

### Test Reference:

/\*

\*

\* Add a new user to the database.

\* @param uname The user's name

\* @param mac The user's mac address

\* @param team The user's team ('gold' or 'green' as a String)

\*/

### Equivalent Classes:

	Valid	Invalid
<b>uname</b>	<ul style="list-style-type: none"><li>• <b>1.1</b> - string composed of permissible characters that abides by the length requirements</li></ul>	<ul style="list-style-type: none"><li>• <b>1.a</b> - non-encoded characters</li><li>• <b>1.b</b> - empty string</li><li>• <b>1.c</b> - single char</li><li>• <b>1.d</b> - integer type</li><li>• <b>1.e</b> - valid characters, out of bounds</li><li>• <b>1.f</b> - null</li></ul>
<b>mac</b>	<ul style="list-style-type: none"><li>• <b>2.1</b> - valid mac address string</li></ul>	<ul style="list-style-type: none"><li>• <b>2.a</b> - invalid mac address</li><li>• <b>2.b</b> - empty string</li><li>• <b>2.c</b> - single character</li><li>• <b>2.d</b> - integer type</li><li>• <b>2.e</b> - null</li></ul>
<b>team</b>	<ul style="list-style-type: none"><li>• <b>3.1</b> - "gold" literal</li><li>• <b>3.2</b> - "green" literal</li><li>• <b>3.3</b> - "GOLD" mix of upper and lowercase letters</li><li>• <b>3.4</b> - "GrEen" mix of upper and lowercase letters</li><li>• <b>3.5</b> - "GOLD" literal</li><li>• <b>3.6</b> - "GREEN" literal</li></ul>	<ul style="list-style-type: none"><li>• <b>3.a</b> - null</li><li>• <b>3.b</b> - empty string</li><li>• <b>3.c</b> - string with 1 character</li><li>• <b>3.d</b> - integer type</li></ul>

**Class Representatives:**

Equivalence Class	Representative
1.1	"tenbergen"
1.a	"北"
1.b	"
1.c	"a"
1.d	17
1.e	"JosephusJosephusJosephus"
1.f	null
2.1	"00-14-22-01-23-45"
2.a	"00-80-C8-E3-4C-B北"
2.b	"
2.c	"b"
2.d	21
2.e	null
3.1	"gold"
3.2	"green"
3.3	"GoLd"
3.4	"GreeN"
3.5	"GOLD"
3.6	"GREEN"
3.a	null
3.b	"
3.c	"c"
3.d	79

**Representative Boundaries:**

Equiv. Class	Representative	Lower Boundary	Upper Boundary
1.1	"tenbergen"	"tenberge"	"tenbergenb"
1.a	"北"	典	书
1.b	"	-	"a"
1.c	"a"	"	"aa"
1.d	17	16	18
1.e	"JosephusJosephusJosephus"	"JosephusJosephusJosephu"	"JosephusJosephusJosephuss"
1.f	null	-	-
2.1	"00-14-22-01-23-45"	"00-14-22-01-23-44"	"00-14-22-01-23-46"
2.a	"00-80-C8-E3-4C-B北"	"00-80-C8-E3-4C-B典"	"00-80-C8-E3-4C-B书"
2.b	"	-	"b"
2.c	"b"	"	"bb"
2.d	21	20	22
2.e	null	-	-
3.1	"gold"	"gol"	"goldd"
3.2	"green"	"gree"	"greenn"
3.3	"goLd"	"goL "	"goLdd"
3.4	"GreEn"	"GreE"	"GreEnn"
3.5	"GOLD"	"GOL "	"GOLDD"
3.6	"GREEN"	"GREE"	"GREENN"
3.a	null	-	-
3.b	"	-	"c"
3.c	"c"	"	"cc"
3.d	79	78	80

**Test Cases:**

Test ID	uname	mac	team	Eq. Class	Expected Output
t_0				1.1, 2.1, 3.1	
t_1				1.1, 2.1, 3.2	
t_2				1.1, 2.1, 3.3	
t_3				1.1, 2.1, 3.4	
t_4				1.1, 2.1, 3.5	
t_5				1.1, 2.1, 3.6	
t_6				1.a	ERROR
t_7				1.b	ERROR
t_8				1.c	ERROR
t_9				1.d	ERROR
t_10				1.e	ERROR
t_11				1.f	ERROR
t_12				2.a	ERROR
t_13				2.b	ERROR
t_14				2.c	ERROR
t_15				2.d	ERROR
t_16				2.e	ERROR
t_17				3.a	ERROR
t_18				3.b	ERROR
t_19				3.c	ERROR
t_20				3.d	ERROR

t_21				1.1	ERROR
t_22				1.a	ERROR
t_23				1.a	ERROR
t_24				1.c	ERROR
t_25				1.d	ERROR
t_26				1.d	ERROR
t_27				1.e	ERROR
t_28				1.e	ERROR
t_29				2.a	ERROR
t_30				2.a	ERROR
t_31				2.c	ERROR
t_32				2.d	ERROR
t_33				2.d	ERROR
t_34				2.e	ERROR
t_35				3.a	ERROR
t_36				3.c	ERROR
t_37				3.d	ERROR
t_38				3.d	ERROR