Product Testing Plan

eTimely

Version 1.2

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Matt Korte

Caleb Obi

Chris Gumieny

Samia Chowdhury

# Revision History

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline how the eTimely application will be tested to ensure all features and functionalities are working as expected. With this document, the intended audience will have a comprehensive outline of all the different sorts of test cases, consisting of functional testing, non-functional testing, integration testing, and system testing.

## 1.2 References

The test cases referenced throughout this document are defined in a detailed format within sections 6 through 9 of this document. Each test case is defined based off a particular requirement or use case defined in the eTimely Software Requirement Specification document or eTimely Design Specification document respectively.

Additionally, the appendix of this document will define various ways to set up the database before running a test case. These will be referenced in the preconditions of a test case, such as DBS-00, DBS-01, and so on.

# 2. Functional Testing

## 2.1 Approach

Functional testing will test the functionalities of the features implemented in the eTimely web application to ensure each functionality is working as intended. Testing will be performed manually by a tester following the steps of the test cases outlined in this document.

## 2.2 Pass / Fail Criteria

Functional testing will pass if the tests meet the expected results and postconditions listed in each of the functional test cases.

Functional testing will fail if the tests do not meet the expected results and postconditions listed in each of the functional test cases and will be flagged for review.

## 2.3 Entry / Exit Criteria

Functional testing will begin at the completion of prototype three and will end when each test case is passed.

## 2.4 Suspension / Resumption Criteria

If a test case were to fail, testing of other cases will continue as expected while the team works to find the reason for the failure. The only case in which a single test case fails, and other tests are suspended is if the failed test being executed properly is a precondition of a one or more later tests. If this were to happen, then those later test cases will be suspended as well. Testing of the failed test and any tests dependent upon it will resume after the team has investigated and resolved the cause of the failure.

Additionally, if between all testers, there are 10 or more tests cases that fail we shall suspend testing. This is because having this many failed test cases means there are one or more major issues in the code that are causing the tests to fail. If this is the case, we will resume testing after reviewing the code to find the issue (or issues) and apply any needed fixes.

## 2.5 Risks / Issues

Since the database will be cleared and repopulated for each test case, a few separate issues can arise. If the database is not populated properly, the entire test may fail. In addition to this, the constant emptying and repopulation of data could cause us to reach our maximum read, write, or delete limit on the database very quickly thus delaying testing.

## 2.6 Items to be Tested

### 2.6.1 Sign Up and Login

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-1 | Business Sign Up | Test creating a business account with valid input |
| TC-2 | Business Sign Up with Existing Email | Test creating a business account with an existing email |
| TC-3 | Business Sign Up with Different Password | Test creating a business account with different passwords |
| TC-4 | Business Sign Up without a Company Name | Test creating a business account without a company name |
| TC-5 | Business Sign Up without a Company Email | Test creating a business account without a company email |
| TC-118 | Business Sign Up without Terms and Conditions | Test making a business account without agreeing to terms and conditions |
| TC-6 | Business Login: Success | Test logging into a business account successfully |
| TC-7 | Business Login without Verified Email | Test logging into a business account without a verified email |
| TC-116 | Business Login without an Email | Test logging into a business account without an email |
| TC-117 | Business Login without a Password | Test logging into a business account without a password |
| TC-10 | Verify Business Account | Test verifying a business account |
| TC-119 | Staff Invite Sent | Test sending an invitation link to a new staff member |
| TC-11 | Staff Sign Up | Test signing up a staff user |
| TC-12 | Staff Login | Test staff logging in successfully |
| TC-13 | Reset Password: Normal Flow | Test resetting password successfully |
| TC-14 | Reset Password: Invalid Email | Test resetting password with an invalid email |

### 2.6.2 Availability Confirmation

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-15 | Availability Confirmation | Test that newly enter staff availability is displayed on dashboard. |

### 2.6.3 Announcements

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-16 | Announcement Creation | Test creating an announcement on the “Create Announcement” with valid input. |
| TC-17 | Announcement Creation: Title too Short | Test creating an announcement on the “Create Announcement” when the title is shorter than expected. |
| TC-18 | Announcement Creation: Title too Long | Test creating an announcement on the “Create Announcement” when the title is longer than expected. |
| TC-19 | Announcement Creation: Details too Short | Test creating an announcement on the “Create Announcement” when the details field is shorter than expected. |
| TC-20 | Announcement Creation: Details too Long | Test creating an announcement on the “Create Announcement” when the details field is longer than expected. |
| TC-21 | Dashboard Announcement Creation | Test creating an announcement on the business dashboard with valid input. |
| TC-22 | Dashboard Announcement Creation: Title too Short | Test creating an announcement on the business dashboard when the title is shorter than expected. |
| TC-23 | Dashboard Announcement Creation: Title too Long | Test creating an announcement on the business dashboard when the title is longer than expected. |
| TC-24 | Dashboard Announcement Creation: Details too Short | Test creating an announcement on the business dashboard when the details field is shorter than expected. |
| TC-25 | Dashboard Announcement Creation: Details too Long | Test creating an announcement on the “Create Announcement” when the details field is longer than expected. |
| TC-26 | Announcement Deletion | Delete a previously created announcement. |
| TC-27 | Business Announcement Viewing | Ensure business users can see previously created announcements |
| TC-28 | Staff Announcement Viewing | Ensure staff users can see previously created announcements |

### 2.6.4 Roles

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-29 | New Role Creation | Business user creating a new role type. |
| TC-30 | Duplicate Business Role Creation | Attempting to create a role with a name that is already in use. |
| TC-31 | Edit Role: Success | Successfully changing the name of a role to something that is not already in use. |
| TC-32 | Edit Role: Duplicate | Attempting to change the name of role to something that already exists. |
| TC-33 | Delete Role | Deleting a role name from database. |
| TC-34 | Staff Member Role Change | Change the assigned role of a staff user. |

### 2.6.5 User Logout

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-35 | Business Logout | Test logout functionality for business users |
| TC-36 | Staff Logout | Test logout functionality for staff users |

### 2.6.6 Profile Updates

|  |  |  |
| --- | --- | --- |
| Test Case ID | Title | Description |
| TC-37 | Business Name Update | Test updating name as a business user. |
| TC-38 | Staff Name Update | Update name as a staff user. |

### 2.6.7 Contact Us

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-39 | Contact Us: Success | Successfully send a message through the contact us feature with expected data in the fields. |
| TC-40 | Contact Us: Empty Fields | Attempt to use the contact us feature without any info in the fields. |
| TC-41 | Contact Us: Invalid Email Field | Attempt to use the contact us feature without entering a valid email. |
| TC-42 | Contact Us: Message too Short | Attempt to use the contact us feature with a message that is shorter than expected. |
| TC-43 | Contact Us: Message too Long | Attempt to use the contact us feature with a message that is longer than expected. |

### 2.6.8 Staff Availability Change

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-44 | Staff Availability Change: Past Date | Enter availability for a past date. |
| TC-45 | Staff Availability Change: Create a Valid Availability | Enter valid availability. |
| TC-46 | Staff Availability Change: Enter a Duplicate Availability | Enter an already existing availability. |
| TC-47 | Staff Availability Change: Enter an Overlapping Availability | Enter an availability that overlaps with an existing one. |
| TC-48 | Staff Availability Change: Edit Existing Availability into a Past Date | Edit an availability to change the date to a past date. |
| TC-49 | Staff Availability Change: Valid Edit on an Existing Availability | Make a valid edit to an existing availability. |
| TC-50 | Staff Availability Change: Overlapping Edit on Existing Availability | Make an edit to an existing availability that will overlap with another existing one. |
| TC-51 | Staff Availability Change: Edit an Existing Availability to a Duplicate | Make an edit to an existing availability that turns it into a duplicate. |
| TC-52 | Staff Availability Change: Delete Availability | Delete the availability from the system. |

### 2.6.9 Team Availability

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-53 | Team Availability: Employee with 0 Availabilities | View an employee that has not set an availability. |
| TC-54 | Team Availability: Employee with 1 Availability | View an employee that has set 1 availability |
| TC-55 | Team Availability: Employee with More than 7 Availabilities | View an employee that has set more than 7 availabilities. |

### 2.6.10 Schedule Creation

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-56 | Schedule Creation: Empty Employee Field | Attempt to create a shift without selecting an employee. |
| TC-57 | Schedule Creation: Schedule a Shift on a Past Date | Attempt to create a shift for a past date. |
| TC-58 | Schedule Creation: Schedule an Employee that is Available | Create a shift for an employee during the time that they are available. |
| TC-59 | Schedule Creation: Schedule a Duplicate Shift | Create a shift that already exists. |
| TC-60 | Schedule Creation: Schedule an Overlapping Shift | Create a shift for an employee that overlaps with an existing shift for that employee. |
| TC-61 | Schedule Creation: Schedule an Employee that is Unavailable | Create a shift for an employee during a time that they are unavailable. |
| TC-62 | Schedule Creation: Cancel the Schedule for an Employee that is Unavailable | Cancel the creation of a shift for an employee during a time that they are unavailable. |
| TC-63 | Schedule Creation: Schedule Two Employees for the Same Time | Create two shifts for different employees for the same timeslot. |
| TC-64 | Schedule Creation: Edit Shift to a Past Date | Attempt to edit a shift to a past date. |
| TC-65 | Schedule Creation: Overlapping Edit to an Existing Shift | Attempt to edit a shift to a time that overlaps with another shift for the same employee. |
| TC-66 | Schedule Creation: Valid Edit to an Existing Shift | Make a valid edit on a shift for an employee. |
| TC-67 | Schedule Creation: Delete Shift | Delete a shift for an employee. |

### 2.6.11 Staff Schedule Page

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-68 | Staff Schedule Page: Display Employee Schedule | Visit the staff schedule page to view the staff user’s schedule. |

# 3. Non-functional Testing

## 3.1 Approach

Non-functional testing will test all the features performance, reliability, security, and portability to ensure the application will work as intended. Testing will be performed manually by a tester following the steps of the test cases outlined in this section.

## 3.2 Pass/Fail Criteria

Non-functional testing will pass if the tests meet the expected results and postconditions listed in each of the non-functional test cases.

Non-functional testing will fail if the tests do not meet the expected results and postconditions listed in each of the non-functional test cases and will be flagged for review.

## 3.3 Entry / Exit Criteria

This phase of testing will only be entered after the completion of the functional testing phase. This phase will conclude when all test cases have been run and passed.

## 3.4 Suspension / Resumption Criteria

If a test case were to fail, that particular test case will be suspended to allow the team to investigate the cause of the failure. Once the error has been located and fixed testing will resume. Additionally, if we reach our daily limit of reads, writes, and/or deletes to our database set by Firebase, testing will be suspended and resume the following day once the limits have been reset.

## 3.5 Risks / Issues

Since the database will be wiped and repopulated for each test case, a few separate issues can arise. For one, if the database is not populated properly the entire test may “fail” since the expected output is not given. Second, the constant emptying and repopulation of data could cause us to reach our maximum read, write, or delete limit on the database very quickly and delay testing.

## 3.6 Items to be Tested

### 3.6.1 Non-functional Test Cases

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-69 | Staff API Request Performance – Restful Server Application | All Rest API’s requests used in allowing staff to communicate with the application will be processed within 3 seconds. |
| TC-70 | Business API Request Performance Restful Server Application | All Rest API’s requests used in allowing businesses to communicate with the application will be processed within 3 seconds. |
| TC-71 | API Performance – Restful Server Application | All Rest APIs must be capable of handling concurrent communications with at least 100 or more concurrent users. |
| TC-72 | Database Server Error Handling | Report meaningful error messages to the user for all failed server transactions. |
| TC-73 | Business Account Password Encryption | All passwords for business accounts that are saved in the database will be hashed with the brcypt algorithm to ensure we are securely saving users password. |
| TC-74 | Staff Account Password Encryption | All passwords for staff accounts that are saved in the database will be hashed with the brcypt algorithm to ensure we are securely saving users' passwords. |
| TC-75 | Website Responsiveness | The website should be completely responsive and adaptable to any view that a user is using to access the application, which could be a mobile, tablet or desktop view. |

# 4. Integration Testing

## 4.1 Approach

Integration testing will consist of manually testing all the modules, components and external software utilized in eTimely web application to ensure they work as intended when integrated into our application.

## 4.2 Pass/Fail Criteria

Integration testing will pass if the tests meet the expected results and postconditions listed in each of the integration test cases.

Integration testing will fail if the tests do not meet the expected results and postconditions listed in each of the integration test cases and will be flagged for review.

## 4.3 Entry / Exit Criteria

This phase of testing will only be entered after the completion of the functional testing phase and will conclude when all test cases have been run and passed.

## 4.4 Suspension / Resumption Criteria

If a test case were to fail, that particular test case will be suspended to allow the team to investigate the cause of the failure. Once the error has been located and fixed testing will resume. Additionally, if we reach our daily limit of reads, writes, and/or deletes to our database set by Firebase, testing will be suspended and resume the following day once the limits have been reset.

Additionally, if between all testers, there are 10 or more tests cases that fail we shall suspend testing. This is because having this many failed test cases means there are one or more major issues in the code that are causing the tests to fail. If this is the case, we will resume testing after reviewing the code to find the issue (or issues) and apply any needed fixes.

## 4.5 Risks / Issues

Since the database will be wiped and repopulated for each test case, a few separate issues can arise. For one, if the database is not populated properly the entire test may “fail” since the expected output is not given. Second, the constant emptying and repopulation of data could cause us to reach our maximum read, write, or delete limit on the database very quickly and delay testing.

## 4.6 Items to be Tested

### 4.6.1 Integration Test

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | **Title** | **Description** |
| TC-76 | Nodemailer – Sending Emails | Attempt to send mock emails using the nodemailer package to ensure email integration works as expected with the eTimely web application. |
| TC-77 | Generating JWT Access Token for Authentication - Successful | Attempt to login into the eTimely application and verify that JWT generates an access token that will be sent |
| TC-78 | Reset Password Expired JWT Access Link - Successful | Attempt to reset password with an expired reset password JWT link |

# 5. System Testing

## 5.1 Approach

System testing will include manual tests of all functionalities in one session using specified parameters. Additionally, the database should be empty at the beginning of testing but should not be cleared over the course of testing, previous testing phases. This is to ensure that the system performs as expected in a less controlled environment.

## 5.2 Pass/Fail Criteria

System testing will pass if the tests meet the expected results and postconditions listed in each of the system test cases

System testing will fail if the tests does not meet the expected results and postconditions listed in each of the system test cases and will be flagged for review.

## 5.3 Entry / Exit Criteria

This testing phase will only be complete when all tests can be run consecutively without an error occurring or a test failing.

## 5.4 Suspension / Resumption Criteria

Since the purpose of system testing is to test all functionalities in one go, testing will be suspended when a single test case fails. This is to allow the team to investigate the cause of this failure. Once the error has been located and fixed, testing shall resume.

Additionally, if we reach our daily limit of reads, writes, and/or deletes to our database set by Firebase, testing shall be suspended and resumed the following day once the limits have been reset.

## 5.5 Risks / Issues

Since the database will be wiped and repopulated for each test case, a few separate issues can arise. For one, if the database is not populated properly the entire test may “fail” since the expected output is not given. Second, the constant emptying and repopulation of data could cause us to reach our maximum read, write, or delete limit on the database very quickly and delay testing.

## 5.6 Execution Path

### 5.6.1 Default User

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Title** | **Parameters** | |
| TC-79 | Default User: About Us |  |  |
| TC-80 | Default User: Terms and Conditions |  |  |
| TC-81 | Default User: Contact Us | Name: | John Doe |
| Email: | etimelyTest@gmail.com |
| Message: | Can I access this website on my phone? |

### 5.6.2 Business User First Login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Title** | **Parameters** | | | |
| TC-82 | Business User: Registration | Company Name: | | Target | |
| Email: | | etimelyTest@gmail.com | |
| Password: | | Test1234 | |
| TC-83 | Business User: Verification |  | |  | |
| TC-84 | Business User: Reset Password | Email: | | etimelyTest@gmail.com | |
| New Password: | | Testing12345 | |
| TC-85 | Business User: Login | Email: | | etimelyTest@gmail.com | |
| Password: | | Testing12345 | |
| TC-86 | Business User: Dashboard Announcement | Title: | | News for Friday | |
| Details: | | We will have a day off on Friday. | |
| TC-87 | Business User: Create Role | Name: | | Waiter | |
| TC-88 | Business User: Edit Role | Name: | | Engineer | |
| TC-89 | Business User: Delete Role |  | |  | |
| TC-90 | Business User: Invite Staff Member | First Name: | | Dave | |
| Last Name: | | Smith | |
| Email: | | etimelyStaff@gmail.com | |
| Role: | | Manager | |
| TC-91 | Business User: Assign Role |  | |  | |
| TC-92 | Business User: Team Search | Search One: | | Smith | |
|  | Search Two: | xyz | |
| TC-93 | Business User: Filter by Role |  | |  | |
| TC-94 | Business User: Schedule Unavailable Employee |  | |  | |
| TC-95 | Business User: Edit Shift |  | |  | |
| TC-96 | Business User: Create an Announcement | Title: | | Tomorrow | |
| Details: | | We start at 10:00am tomorrow. | |
| TC-97 | Business User: View Announcements |  | |  | |
| TC-98 | Business User: Update Profile | Company Name: | | Walmart | |
| Password: | | Testing123 | |
| TC-99 | Business User: Logout |  | |  | |

### 5.6.3 Staff User

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Title** | **Parameters** | |
| TC-100 | Staff User: Sign Up | Password: | Test1234 |
| TC-101 | Staff User: Login | Email: | etimelyStaff@gmail.com |
| Password: | Test1234 |
| TC-102 | Staff User: Dashboard Information |  | |
| TC-103 | Staff User: View Schedule |  | |
| TC-104 | Staff User: Add Availability |  | |
| TC-105 | Staff User: Edit Availability |  | |
| TC-106 | Staff User: Delete Availability |  | |
| TC-107 | Staff User: View Announcements |  | |
| TC-108 | Staff User: Update Profile | First Name: | David |
| Last Name: | Smiths |
| Password: | Testing123 |
| TC-109 | Staff User: Logout |  | |

### 5.6.4 Business User Second Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Title** | **Parameters** | |
| TC-85 | Business User: Login | Email: | etimelyTest@gmail.com |
| Password: | Testing12345 |
| TC-110 | Business User: View New Availability |  |  |
| TC-111 | Business User: View Team Availability |  |  |
| TC-112 | Business User: Schedule Available Employee |  |  |
| TC-113 | Business User: Delete Shift |  |  |
| TC-114 | Business User: Delete Announcement |  |  |
| TC-115 | Business User: Terminate Staff |  |  |
| TC-99 | Business User: Logout |  |  |

# 6. Functional Test Cases

## 6.1 Business Sign-Up

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-1 | | **Test Case Name:** Business Sign Up |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 * Firestore is open in another window. * User is on the business sign up page. | |
| **Postconditions** | * User has created an eTimely business account. * A verification email is sent to the user’s email address used to create a business account. * The business account information is saved to the “BusinessUser” collection in the database. * Five default roles are added and linked to the business account in the “Roles” collection of the database. | |
| **Test Steps** | 1. Enter “eTimelyTest” in the company name field. 2. Enter “etimelyTest@gmail.com” in the company email field. 3. Enter “Pass1234” in the password and confirm password field. 4. Check the “Agree to Terms and Conditions” checkbox. 5. Click “Create Account” to create a new business account. | |
| **Expected Results** | * A business account is created, and the user is prompted to sign in. * The user receives an account verification email in their email address to verify their account. | |

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| --- | --- | --- |
| **Test Case ID:** TC-2 | | **Test Case Name:** Business Sign Up with Existing Email |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * User is on the business sign up page. | |
| **Postconditions** | User is unable to create a business account. | |
| **Test Steps** | 1. Enter “eTimelyTest” in the company name field. 2. Enter “etimelyTest@gmail.com” in the company email field. 3. Enter “Pass1234” in the password and confirm password field. 4. Check the “Agree to Terms and Conditions” checkbox. 5. Click “Create Account” to create a new business account. | |
| **Expected Results** | * An error message displays saying, “Email is already in use.” * The user is prompted to use a different email that isn’t already in use. * A business account cannot be created with an existing email address. | |

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| --- | --- | --- |
| **Test Case ID:** TC-3 | | **Test Case Name:** Business Sign Up with Different Password |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 * User is on the business sign up page. | |
| **Postconditions** | User is unable to create a business account. | |
| **Test Steps** | 1. Enter “eTimelyTest” in the company name field. 2. Enter “etimelyTest@gmail.com” in the company email field. 3. Enter “Pass1234” in the password field. 4. Enter “Pass12345” in the confirm password field. 5. Check the “Agree to Terms and Conditions” checkbox. 6. Click “Create Account” to create a business account. | |
| **Expected Results** | * An error message displays saying, “Passwords must match.” * User is prompted to enter password that matches with the confirm password. | |

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| --- | --- | --- |
| **Test Case ID:** TC-4 | | **Test Case Name:** Business Sign Up without a Company Name |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 * User is on the business sign up page. | |
| **Postconditions** | User is unable to create a business account. | |
| **Test Steps** | 1. Do not enter a company name in the company name field. 2. Enter “Pass1234” in the password field. 3. Enter “Pass1234” in the confirm password field. 4. Check the “Agree to Terms and Conditions” checkbox. 5. Click “Create Account” to create a business account. | |
| **Expected Results** | * An error displays saying, “Company name is required.” * The user is prompted to enter a company name in the company name field. | |

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| --- | --- | --- |
| **Test Case ID:** TC-5 | | **Test Case Name:** Business Sign Up without a Company Email |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 * User is on the business sign up page. | |
| **Postconditions** | User is unable to create a business account. | |
| **Test Steps** | 1. Enter “Walmart” in the company name field. 2. Do not enter an email address in the company email field. 3. Enter “Test1234” in the password and confirm password field. 4. Check the “Agree to Terms and Conditions” checkbox. 5. Click “Create Account” to create a business account. | |
| **Expected Results** | * An error message displays saying, “Company email is required.” * The user is prompted to enter a company email in the company email field. | |

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| --- | --- | --- |
| **Test Case ID:** TC-118 | | **Test Case Name:** Business Sign Up without Terms and Conditions |
| **Created By:** Matt Korte | | **Date Created:** 4/3/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 * User is on the business sign up page. | |
| **Postconditions** | User is unable to create a business account. | |
| **Test Steps** | 1. Enter “eTimelyTest” in the company name field. 2. Enter “etimelyTest@gmail.com” in the company email field. 3. Enter “Pass1234” in the password field. 4. Enter “Pass1234” in the confirm password field. 5. Do not check the “Agree to Terms and Conditions” checkbox. 6. Click “Create Account” to create a business account. | |
| **Expected Results** | * An error message displays saying, “Use must agree to the terms and conditions.” * User is prompted to check the “Agree to Terms and Conditions” checkbox. | |

## 6.2 Business Login

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| --- | --- | --- |
| **Test Case ID:** TC-6 | | **Test Case Name:** Business Login: Success |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is on the home page. | |
| **Postconditions** | The user is signed into the application successfully. | |
| **Test Steps** | 1. Navigate to the login page by clicking on the “Sign In” button. 2. Enter “etimelyTest@gmail.com" in the company email field. 3. Enter “Pass1234” in the password field. 4. Click “Login” to sign into a business account. | |
| **Expected Results** | The user is signed in and redirected to the business dashboard. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-7 | | **Test Case Name:** Business Login Without Verified Account |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-03 * The user is on the home page. | |
| **Postconditions** | The user is unable to sign into the application. | |
| **Test Steps** | 1. Navigate to the login page by clicking on the “Sign In” button. 2. Enter “etimelyTest@gmail.com” in the email field. 3. Enter “Pass1234” in the password field. 4. Click “Login” to sign into the application. | |
| **Expected Results** | * An error message displays saying, “Account not verified, please check your email for verification link.” * The user is prompted to go to their email account and click on verification link to verify their account. * The user is unable to sign into the application. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-116 | | **Test Case Name:** Business Login Without an Email |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is on the home page. | |
| **Postconditions** | The user is unable to sign into the application. | |
| **Test Steps** | 1. Navigate to the login page by clicking on the “Sign In” button. 2. Do not enter an email in the email field. 3. Enter “Pass1234” in the password field. 4. Click “Login” to sign into the application. | |
| **Expected Results** | * An error message displays saying, “Email is required.” * The user is prompted to enter an email to be able to sign into the application. * The user is unable to sign into the application. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-117 | | **Test Case Name:** Business Login without a Password |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is on the home page. | |
| **Postconditions** | The user is unable to sign into the application. | |
| **Test Steps** | 1. Navigate to the login page by clicking on the “Sign In” button. 2. Enter “etimelyTest@gmail.com” in the email field. 3. Do not enter a password in the password field. 4. Click “Login” to sign into the application. | |
| **Expected Results** | * An error message displays saying, “Password is required.” * User is prompted to enter a password in the password field. * User is unable to sign into the application. | |

## 6.3 Business Account Verification

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| --- | --- | --- |
| **Test Case ID:** TC-10 | | **Test Case Name:** Verify Business Account: Successful |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-03 * Firestore is open in another window. | |
| **Postconditions** | * The “isVerified” field in the business user document in the database is set to “true” which verifies the business account. * The user can sign into the application. | |
| **Test Steps** | 1. Open the verification email of sent to the email address entered in DBS-03. 2. Opens verification link within email. | |
| **Expected Results** | * A success page is shown after verification link is clicked. * User can sign into the application. | |

## 6.4 Staff Signup

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| **Test Case ID:** TC-119 | | **Test Case Name:** Staff Invite Sent |
| **Created By:** Matt Korte | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * Firestore is open in another window. * Signed into account created in DBS-01 and on team management page. | |
| **Postconditions** | A staff account is created with the data entered as described in the test steps below. This information is saved in the database in the “StaffUser” collection. | |
| **Test Steps** | 1. Press the “Invite Staff Member” button. 2. Enter “Dave” in the first name field. 3. Enter “Smith” in the last name field. 4. Enter “etimelycsc4996@gmail.com” in the email field. 5. Select “Cashier” from the role dropdown. 6. Press the “Send” button. | |
| **Expected Results** | * Confirmation message is shown on screen displaying invitation has been sent successfully. * The page is refreshed after closing the confirmation message and Dave Smith is visible on the table, with the account status set to “Pending.” * Invitation email is sent to the invited staff email address. | |

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| --- | --- | --- |
| **Test Case ID:** TC-11 | | **Test Case Name:** Staff Sign Up |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/2/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * Firestore is open in another window. * Follow the steps in TC-117 | |
| **Postconditions** | * The password for the staff account is hashed and saved to the database. * The “Account Status” field in the database is set to “Active” for this staff account. | |
| **Test Steps** | 1. From the invitation email, click “Set your password.” 2. Enter “Pass1234” into the password and confirm password fields. 3. Click the check box next to the “I agree to the Terms and Conditions.” 4. Press “Set Password” button. | |
| **Expected Results** | User is redirected to login page and able to login with the new password. | |

## 6.5 Staff Login

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| **Test Case ID:** TC-12 | | **Test Case Name:** Staff Login |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is on the home page. | |
| **Postconditions** | User is signed into the application successfully. | |
| **Test Steps** | 1. Navigate to the login page by clicking the “Sign In” button. 2. Enter “etimelycsc4996@gmail.com” in the email field. 3. Enter “Pass1234” in the password field. 4. Click “Login” to sign into staff account. | |
| **Expected Results** | The staff user is signed in and redirected to the staff dashboard. | |

## 6.6 Reset Password

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-13 | | **Test Case Name:** Reset Password: Normal Flow |
| **Created By:** Samia Chowdhury | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * User is on the reset password page. | |
| **Postconditions** | The password is hashed and saved into the database for this user. | |
| **Test Steps** | 1. Enter “etimelyTest@gmail.com” in the email field. 2. Click the “Send Reset Link” button. 3. Open the link in the email sent by the system that will redirect to a page to reset the password. Enter “NewPass1234” in both the password and confirm password fields. 4. User clicks “Change Password.” | |
| **Expected Results** | * A success message display saying, “Password changed successfully.” * User is redirected to login screen. * “Password1” is now set as the password for this account. | |

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| --- | --- | --- |
| **Test Case ID:** TC-14 | | **Test Case Name:** Reset Password: Invalid Email |
| **Created By:** Matt Korte | | **Date Created:** 4/3/2022 |
| **Last Updated By:** Caleb Obi | | **Last Revision Date:** 4/5/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * User is on the reset password page. | |
| **Postconditions** | * Password won’t be changed. * Reset password link won’t be sent. | |
| **Test Steps** | 1. Enter “etimelyNULLTest@gmail.com” in the email field. 2. Click the “Send Reset Link” button. | |
| **Expected Results** | * An error message displays saying, “Account does not exist.” * User is prompted to enter an email address associated with a registered account. * Reset password link won’t be sent to the email address. | |

## 6.7 Availability Confirmation

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| --- | --- | --- |
| **Test Case ID:** TC-15 | | **Test Case Name:** Availability Confirmation |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-04 * The user is signed into the account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The “isApproved” field in each of availability instance viewed in the “Availability” collection is set to true. | |
| **Test Steps** | 1. Navigate to business dashboard by clicking the “Dashboard” tab in the sidebar. 2. Click the “View” button next to “Dave Smith.” 3. Once the dialog box opens, verify that the information shown matches what was entered in DBS-04 and is listed in chronological order. 4. Close the dialog box. 5. Refresh page and verify that the staff user’s name and the “View” button are not on the business dashboard any longer. | |
| **Expected Results** | The Updates and Alerts section displays the “Nothing to see here” message. | |

## 6.8 Announcements

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| --- | --- | --- |
| **Test Case ID:** TC-16 | | **Test Case Name:** Announcement Creation |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * Firestore is open in another window. * The user is signed into the account created in DBS-01 | |
| **Postconditions** | The new announcement is saved to the database in the “Announcement” collection. | |
| **Test Steps** | 1. Navigate to the “Create Announcements” page by clicking on the “Announcements” tab and then clicking the “Create Announcements” button in the sidebar. 2. Enter “This is an announcement” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected” details section. 4. Press the “Send” button. | |
| **Expected Results** | * Announcements will be able to be viewed by the business user as well as all associated staff user on the announcement view page. * The page is refreshed, and the form entries are cleared. | |

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| **Test Case ID:** TC-17 | | **Test Case Name:** Announcement Creation: Title too Short |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Matt Korte | | **Last Revision Date:** 4/3/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01 | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Create Announcements” page by clicking on the “Announcements” tab and then clicking the “Create Announcements” button in the sidebar. 2. Enter “Hi” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected.” 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title must at least be at least 5 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-18 | | **Test Case Name:** Announcement Creation: Title too Long |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Create Announcements” page by clicking on the “Announcements” tab and then clicking the “Create Announcements” button in the sidebar. 2. Enter “We are testing to ensure that a title over 50 characters will not work” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected.” 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title can be at most 50 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-19 | | **Test Case Name:** Announcement Creation: Details too Short |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01 | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Create Announcements” page by clicking on the “Announcements” tab and then clicking the “Create Announcements” button in the sidebar. 2. Enter “Test Announcement TC-19” in the title field. 3. Enter “Testing.” 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title must be at least 10 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-20 | | **Test Case Name:** Announcement Creation: Details too Long |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01 | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab on the sidebar. 2. Enter “Announcement” in the title field. 3. Enter “Hello how are you doing today?” into the details box 14 times (including the space on the after the question mark). 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Details can be at most 500 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-21 | | **Test Case Name:** Dashboard Announcement Creation |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The new announcement is saved to the database in the “Announcement” collection. | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab on the sidebar. 2. Enter “This is an announcement” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected.” 4. Press the “Send” button. | |
| **Expected Results** | * The announcement is added to the database. * The announcement should be able to be viewed by the business user as well as all associated staff user on the announcement view page. * The page is refreshed, and the form entries are cleared. | |

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| --- | --- | --- |
| **Test Case ID:** TC-22 | | **Test Case Name:** Dashboard Announcement Creation: Title too Short |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab in the sidebar. 2. Enter “We are testing to ensure that a title over 50 characters will not work” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected.” 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title must at least be at least 5 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-23 | | **Test Case Name:** Dashboard Announcement Creation: Title too Long |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab in the sidebar. 2. Enter “We are testing to ensure that a title over 50 characters will not work” in the title field. 3. Enter “This announcement is being written as a test to ensure that this functionality is working as expected.” 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title can be at most 50 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-24 | | **Test Case Name:** Dashboard Announcement Creation: Details too Short |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab in the sidebar. 2. Enter “We are testing to ensure that a title over 50 characters will not work” in the title field. 3. Enter “Testing”. 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Title must be at least 10 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-25 | | **Test Case Name:** Dashboard Announcement Creation: Details too Long |
| **Created By:** Matt Korte | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab in the sidebar. 2. Enter “Announcement” in the title field. 3. Enter “Hello how are you doing today?” into the details box 14 times (including the space on the after the question mark). 4. Press the “Send” button. | |
| **Expected Results** | * There is an on-screen error message that says, “Details can be at most 500 characters.” * The form is not submitted, and the announcement is not sent to the database. | |

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| --- | --- | --- |
| **Test Case ID:** TC-26 | | **Test Case Name:** Announcement Deletion |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01. * Firestore is open in another window. * Follow the steps in TC-16. | |
| **Postconditions** | The announcement created in TC-16 is removed from the “Announcement” collection in the database. | |
| **Test Steps** | 1. Navigate to the “View Announcements” page by clicking the “Announcements” tab and then clicking the “View Announcements” button in the sidebar. 2. Press the “delete” button next to the announcement made in TC-16. 3. Press the “Yes, delete it!” button in the resulting dialog box. | |
| **Expected Results** | * Confirmation message is shown on screen. * The page is refreshed and the announcement that was deleted is now gone. | |

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| --- | --- | --- |
| **Test Case ID:** TC-27 | | **Test Case Name:** Business Announcement Viewing |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. * Follow the steps in TC-16. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “View Announcements” page by clicking the “Announcements” tab and then clicking the “View Announcements” button in the sidebar. 2. Ensure that the announcement created in TC-16 is visible. This includes the title entered, and details as well as the time it was entered. | |
| **Expected Results** | The announcement created in TC-16 is visible on the page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-28 | | **Test Case Name:** Staff Announcement Viewing |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into account created in DBS-02. * Follow the steps in TC-16. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “View Announcements” page by clicking the “Announcements” tab and then clicking the “View Announcements” button in the sidebar. 2. Ensure that the announcement created in TC-16 is visible. This includes the title entered, and details as well as the time it was entered. | |
| **Expected Results** | The announcement created in TC-16 is visible on the page. | |

## 6.9 Roles

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-29 | | **Test Case Name:** New Role Creation |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The role is added to the “Roles” collection in the database. | |
| **Test Steps** | 1. Navigate to the “Role Management” page by clicking the “Team” tab and then clicking the “Team Roles” button in the sidebar. 2. Enter “Waitress” into the create role text box. 3. Press the “Create” button. | |
| **Expected Results** | Confirmation message is shown on screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-30 | | **Test Case Name:** Duplicate Business Role Creation |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The role is not saved to the database. | |
| **Test Steps** | 1. Navigate to the “Role Management” page by clicking the “Team” tab and then clicking the “Team Roles” button in the sidebar. 2. Perform steps of TC-29. 3. Close confirmation message and enter “Waitress” into the create role text box again. 4. Press the “Create” button. | |
| **Expected Results** | * An error message is shown on screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-31 | | **Test Case Name:** Edit Role: Success |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * Signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The role name has been updated in the “Roles” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Role Management” page by clicking the “Team” tab and then clicking the “Team Roles” button in the sidebar. 2. Press the “edit” button next to the pre-created “Cashier” role. 3. Enter “Pizza Chef” into the resulting text box and press the “Save” button. | |
| **Expected Results** | Confirmation message is shown on screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-32 | | **Test Case Name:** Edit Role: Duplicate |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The role is not updated in the “Roles” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Role Management” page by clicking the “Team” tab and then clicking the “Team Roles” button in the sidebar. 2. Press the “edit” button next to the pre-created “Cashier” role. 3. Enter “Tech Support” into the resulting text box and press the “save” button. | |
| **Expected Results** | An error message is shown on screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-33 | | **Test Case Name:** Delete Role |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The role is removed from the “Roles” collection in the database. | |
| **Test Steps** | 1. Navigate to the “Role Management” page by clicking the “Team” tab and then clicking the “Team Roles” button in the sidebar. 2. Press the “delete” button next to the pre-created “Cashier” role. 3. Press the “Yes, delete role!” in the resulting dialog box. | |
| **Expected Results** | * An error message is shown on screen. * The current page is refreshed, and the “Cashier” role is no longer on screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-34 | | **Test Case Name:** Staff Member Role Change |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | The “roleId” field for the designated role’s document in the “Roles” collection is updated in the database. | |
| **Test Steps** | 1. Navigate to the “Team Management” page by clicking the “Team” tab and then clicking the “Team Management” button in the sidebar. 2. Press the “Edit” button next to the staff member’s name. 3. Select the “Customer Service” button in the resulting dialog box 4. Press the “Save” button. | |
| **Expected Results** | Confirmation message is shown on screen. | |

## 6.10 User Logout

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| --- | --- | --- |
| **Test Case ID:** TC-35 | | **Test Case Name:** Business Logout |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Matt Korte | | **Last Revision Date:** 4/3/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. | |
| **Postconditions** | The user is signed out and cannot access any pages that require signing in. | |
| **Test Steps** | 1. Be on any screen with the app bar. 2. Press the user image icon on the top right. 3. Press “Logout”. 4. Press “Yes, logout” button in the resulting dialog box. | |
| **Expected Results** | User is signed out and taken to the home page | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-36 | | **Test Case Name:** Staff Logout |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00. DBS-01 and DBS-02 * Signed into account created in DBS-02. | |
| **Postconditions** | The user is signed out and cannot access any pages that require signing in. | |
| **Test Steps** | 1. Be on any screen with the app bar. 2. Press the user image icon on the top right. 3. Press “Logout”. 4. Press “Yes, logout” button in the resulting dialog box. | |
| **Expected Results** | User is signed out and taken to the home page | |

## 6.11 Profile Updates

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-37 | | **Test Case Name:** Business Name Update |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into the account created in DBS-01 created. * Firestore is open in another window. | |
| **Postconditions** | The company name is changed in the designated document in the “BusinessUser” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Business Profile” page by clicking on the user image icon in the top right of the window and then clicking “Profile” in the dropdown. 2. Change text in business name field to “White Castle”. 3. Enter the “Test1234” in the password and confirm password fields. 4. Press the “Save” button. | |
| **Expected Results** | * Conformation message should be shown. * Name business name has now changed to “White Castle”. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-38 | | **Test Case Name:** Staff Name Update |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into the account created in DBS-02. * Firestore is open in another window. | |
| **Postconditions** | The staff name is updated in the designated document in the “StaffUser” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Staff Profile” page by clicking on the user image icon in the top right of the window and then clicking “Profile” in the dropdown. 2. Change first name field to “Randy”. 3. Change last name field to “Johnson”. 4. Enter the account password into the password and confirm password fields. 5. Press the “Save” button. | |
| **Expected Results** | * Confirmation message should be shown. * Account info will be updated to the values entered steps 2 and 3. | |

## 6.12 Contact Us

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-39 | | **Test Case Name:** Contact Us: Success |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * The user is on the contact us page. * Firestore is open in another window. | |
| **Postconditions** | * The user’s message is sent to [etimelycsc4996@gmail.com](mailto:etimelycsc4996@gmail.com). * The user’s message is also saved in the “ContactUs” collection of the database. | |
| **Test Steps** | 1. Enter “John Doe” into the name field. 2. Enter “testing@gmail.com” in the email field. 3. Enter “What are the services that you provide?” in the message field. 4. Press the send button. | |
| **Expected Results** | A confirmation message is shown to alert the user their message was sent. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-40 | | **Test Case Name:** Contact Us: Empty Fields |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | The user is on the contact us page. | |
| **Postconditions** | Each field should have an error message below it saying to enter something in that field. | |
| **Test Steps** | 1. Leave each field empty. 2. Press the send button. | |
| **Expected Results** | The form is not submitted, and the message is not sent. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-41 | | **Test Case Name:** Contact Us: Invalid Email Field |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | The user is on the contact us page. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Enter “John Doe” into the name field. 2. Enter “this is not an email” in the email field. 3. Enter “What are the services that you provide?” in the message field. 4. Press the send button. | |
| **Expected Results** | * There is an error message below that email field telling the user to enter a valid email address. * The form is not submitted, and the message is not sent. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-42 | | **Test Case Name:** Contact Us: Message to Short |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | The user is on the contact us page. | |
| **Postconditions** | The user’s message is sent to etimelycsc4996@gmail.com. | |
| **Test Steps** | 1. Enter “John Doe” into the name field. 2. Enter “testing@gmail.com” in the email field. 3. Enter “Hello” in the message field. 4. Press the send button. | |
| **Expected Results** | * There is an error message below that message field telling the user to enter a message with 20 or more characters. * The form is not submitted, and the message is not sent. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-43 | | **Test Case Name:** Contact Us: Message too Long |
| **Created By:** Matt Korte | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | The user is on the contact us page. | |
| **Postconditions** | The user's message is sent to etimelycsc4996@gmail.com. | |
| **Test Steps** | 1. Enter “John Doe” into the name field. 2. Enter “testing@gmail.com” in the email field. 3. Enter “Hello” in the message field 50 times without spaces. 4. Press the send button. | |
| **Expected Results** | * There is an error message below that message field. telling the user to enter a message with 250 or less characters * The form is not submitted, and the message is not sent. | |

## 6.13 Staff Availability Change

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| **Test Case ID:** TC-44 | | **Test Case Name:** Staff Availability Change: Past Date |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Low | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into the staff account created in DBS-02. * Firestore is open in another window. | |
| **Postconditions** | * The availability is not saved to the “Availability” collection in the database. * The availability is not displayed on the page. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the timeslot for March 31, 2022, at 5:00am. 3. Click the “Confirm” button. 4. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Cannot add an availability for a previous time.” * The window refreshes the staff availability page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-45 | | **Test Case Name:** Staff Availability Change: Create a Valid Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into the staff account created in DBS-02. * Firestore is open in another window. | |
| **Postconditions** | The availability is saved to the “Availability” collection in the database. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the timeslot for April 20, 2022, at 7:00am. 3. Change the “End” input to “04/20/2022 12:00 pm.” 4. Click the “Confirm” button. 5. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Availability has been saved” appears for 2 seconds. * The window refreshes the staff availability page. * The entered availability is shown on the calendar on April 22, 2022, with the title “07:00 AM – 12:00 PM.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-46 | | **Test Case Name:** Staff Availability Change: Enter a Duplicate Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * User is signed into account created in DBS-02. * Firestore is open in another window. * Follow the steps of TC-45. | |
| **Postconditions** | * The availability is not saved to the “Availability” collection in the database. * The availability is not displayed on the page. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the timeslot for April 20, 2022, at 7:00am. 3. Change the “End” input to “04/20/2022 12:00 pm.” 4. Click the “Confirm” button. 5. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Duplicate availability.” * The window refreshes the staff availability page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-47 | | **Test Case Name:** Staff Availability Change: Enter an Overlapping Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * User is signed into account created in DSB-02. * Firestore is open in another window. * Perform steps of TC-45. | |
| **Postconditions** | * The availability is not saved to the “Availability” collection in the database. * The availability is not displayed on the page. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the timeslot for April 20, 2022, at 4:00am. 3. Change the “End” input to “04/20/2022 08:00 am.” 4. Click the “Confirm” button. 5. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Availabilities cannot overlap.” * The window refreshes the staff availability page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-48 | | **Test Case Name:** Staff Availability Change: Edit Existing Availability into a Past Date |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Low | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-04 * User is signed into account created in DSB-02. * Firestore is open in another window. | |
| **Postconditions** | * The existing availability is not updated in the “Availability” collection of the database. * There are no changes to the availability on the schedule. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the existing availability for April 28, 2022, from 8:00am to 4:00pm. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “Start” input to “03/30/2022 07:00am.” 5. Change the “End” input to “03/30/2022 12:00pm.” 6. Click the “Confirm” button. 7. Wait 2 seconds for the alert on the center right of the window to disappear. 8. Click the “Cancel” button. | |
| **Expected Results** | An alert saying “Oops... Cannot edit an availability from a previous time.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-49 | | **Test Case Name:** Staff Availability Change: Valid Edit on an Existing Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-02, and DBS-04 * Firestore is open in another window. | |
| **Postconditions** | The availability is updated in the “Availability” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the existing availability for April 28, 2022, from 8:00am to 4:00pm. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “Start” input to “04/28/2022 08:00 am.” 5. Change the “End” input to ”04/28/2022 01:00 pm.” 6. Click the “Confirm” button. 7. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Availability has been saved” appears for 2 seconds. * The window refreshes the staff availability page. * The updated availability on April 28, 2022, will have the title “08:00 AM – 04:00 PM.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-50 | | **Test Case Name:** Staff Availability Change: Overlapping Edit on an Existing Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-04 * The user is signed into account created in DBS-02. * Firestore is open in another window. | |
| **Postconditions** | * The existing availability is not updated in the “Availability” collection of the database. * There are no changes to the availability on the schedule. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the existing availability for April 28, 2022, from 8:00am to 4:00pm. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “End” input to “04/28/2022 06:00 pm.” 5. Click the “Confirm” button. 6. Wait 2 seconds for the alert on the center right of the window to disappear. 7. Click the “Cancel” button. | |
| **Expected Results** | An alert saying “Oops... Availabilities cannot overlap.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-51 | | **Test Case Name:** Staff Availability Change: Edit an Existing Availability to a Duplicate |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-04 * The user is signed into the account created in DBS-02. * Firestore is open in another window. | |
| **Postconditions** | * The existing availability is not updated in the “Availability” collection of the database. * There are no changes to the availability on the schedule. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the existing availability for April 28, 2022, from 8:00am to 4:00pm. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “Start” input to “04/28/2022 05:00 pm.” 5. Change the “End” input to “04/28/2022 10:00 pm.” 6. Click the “Confirm” button. 7. Wait 2 seconds for the alert on the center right of the window to disappear. 8. Click the “Cancel” button. | |
| **Expected Results** | An alert saying “Oops... Duplicate Availability.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-52 | | **Test Case Name:** Staff Availability Change: Delete Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-01, DBS-02 and DBS-04 * Firestore is open in another window. | |
| **Postconditions** | The existing availability is removed from the “Availability” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the existing availability for April 28, 2022, from 8:00am to 4:00pm. 3. Click on the “Delete” icon in the top right of the pop-up window. 4. Click on the “Delete” button to confirm the deletion. 5. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Availability has been deleted” appears for 2 seconds. * The window refreshes the staff availability page. * The existing availability disappears from the schedule. | |

## 6.14 Team Availability

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| --- | --- | --- |
| **Test Case ID:** TC-53 | | **Test Case Name:** Team Availability: Employee with 0 Availabilities |
| **Created By:** Chris Gumieny | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Team Availability” page by clicking the “Team” tab and then clicking the “Team Availability” button on the sidebar. 2. Click the "View” button to the right of the name “Dave Smith.” | |
| **Expected Results** | A popup window is shown that includes the text “No availabilities.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-54 | | **Test Case Name:** Team Availability: Employee with 1 Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-06 * The user is signed into account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Team Availability” page by clicking the “Team” tab and then clicking the “Team Availability” button on the sidebar. 2. Click the “View” button to the right of the name “Dave Smith.” | |
| **Expected Results** | A popup window is shown that includes the text “April 28: 08:00 AM to 4:00 PM.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-55 | | **Test Case Name:** Team Availability: Employee with More than 7 Availabilities |
| **Created By:** Chris Gumieny | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 and DBS-07 * The user is signed into the account created in DBS-01. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Navigate to the “Team Availability” page by clicking the “Team” tab and then clicking the “Team Availability” button on the sidebar. 2. Click the “View” button to the right of the name “Dave Smith.” | |
| **Expected Results** | A popup window with the following text is shown:   * April 20: 07:00 AM to 12:00 PM * April 21: 10:00 AM to 12:00 PM * April 22: 01:00 PM to 07:00 PM * April 23: 02:00 PM to 10:00 PM * April 24: 10:00 AM to 02:00 PM * April 25: 06:30 AM to 09:00 AM | |

## 6.15 Schedule Creation

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-56 | | **Test Case Name:** Schedule Creation: Empty Employee Field |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00 and DBS-01 * The user is signed into account created in DBS-01. | |
| **Postconditions** | The form is not submitted. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the timeslot for April 19, 2022, at 7:00am. 3. Click the “Confirm” button. | |
| **Expected Results** | The employee dropdown is highlighted in red, and the word “Required” is shown under the input. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-57 | | **Test Case Name:** Schedule Creation: Schedule a Shift on a Past Date |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * The user is signed into account created in DBS-01. * Firestore is open in another window. | |
| **Postconditions** | * The shift is not saved to the “Schedules” collection of the database. * The shift is not shown on the schedule. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Cashier” tab on the schedule. 3. Click on the timeslot for April 19, 2022, at 7:00am. 4. Change the “End” input to “04/19/2022 02:00 pm.” 5. In the “Employee” dropdown, select “Dave Smith (Cashier).” 6. Click the “Confirm” button. 7. Click “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Cannot schedule a shift for a previous time.” * The window refreshes the schedule page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-58 | | **Test Case Name:** Schedule Creation: Schedule an Employee that is Available |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-45. * Firestore is open in another window. | |
| **Postconditions** | The shift is added to the “Schedules” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 20, 2022, at 8:00am. 4. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 5. Click the “Confirm” button. 6. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The newly added shift is shown in the “Tech Support” tab on April 20, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-59 | | **Test Case Name:** Schedule Creation: Schedule a Duplicate Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Matt Korte | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-45. * Firestore is open in another window. | |
| **Postconditions** | * The shift is not saved to the “Schedules” collection of the database. * The newly added shift does not show up on the schedule page. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 19, 2022, at 8:00am. 4. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 5. Click the “Confirm” button. 6. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Duplicate shift.” * The window refreshes the schedule page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-60 | | **Test Case Name:** Schedule Creation: Schedule an Overlapping Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01, and DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-58. * Firestore is open in another window. | |
| **Postconditions** | * The shift is not saved to the “Schedules” collection of the database. * The newly added shift does not show up on the schedule page. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 19, 2022, at 6:00am. 4. Change the “End” input to “04/19/2022 08:30 am.” 5. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 6. Click the “Confirm” button. 7. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Oops... Overlapping shift.” * The window refreshes the schedule page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-61 | | **Test Case Name:** Schedule Creation: Schedule an Employee that is Unavailable |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-45. * Firestore is open in another window. | |
| **Postconditions** | The shift is added to the “Schedules” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 20, 2022, at 2:00pm. 4. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 5. Click the “Confirm” button. 6. Click the "Schedule anyway” button. 7. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Are you sure? Dave Smith is only available on April 20 from 07:00 AM to 12:00 PM.” * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The newly added shift is shown in the “Tech Support” tab on April 20, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-62 | | **Test Case Name:** Schedule Creation: Cancel the Schedule for an Employee that is Unavailable |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 * The user is signed into account created in DBS-01. * An employee named “Dave Smith” is in the organization with the role “Tech Support.” * Firestore is open in another window. * Perform steps of TC-45. | |
| **Postconditions** | * The shift is not added to the “Schedules” collection of the database. * The shift does not show up on the schedule page. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 20, 2022, at 4:00am. 4. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 5. Click the “Confirm” button. 6. Click the "Cancel” button. | |
| **Expected Results** | * An alert that says “Are you sure? Dave Smith is only available on April 20 from 07:00 AM to 12:00 PM.” * The window refreshes the schedule page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-63 | | **Test Case Name:** Schedule Creation: Schedule Two Employees for the Same Time |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01, DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-58. * An employee named “Michael Thomas” is in the organization with the role “Tech Support.” * Firestore is open in another window. | |
| **Postconditions** | The shift is added to the “Schedules” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the “Tech Support” tab on the schedule. 3. Click on the timeslot for April 20, 2022, at 8:00am. 4. In the “Employee” dropdown, select “Michael Thomas (Tech Support).” 5. Click the "Schedule anyway” button. 6. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Are you sure? Michael Thomas does not have any availabilities set for this date.” * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The newly added shift is shown in the “Tech Support” tab on April 20, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-64 | | **Test Case Name:** Schedule Creation: Edit Shift to a Past Date |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-58. * Firestore is open in another window. | |
| **Postconditions** | * The shift is not updated in the “Schedules” collection of the database. * There are no changes to the existing shift on the schedule. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the existing shift for April 20, 2022, from 8:00am to 9:00am. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “Start” input to “03/31/2022 08:00 am.” 5. Change the “End” input to “03/31/2022 09:00 am.” 6. Click the “Confirm” button. 7. Wait 2 seconds for the alert on the center right of the window to disappear. 8. Click the “Cancel” button. | |
| **Expected Results** | An alert that says, “Cannot edit a shift that has already happened.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-65 | | **Test Case Name:** Schedule Creation: Overlapping Edit to an Existing Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into account created in DBS-01. * There is a shift scheduled for Dave Smith with the role “Cashier” on April 19, 2022, from 7:00am to 8:00am. * There is another shift scheduled for Dave Smith with the role “Cashier” on April 19, 2022, from 2:00pm to 3:00pm. | |
| **Postconditions** | * The shift is not updated in the “Schedules” collection of the database. * There are no changes to the existing shift on the schedule. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the existing shift for April 19, 2022, from 7:00am to 8:00am. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “End” input to “04/19/2022 02:30 pm.” 5. Click the “Confirm” button. 6. Wait 2 seconds for the alert on the center right of the window to disappear. 7. Click the “Cancel” button. | |
| **Expected Results** | An alert that says “Oops... Overlapping Shift.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-66 | | **Test Case Name:** Schedule Creation: Valid Edit to an Existing Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * Perform steps of TC-58. * The user is signed into account created into account created in DBS-01. | |
| **Postconditions** | The shift is updated in the “Schedules” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the existing shift for April 20, 2022, from 8:00am to 9:00am. 3. Click the “Edit” icon in the top right of the pop-up window. 4. Change the “Start” input to “04/22/2022 11:00 am.” 5. Change the “End” input to “04/22/2022 06:30 pm.” 6. Click the “Confirm” button. 7. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The updated shift is now shown for the new time and date on the schedule. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-67 | | **Test Case Name:** Schedule Creation: Delete Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * DBS-00, DBS-01 and DBS-02 * The user is signed into account created in DBS-01. * Perform steps of TC-58. | |
| **Postconditions** | The shift is removed from the “Schedules” collection of the database. | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking the “Schedule” tab in the sidebar. 2. Click on the existing shift for April 20, 2022, from 8:00am to 9:00am. 3. Click on the “Delete” icon in the top right of the pop-up window. 4. Click on the “Delete” button to confirm the deletion. 5. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Shift has been deleted.” * The window refreshes the schedule page. * The existing shift disappears from the schedule. | |

## 6.16 Staff Schedule Page

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-68 | | **Test Case Name:** Staff Schedule Page: Display Employee Schedule |
| **Created By:** Chris Gumieny | | **Date Created:** 3/31/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Low | |
| **Preconditions** | * DBS-00, DSB-01 and DBS-02 * Perform steps of TC-58. * The user is signed in account created in DBS-02. | |
| **Postconditions** | N/A | |
| **Test Steps** | Navigate to the “Staff Schedule Page” by clicking the “Schedule” tab in the sidebar. | |
| **Expected Results** | A schedule is shown, and on that schedule is a shift with the title “Tech Support” and a subtitle “08:00 AM – 09:00 AM” on April 20, 2022. | |

# 7. Non-functional Test Cases

## 7.1 Performance

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-69 | | **Test Case Name:** Staff API Request Performance – Restful Server Application |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** N/A | | **Last Revision Date:** N/A |
| **Priority** | Medium | |
| **Preconditions** | The backend server is started, and the Postman testing tool is opened. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Select all staff REST API endpoint used in the application. 2. Go to POSTMAN and type the staff API endpoint below:   GET [http://localhost:5001/eTimely/staff/getAllStaffs.](http://localhost:5001/etimely/staff/getAllStaffs.)  POST [http://localhost:5001/eTimely/login.](http://localhost:5001/etimely/login.)  POST [http://localhost:5001/eTimely/staff/register.](http://localhost:5001/etimely/staff/rejist.)  GET [http://localhost:5001/eTimely/staff/verify/:token.](http://localhost:5001/etimely/staff/getAllStaffs.)  PUT [http://localhost:5001/eTimely/staff/updateStaffUser/staffId.](http://localhost:5001/etimely/staff/getAllStaffs.)  GET [http://localhost:5001/eTimely/staff/getStaffUserById/:staffId.](http://localhost:5001/etimely/staff/getAllStaffs.)   1. Change the request type to GET, POST, PUT, DELETE based on type of API request type. 2. Include Test scripts in Tests body.   pm.test("Staff API Response time", **function**() {  pm.expect(pm.response.responseTime).to.be.below(3000);  })   1. Click on “Send” button on postman to send request. | |
| **Expected Results** | * The time it takes for each API call will be shown. * Clicking the “Test Results” will allow the user to view passed test case showing API executes below 3 seconds. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-70 | | **Test Case Name:** Business API Request Performance – Restful Sever Application |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** N/A | | **Last Revision Date:** N/A |
| **Priority** | Medium | |
| **Preconditions** | The backend server is started, and the Postman testing tool is opened. | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Select all business user REST API endpoint used in the application.  2. Go to POSTMAN and type each business API endpoint below:  POST [http://localhost:5001/eTimely/business/register.](http://localhost:5001/etimely/business/register.)  POST [http://localhost:5001/eTimely/login.](http://localhost:5001/etimely/login.)  POST [http://localhost:5001/eTimely/business/filterStaff/:companyId.](http://localhost:5001/etimely/business/filterStaff/:companyId.)  POST [http://localhost:5001/eTimely/business/generateInviteLink.](http://localhost:5001/etimely/business/generateInviteLink.)  POST [http://localhost:5001/eTimely/business/verifyInviteLink/:token.](http://localhost:5001/etimely/business/verifyInviteLink/:token.)  GET [http://localhost:5001/eTimely/business/verify/:token.](http://localhost:5001/etimely/business/verify/:token.)  GET [http://localhost:5001/eTimely/business/staff/:companyName.](http://localhost:5001/etimely/business/staff/:companyName.)  GET [http://localhost:5001/eTimely/business/getstaffByCompanyId/:companyId.](http://localhost:5001/etimely/business/getstaffByCompanyId/:companyId.)  GET [http://localhost:5001/eTimely/business/getBusinessUserById/:businessId.](http://localhost:5001/etimely/business/getBusinessUserById/:businessId.)  PUT [http://localhost:5001/eTimely/updatePasswordPost/:token.](http://localhost:5001/etimely/updatePasswordPost/:token.)  PUT [http://localhost:5001/eTimely/resetPasswordPost.](http://localhost:5001/etimely/resetPasswordPost.)  PUT [http://localhost:5001/eTimely/business/updateStaff/:staffId.](http://localhost:5001/etimely/business/updateStaff/:staffId.)  PUT [http://localhost:5001/eTimely/business/updateBusinessUser/:businessId.](http://localhost:5001/etimely/business/updateBusinessUser/:businessId.)  DELETE [http://localhost:5001/eTimely/business/terminate/:staffId.](http://localhost:5001/etimely/business/terminate/:staffId.)  3. Change the request type to GET, POST, PUT, DELETE based on type of API request type.  4. Include Test scripts in Tests body.  pm.test("Business API Response time", **function**() {  pm.expect(pm.response.responseTime).to.be.below(3000);  })  5. Click on “Send” button on postman to send request. | |
| **Expected Results** | * The time it takes for each API call will be shown. * Clicking the “Test Results” will allow the user to view passed test case showing API executes below 3 seconds. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-71 | | **Test Case Name:** Concurrent API Performance Test- Restful Server Application |
| **Created By:** Caleb Obi | | **Date Created:** 4/4/2022 |
| **Last Updated By:** N/A | | **Last Revision Date:** N/A |
| **Priority** | Low | |
| **Preconditions** | N/A | |
| **Postconditions** | N/A | |
| **Test Steps** | 1. Visit <https://portal.azure.com/> 2. Enter “etimelyTest@gmail.com” in the email field. 3. Enter “Pass1234” into the password field. 4. Click on “Log In” to sign into Azure Load Testing. 5. Click on “Create a resource”. 6. Enter “eTimelyLoadTest” into the name field. 7. Enter “100” into the user load amount field. 8. Enter “5” into duration field. 9. Click “Review + Create” button. 10. Wait 5 minutes for the test to complete. | |
| **Expected Results** | The test result will display “Test was successful”. | |

## 7.2 Reliability

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-72 | | **Test Case Name:** Database Server Error Handling |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/5/2022 |
| **Priority** | High | |
| **Preconditions** | * The backend server is started. * API request called. | |
| **Postconditions** | An error message is shown to the user. | |
| **Test Steps** | When an API request fails, send a valid message back to the user describing what the error is. | |
| **Expected Results** | Database returns all failed error messages back to the user. | |

## 7.3 Security

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-73 | | **Test Case Name:** Business Account Password Encryption |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/5/2022 |
| **Priority** | High | |
| **Preconditions** | N/A | |
| **Postconditions** | The hashed password will be shown in the firebase console. | |
| **Test Steps** | 1. Enter “eTimelyTest” in the “Company Name” field. 2. Enter [etimelyTest@gmail.com](mailto:etimelyTest@gmail.com) into the “Email” field. 3. Enter “Pass1234” into the “Password” and “Confirm Password” fields. | |
| **Expected Results** | The hashed password will be shown in the firebase console. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-74 | | **Test Case Name:** Staff Account Password Encryption |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/5/2022 |
| **Priority** | High | |
| **Preconditions** | N/A | |
| **Postconditions** | The hashed password will be shown in the firebase console. | |
| **Test Steps** | 1. Load the “Staff account creation” page. 2. Enter “Test1234” into the “Password” and “Confirm Password” fields. | |
| **Expected Results** | The hashed password will be shown in the firebase console. | |

## 7.4 Portability

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-75 | | **Test Case Name:** Website Responsiveness |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/3/2022 |
| **Priority** | High | |
| **Preconditions** | The website is loaded. | |
| **Postconditions** | Website renders according to screen resolution. | |
| **Test Steps** | 1. View the website on a desktop. 2. View the website on a smartphone. 3. View the website on a tablet. | |
| **Expected Results** | The website will be able to be viewed from any device with proper styling. | |

# 8. Integration Test Cases

## 8.1 Nodemailer Email Service

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-76 | | **Test Case Name:** Nodemailer – Sending Email |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/5/2022 |
| **Priority** | High | |
| **Preconditions** | The backend server is started. | |
| **Postconditions** | No data should be affected by this test. | |
| **Test Steps** | 1. Create a mock nodemailer transporter information where emails will be sent to.  2. Use the “etimelyTest@gmail.com” for the transporter email user.  3. Use the “Pass1234” for the transporter password.  4. Create Test scripts to check if email is sent successfully using nodemailer.  describe("Test nodemailer", () => {  it("should send an email successfully", **async** () => {  **const** transporter = nodeMailer.createTransport({  service: "gmail",  auth: {  user: "etimelyTest@gmail.com",  pass: "Pass1234",  },  });  **const** mailOptions = {  **from**: "etimelyTest@gmail.com",  to: "etimelymail@gmail.com",  subject: "Email test",  html: `<h1>Testing Nodemailer integration</h1>`,};  transporter.sendMail(mailOptions, **function** (error, info) {  **if** (error) {  console.log(error);  } **else** {  // send success message to the client  console.log("Email sent: " + info.response);  }});  });  }); | |
| **Expected Results** | 1. Test case passing.  2. An email will be received at the etimelymail@gmail.com email address to confirm the email has been sent successfully. | |

8.2 JSON Web Token

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-77 | | **Test Case Name:** Generating JWT Access Token for Authentication - Successful |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/5/2022 |
| **Priority** | Low | |
| **Preconditions** | The website is loaded. | |
| **Postconditions** | Generated web tokens can be seen in local storage. | |
| **Test Steps** | 1. Select all staff REST API endpoint used in the application 2. Navigate to the home page. 3. Click on “Sign In” on the home page. 4. Enter “etimelyTest@gmail.com” in the email address field. 5. Enter “Pass1234” in the password field. 6. Check local storage for generated access. | |
| **Expected Results** | * Json web tokens (JWT) will generate a one-time access token. * The access token will be stored in the user’s local storage. * The access token will be checked for permissions to access pages in the application. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-78 | | **Test Case Name:** Reset Password Expired Access Link - Successful |
| **Created By:** Caleb Obi | | **Date Created:** 4/1/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Low | |
| **Preconditions** | The website is loaded. | |
| **Postconditions** | An error message is shown that says the reset link has expired. | |
| **Test Steps** | 1. Open the “Sign In” page in the eTimely application. 2. Click on the “reset password” link in sign in page. 3. Load the “reset password” page. 4. Enter “etimelyTest@gmail.com” in the email address field. 5. Click “Send Reset Link”. 6. Check the email address for the reset password link. 7. Invite links expire in 1 hour. 8. Attempt to reset password after 1 hour. | |
| **Expected Results** | * An error message when they click on a reset link that has expired. * There is not an ability to reset a password with an expired link. | |

# 9. System Test Cases

## 9.1 Default User

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-79 | | **Test Case Name:** Default User: About Us |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** N/A | | **Last Revision Date:** N/A |
| **Priority** | Medium | |
| **Preconditions** | The user is not signed into an account and is on the home page. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Click on the “About Us” link in the navigation bar. | |
| **Expected Results** | The “About Us" page is opened. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-80 | | **Test Case Name:** Default User: Terms and Conditions |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | The user is not signed into an account and is on the home page. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Scroll down to the bottom of the page and click the “Terms and Conditions” link in the footer. | |
| **Expected Results** | The “Terms and Conditions” page is opened. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-81 | | **Test Case Name:** Default User: Contact Us |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * The user is not signed in. * Follow the steps in TC-80. * Firestore is open in another window. | |
| **Postconditions** | * The user’s message is sent to etimelycsc4996@gmail.com. * The message is saved in the “ContactUs” collection of the database. | |
| **Parameters** | * **Name:** John Doe * **Email:** etimelyTest@gmail.com * **Message:** Can I access this website on my phone? | |
| **Test Steps** | 1. Click on the “Contact Us” link in the navigation bar. 2. Enter **[Name]** in the name field. 3. Enter **[Email]** in the email address field. 4. Enter **[Message]** into the message field. 5. Click the “Send” button. 6. Click the “OK” button on the alert. | |
| **Expected Results** | An alert that says, “Your message has been sent.” | |

## 9.2 Business User First Login

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-82 | | **Test Case Name:** Business User: Registration |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * The user is not signed in and is on the home page. * Firestore is open in another window. | |
| **Postconditions** | * A new account is created with the new information. This new information is added to the “BusinessUser” collection of the database. * Five default roles are added and linked to the business account in the “Roles” collection of the database. * A verification email is sent to the designated email. | |
| **Parameters** | * **Company Name:** Target * **Email:** etimelyTest@gmail.com * **Password:** Testing1234 | |
| **Test Steps** | 1. Click the “Sign Up” button on the home page. 2. Enter **[Company Name]** in the “Company Name” field. 3. Enter **[Email]** in the “Email” field. 4. Enter **[Password]** in the “Password” and “Confirm Password” fields. 5. Check the “I agree to the terms and conditions” box. 6. Click the “Create Account” button. 7. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Activation link has been sent to your email. Please check your email to activate your account.” * The user is then sent to the login page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-83 | | **Test Case Name:** Business User: Verification |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-82. * Firestore is open in another window. | |
| **Postconditions** | * The isVerified field in the designated document for the business user account is updated to true in the “BusinessUser” collection of the database. * The account can now be logged into. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Open the email that was sent after completing TC-82. 2. Click the “Verify your account” button. | |
| **Expected Results** | A page is open with a message saying that the account is now verified. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-84 | | **Test Case Name:** Business User: Reset Password |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * The user is on the login page. | |
| **Postconditions** | The account’s password is updated and hashed in the “BusinessUser” collection of the database. | |
| **Parameters** | * **Email:** etimelyTest@gmail.com * **New Password:** Testing12345 | |
| **Test Steps** | 1. Click the “Forgot Password? Reset” button. 2. Enter **[Email]** into the email field. 3. Click the “Send Reset Link” button. 4. Navigate to the “Reset password” email that was sent to **[Email]**. 5. Click the “Reset Password” button in the email. 6. Enter **[Password]** in the “Password” and “Confirm Password” fields. 7. Click the “Change Password” button. 8. Click the “OK” button on the alert. | |
| **Expected Results** | * An email sent with a “Reset Password” button. * An alert that says, “Password changed successfully, please login with new password.” * The user is redirected to the login page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-85 | | **Test Case Name:** Business User: Login |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** N/A | | **Last Revision Date:** N/A |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-82 and TC-84. * The user is on the login page. | |
| **Postconditions** | N/A | |
| **Parameters** | * **Email:** etimelyTest@gmail.com * **Password:** Testing12345 | |
| **Test Steps** | 1. Enter **[Email]** into the “Email” field. 2. Enter **[Password]** into the “Password” field. 3. Click the “Login” button. | |
| **Expected Results** | The user is signed into a business account and is redirected to the business dashboard. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-86 | | **Test Case Name:** Business User: Dashboard Announcement |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. * The user is on the business dashboard. | |
| **Postconditions** | The new announcement is saved to the “Announcement” collection of the database. | |
| **Parameters** | * **Title:** News for Friday * **Details:** We will have a day off on Friday. | |
| **Test Steps** | 1. Enter **[Title]** in the title field. 2. Enter **[Details]** in the details field. 3. Click the “Send” button. 4. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Success, Announcement created successfully.” * The page is reloaded, and the announcement form is made empty. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-87 | | **Test Case Name:** Business User: Create Role |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. | |
| **Postconditions** | The role is saved to the “Roles” collection of the database. | |
| **Parameters** | **Name:** Waiter | |
| **Test Steps** | 1. Navigate to the “Team Roles" page by clicking the “Team” tab and then the “Team Roles” button in the sidebar. 2. In the “Create Role” field, enter **[Name]**. 3. Click the “Create” button. 4. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says “Success, added successfully.” * The page is reloaded, the role is added to the page, and the role input is made empty. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-88 | | **Test Case Name:** Business User: Edit Role |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. * The user is on the “Team Roles” page. | |
| **Postconditions** | The edited role is updated in the “Roles” collection of the database. | |
| **Parameters** | **Name:** Engineer | |
| **Test Steps** | 1. Next to the role name “Tech Support”, click the “Edit” button. 2. In the “Role” field, change the input to **[Name]**. 3. Click the “Save” button. | |
| **Expected Results** | * An alert that says “Success, Role updated successfully.” * The page is reloaded, and the role is updated in the table. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-89 | | **Test Case Name:** Business User: Delete Role |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-87. * Firestore is open in another window. * The user is on the “Team Roles” page. | |
| **Postconditions** | The deleted role is removed from the “Roles” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Next to the role name “Cashier”, click the “Delete” button. 2. Click the “Yes, delete role!” button. | |
| **Expected Results** | * An alert that says “Are you sure? You won’t be able to revert this.” * The page is reloaded, and the deleted role is removed from the table. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-90 | | **Test Case Name:** Business User: Invite Staff Member |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. | |
| **Postconditions** | * The entered information is added to the “StaffUser” collection of the database with the “accountStatus” field set to “Inactive”. * An invitation email is sent to the submitted email. | |
| **Parameters** | * **First Name:** Dave * **Last Name:** Smith * **Email:** etimelyStaff@gmail.com * **Role:** Manager | |
| **Test Steps** | 1. Navigate to the “Team Management” page by clicking the “Team” tab and then clicking the “Team Management” button in the sidebar. 2. Click the “Invite Staff Member” button. 3. Enter **[First Name]** in the “First Name” field. 4. Enter **[Last Name]** in the “Last Name” field. 5. Enter **[Email]** in the “Email” field. 6. Select **[Role]** in the “Role” dropdown. 7. Click the “Invite” button. 8. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says, “Success, Invitation was sent successfully.” * The invited user appears on the team table. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-91 | | **Test Case Name:** Business User: Assign Role |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-90. * Firestore is open in another window. * The user is on the “Team Management” page. | |
| **Postconditions** | * The new role is assigned to the selected employee in the “StaffUser” collection of the database. * This change is displayed on the team management page. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. On the team management page, next to “Dave Smith”, click the “Edit” button. 2. In the “Role” dropdown, select “Cashier.” 3. Click the “Save” button. 4. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says, “Success, Staff updated successfully.” * The page reloads, and the newly assigned role shows up on the page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-92 | | **Test Case Name:** Business User: Team Search |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-90. * The user is on the “Team Management” page. | |
| **Postconditions** | N/A | |
| **Parameters** | * Search One: Smith * Search Two: xyz | |
| **Test Steps** | 1. In the “Search” bar, enter **[Search One]**. 2. Then, delete the input and enter **[Search Two]**. | |
| **Expected Results** | * After Search One, the employee that matches the search will show up on the table. * After Search Two, no employees will be shown on the table. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-93 | | **Test Case Name:** Business User: Filter By Role |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-90. * The user is on the “Team Management” page. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | 1. On the top of the page, click the “Filter by Role” dropdown. 2. In the dropdown, select “Cashier.” | |
| **Expected Results** | The team management table will show the employees in the organization that match the role “Cashier.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-94 | | **Test Case Name:** Business User: Schedule Unavailable Employee |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85 and TC-90. * Firestore is open in another window. | |
| **Postconditions** | The shift is added to the “Schedules” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. On the sidebar, click the “Schedule” tab. 2. Click the “Schedule” tab in the sidebar. 3. Click on the “Cashier” tab in the schedule page. 4. Click on the timeslot for April 20, 2022, at 2:00pm. 5. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 6. Click the “Confirm” button. 7. Click the “Schedule anyway” button. 8. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Are you sure? Dave Smith is only available on April 20 from 07:00 AM to 12:00 PM.” * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The newly added shift is shown in the “Tech Support” tab on April 20, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-95 | | **Test Case Name:** Business User: Edit Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-94. * Firestore is open in another window. * The user is on the “Schedule” page. | |
| **Postconditions** | The edited shift is updated in the “Schedules” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the existing shift for April 20, from 2:00pm to 3:00pm. 2. Click the “Edit” icon in the top right of the pop-up window. 3. Change the “Start” input to “04/22/2022 2:00pm.” 4. Change the “End” input to “04/22/2022 4:00pm.” 5. Click the “Confirm” button. 6. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success, Shift has been saved.” * The window refreshes the schedule page. * The updated shift is now shown for the new time and date on the schedule. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-96 | | **Test Case Name:** Business User: Create an Announcement |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. | |
| **Postconditions** | The created announcement is saved to the “Announcement” collection of the database. | |
| **Parameters** | * **Title:** Tomorrow * **Details:** We start at 10:00am tomorrow. | |
| **Test Steps** | 1. Navigate to the “Create Announcements” page by clicking the “Announcements” tab and then clicking the “Create Announcements” button in the sidebar. 2. Enter **[Title]** in the “Title” field. 3. Enter **[Details]** in the “Details” field. 4. Click the “Send” button. | |
| **Expected Results** | * An alert that says “Success, Announcement created successfully.” * The window refreshes the page, and the fields are made empty. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-97 | | **Test Case Name:** Business User: View Announcements |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-85 and TC-96. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Navigate to the “View Announcements” page by clicking the “Announcements” tab and then clicking the “View Announcements” button in the sidebar. | |
| **Expected Results** | A page that shows all created announcements in the organization with a “Delete” button for each announcement. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-98 | | **Test Case Name:** Business User: Update Profile |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85. * Firestore is open in another window. | |
| **Postconditions** | The business account is updated in the “BusinessUser” collection of the database with the new information. | |
| **Parameters** | * **Company Name:** Walmart * **Password:** Testing123 | |
| **Test Steps** | 1. Navigate to the “Business Profile” page by clicking on the user image icon in the top right of the window and then clicking “Profile” in the dropdown. 2. Change the “Company Name” field to **[Company Name]**. 3. Enter **[Password]** in the “Password” and “Confirm Password” fields. 4. Click the “Save” button. 5. Click “OK” on the alert. | |
| **Expected Results** | * An alert that says “Success, Profile updated successfully.” * The profile information is updated on the screen. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-99 | | **Test Case Name:** Business User: Logout |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-85. | |
| **Postconditions** | The user is logged out of the account and will not be able to access any pages that require the user to be logged in. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the user image icon in the top right of the window and then click “Logout” 2. Click the “Yes, logout!” button. | |
| **Expected Results** | The user is signed out and is taken to the home page. | |

## 9.3 Staff User

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-100 | | **Test Case Name:** Staff User: Sign Up |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-90. * Firestore is open in another window. | |
| **Postconditions** | The staff account is now identified as “Active” in the “StaffUser” collection of the database, and the user will now be able to log in normally. | |
| **Parameters** | **Password:** Test1234 | |
| **Test Steps** | 1. In the invitation email sent to etimelyStaff@gmail.com, click the “Set your password” button. 2. Enter **[Password]** into the “Password” and “Confirm Password” fields. 3. Click the “I agree to the Terms and Conditions” check box. 4. Click the “Set my password” button. | |
| **Expected Results** | The user is taken to the login page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-101 | | **Test Case Name:** Staff User: Login |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-100. * The user is on the login page. | |
| **Postconditions** | The user is signed in. | |
| **Parameters** | * **Email:** etimelyStaff@gmail.com * **Password:** Test1234. | |
| **Test Steps** | 1. Enter [Email] into the “Email” field. 2. Enter [Password] into the “Password” field. 3. Click the “Login” button. | |
| **Expected Results** | The user is signed in and taken to the staff dashboard. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-102 | | **Test Case Name:** Staff User: Dashboard Information |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-94, TC-95, TC-96 and TC-101. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Navigate to the staff dashboard page by clicking the “Dashboard” tab in the sidebar. | |
| **Expected Results** | * In the “Next Shift” box, text that says, “Your next shift is at Apr 20th 8:00 AM to 9:00 AM.” * In the “Upcoming Workdays” box, text that says, “Apr 22nd.” * In the “Latest Announcement” box, text that shows the time, date and details of the latest announcement. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-103 | | **Test Case Name:** Staff User: View Schedule |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps to TC-94, TC-95 and TC-101. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Navigate to the “Staff Schedule” page by clicking on the “Schedule” tab in the sidebar. | |
| **Expected Results** | A schedule is shown, and on that schedule is a shift with the title “Tech Support” and a subtitle “02:00 PM – 04:00PM” on April 22, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-104 | | **Test Case Name:** Staff User: Add Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-101. * Firestore is open in another window. | |
| **Postconditions** | The availability is added to the “Availability” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the “Availability” page by clicking the “Availability” tab in the sidebar. 2. Click on the timeslot for April 20, at 7:00am. 3. Change the “End” field to “04/20/2022 12:00pm.” 4. Click the “Confirm” button. 5. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert saying “Success, Availability has been saved” appears for 2 seconds. * The window refreshes the staff availability page. * The entered availability is shown on the calendar on April 20, 2022, with the title “07:00 AM – 12:00 PM.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-105 | | **Test Case Name:** Staff User: Edit Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-101 and TC-104. * Firestore is open in another window. * The user is on the “Availability” page. | |
| **Postconditions** | The availability is updated in the “Availability” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the existing availability for April 20, 2022, from 7:00am to 12:00pm. 2. Click the “Edit” icon in the top right of the pop-up window. 3. Change the “End” field to “04/20/2022 1:00pm.” 4. Click the “Confirm” button. 5. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert saying “Success, Availability has been saved” appears for 2 seconds. * The window refreshes the staff availability page. * The updated availability on April 20, 2022, will have the title “07:00 AM – 01:00 PM.” | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-106 | | **Test Case Name:** Staff User: Delete Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-101 and TC-104. * Firestore is open in another window. * The user is on the “Availability” page. | |
| **Postconditions** | The deleted availability is removed from the “Availability” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the existing availability for April 20, 2022. 2. Click on the “Delete” icon in the top right of the pop-up window. 3. Click on the “Delete” button to confirm the deletion. 4. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert saying “Success, Availability has been deleted” appears for 2 seconds. * The window refreshes the staff availability page. * The deleted availability disappears from the schedule. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-107 | | **Test Case Name:** Staff User: View Announcements |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps of TC-96 and TC-101. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | Navigate to the “View Announcements” page by clicking on the “Announcements” tab and then clicking the “View Announcements” button in the sidebar. | |
| **Expected Results** | A page that shows all the existing announcements for the organization. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-108 | | **Test Case Name:** Staff User: Update Profile |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps to TC-101. * Firestore is open in another window. | |
| **Postconditions** | The staff account is updated in the “StaffUser” collection of the database with the new information. | |
| **Parameters** | * **First Name:** David * **Last Name:** Smiths * **Password:** Testing123 | |
| **Test Steps** | 1. Navigate to the “Staff Profile” page by clicking on the user image icon in the top right of the window and then clicking “Profile” in the dropdown. 2. Change the “First Name” field to **[First Name]**. 3. Change the “Last Name” field to **[Last Name]**. 4. Enter **[Password]** in the “Password” and “Confirm Password” fields. 5. Click the “Save” button. | |
| **Expected Results** | * An alert that says “Success, Profile updated successfully.” * The profile information is updated on the screen. | |

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| --- | --- | --- |
| **Test Case ID:** TC-109 | | **Test Case Name:** Staff User: Logout |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-101. | |
| **Postconditions** | The user is logged out of the account and will not be able to access any pages that require the user to be logged in. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the user image icon in the top right of the window and then click “Logout” 2. Click the “Yes, logout!” button. | |
| **Expected Results** | The user is signed out and is taken to the home page. | |

## 9.4 Business User Second Login

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| --- | --- | --- |
| **Test Case ID:** TC-85 | | **Test Case Name:** Business User: Login |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-82 and TC-84. * The user is on the login page. | |
| **Postconditions** | N/A | |
| **Parameters** | * **Email:** etimelyTest@gmail.com * **Password:** Testing12345 | |
| **Test Steps** | 1. Enter **[Email]** into the “Email” field. 2. Enter **[Password]** into the “Password” field. 3. Click the “Login” button. | |
| **Expected Results** | The user is signed into a business account and is redirected to the business dashboard. | |

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| --- | --- | --- |
| **Test Case ID:** TC-110 | | **Test Case Name:** Business User: View New Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85, TC-90 and TC-104. * Firestore is open in another window. | |
| **Postconditions** | The “isApproved” field is set to “true” for the designated Availability document in the “Availability” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the business dashboard by clicking the “Dashboard” tab in the sidebar. 2. In the “Updates and Alerts” box, next to “Dave Smith”, click the “View” button. 3. Click the “OK” button. | |
| **Expected Results** | * A pop-up window with the new availability for that employee. * The next time the page is visited, that availability will no longer be in the “Updates and Alerts” box. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-111 | | **Test Case Name:** Business User: View Team Availability |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-85, TC-90 and TC-104. | |
| **Postconditions** | N/A | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the “Team Availability” page by clicking the “Team” tab and then clicking the “Team Availability” button in the sidebar. 2. Next to “Dave Smith”, click the “View” button. 3. Click the “Cancel” button. | |
| **Expected Results** | A pop-up window with the availability for the selected employee. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-112 | | **Test Case Name:** Business User: Schedule Available Employee |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | * Follow the steps in TC-85, TC-90 and TC-104. * Firestore is open in a new window. | |
| **Postconditions** | The new shift is saved in the “Schedules” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the “Schedule” page by clicking on the “Schedule” tab in the sidebar. 2. Click on the “Cashier” tab in the schedule page. 3. Click on the timeslot for April 20, 2022, at 8:00am. 4. In the “Employee” dropdown, select “Dave Smith (Tech Support).” 5. Click the “Confirm” button. 6. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success! Shift has been saved.” * The window refreshes the schedule page. * The newly added shift is shown in the “Tech Support” tab on April 20, 2022. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-113 | | **Test Case Name:** Business User: Delete Shift |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-112. * The user is on the “Schedule” page. * Firestore is open in another window. | |
| **Postconditions** | The deleted shift is removed from the “Schedules” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the existing shift for April 20, 2022, at 8:00am. 2. Click on the “Delete” icon in the top right of the pop-up window. 3. Click the “Delete” button to confirm the deletion. 4. Wait 2 seconds for the “Success” message to disappear. | |
| **Expected Results** | * An alert that says “Success, Shift has been deleted.” * The window refreshes the schedule page. * The existing shift disappears from the schedule. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-114 | | **Test Case Name:** Business User: Delete Announcement |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Medium | |
| **Preconditions** | * Follow the steps in TC-85 and TC-96. * Firestore is open in another window. | |
| **Postconditions** | The deleted announcement is removed from the “Announcement” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the “View Announcements” page by clicking on the “Announcements” tab and then clicking on the “View Announcements” button in the sidebar. 2. On the existing announcement that was created in TC-96, click the “Delete” button. 3. Click the “Yes, delete it!” button. | |
| **Expected Results** | * An alert that says “Are you sure? You won’t be able to revert this!” * The page is refreshed, and the deleted announcement disappears from the page. | |

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| --- | --- | --- |
| **Test Case ID:** TC-115 | | **Test Case Name:** Business User: Terminate Staff |
| **Created By:** Chris Gumieny | | **Date Created:** 4/4/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | Low | |
| **Preconditions** | * Follow the steps in TC-85, TC-90 and TC-109. * Firestore is open in another window. | |
| **Postconditions** | The deleted staff user is removed from the “StaffUser” collection of the database. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Navigate to the “Team Management” page by clicking on the “Team” tab and then clicking on the “Team Management” button in the sidebar. 2. On the team management page, next to “Dave Smith,” click the “Delete" button. 3. Click “Yes, terminate staff!” 4. Click the “OK” button on the alert. | |
| **Expected Results** | * An alert that says, “Are you sure? You will not be able to revert this!” * An alert that says “Deleted! Staff has been deleted.” * The deleted staff member will no longer show up on the page. | |

|  |  |  |
| --- | --- | --- |
| **Test Case ID:** TC-99 | | **Test Case Name:** Business User: Logout |
| **Created By:** Chris Gumieny | | **Date Created:** 4/5/2022 |
| **Last Updated By:** Chris Gumieny | | **Last Revision Date:** 4/15/2022 |
| **Priority** | High | |
| **Preconditions** | Follow the steps in TC-85. | |
| **Postconditions** | The user is logged out of the account and will not be able to access any pages that require the user to be logged in. | |
| **Parameters** | N/A | |
| **Test Steps** | 1. Click on the icon in the top right of the window and then click “Logout” 2. Click the “Yes, logout” button. | |
| **Expected Results** | The user is signed out and is taken to the home page. | |

# Appendix

## A.1 Database Setup

The following objects listed are steps to be completed before a test case is run. As of right now they are listed as steps to take within the application to do before a specific test case, except for DBS-00 which requires deleting all database information directly within Firebase. However, scripts may be written to automatically do each task as well.

|  |  |
| --- | --- |
| **Database Setup ID** | **Description** |
| DBS-00 | Empty entire database from Firebase. |
| DBS-01 | Create and verify a business account with email “etimelyTest@gmail.com” and password “Pass1234”, and name “eTimelyTest”  Creating this account should also create 5 different role types, with names “Cashier”, “Tech Support”, “Manager”, “Sales Associate” and “Customer Service” |
| DBS-02 | Invite a staff user using first name “Dave”, last name “Smith”, email “eimelycsc4996@gmail.com”, and role “Cashier”  Open the link set to the email address and set password as “Test1234” |
| DBS-03 | Follow the steps of DBS-01, but do not open the link in the verification email. |
| DBS-04 | Sign into the account created in DBS-02 and create the following availabilities in the given order  May 22nd from 12:30pm to 8:00pm  April 28th from 8:00am to 4:00pm  April 28th from 5:00pm to 10:00pm |
| DBS-05 | Follow steps of DBS-02, but do not complete step 3 |
| DBS-06 | Sign into the account created in DBS-02 and create the following availability:  April 28th from 8:00am to 4:00pm |
| DBS-07 | Sign into the account created in DBS-02 and create the following availabilities in the given order:   * April 19, 2022, 8:00am-5:30pm * April 20, 2022, 7:00am-12:00pm * April 21, 2022, 10:00am-12:00pm * April 22, 2022, 1:00pm-7:00pm * April 23, 2022, 2:00pm-10:00pm * April 24, 2022, 10:00am-2:00pm * April 25, 2022, 6:30am-9:00am |

## A.2 Testing Schedule

### A.2.1 Functional Testing Schedule

|  |  |  |
| --- | --- | --- |
| **Tester** | **Items to Test** | **Tentative Testing Period** |
| Matt Korte | TC-1 to TC-15  TC-116 to 119 | 4/10/2022 to 4/14/2022 |
| Chris Gumieny | TC-16 to TC-36 |
| Caleb Obi | TC-37 to TC-53 |
| Samia Chowdhury | TC-54 to TC-68 |

### A.2.2 Non-functional Testing Schedule

|  |  |  |
| --- | --- | --- |
| **Tester** | **Items to Test** | **Tentative Testing Period** |
| Matt Korte | TC-69 and TC-70 | 4/14/2022 to 4/15/2022 |
| Caleb Obi | TC-71 and TC-72 |
| Chris Gumieny | TC-73 and TC-74 |
| Samia Chowdhury | TC-75 |

### A.2.3 Integration Testing Schedule

|  |  |  |
| --- | --- | --- |
| **Tester** | **Items to Test** | **Tentative Testing Period** |
| Matt Korte | TC-76 | 4/14/2022 to 4/15/2022 |
| Caleb Obi | TC-77 |
| Chris Gumieny | TC-78 |

### A.2.4 System Testing Schedule

|  |  |  |
| --- | --- | --- |
| **Tester** | **Items to Test** | **Tentative Testing Period** |
| Matt Korte | TC-79 to TC-115 | 4/15/2022 to 4/18/2022 |