf-8
* The characters must be contained:
* At least 1 lower character
* At least 1 upper character
* At least 1 number
* At least 1 special character

# SUBJECT DATA VALIDATION

## Subject identification

* Length must be 8 characters
* Start with 3 characters are letter and 5 characters are number.
* All letters are upper case
  + Example: MTH00001, CSC10002, …

## Subject name

* Maximum characters: The maximum length subject name is 100 characters
* Subject name must be data type string utf-16

Example: Nhập môn công nghệ phần mềm, Xác suất thống kê, …

## Subject credits

* The data type is int 8 byte
* The value: Minimum 2, maximum 10