IT314
SOFTWARE ENGINEERING

Black Box Testing

Group ID 6
Topic: Online Blogging Platform

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1. Login Page

Equivalence Class Partitioning

- **Equivalence Classes:**

Class-ID	Input	Type
E1	email	Valid Email Format
E2	email	Invalid email
E3	email	Empty email
E4	password	Length >= 6
E5	password	Length<6

- **Boundary Values:**

Minimum Value: 6

Test for Valid length = 6,7

Test for Invalid length = 5

- **Test Cases and Boundary Value Analysis:**

TestcaseID	email	password	Expected Output	Displayed Output	Classes Covered
Tc_1	raj@gmail.com	1234567	Redirect to Home Page	Redirect to Home Page	E1,E4
Tc_2	raj@gmail.com	123456	Redirect to Home Page	Redirect to Home Page	E1,E4
Tc_3	rajgmail.com	123456	Enter Valid Email	Enter Valid Email	E2
Tc_4	rajgmailcom	123456	Enter Valid Email	Enter Valid Email	E2
Tc_5	r aj@gmail.com	123456	Enter Valid Email	Enter Valid Email	E2
Tc_6		123456	Enter Email	Enter Email	E3
Tc_7	raj@gmail.com	12345	Enter valid password	Enter valid password	E5
Tc_8	raj@gmail.com		Enter password	Enter password	E5

2. Registration Page

Equivalence Class Partitioning

- **Equivalence Classes:**

Class-ID	Input	Type
E1	name	non empty string
E2	name	Without leading space
E3	name	empty
E4	name	Leading space
E5	email	Valid Email Format
E6	email	Unique
E7	email	Not unique
E8	email	Invalid Email
E9	email	empty
E10	password	Length>=6
E11	password	Length < 6

- **Boundary Values:**

  Minimum Value: 6

  Test for Valid length = 6,7

  Test for Invalid length = 5

- **Test Cases and Boundary Value Analysis:**

Testcase ID	name	email	pass word	Expected Output	Displayed Output	Classes Covered
Tc_1	raj	raj@gmail.com	1234567	Redirect to Home Page	Redirect to Home Page	E1,E2,E5,E6, E10
Tc_2	r	raj1@gmail.com	123456	Redirect to Home Page	Redirect to Home Page	E1,E2,E5,E6, E10
Tc_3		raj2@gmailcom	123456	Enter Valid name	Enter Valid name	E3
Tc_4	raj	raj2@gmail.com	123456	Enter name Without leading zero	Enter name Without leading zero	E4
Tc_5	raj	raj@gmail.com	1234567	Email already in use	Email already in use	E7
Tc_6	raj	r aj@gmail.com	123456	Enter Valid Email	Enter Valid Email	E8
Tc_7	raj	rajgmail.com	1234567	Enter Valid Email	Enter Valid Email	E8
Tc_8	raj		123456	Enter Email	Enter Email	E9
Tc_9	raj	raj2@gmail.com	12345	Password length should be >=6	Password length should be >=6	E11
Tc_10	raj	raj2@gmailcom		Enter password	Enter password	E11

3. Complete Profile Page

Equivalence Class Partitioning

- **Equivalence Classes:**

Class ID	Input	Type
E1	Username	Unique
E2	Username	Non empty
E3	Age	13 <= age <= 120
E4	Age	Non empty
E5	Age	Only integer value
E6	Profile Picture	Size <= 1.048487 MB
E7	Username	Empty
E8	Username	Already Existing Username
E9	Age	age < 13
E10	Age	age >120
E11	Age	Empty
E12	Age	Non Integer Value
E13	Profile Picture	Size > 1.048487 MB
E14	Username	First letter is not blank (' ')
E15	Username	First letter is blank (' ')

- **Boundary Values:**

  Minimum Age Value: 13
  Maximum Age Value: 120
  Maximum Profile Picture Size: 1.048487 MB
  Test for Valid Age Value: 15,119
  Test for Invalid Age Value: 13,121
  Test for Valid Profile Picture Size: 1 MB
  Test for Invalid Profile Picture Size: 1.1 MB

- **Test Cases and Boundary Value Analysis:**

TestCase ID	Username	Age	Profile Picture (size)	Expected Output	Displayed Output	Classes Covered
Tc_1	Riddham21	17	680 KB	Directed to HomePage	Directed to HomePage	**E1,E2,E3,E4,E5,E6,E14**
Tc_2	Riddham21	76	700 KB	Username already taken	Username already taken	**E8**,E3,E4,E6,E5,E14
Tc_3	Rushi56	12	754 KB	Age cannot be less than 13	Age cannot be less than 13	**E9**,E1,E2,E6,E5,E14
Tc_4	Vishwa21	56	1.1 MB	Image size cannot be greater than	Image size cannot be greater than 1.048 MB	**E13**,E1,E2,E3,E4,E5,E14

				1.048 MB		
Tc_5	empty	16	empty	Username is required	Username is required	**E7**, E3, E4, E14
Tc_6	Fenil26	121	234 KB	Age cannot be greater than 120	Age cannot be greater than 120	**E10**,E1,E2,E3,E4,E5,E6,E14
Tc_7	SujalM23	twenty	456 KB	Age must be an integer	Age must be an integer	**E12**,E4 E1,E2,E6,E14
Tc_8	Kaival	empty	0.5 MB	Age is required	Age is required	**E11**,E1,E2,E6,E14
Tc_9	Fenil26	14	empty	Username's first letter cannot be blank, Age cannot be less than 13	Username's first letter cannot be blank, Age cannot be less than 13	**E15**,E3,E4,E5,
Tc_10	MJ26	127	500 KB	Username already taken, Age cannot be greater than 120	Username already taken, Age cannot be greater than 120	E10,E5,E8,E6,E14
Tc_11	MJ26	abc	888 KB	Username already taken	Username already taken, Age	E2, E8, E12, E6,E14

				, Age must be an integer	must be an integer	
Tc_12	empty	10	273KB	Username e is required, Age cannot be less than 13	Username is required, Age cannot be less than 13	E7,E4,E5, E9, E6,E14
Tc_13	empty	129	1.001 MB	Username e is required, Age cannot be greater than 120	Username is required, Age cannot be greater than 120	E7,E4,E5 , E10, E13,E14
Tc_14	empty	xy	empty	Username e is required, Age must be an integer	Username is required, Age must be an integer	E7, E4, E12,E14
Tc_15	SujalM23	15	1.2 MB	Username e already taken, Image size cannot be greater than 1.048 MB	Username already taken, Image size cannot be greater than 1.048 MB	E2,E8, E3,E5, E4, E13,E14

Tc_16	empty	119	1.4MB	Username is required, Image size cannot be greater than 1.048 MB	Username is required, Image size cannot be greater than 1.048 MB	E7, E3 ,E5 , E4, E13,E14
Tc_17	Venil	-5	1.049 MB	Age cannot be less than 13, Image size cannot be greater than 1.048 MB	Age cannot be less than 13, Image size cannot be greater than 1.048 MB	E1,E2, E4, E5, E9, E13,E14
Tc_18	Aaryan	129	1.06 MB	Age cannot be greater than 120, Image size cannot be greater than 1.048 MB	Age cannot be greater than 120, Image size cannot be greater than 1.048 MB	E1, E2, E4, E5 , E10, E13,E14
Tc_19	Virat	"11"	1.10 MB	Age must be an integer,	Age must be an integer,	E1, E2, E4, E12, E13,E14

				Image size cannot be greater than 1.048 MB	Image size cannot be greater than 1.048 MB	
Tc_20	Virat	$4a	1.9 MB	Username already taken, Age must be an integer, Image size cannot be greater than 1.048 MB	Username already taken, Age must be an integer, Image size cannot be greater than 1.048 MB	E2 , E8, E4, E12, E13,E14
Tc_21	empty	^6	2 MB	Username is required, Age must be an integer, Image size cannot be greater than 1.048 MB	Username is required, Age must be an integer, Image size cannot be greater than 1.048 MB	E7, E4, E12, E13,E14
Tc_22	Virat	123	5 MB	Username already taken,	Username already taken, Age	E2,E8, E4, E5, E10, E13,E14

				Age cannot be greater than 120, Image size cannot be greater than 1.048 MB	cannot be greater than 120, Image size cannot be greater than 1.048 MB	
Tc_23	empty	128	10 MB	Username e is required, Age cannot be greater than 120, Image size cannot be greater than 1.048 MB	Username is required, Age cannot be greater than 120, Image size cannot be greater than 1.048 MB	E7, E4, E5, E10, E13,E14
Tc_24	Aaryan	8	3 MB	Username e already taken, Age cannot be less than 13, Image size cannot be greater	Username already taken, Age cannot be less than 13, Image size cannot be greater than 1.048	E2 ,E8 ,E4 ,E5 ,E9, E13,E14

				than 1.048 MB	MB	
Tc_25	empty	-1	4.5 MB	Username is required, Age cannot be less than 13, Image size cannot be greater than 1.048 MB	Username is required, Age cannot be less than 13, Image size cannot be greater than 1.048 MB	E7, E4, E5, E9, E13,E14
Tc_26	MJ26	@0	333 KB	Age must be an integer	Age must be an integer	E1, E2, E4, E12, E6,E14
Tc_27	Kaival	empty	empty	Username already taken, Age is required,	Username already taken, Age is required	E2 ,E8 ,E11,E14
Tc_28	empty	empty	0.4 MB	Username is required, Age is required	Username is required, Age is required	E7,E11,E6, E14
Tc_29	Harshal	empty	1.2 MB	Age is required, Image size cannot be	Age is required, Image size cannot be greater	E1,E2,E11, E13,E14

				greater than 1.048 MB	than 1.048 MB	
Tc_30	Harshal	empty	1.44 MB	Username already taken, Age is required, Image size cannot be greater than 1.048 MB	Username already taken, Age is required, Image size cannot be greater than 1.048 MB	E8,E11,E13,E14
Tc_31	empty	empty	1.19 MB	Username is required, Age is required, Image size cannot be greater than 1.048 MB	Username is required, Age is required, Image size cannot be greater than 1.048 MB	E7,E11,E13,E14

4. Edit Profile

Equivalence Class Partitioning

● **Equivalence Classes:**

Class ID	Input	Type
E1	Username	Unique
E2	Username	Non empty
E3	Profile Picture	Size <= 1.048487 MB
E4	Username	Already Existing Username
E5	Username	Empty
E6	Profile Picture	Size > 1.048487 MB

● **Boundary Values:**

Maximum Profile Picture Size: 1.048487 MB
Test for Valid Profile Picture Size: 1 MB
Test for Invalid Profile Picture Size: 1.1 MB

- **Test Cases and Boundary Value Analysis:**

TestCase ID	Username	Profile Picture (size)	Expected Output	Displayed Output	Classes Covered
Tc_1	Riddham21	680 KB	Directed to Profile Page	Directed to Profile Page	**E1**, **E2**, **E3**
Tc_2	Riddham21	700 KB	Username already taken	Username already taken	**E4**, E2, E3
Tc_3	empty	900 KB	Username is required	Username is required	**E5**, E3
Tc_4	Vishwa21	1.1 MB	Image size cannot be greater than 1.048 MB	Image size cannot be greater than 1.048 MB	**E6**,E1,E2,E3
Tc_5	empty	empty	Username is required	Username is required	E5
Tc_6	empty	1.05 MB	Username is required, Image size	Username is required, Image size cannot be	E5, E3, E6

			cannot be greater than 1.048 MB	greater than 1.048 MB	
Tc_7	Vishwa21	1.9 MB	Username already taken, Image size cannot be greater than 1.048 MB	Username already taken, Image size cannot be greater than 1.048 MB	E2, E4, E6

5. Publish Blog

Equivalence Class Partitioning

- **Equivalence classes:**

Class ID	Input	Type
E1	Title	Non empty
E2	Blog Content	Non empty
E3	Title	Empty
E4	Blog Content	Empty

- **Test Cases and Boundary Value Analysis:**

TestCase ID	Title	Blog Content	Expected Output	Displayed Output	Classes Covered
Tc_1	Non Empty	Non Empty	Blog Submitted Successfully	Blog Submitted Successfully	**E1,E2**
Tc_2	Empty	Non Empty	Title is required	TItle is required	**E3,**E2
Tc_3	Non Empty	Empty	Blog Content is required	Blog Content is required	**E4,**E1
Tc_4	Empty	Empty	Blog	Blog	E3,E4

			Content is required, Title is required	Content is required, Title is required	

6. Save Draft

- **Equivalence Class Partitioning**

- **Equivalence Classes:**

Class ID	Input	Type
E1	Title	Non empty
E2	Blog Content	Non empty
E3	Hashtag	Non empty
E4	Title	Empty
E5	Blog Content	Empty
E6	Hashtag	Empty

- **Test Cases and Boundary Value Analysis:**

TestCase ID	Title	Blog Content	Hashtag	Expected Output	Displayed Output	Covered Classes
Tc_1	Non Empty	Non Empty	Non Empty	Draft saved Successfully	Draft saved Successfully	**E1**, **E2**, **E3**
Tc_2	Empty	Non Empty	Non Empty	Draft saved Success	Draft saved Success	**E4**, E2, E3

				fully	fully	
Tc_3	Non Empty	Empty	Non Empty	Draft saved Success fully	Draft saved Success fully	**E5**, E1, E3
Tc_4	Non Empty	Non Empty	Empty	Draft saved Success fully	Draft saved Success fully	**E6,** E1, E2,
Tc_5	Empty	Empty	Non Empty	Draft saved Success fully	Draft saved Success fully	E4,E5,E3
Tc_6	Empty	Non Empty	Empty	Draft saved Success fully	Draft saved Success fully	E4,E2,E6
Tc_7	Non Empty	Empty	Empty	Draft saved Success fully	Draft saved Success fully	E1,E5,E6
Tc_8	Empty	Empty	Empty	Cannot save an empty draft	Cannot save an empty draft	E4,E5,E6