PM 4.2
Black Box Test Plan

Because we are not actually implementing our project, the Actual Results column will be left blank.

Test ID	Description	Expected Results	Actual Results
Test Name: User Registration Process **Test Author:** Rushi **Test Type:** Functional	**Preconditions:** - User has been onboarded with their company. **Steps:** 1. Navigate to CodeCollab sign up page. 2. Fill out CodeCollab registration form (personal information, skill keywords, and meeting availability). 3. Submit registration form. 4. Verify that the user is redirected to the login page. **Test Inputs:** - Valid user registration form.	In the database, the user schema should be created with the correct personal information, correct keywords for their skills, and correct meeting time availability.	

Test ID	Description	Expected Results	Actual Results
Test Name: Expert Matching Algorithm **Test Author:** Rushi **Test Type:** System Integration	**Preconditions:** - User has registered with CodeCollab. **Steps:** 1. Fill out a request form. 2. Include a description about the technical issue. 3. Submit the request form. **Test Inputs:** - Valid request form.	The user should be redirected to a page showing experts with matching skills and meeting availability time.	

Test ID	Description	Expected Results	Actual Results
Test Name: Automatic Meeting Scheduling **Test Author:** Rushi **Test Type:** Acceptance	**Preconditions:** - User submitted a valid request form. **Steps:** 1. User is displayed a list of experts. 2. User selects an expert from the list. 3. User finalizes the meeting. **Test Inputs:** - Meeting time that is selected.	Once the meeting is finalized, a meeting should automatically be scheduled for the selected time. This meeting should show up on whatever calendar system the company uses.	

Test ID	Description	Expected Results	Actual Results
Test Name: User Removal in Database **Test Author:** Max Lane **Test Type:** Integration Testing	**Preconditions:** - User information exists in CodeCollab database - User Registration must be functioning properly **Steps:** 1. Register User 2. Remove User 3. Confirm User info no longer exists in database **Test Inputs:** - User requests removal	When a User is removed, requesting that Users information from the database should return null values.	

Test ID	Description	Expected Results	Actual Results

| Test Name: Test User Removal on Frontend

Test Author: Max Lane

Test Type: Integration Testing | **Preconditions:**
- User is registered in CodeCollab database
- Frontend for User functions properly

Steps:
1. Remove User from CodeCollab Database
2. Confirm User's login credentials do not allow access to an account

Test Inputs:
- CodeCollab User | After the User has been removed by the company, the User should not be able to log in to their CodeCollab account because it should not exist. | |

Test ID	Description	Expected Results	Actual Results
Test Name: Test in app calendar time availability scheduling **Test Author:** Patrick Walsh **Test Type:** Functional	**Preconditions:** - User is registered in Code Collab - User has navigated to the calendar page and is wants to mark currently available time as unavailable **Steps:** 1. Select date intended to be unavailable 2. Select range of time in which user is unavailable 3. Click confirm **Test Inputs:** - Code Collab User	After marking off a time as unavailable on the in app calendar display a red banner with the time range and reason should appear signifying unavailability	

Test ID	Description	Expected Results	Actual Results
Test Name: Test Google	**Preconditions:** - User is registered in Code	After syncing with Google	

Test ID	Description	Expected Results	Actual Results
Calendar sync **Test Author:** Patrick Walsh **Test Type:** Integration	Collab - User has navigated to the calendar page - User has an external Google account with calendar set up **Steps:** 1. Click on sync calendar 2. Request access to account's Google Calendar 3. Take data from user's Google Calendar and apply it to in app calendar **Test Inputs:** - Code Collab user - Google Calendar user account	Calendar all events scheduled on there should now also appear on the in app calendar with a red banner that displays their time range.	

Test ID	Description	Expected Results	Actual Results
Test Name: Test for No Experts Available **Test Author:** John Nguyen **Test Type:** Functional	**Preconditions:** - User has registered with CodeCollab. - No experts available **Steps:** 1. Fill out a request form. 2. Include a description about the technical issue. 3. Submit the request form. **Test Inputs:** - Valid request form.	App will send out an error message saying no experts are available and provide different avenues to remedy the situation such as expanding the user's area of availability.	

Test ID	Description	Expected Results	Actual Results

Test ID	Description	Expected Results	Actual Results
Test Name: Simple Stress Testing **Test Author:** John Nguyen **Test Type:** Stress	**Preconditions:** - Load the app on thousands of devices (virtual machines) - Test accounts **Steps:** 1. Automate the following steps on every device 2. Log into the application 3. Fill out a request form. 4. Include a description about the technical issue. 5. Submit the request form. **Test Inputs:** - Valid registration - Valid request form	App will perform all functionalities correctly without the server crashing from the thousands of connections.	

Test ID	Description	Expected Results	Actual Results
Test Name: Cross Platform Test **Test Author:** John Nguyen **Test Type:** Integration	**Preconditions:** - Accounts logged onto different devices (Windows, Mac, iOS, Android) **Steps:** 1. Requester on Device A will fill out a request form and submit 2. Expert on Device B will receive the request **Test Inputs:** - Code Collab users	Expert will receive the request and the calendar will be marked with the meeting without issues	