

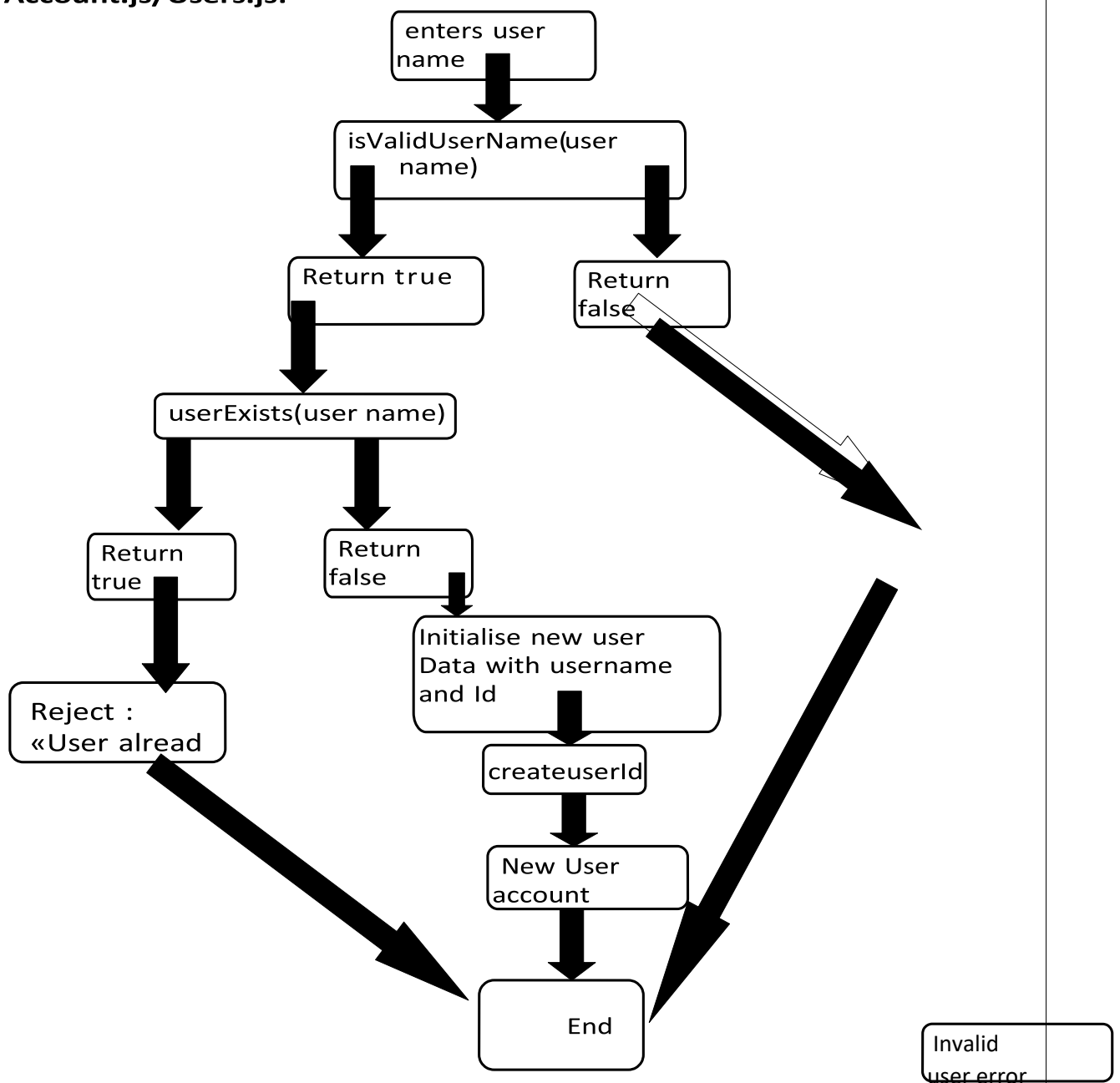
Unit Test Plan

Module : User module, basket module, error-handling module , events module and promotions module	Application : Restaurant application
Tester: Ambassa Bienvenu, Meli Sonkoue Bernice, Ebene Dimene Annick Carole, Ngake Ngassam Brice and Tsapzeu Odilon Duval	
Exemple unit plan on User module	
Module Overview	
<p>This module defines the the user’s account details through validation and verification, and also it handles users account operations like purchases. This Modules contains 3 sub-modules (files) :</p> <ul style="list-style-type: none"> - account.js : It handles the user account creation and apply validation techniques. It also handles purchases by requesting a purchase history. -user.js: It creates a user if this user does not exist in the system. -purchaseHistory.js: it retrieves the purchase history from an external source. 	
Module Inputs	
<p>Users.js: userName (string): Email of the user Unique identifier for a user Account.js: eventName (string): Name of the event tickets (number): Number of tickets purchased cost (number): Cost of the purchase purchaseHistory.js: purchaseData(object): includes event, ticket and cost. userName (string): Email of the user</p>	
Module Outputs	
<p>Users.js: Boolean: true if a user exist and false if not. Id: Represents a new id created.</p> <p>Account.js: boolean: true if a username is valid and false if not. purchase History; Represents the purchase history of the user.</p> <p>purchaseHistory.js:</p>	

request: An http request to get purchases of a user.

Logic Flow

Account.js/Users.js:



Test Data

Users.js

1) Test cases for User class

1.1) Should create User object with valid data

- new User(2, "pollah")
- Expected outcome: Object created with properties {id: 2, username: "pollah"}
- Actual result: **success (object created)**

1.2) Should not create a user if invalid data types are passed

- new User("lop", 5)
- Expected outcome: error
- Actual result: **Object created**

2) Test cases for UserExists(username) function

2.1) Should return true if the user exist

- username: "newuser1@pluralsight.com"
- Expected outcome: true
- Actual result: **true**

2.2) Should return false if the user does not exist

- username: "newuser2@pluralsight.com"
- Expected outcome: false
- Actual result: **false**

3) Test cases for CreateUserId() function

3.1) Should return different user IDs on different calls

- createUserId() called 3 times
- Expected outcome: 3 different user IDs. Actual result: 1 **account.js**

4) Test cases for Purchase class

4.1) Should create Purchase object with valid data

- new Purchase("JWIN", 4, 2400)
- Expected outcome: Object created with properties {eventName: "JWIN", tickets: 4, cost: 2400} Actual result:

4.2) Should not create a Purchase object if ticket < 0

- new Purchase("JWIN", -3, 2400) Expected outcome: error Actual result:

4.3) Should not create a Purchase object if cost < 0

- new Purchase("JWIN", 4, -100)
- Expected outcome: error

- Actual result:

4.4) Should not create a Purchase object if cost is not an integer

- new Purchase("JWIN", 4, "bro") ?

Expected outcome: error ? Actual result:

4.5) Should not create a Purchase object if ticket is not an integer

- new Purchase("JWIN", "sap", 2400) ?

Expected outcome: error ? Actual result:

4.6) Should not create a Purchase object if eventName is not a string

- new Purchase(1, 4, 2400) ? Expected

outcome: error ? Actual result:

5) Test cases for isValidUserName(username) function

5.1) Should return true if the username is valid

- username: "newuser1@pluralsight.com" ? Expected outcome: true ? Actual result:

5.2) Should return false if the username is not valid

- username1: "newuser2-pluralsight.com"
- username2: "momo@monero-com"
- username3: "user.pamaro@polo"
- username4: 450
- username5: ''
- username6: "user@.com"
- username7: "@domain.com" ? Expected outcome: false ? Actual result:

6) Test cases for createAccount(username) function

6.1) Should create an account if the username is valid and user does not exist

- username: "newuser3@pluralsight.com"
- isValidUserName()=true
- userExists()=false
- Expected outcome: promise resolved with with data {userId: 2 , username: "newuser3@pluralsight.com"} ? Actual result:

6.2) Should return an error message if the username is not valid

- username1: "newuser2-pluralsight.com"
- isValidUserName()=false
- Expected outcome: error message ? Actual result:

6.3) Should return an error message if the valid username exists already

- username1: "newuser1@pluralsight.com"
- userExists()=true
- Expected outcome: promise rejected ? Actual result:

7) Test cases for getPastPurchases(username) function

7.1) Should return a purchase events if the userID is valid

- userID: 1
- Expected outcome: events ? Actual result:

7.2) Should throw an error if the userID is invalid

- userID: 67
- Expected outcome: error ? Actual result:

purchaseHistory.js

8) Test cases for getPurchasesHistory(userID) function

8.1) Should return a request if the userID is valid

- userID: 1
- Expected outcome: request ? Actual result:

8.2) Should return an error if the userID is invalid

- userID: "parole"
- Expected outcome: error ? Actual result:

8.3) Should return an error if the userID does not exist

- userID: 45
- Expected outcome: error ? Actual result:

9) Test cases for parsePurchasesResponse(purchaseData) function

9.1) Should return an array of purchases if the purchaseData is valid

- purchaseData: {["cobra", 3, 40], ["dance", 6, 75] }
- Expected outcome: array of purchase

- Actual result:

9.2) Should return an error if the purchaseData is invalid

- purchaseData1: 90
- purchaseData2: "cobra"
- purchaseData: {[8,3],["dance",75]} ? Expected outcome: error ? Actual result:

Test Tools: **vitest**

TestCoverage: