

Iteration	Test	Function	Status
1.	Service s; Output = s.validateEmail(abc)  Output==Error("Email must contain @")	{  }	Fail
2.	Service s; Output = s.validateEmail(abc)  Output==Error("Email must contain @")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @") else return true }	Pass
3.	Service s; Output = s.validateEmail(abc@)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else return true }	Fail
4.	Service s; Output = s.validateEmail(abc@)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else return true }	Pass
5.	Service s; Output = s.validateEmail(abc@gmail.com)  Output==true	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else return true }	Pass
6.	Service s; Output = s.validateEmail(@gmail.com)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else return true }	Fail

7.	Service s; Output = s.validateEmail(@gmail.com)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else if(email contains '@' AND domain.com but no username) return Error("Invalid email")  else return true }	Pass
8.	Service s; Output = s.validateEmail(abc@gmail)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else if(email contains '@' AND domain.com but no username) return Error("Invalid email")  else return true }	Pass
9.	Service s; Output = s.validateEmail(abc@.com)  Output==Error("Invalid Email")	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else if(email contains '@' and domain.com but no username) return Error("Invalid email")  else return true }	Pass
10.	Service s; Output = s.validateEmail( <a href="mailto:abc@soulknit.org">abc@soulknit.org</a> )  Output==true	validateEmail(email){ if (email does not contain '@') return Error("Email must contain @")  else if(email contains '@' but no domain.com) return Error("Invalid email")  else if(email contains '@' and domain.com but no username) return Error("Invalid email")  else return true }	Fail

11.	Service s; Output = s.validateEmail( <a href="mailto:abc@soulknit.org">abc@soulknit.org</a> )  Output==true	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' but no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true   else     return true } </pre>	Pass
12.	Service s; Output=s.validateEmail( <a href="mailto:.abc@gmail.com">.abc@gmail.com</a> )  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' but no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true   else     return true } </pre>	Fail
13.	Service s; Output=s.validateEmail( <a href="mailto:.abc@gmail.com">.abc@gmail.com</a> )  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' but no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true   else     return true } </pre>	Pass

14.	Service s; Output=s.validateEmail(abc.@gmail.com)  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' but no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Fail
15.	Service s; Output=s.validateEmail(abc.@gmail.com)  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Pass

16.	Service s; Output=s.validateEmail(abc@gmail@gmail.com)  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Fail
17.	Service s; Output=s.validateEmail(abc@gmail@gmail.com)  Output==Error("Invalid Email")	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if( number of '@' &gt; 1)     return Error("Invalid email")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Pass

18.	Service s; Output=s.validateEmail( <a href="#">xyz@outlook.com</a> )  Output==true	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if( number of '@' &gt; 1)     return Error("Invalid email")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Pass
19.	Service s; Output=s.validateEmail(jkl@yahoo.com)  Output==true	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if( number of '@' &gt; 1)     return Error("Invalid email")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true  } </pre>	Pass

20.	Service s; Output=s.validateEmail(j123kl@yahoo.com)  Output==true	<pre> validateEmail(email){   if (email does not contain '@')     return Error("Email must contain @")    else if( number of '@' &gt; 1)     return Error("Invalid email")    else if(email contains '@' and no domain.com)     return Error("Invalid email")    else if(email contains '@' and domain.com but no username)     return Error("Invalid email")    else if(username starts or ends with '.')     return Error("Invalid email")    else if(email contains username and '@' and domain.org)     return true    else     return true } </pre>	Pass
21.	Service s; Output=s.validatePassword("123")  Output==Error("Password must have atleast 8 characters.")	<pre> { } </pre>	Fail
22.	Service s; Output=s.validatePassword("123")  Output==Error("Password must have atleast 8 characters.")	<pre> validatePassword(password){   if (password.length &lt; 8)     return Error("Password must have atleast 8 characters")    else     return true } </pre>	Pass
23.	Service s; Output=s.validatePassword("abcdefg hijk")  Output==true	<pre> validatePassword(password){   if (password.length &lt; 8)     return Error("Password must have atleast 8 characters")    else     return true } </pre>	Pass
24.	Service s; Output=s.validatePassword("1234567 8")  Output==true	<pre> validatePassword(password){   if (password.length &lt; 8)     return Error("Password must have atleast 8 characters")    else     return true } </pre>	Pass
25.	Service s; Output=s.validatePassword("abcd123 4")  Output==true	<pre> validatePassword(password){   if (password.length &lt; 8)     return Error("Password must have atleast 8 characters")    else     return true } </pre>	Pass

26.	Service s; Output=s.validatePassword("abcd1234abcd1234b")  Output==Error("Maximum password length is 16 characters")	validatePassword(password){ if (password.length < 8) return Error("Password must have atleast 8 characters")  else return true }	Fail
27.	Service s; Output=s.validatePassword("abcd1234abcd1234b")  Output==Error("Maximum password length is 16 characters")	validatePassword(password){ if (password.length < 8) return Error("Password must have atleast 8 characters")  else if(password.length > 16) return Error("Maximum password length is 16 characters")  else return true }	Pass
28.	Service s; Output=s.store("abc@gmail.com", "abcdefgh")  output==true	{  }	Fail
29.	Service s; Output=s.store("abc@gmail.com", "abcdefgh")  output==true	store(email,password) { bool1=validateEmail(email) bool2=validatePassword(password) if(bool1==true and bool2==true) { if(email already exists in database) return Error("Email already exists") else Add to database and return true } else return false }	Pass
30.	Service s; Output=s.store("abc@gmail.com", "abcdefgh")  output== Error(" Email already exists")	store(email,password) { bool1=validateEmail(email) bool2=validatePassword(password) if(bool1==true and bool2==true) { if(email already exists in database) return Error("Email already exists") else Add to database and return true } else return false }	Pass



31.	Service s; Output=s.store("@gmail.com","abcde fgh")  output== false	store(email,password) { bool1=validateEmail(email) bool2=validatePassword(password) if(bool1==true and bool2==true) { if(email already exists in database) return Error("Email already exists") else Add to database and return true } else return false }	Pass
32.	Service s; Output=s.store("xyz@gmail.com","a bcde")  output== false	store(email,password) { bool1=validateEmail(email) bool2=validatePassword(password) if(bool1==true and bool2==true) { if(email already exists in database) return Error("Email already exists") else Add to database and return true } else return false }	Pass
33.	Inputter obj; output=obj.signUp("", "")  output==Error("Missing fields. Please enter username and password.")	{  }	Fail
34.	Inputter obj; output=obj.signUp("", "")  output==Error("Missing fields")	signUp(username,password){ if (username =="" or password == "") return Error("Missing fields") }	Pass
35.	Inputter obj; output=obj.signUp("xyz@yahoo.com", "12345678")  output==true	signUp(username,password){ if (username =="" or password == "") return Error("Missing fields") }	Fail
36.	Inputter obj; output=obj.signUp("xyz@yahoo.com", "12345678")  output==true	signUp(username,password){ if (username =="" or password == "") return Error("Missing fields") else{ Service s; bool1=s.store(username,password) if(bool1==true) return true; else return false. } }	Pass

37.	Inputter obj; output=obj.signUp("xyz@yahoo.com", "abcdefgh") //Trying to sign up xyz@yahoo.com again (duplication)  output==false	signUp(username,password){ if (username =="" or password == "") return Error("Missing fields")  else{ Service s; bool1=s.store(username,password) if(bool1==true) return true; else return false. } }	Pass
38.	Inputter obj; output=obj.signUp("ikl@yahoo.com", "")  output==Error("Missing fields")	signUp(username,password){ if (username =="" or password == "") return Error("Missing fields")  else{ Service s; bool1=s.store(username,password) if(bool1==true) return true; else return false. } }	Pass

### General Structure:

```
class Service {
    function validateEmail(string email) {
    }
    function validatePassword(string password){
    }
    function store(string email,string password) {
        validateEmail(email);
        validatePassword(password);
    }
}
```

```
class Inputter {
    function signUp(string email, string password) {
        new Service = s Service();
        s.store();
    }
}
```

### Acceptance Criteria:

System should not sign up user if:

- Email is invalid or missing.
- Password is invalid or missing.
- Email already exists in database,

System should sign up user if:

- Email and password both are valid.
- User data is successfully stored into database.