Test Plan Document

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1 Introduction

1.1 Overview

This document is meant to clarify the testing process of a web application of a paired group with the authors' group. The received application is an application made for an import/export company that deals in crops of various kinds. The application works as a portal to the company's logistics from contracted companies to shipping lines and contracts and of course storage. The application also lets the manager -or admin- manage his employees' data. The system also shall calculate salaries, expenses and profits from dealings with contracted companies and supply lines. Additionally, the system has a notification system and an attendance system to facilitate the employees' experience. There is a management department that shall use the system to manage the employees and supervise their work on daily basis.

1.2 Group Codes

Authors' group code: E
Paired group code: W

2 Requirements Traceability Matrix

Requirement Name	Requirement Code	Description	Fulfilled
Admin	U01	Admin adds a user with username and password and specific access permissions into users list	No
Accounts	U02	User registers into the system using username and password	No
	U03	User logs-in into the system using his account credentials	Yes
	U04	Used in case an employee forgets their password	No
	U05	User logouts of the System	Yes
	U06	Checks that the password format is valid before checking if it exists in the database on logging-in or inserting it into the database on Registering	No
	U07	User's password is hashed after successful registration or after password is generated in case of initiating "Forget Password" function and insert it into database	No
Input Validations	U08	Checks that email address format is valid	Yes
Employee	E01	Adding a new employee into the system	Bugged
	E02	This Function lists all Employees	Yes
	E03	This Function is used to search for a specific employee	No
Company	C01	Creating a new company profile	Bugged
	C02	This Function lists all companies	Yes
	C03	This Function is used to search for a specific company	No
Shipping Line	SL01	Creating a new shipping line profiles	No
Contract	CN01	Initiating a new contract between two companies	No
	CN02	This Function is used to search for a specific contract	No
Product	PR01	Adding a new product to the products dashboard	No
	PR02	This Function views products dashboard	No
	PR03	This Function is used to search for a certain product	No

3 Test scenarios

3.1 Scenario one

User shall navigate the web application's pages without logging in to test what shall be viewed. Then the user shall view products on display in the dashboard. Afterwards the user shall try the settings icon in the products panel on the dashboard and try the options listed.

3.2 Scenario two

User shall login as an admin and navigate the dashboard's panels such as reminders panel and employee list panel. Then, the admin shall go to the storage page and attempt to add a product, edit an existing product, delete a product and lastly generate a report of a particular product.

3.3 Scenario three

User shall login as an admin and then proceed to navigate the employees list. Then, the admin shall attempt to add an employee, edit an existing one and delete an employee's record.

3.4 Scenario four

User shall login as an admin and navigate to the companies page. The admin shall attempt to add a company, edit an existing one and delete a company's record. Then, the admin shall add a shipping line with a company, edit and existing shipping line and delete a shipping line's record.

4 Test cases

4.1 Admin cases

4.1.1 Case 1

- Summary: Admin adding employee to employee's list

- Related Requirements: U01

- Prerequisites: U03

- Procedure: Login, Go to employees list page, Click on add employee button.

- Data: Random numbers in text fields and letters in number fields.

- Expected Result: Error saying invalid data inserted.

- Actual Result: Record added to database

- Status: Fail

4.2 Accounts cases

4.2.1 Case 2

- Summary: User registers into the system

- Related Requirements: U02

- Prerequisites: None

- Procedure: None as there is no register button.

- Data: None.

- Expected Result: Unknown.

- Actual Result: Unknown.

- Status: Fail.

4.2.2 Case 3

- Summary: User login to the system.
- Related Requirements: U03
- Prerequisites: U02
- Procedure: Press on the account icon in the top navigation bar and press login.
- Data: An existing user credentials
- Expected Result: Redirect to the dashboard.
- Actual Result: Redirect to the dashboard.
- Status: Pass

4.2.3 Case 4

- Summary: User resets the forgotten password
- Related Requirements: U04
- Prerequisites: U02
- Procedure: Press on the account icon in the top navigation bar and press login and then press on forget password hyperlink
- Data: Social Security Number -or national ID- and New password
- Expected Result: A prompt saying the password has been reset
- Actual Result: Redirect to the same page.
- Status: Fail

4.3 Case 5

- Summary: User signs out of the system
- Related Requirements: U05
- Prerequisites: U03
- Procedure: Press on the icon on top right navbar and select signout
- Data: None.
- Expected Result: Sign out and redirect to dashboard.
- Actual Result: Signed out and redirected to dashboard.
- Status: Pass

4.4 Case 6

- Summary: Validates the password before registering.

- Related Requirements: U06

- Prerequisites: U02

- Procedure: Register to the system.

- Data: None.

- Expected Result: None. Prerequisite is not implemented.

- Actual Result: None. Prerequisite is not implemented.

- Status: Fail

4.5 Case 7

- Summary: Hashing the password of the user after registering.

- Related Requirements: U07

- Prerequisites: U02

- Procedure: None, prerequisite is not implemented.

- Data: None, prerequisite is not implemented.

- Expected Result: Hashed password in the user record in the database.

- Actual Result: None.

- Status: Fail

4.6 Input validations

4.6.1 Case 8

- Summary: Check the format of inserted Email address

- Related Requirements: U08

- Prerequisites: C01,SL01,CN01,PR01.

- Procedure: Login, Go to employees list page, Click on add employee button.

- Data: Random letters and numbers with no '@' sign.

- Expected Result: Error saying invalid data inserted.

- Actual Result: Error saying invalid data inserted.

- Status: Pass

4.7 Employee

4.7.1 Case 9

- Summary: Add an employee to the employees list

- Related Requirements: E01

- Prerequisites: U03

- Procedure: Go to employees list and press on add employee button.

- Data: Random numbers in text fields and letters in number fields.

- Expected Result: Error saying invalid data inserted.

- Actual Result: Record added to database.

- Status: Fail

4.7.2 Case 10

- Summary: List every employee recorded.

- Related Requirements: E02

- Prerequisites: U03

- Procedure: Go to employees list page.

- Data: None.

- Expected Result: Every employee listed along with his data.

- Actual Result: As expected

- Status: Pass

4.7.3 Case 11

- Summary: Search for certain employee

- Related Requirements: E03

- Prerequisites: U03

- Procedure: Type an employee's name in the search box in the topnav bar.

- Data: An existing employee name.

- Expected Result: A row with the searched employees name along with a hyperlink to his profile.

- Actual Result: None. Function is not implemented.

- Status: Fail

4.8 Company

4.8.1 Case 12

- Summary: this function shall add a new company to the database

- Related Requirements: C01

- Prerequisites: U03

- Procedure: Go to companies from the side navbar and click on add company.

- Data: Random numbers in text fields and letters in number fields.

- Expected Result: Error saying invalid data inserted.

- Actual Result: Record added to database

- Status: Fail

4.8.2 Case 13

- Summary: This function shall view all companies on the system

- Related Requirements: C02

- Prerequisites: U03

- Procedure: Click on list companies.

- Data: none.

- Expected Result: viewing all companies.

- Actual Result: viewing all companies.

- Status: Pass

4.8.3 Case 14

- Summary: Search for an existing company

- Related Requirements: C03

- Prerequisites: none

- Procedure: enter search text and click search.

- Data: Name of an existing company in the database records.

- Expected Result: results or no search results.

- Actual Result: Not working. Function not implemented.

- Status: Fail

4.9 Shipping Line

4.9.1 Case 15

- Summary: This function shall add new shipping line profile

- Related Requirements: SL01

- Prerequisites: U03

- Procedure: fill the form with shipping line data.

- Data: Random numbers in text fields and letters in number fields.

- Expected Result: Error saying invalid data inserted.

- Actual Result: Record added to database

- Status: Fail

4.10 Contract

4.10.1 Case 16

- Summary: this function shall establish a new contract between 2 companies.

- Related Requirements: CN01

- Prerequisites: U03

- Procedure: Feature Doesn't Exist.

- Data: None.

- Expected Result: Feature Doesn't Exist.

- Actual Result: Doesn't Exist.

- Status: Fail

4.10.2 Case 17

- Summary: This Functions output the result related to the text input in search bar

- Related Requirements: CN02

- Prerequisites: U03

- Procedure: output the related contracts to the search text.

- Data: normal text.

- Expected Result: output contracts or no search results.

- Actual Result: not working

- Status: Fail

4.11 Product

4.11.1 Case 18

- Summary: This Functions adds new product to the products page

- Related Requirements: PR01

- Prerequisites: U03

- Procedure: adds the new product to the database and output it in products page.

- Data: specifications of product.

- Expected Result: Product is added to the products page.

- Actual Result: Product is not added to the products page.

- Status: Fail

4.11.2 Case 19

- Summary: this functions views all products

- Related Requirements: PR02

- Prerequisites: none

- Procedure: click on view products.

- Data: none.

- Expected Result: Output all products on screen.

- Actual Result: Output all products on screen.

- Status: Success

4.11.3 Case 20

- Summary: This Function Manipulate results from input in search bar to search for certain product

- Related Requirements: PR03

- Prerequisites: U03

- Procedure: click on search bar and type your text.

- Data: normal text.

- Expected Result: Output the products related to the search text.

- Actual Result: not working
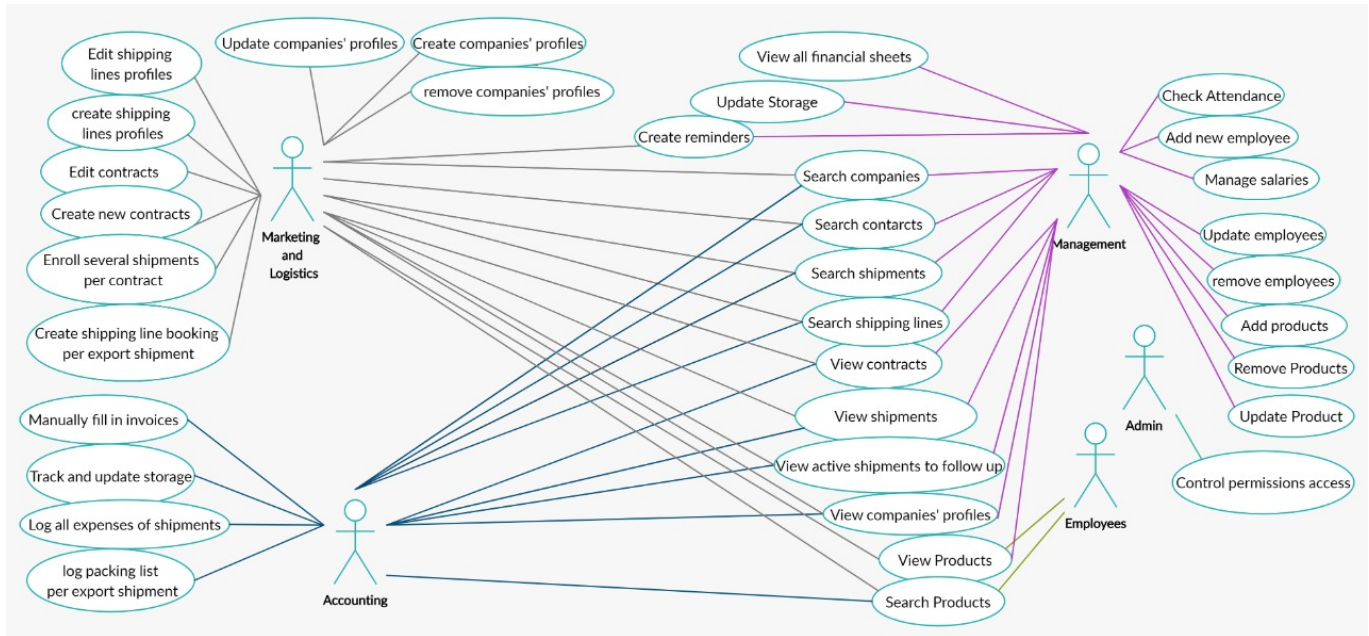
- Status: Fail

5 Use case diagrams

Figure 1: Use case diagram
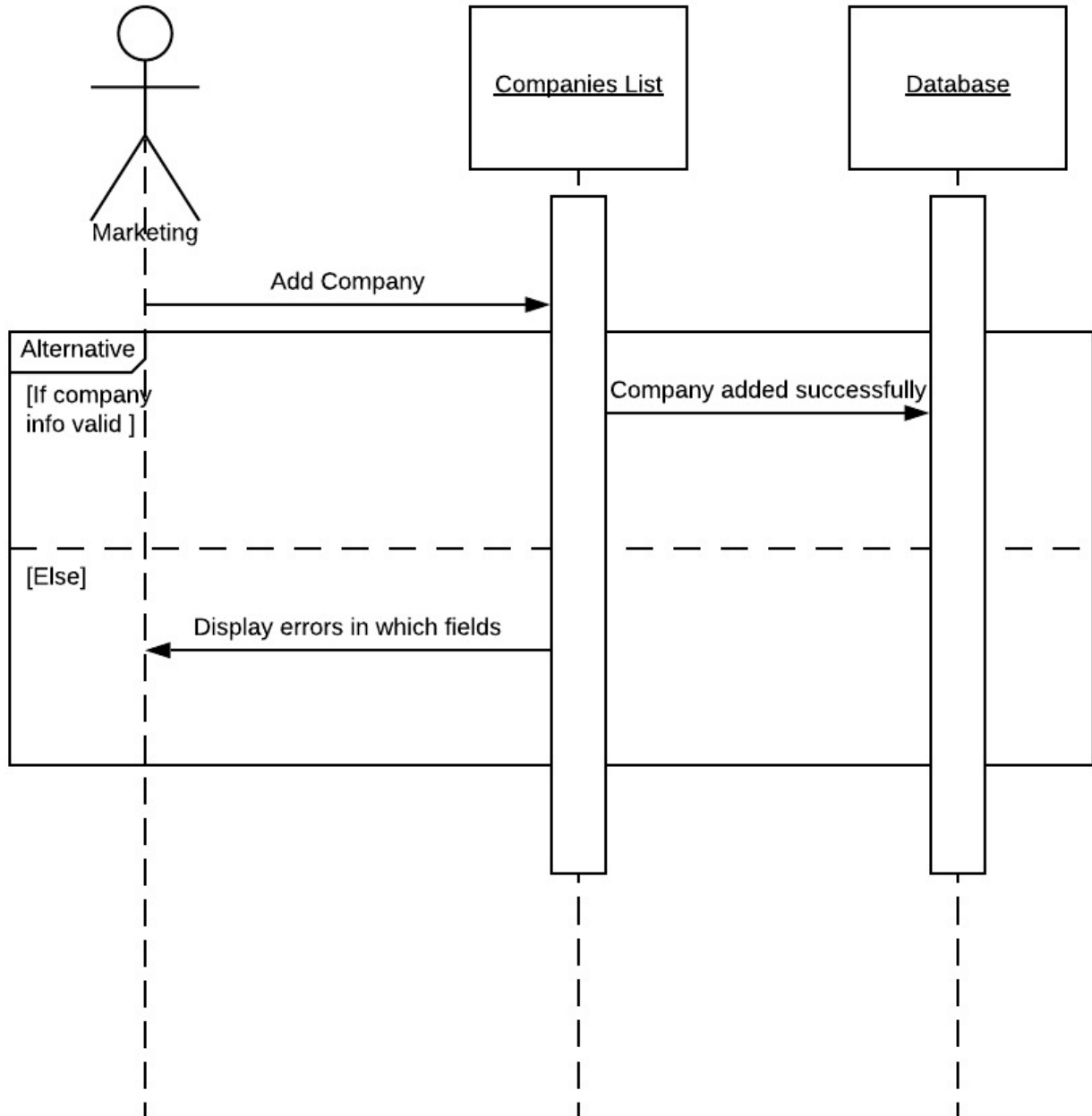
6 Sequence Diagrams
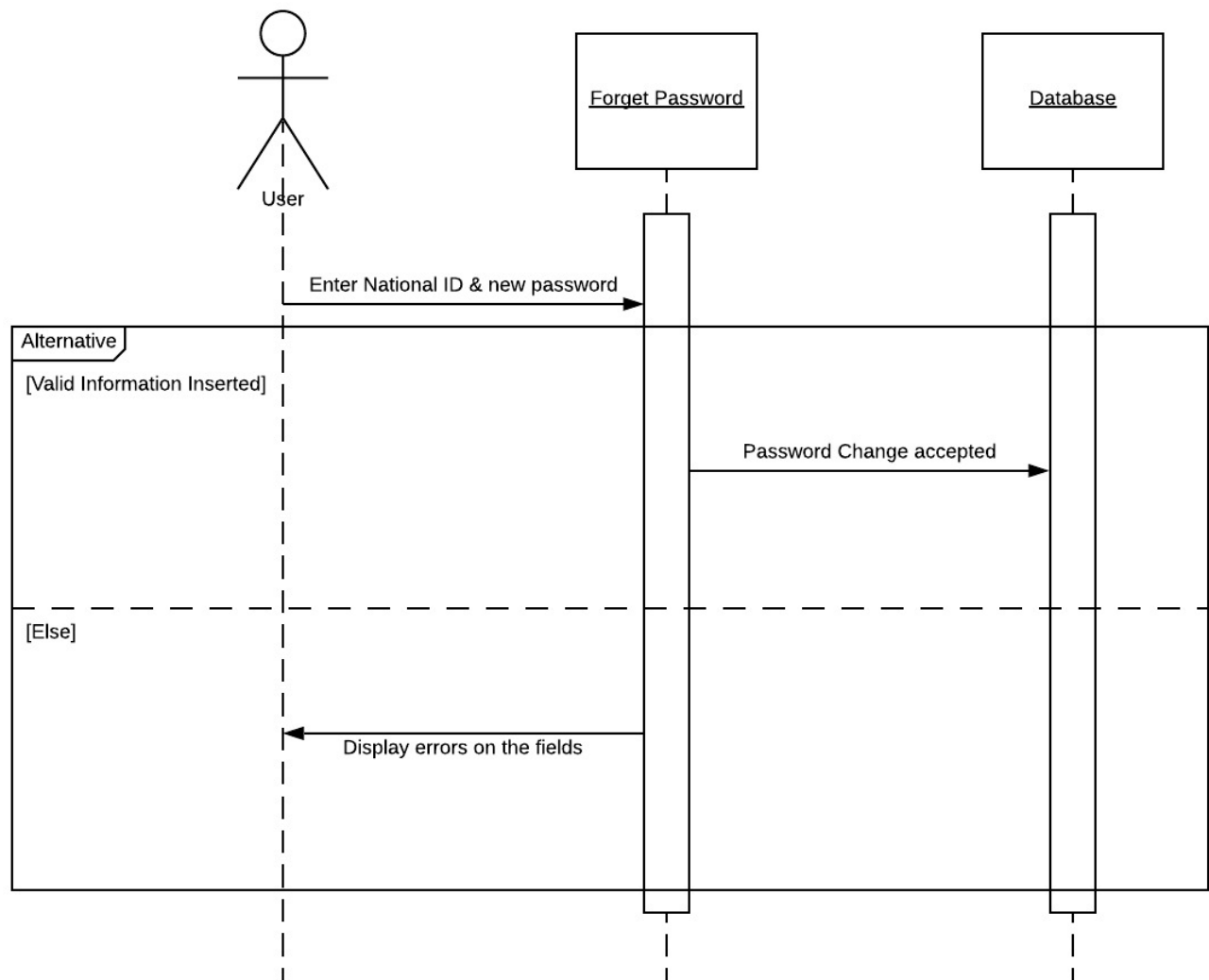

Figure 2: Add Company function
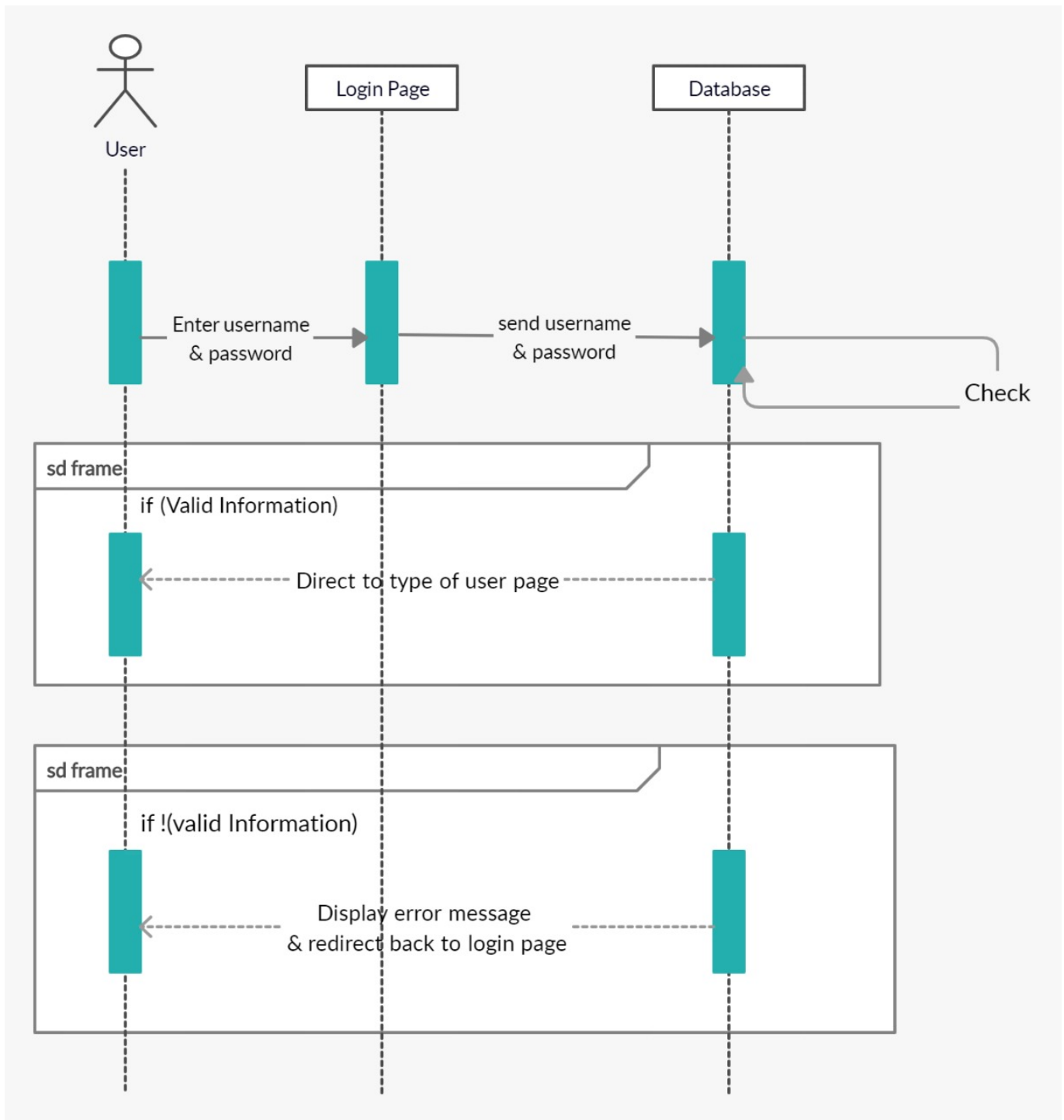
Figure 3: Forget password function

Figure 4: Login function

7 Test Data

The test data used is basically a mixture of random letters and numbers intended to the test the validation of input fields. In other cases, the data had to be real to test features such as login, search and forgot password.