# Test Data for Spirathon Login

## Equivalence Class Partitioning

The login field has 2 input fields: Email & Password.

### For Email:

We can divide the data into 3 classes.

**Class 1:**

Valid Email addresses with correct format. Example: user1@gmail.com

**Class 2:**

Invalid Email addresses with incorrect format. Example: user@.com, email.com, etc

**Class 3:**

Empty email field.

### For Password:

We can divide the data into 3 classes.

**Class 1: Valid Passwords**

Passwords with at least 8 characters, one uppercase letter, one lowercase letter, one digit & one special character. Example: P@ssword\_321

**Class 2: Invalid Passwords**

* Password with less than 8 characters. Example: P@ss1
* Password with no uppercase letter. Example: password\_321
* Password with no lowercase letter. Example: PASSWORD\_321
* Password with no numbers. Example: P@ssword
* Password with no special characters. Example: Password321
* Password with only whitespaces.

**Class 3:**

Empty Password field.

### Test Data:

* **Valid Email, Valid Password**

Example:

Email: user1@gmail.com

Password: P@ssword\_321

* **Valid Email, Invalid Password**

Example:

Email: user1@gmail.com

Password: password\_321

* **Invalid Email, Valid Password**

Example:

Email: user1@.com

Password: P@ssword\_321

* **Invalid Email, Valid Password**

Example:

Email: user1@.com

Password: password\_321

* **Empty Email, Valid Password**

Example:

Email: “”

Password: P@ssword\_321

* **Valid Email, Empty Password**

Example:

Email: user1@gmail.com

Password: “”

* **Empty Email, Empty Password**

Example:

Email: “”

Password: “”

## Boundary Value Analysis

### For Email:

**Valid Email Address:**

* Lower Boundary: Valid Email address with smallest possible length. 6 characters for internet email address (Example: [i@g.cn](mailto:i@g.cn)).
* Upper Boundary: Valid Email address with largest possible length. 345 characters in length.

**Invalid Email Address:**

* Lower Boundary: Empty Email address. (Example: “”)
* Upper Boundary: Email exceeding the maximum allowed length.

### For Password:

**Valid Password:**

* Lower Boundary: Valid Password with minimum required characters i.e., 8 characters. (Example: P@sswor4).
* Upper Boundary: Valid Password with maximum allowed characters.

**Invalid Email Address:**

* Lower Boundary: Empty Password field. (Example: “”)
* Upper Boundary: Password exceeding the maximum allowed length.

### Test Data:

* **Valid Email (Lower), Valid Password (Lower)**

Example:

Email: i@g.cn

Password: P@sswor4

* **Valid Email (Upper), Valid Password (Upper)**

Example:

Email: <Longest allowed Email>

Password: <Longest allowed password>

* **Valid Email, Invalid Password (Lower)**

Example:

Email: user1@gmail.com

Password: “”

* **Valid Email, Invalid Password (Upper)**

Example:

Email: user1@gmail.com

Password: <Password exceeding maximum characters>

* **Invalid Email (Lower), Valid Password**

Example:

Email: “”

Password: Password\_321

* **Invalid Email (Upper), Valid Password**

Example:

Email: <Email exceeding maximum characters>

Password: P@ssword\_321

* **Invalid Email, Invalid Password**

Example:

Email: <Email exceeding maximum characters>

Password: <Password exceeding maximum characters>