Christopher Young - Unit Tests

The module and the functional testing:

In the "login" module. The function for logging into an account.

Inputs: email:string, password:string

Forming equivalence classes:

Equ. Class	Description	Possible Values
$EC_{E,valid}$	Email that exists in the database	abc@gmail.com
$\mathrm{EC}_{\mathrm{E,invalid}}$	Email that DNE	abc@, @gmail.com, abc
$\mathrm{EC}_{\mathrm{E,empty}}$	Email is empty	ш ш
$\mathrm{EC}_{\mathrm{P,valid}}$	Password that exists in the database	ASCII characters
$EC_{P,invalid}$	Password that DNE in the database	ASCII characters
$EC_{P,empty}$	Password is empty	ш ш

Derive test cases (for valid inputs):

Equ. Class	In	put	Expected Output
	Email	Password	
EC _{E,valid} and EC _{P,valid}	joe@gmail.com	pass123	Redirect to home page

Derive test cases (for invalid inputs):

Equ. Class	Input		Expected Output
	Email	Password	
EC _{E,valid} and EC _{P,invalid}	abc@gmail.com	p	Redirect to login page
EC _{E,valid} and EC _{P,empty}	abc@gmail.com		Redirect to login page
$EC_{E,invalid}$ and $EC_{P,valid}$	abc	password	Please include an '@' in the email address. 'abc' is missing an '@'.
$EC_{E,invalid}$ and $EC_{P,invalid}$	abc@	pa	Please enter a part following '@'. 'abc@' is incomplete.
EC _{E,invalid} and EC _{P,empty}	def@gmail.com		Redirect to login page

EC _{E,empty} and EC _{P,valid}	cc cc	password	Redirect to login page
EC _{E,empty} and EC _{P,invalid}	<i>دد دد</i>	pas	
EC _{E,empty} and EC _{P,empty}	<i>دد دد</i>		Redirect to login page