

# Test Design techniques [Yaroslav Rudenko]

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## Part I: Equivalence classes

Equivalence class For password field	Test input example	Expected result
1. Length 4-16 characters, one capital letter, one special character	Ry~12345	Input is Accepted
2. Length 0-3 characters, one capital letter, one special character	Ry~	Input is rejected: too short
3. Length of more than 16 characters(16+), one capital letter, one special character	Ry~334656787543456	Input is rejected: too long
4. Length 4-16 characters, one capital letter, without special character	Ry12345	Input is rejected: should have minimum one special character
4. Length 4-16 characters, one special character, without one capital letter	ry~12345	Input is rejected: should have minimum one capital letter

## Part II: Boundary values

Boundary value	Test input example	Expected result
3 characters	Y7~	Input is rejected: too short
4 characters	U\$89	Input is accepted
16 characters	I~12345678917657	Input has accepted
17 characters	I~12345678917658	Input is rejected: too long

### Part III: Decision table testing (optimized)

	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5
Article title	T	F	F	T	T
What's this article about	T	F	T	F	T
Write your article	T	F	T	T	F
Actions: PA(Publish article) NP(Not publish)	PA	NP	NP	NP	NP

### Part IV: State transition diagram

[https://drive.google.com/file/d/1O5OWu7swKtHy2L\\_Z323oD0C4\\_7gHhSt-/view?usp=sharing](https://drive.google.com/file/d/1O5OWu7swKtHy2L_Z323oD0C4_7gHhSt-/view?usp=sharing)

## Part V: Pairwise technique

<b>Different resolutions</b>	<b>Different browsers</b>	<b>Different OS</b>	<b>Languages</b>	<b>Connection speed</b>
1920x1080	Mozilla Firefox	Mac OS	Spanish	low 3G
1920x1080	Opera	Windows 10	English	3G
1920x1080	Google Chrome	Mac OS	Spanish	4G
1366x768	Mozilla Firefox	Windows 10	Spanish	2G
1366x768	Opera	Mac OS	English	low 3G
1366x768	Google Chrome	Windows 10	Spanish	3G
1366x768	Google Chrome	Mac OS	English	4G
640 x 480	Opera	Windows 10	English	2G
640 x 480	Google Chrome	Mac OS	Spanish	low 3G
640 x 480	Google Chrome	Windows 10	English	3G
640 x 480	Mozilla Firefox	Mac OS	Spanish	4G
1920x1080	Google Chrome	Windows 10	Spanish	2G
1920x1080	Mozilla Firefox	Windows 10	Spanish	3G
1920x1080	Opera	Mac OS	English	4G