

Group Name: Personal Store Scanner

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White-box testing Flow Graph

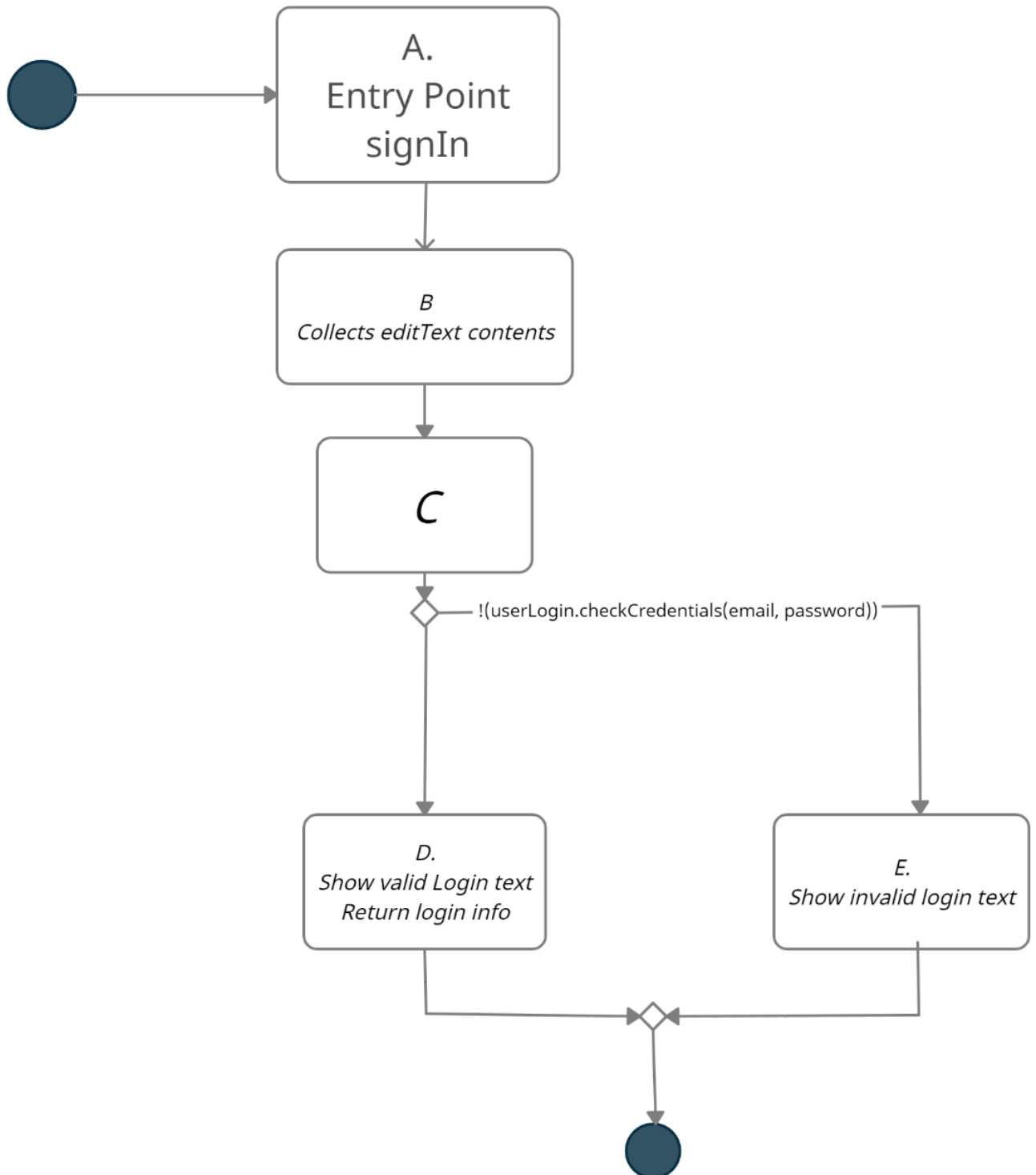
```
/* A */
public void signIn() {

    /* B */
    String email = editTextEmailAddress.getText().toString();
    String password = editTextPassword.getText().toString();

    /* C */
    if (userLogin.checkCredentials(email, password))

        /* D */
        {
            Toast.makeText(this, "Login Successful", Toast.LENGTH_LONG).show();
            Intent intent = new Intent();
            intent.putExtra("email", email);
            intent.putExtra("password", password);
            setResult(4, intent);
            finish();
        }

    else
    {
        /* E */
        Toast.makeText(this, "User not found, try again",
        Toast.LENGTH_LONG).show();
    }
}
```



Black Box Testing Equivalency Classes

1)

```
public ListAdapter(Item[] listdata, Fragment p) {  
    this.listdata = listdata;  
    this.parent = p;  
}
```

Equivalency classes Fragment P:

- 1) Null
- 2) Parent fragment
- 3) some other fragment

Equivalency classes listdata:

- 1) empty array
- 2) null array
- 3) array of empty items
- 4) array of populated items

2)

```
private boolean isUserAuth(String email, String password) {  
  
    if (users.containsKey(email)) {  
        String authUserPassword = users.get(email);  
        return authUserPassword.equals(password);  
    }  
    return false;  
}
```

Equivalency classes String email:

- 1) empty string
- 2) email not in user HashMap
- 3) email in user HashMap

Equivalency classes String password:

- 1) empty string
- 2) password that does not match email
- 3) password that matches email