

## Analysis for Back End Unit Testing

Backend method selected: login\_user(email, password)

Input partitions:

1. Valid email, correct password
2. Valid email, incorrect password
3. Invalid email (user doesn't exist), test password

Test cases for partitions:

1. correct\_email (register first), correct\_password (register first)  
- result should return user
2. correct\_email (register first), incorrect\_password  
- result should return None
3. unregistered\_email, test\_password  
- result should return None