

TODO List

Team 4

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**Project Phase 4:  
Test Plan**

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## 1. Introduction

The purpose of this document is to outline the strategies for TODO List test plan. Testing will be requirements based testing which means that the requirements specification document will be used to obtain a list of testing requirements. The rest of this document is divided into three parts. First, in section 2, testing requirements which are derived from the requirements specification(RS). Second, in section 3 test cases that outline the purpose, procedure, and expected output that cover all the testing requirement. At the meantime, testing report which describes the results by running the test cases.

## 2. Testing Requirements

### 2.1 Application Startup

#### 2.1.1 RS 3.2.1.1

Launch the server.

#### 2.1.2 RS 3.2.1.2

Launch the application.

### 2.2 The User register

#### 2.2.1 RS 3.2.2.1

Attempt to register with valid email address and password.

#### 2.2.2 RS 3.2.2.1

Attempt to register with an email address that is already registered before.

#### 2.2.3 RS 3.2.2.1

Attempt to register with an invalid email address

#### 2.2.4 RS 3.2.2.2

Attempt to register with an invalid password

#### 2.2.5 RS 3.2.2.2

Attempt to register with an empty password

### 2.3 The User login

#### 2.3.1 RS 3.2.3.1

Attempt to login with no arguments for email and password

#### 2.3.2 RS 3.2.3.1

Attempt to login with correct registered email and password

#### 2.3.3 RS 3.2.3.1

Attempt to login with incorrect registered email

#### 2.3.4 RS 3.2.3.1

Attempt to login with incorrect password

## **2.4 Add Task**

### **2.4.1 RS 3.2.4.1**

Attempt to add a valid task into the list

### **2.4.2 RS 3.2.4.1**

Attempt to add an invalid length task into the list

### **2.4.3 RS 3.2.4.1**

Attempt to add an empty task into the list

### **2.4.4 RS 3.2.4.2**

Attempt to set a deadline for a task

### **2.4.5 RS 3.2.4.2**

Attempt to set an invalid format deadline for a task

## **2.5 Delete Task**

### **2.5.1 RS 3.2.5.1**

Attempt to delete a task

### **2.5.2 RS 3.2.5.2**

When the mouse hovers on a task, the delete button would display

### **2.5.3 RS 3.2.5.2**

When the mouse doesn't hover on a task, the delete button wouldn't display

## **2.6 Complete Task**

### **2.6.1 RS 3.2.6.1**

Attempt to complete a task

### **2.6.2 RS 3.2.6.1**

Attempt to cancel the completed operation

## **2.7 Count Task**

### **2.7.1 RS 3.2.7.1**

After the add, delete, and complete operations, the count of task would change the value

## **3. Test Cases**

The test cases below make up the TODO List Web-based Application test suite. The purpose and setup procedure of each test case has been outlined. The expected output must be observed for the test case to pass.

### **3.1 Application Startup**

#### **3.1.1 Test 1**

##### **Purpose:**

Test the launch of server

**Setup:**

Launch the server by command line on cmd.

**Inputs and Expected Outputs**

Input	Expected Output
Npm run server	The server launched successful

**Testing Requirements Covered:**

Testing Requirement 2.1.1

## 3.1.2 Test 2

**Purpose:**

Test the launch of server

**Setup:**

Launch the application by command line on cmd.

**Inputs and Expected Outputs**

Input	Expected Output
Npm run dev	Todo List is displayed

**Testing Requirements Covered:**

Testing Requirement 2.1.2

**3.2 The User register**

## 3.2.1 Test 3

**Purpose:**

Test registering with valid email address and password.

**Setup:**

Click the register button, and click submit after filled the information

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	test@gmail.com	true	-
Password	123456	true	-
Click submit	-	true	Successful

**Testing Requirements Covered:**

Testing Requirement 2.2.1

## 3.2.2 Test 4

**Purpose:**

Test registering with an email address that is already registered before.

**Setup:**

Click the register button, and click submit after filled the information

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	test@gmail.com	false	Invalid input
Password	123456	true	-
Click submit	-	-	-

**Testing Requirements Covered:**

Testing Requirement 2.2.2

3.2.3 Test 5

**Purpose:**

Test registering with an invalid email address.

**Setup:**

Click the register button, and click submit after filled the information

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	test	false	Invalid input
Password	123456	true	-
Click submit	-	-	-

**Testing Requirements Covered:**

Testing Requirement 2.2.3

3.2.4 Test 6

**Purpose:**

Test registering with an invalid password

**Setup:**

Click the register button, and click submit after filled the information

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	abc@gmail.com	true	-
Password	123 56	false	Invalid input
Click submit	-	-	-

**Testing Requirements Covered:**

Testing Requirement 2.2.4

## 3.2.5 Test 7

**Purpose:**

Test registering with an empty password

**Setup:**

Click the register button, and click submit after filled the information

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	abc@gmail.com	true	-
Password		false	Invalid input
Click submit	-	-	-

**Testing Requirements Covered:**

Testing Requirement 2.2.5

**3.3 The User login**

## 3.3.1 Test 8

**Purpose:**

Test login with no arguments for email and password

**Setup:**

Click the login button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address		false	-
Password		false	-
Click login	-	-	Login failed

**Testing Requirements Covered:**

Testing Requirement 2.3.1

## 3.3.2 Test 9

**Purpose:**

Test login with correct registered email and password

**Setup:**

Click the login button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email	test@gmail.com	True	-

address			
Password	123456	True	-
Click login	-	-	Login successfully

**Testing Requirements Covered:**

Testing Requirement 2.3.2

## 3.3.3 Test 10

**Purpose:**

Test login with incorrect registered email

**Setup:**

Click the login button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	Test1@gmail.com	False	-
Password	123456	True	-
Click login	-	-	Login failed

**Testing Requirements Covered:**

Testing Requirement 2.3.3

## 3.3.4 Test 11

**Purpose:**

Test login with incorrect password

**Setup:**

Click the login button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Email address	test@gmail.com	true	-
Password	1234567	false	-
Click login	-	-	Login failed

**Testing Requirements Covered:**

Testing Requirement 2.3.4

**3.4 Add Task**

## 3.4.1 Test 12

**Purpose:**

Test adding a valid task into the list



**Setup:**

Click the submit button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Task	361 test	true	-
Deadline	April 7, 2017	true	-
submit	-	-	Task displayed on list

**Testing Requirements Covered:**

Testing Requirement 2.4.1

Testing Requirement 2.4.4

## 3.4.2 Test 13

**Purpose:**

Test adding a valid task into the list

**Setup:**

Click the submit button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Task	361 test	true	-
Deadline	-	true	-
submit	-	-	Task displayed on list

**Testing Requirements Covered:**

Testing Requirement 2.4.1

## 3.4.3 Test 14

**Purpose:**

Test adding an invalid length task into the list

**Setup:**

Click the submit button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Task	361 project 361 project 361 project 361 project 361 project 361 project 361 project 361 project 361	false	-

	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
	project	361		
Deadline	-		true	-
submit	-		-	Invalid Input

**Testing Requirements Covered:**

Testing Requirement 2.4.2

## 3.4.4 Test 15

**Purpose:**

Test adding an empty task into the list

**Setup:**

Click the submit button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Task		false	-
Deadline	-	true	-
submit	-	-	Invalid Input

**Testing Requirements Covered:**

Testing Requirement 2.4.3

## 3.4.4 Test 16

**Purpose:**

Test adding an empty task into the list

**Setup:**

Click the submit button

**Inputs and Expected Outputs**

Input Field	Input Value	Information Accepted	Expected Output
Task	test	true	-
Deadline	abcd	true	-

submit	-	-	Invalid Input
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**Testing Requirements Covered:**

Testing Requirement 2.4.5

**3.5 Delete Task**

## 3.5.1 Test 17

**Purpose:**

Test deleting a task

**Setup:**

Click the delete button

**Inputs and Expected Outputs**

Input	Expected Output
Click delete button	The task deleted

**Testing Requirements Covered:**

Testing Requirement 2.5.1

## 3.5.2 Test 18

**Purpose:**

Test when the mouse hovers on a task, the delete button would display

**Setup:**

Hover the mouse on a task

**Inputs and Expected Outputs**

Input	Expected Output
Hover the mouse on a task	The delete button would display

**Testing Requirements Covered:**

Testing Requirement 2.5.2

## 3.5.3 Test 19

**Purpose:**

Test when the mouse doesn't hover on a task, the delete button wouldn't display

**Setup:**

Remove the mouse from a task

**Inputs and Expected Outputs**

Input	Expected Output
Remove the mouse from a task	The delete button wouldn't display

**Testing Requirements Covered:**  
Testing Requirement 2.5.3

### **3.6 Complete Task**

3.6.1 Test 20

**Purpose:**  
Test completing a task  
**Setup:**  
Click the checkbox

#### **Inputs and Expected Outputs**

<b>Input</b>	<b>Expected Output</b>
Click checkbox	The task is marked as complete.

**Testing Requirements Covered:**  
Testing Requirement 2.6.1

3.6.1 Test 21

**Purpose:**  
Test cancel the completed operation  
**Setup:**  
Click the checkbox

#### **Inputs and Expected Outputs**

<b>Input</b>	<b>Expected Output</b>
Click checkbox	The task is recover as not complete.

**Testing Requirements Covered:**  
Testing Requirement 2.6.2

### **3.7 Count Task**

3.7.1 Test 22

**Purpose:**  
Test count function  
**Setup:**  
Add a task on list

#### **Inputs and Expected Outputs**

<b>Input</b>	<b>Expected Output</b>
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Click Submit	The sum number + 1
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**Testing Requirements Covered:**

Testing Requirement 2.7.1

3.7.2 Test 23

**Purpose:**

Test count function

**Setup:**

Delete a task on list

**Inputs and Expected Outputs**

Input	Expected Output
Click Delete	The sum number - 1

**Testing Requirements Covered:**

Testing Requirement 2.7.1

3.7.3 Test 24

**Purpose:**

Test count function

**Setup:**

Complete a task on list

**Inputs and Expected Outputs**

Input	Expected Output
Click Checkbox	The finished number +1

**Testing Requirements Covered:**

Testing Requirement 2.7.1

3.7.4 Test 25

**Purpose:**

Test count function

**Setup:**

Cancel the completed operation

**Inputs and Expected Outputs**

Input	Expected Output
Click Checkbox	The finished number -1

**Testing Requirements Covered:**

Testing Requirement 2.7.1