Test Plan and Cases (TPC)

Discovery Tool

Team 3

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Version History

Date	Author	Version	Changes made	Rationale
10/14/18	FZ	1.0	Initial draft	Initial draft for Discovery Tool TPC
10/20/18	FZ	1.1	Section 3	Updated content
10/21/18	XD	1.2	Fixed formatting	Reviewed for DC package
11/19/18	XD	2.0	Updated section 2, 3, 4	Revised per client meeting and CCD feedback

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1.   Introduction

- Background and purpose of the testing

This document describes our plans to validate our system against the different requirements/specifications including functional, performance, reliability, security, usability etc. This validation is planned to provide better user experience to content contributors and admins as well as improving the quality of the product.

- Scope, focus of testing within this project

We will mainly test the functionality and usability of the projects according to the use cases we developed with the following techniques:

- Type of testing
- unittest
- Integration test
- A/B test

2.   Test Strategy and Preparation

We will build our system and unittest simultaneously to make sure each unit function works per spec. After finishing our projects, we will implement integration test to make sure the API, and each larger block works as expected. At the same time, we will test more corner cases.

The order of build is as the following:

- **validate** - validate if all P0 level functionalities work well.
- **transplie** - transpile frontend react code using Babel
- **test** - test the source code using a suitable unit testing framework (i.e. unittest, flask-testing, jest, enzyme). These tests should not require the code be packaged or deployed
- **package** - take the source code and package it in its distributable format.
- **verify** - run any checks on results of integration tests to ensure quality criteria are met
- **install** - install the package into the local repository, for use as a dependency in other projects locally
- **deploy** - done in the build environment, copies the final package to the remote repository for sharing with other developers and projects.

Value-based test priority

- we will first test the functionalities which has more value in the win-win book. And the fundamental requirement in our clients will also be considered first.

2.1   Hardware preparation

- Internet Devices: Computers with internet access and different browsers installed

2.2   Software preparation

- postman: for backend API testing, for backend data.
- mongoDB: necessary for data storage. for backend data testing, need to consider the security issues like SQL injection risk..

- ReactJS setting: frontend framework.
- npm or yarn: node js management tool.
- python and pip: programming language and python management tool.
- AWS: We only testing the functionalities. All data will be the testing data, which is made by our team members
- Web browser: The users need a browser to access the web app. We'll test chrome, IE, firefox, and Safari.

2.3   Other pre-test preparations

No additional pre-test preparations

2.4   Requirements Traceability

Table 1: Requirements Traceability Matrix

Test Identifier	Test level	Test Case ID
TC-01 Login page tests	Testing, Demonstrating	TC-01-01
TC-02 Content contributor dashboard tests	Testing, Demonstrating	TC-02-1, TC-02-2, TC-02-3, TC-02-4, TC-02-5
TC-03 Content contributor draft board tests	Testing, Demonstrating	TC-03-1, TC-03-2, TC-03-3, TC-03-4, TC-03-5
TC-04 Content contributor global pitch board tests	Testing, Demonstrating	TC-04-1, TC-04-2
TC-05 Admin dashboard tests	Testing, Demonstrating	TC-05-1, TC-05-2, TC-05-3, TC-05-4
TC-06 Admin global pitch board tests	Testing, Demonstrating	TC-06-1, TC-06-2, TC-06-3, TC-06-4
TC-07 Admin team board tests	Testing, Demonstrating	TC-07-1, TC-07-2, TC-07-3, TC-07-4
TC-08 Super admin dashboard tests	Testing, Demonstrating	TC-08-1, TC-08-2, TC-08-3, TC-08-4
TC-09 Super admin global pitch board tests	Testing, Demonstrating	TC-09-1, TC-09-2, TC-09-3 TC-09-4
TC-10 Super admin weekly publishing calendar tests	Testing, Demonstrating	TC-10-1, TC-10-2, TC-10-3, TC-10-4
TC-11 Super admin parking board tests	Testing, Demonstrating	TC-11-1, TC-11-2, TC-11-3, TC-11-4
TC-12 Super admin team board tests	Testing, Demonstrating	TC-12-1, TC-12-2, TC-12-3, TC-12-4

| TC-13 Super admin goals board tests | Testing, Demonstrating | TC-13-1, TC-13-2, TC-13-3 |

3.   Test Identification

3.1 Test Identifier

Table 2: Test Identifier

Test Case ID	Test Case Identifier
TC-01 Login page tests	
TC-01-1	Login
TC-02 Content contributor dashboard tests	
TC-02-1	View current week goal and progress
TC-02-2	View past week goals
TC-02-3	View future week goals
TC-02-4	View individual performance
TC-02-5	Logout
TC-03 Content contributor draft board tests	
TC-03-1	Create a draft
TC-03-2	Edit a draft
TC-03-3	Delete a draft
TC-03-4	View a draft
TC-03-5	Pitch a draft
TC-04 Content contributor global pitch board tests	
TC-04-1	View a pitch
TC-04-2	Filter pitches by criteria
TC-05 Admin dashboard tests	
TC-05-1	View current week goal and progress
TC-05-2	View past week goals

TC-05-3	View future week goals
TC-05-4	Logout
TC-06 Admin global pitch board tests	
TC-06-1	View a pitch
TC-06-2	Approve/reject a pitch
TC-06-3	Filter pitches by criteria
TC-06-4	Edit a pitch
TC-07 Admin team board tests	
TC-07-1	View team member details
TC-07-2	Change a team member's account type
TC-07-3	Create a new user
TC-07-4	Delete an existing user
TC-08 Super admin dashboard tests	
TC-08-1	View current week goal and progress
TC-08-2	View past week goals
TC-08-3	View future week goals
TC-08-4	Logout
TC-9 Super admin global pitch board tests	
TC-09-1	View a pitch
TC-09-2	Approve/reject a pitch
TC-09-3	Filter pitches by criteria
TC-09-4	Edit a pitch
TC-10 Super admin weekly publishing calendar tests	
TC-10-1	View a pitch
TC-10-2	Edit a pitch
TC-10-3	Filter pitches by criteria
TC-10-4	Export pitch to CSV

TC-11 Super admin parking board tests	
TC-11-1	View a pitch
TC-11-2	Edit a pitch
TC-11-3	Filter pitch by criteria
TC-11-4	Change pitch status from parked to approved and move to publishing calendar
TC-12 Super admin team board tests	
TC-12-1	View team member details
TC-12-2	Change a team member's account type
TC-12-3	Create a new user
TC-12-4	Delete an existing user
TC-13 Super admin goals board tests	
TC-13-1	Set goals for current week
TC-13-2	Set goals for future week
TC-13-3	Check past weeks' goals

3.2 Test Level

Table 3: Test Level

Test Identifier	Test level
TC-01 Login page tests	Software item level
TC-02 Content contributor dashboard tests	Software item level
TC-03 Content contributor draft board tests	Software item level
TC-04 Content contributor global pitch board tests	Software item level
TC-05 Admin dashboard tests	Software item level
TC-06 Admin global pitch board tests	Software item level

TC-07 Admin team board tests	Software item level
TC-08 Super admin dashboard tests	Software item level
TC-09 Super admin global pitch board tests	Software item level
TC-10 Super admin weekly publishing calendar tests	Software item level
TC-11 Super admin parking board tests	Software item level
TC-12 Super admin team board tests	Software item level
TC-13 Super admin goals board tests	Software item level

3.3 Test Class

Table 4: Test Class

Test Identifier	Test Class
TC-01 Login page tests	Erroneous test
TC-02 Content contributor dashboard tests	Erroneous test
TC-03 Content contributor draft board tests	Erroneous test
TC-04 Content contributor global pitch board tests	Erroneous test
TC-05 Admin dashboard tests	Erroneous test
TC-06 Admin global pitch board tests	Erroneous test
TC-07 Admin team board tests	Erroneous test
TC-08 Super admin dashboard tests	Erroneous test
TC-09 Super admin global pitch board tests	Erroneous test
TC-10 Super admin weekly publishing calendar tests	Erroneous test
TC-11 Super admin parking board tests	Erroneous test

TC-12 Super admin team board tests	Erroneous test
TC-13 Super admin goals board tests	Erroneous test

3.4 Test Completion Criteria

Table 5: Test Completion Criteria

Test Case ID	Test Completion Criteria
TC-01 Login page tests	
TC-01-1	User logs into the system with a username and password
TC-02 Content contributor dashboard tests	
TC-02-1	Content contributor can view the total number of pitches needed for this week. The desired verticals and number of pitch needed by each vertical, and pitches submitted for each vertical so far
TC-02-2	Content contributor can view goals made in past weeks
TC-02-3	Content contributor can view goals set for future weeks
TC-02-4	Content contributor can view his/her own performance
TC-02-5	Content contributor logs out of the system and ends their current session
TC-03 Content contributor draft board tests	
TC-03-1	Content contributor can create a new draft and add details
TC-03-2	Content contributor can modify a draft
TC-03-3	Content contributor can remove a draft
TC-03-4	Content contributor can view a draft's details: draft ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18)
TC-03-5	When a contributor thinks this draft is ready, he/she can click the "pitch it" button to publish this draft to the global pitch list. This draft is then removed from this draft board.
TC-04 Content contributor global pitch board tests	
TC-04-1	Content contributor can click on a pitch in the list to view its details: draft ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18)
TC-04-2	Content contributor can filter pitches by criterias such as time created

TC-05 Admin dashboard tests	
TC-05-1	Admin can view overall project progress, goal verticals, number of pitch needed by each vertical, progress of each vertical (pitch approved / needed).
TC-05-2	Admin can view goals made in past weeks
TC-05-3	Admin can view goals set for future weeks
TC-05-4	Admin logs out of the system and ends their current session
TC-06 Admin global pitch board tests	
TC-06-1	Admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18), admin reviews
TC-06-2	Admin can click on a pitch, change its status to approved or rejected. If a total number of 2 admin/super admin have different opinions, the status of the pitch is changed to "parked" which is then moved to the parking board, and removed from the pitch board. Rejected pitch is permanently removed from database
TC-06-3	Admin can filter pitches by criteria such as status, creator etc
TC-06-4	Admin can edit the pitch in the global pitch board page
TC-07 Admin team board tests	
TC-07-1	Admin can click on a team member and view his/her information: member name, account type(contributor, admin, super admin), number of draft pitched, number of pitch approved, total weekly number of pitch needed, success rate, details (name, gender, email, phone, address, county, state, country)
TC-07-2	Admin can change a team member's type between admin and contributor
TC-07-3	Admin can create a new admin or contributor account
TC-07-4	Admin can delete an existing account
TC-08 Super admin dashboard tests	
TC-08-1	Super admin can view overall project progress, goal verticals, number of pitch needed by each vertical, progress of each vertical (pitch approved / needed). Super admin does not edit goal in dashboard page, it must be done in goals board page
TC-08-2	Super admin can view goals made in past weeks
TC-08-3	Super admin can view goals set for future weeks
TC-08-4	Super admin logs out of the system and ends their current session
TC-09 Super admin global pitch board tests	
TC-09-1	Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator

	ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18), admin reviews
TC-09-2	Super admin can click on a pitch, change its status to approved or rejected. If a total number of 2 admin/super admin have different opinions, the status of the pitch is changed to "parked" which is then moved to the parking board, and removed from the pitch board. Rejected pitch is permanently removed from database
TC-09-3	Super admin can filter pitches by criteria such as status, creator etc
TC-09-4	Super admin can edit the pitch in the global pitch board page
TC-10 Super admin weekly publishing calendar tests	
TC-10-1	Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked, which will always be approved), log(contributor X modified at 11:30pm 11-10-18)
TC-10-2	Super admin can edit the pitch in the Weekly publishing calendar page
TC-10-3	Super admin can filter pitches by criteria such as status, creator etc
TC-10-4	Super admin can export the weekly publishing calendar into CSV file
TC-11 Super admin parking board tests	
TC-11-1	Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked, which will always be parked), log(contributor X modified at 11:30pm 11-10-18)
TC-11-2	Super admin can edit the pitch in the parking board
TC-11-3	Super admin can filter pitches by criteria such as status, creator etc
TC-11-4	If there is not enough pitches in the weekly publishing calendar, the super admin can move some parked pitches into publishing calendar (change parked pitches' status to approved, remove them from parking board, move into publishing calendar)
TC-12 Super admin team board tests	
TC-12-1	Super admin can click on a team member and view his/her information: member name, account type(contributor, admin, super admin), number of draft pitched, number of pitch approved, total weekly number of pitch needed, success rate, details (name, gender, email, phone, address, county, state, country)
TC-12-2	Super admin can change a team member's type between admin and contributor
TC-12-3	Super admin can create a new admin or contributor account
TC-12-4	Super admin can delete an existing account
TC-13 Super admin goals board tests	

TC-13-1	Super admin can set a list of goals desired for current week, each goal has one desired vertical, and number of pitch needed for that vertical. Once the goal is set, it's given to all contributors but the number of pitch is evenly distributed among the contributors.
TC-13-2	Super admin can set a list of goals desired for future weeks
TC-13-3	Super admin can select a week in history and check its goals

3.5 Test Cases

Table 6: TC-01 Login page tests

Test Case Number	TC-01 Login page tests
Test Item	User logs into the system with a username and password
Test Priority	Must Have
Pre-conditions	None
Post-conditions	None
Input Specifications	Website
Expected Output Specifications	User logs into the system with a username and password
Pass/Fail Criteria	User logs into the system without a username and password or cannot log into the system without a correct username and password
Assumptions and Constraints	None
Dependencies	None
Traceability	TC-01 (We treat use cases as the requirements.)

Table 7: TC-02 Content contributor dashboard tests

Test Case Number	TC-02 Content contributor dashboard tests
Test Item	View current week goal and progress, view past week goals, view future week goals, view individual performance, logout
Test Priority	Must have
Pre-conditions	User must have logged in and have a contributor account type
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results listed below will be considered as failure: Content contributor can view the total number of pitches needed for this week. ● The desired verticals and number of pitches needed by each vertical, pitches approved so far. ● Vertical assigned to this contributor. ● A content contributor can view all the pitches created by him/her that were submitted/approved for content production. ● Content contributor can view goals made in past weeks. ● Content contributor can view goals set for future weeks. ● Content contributor logs out of the system and ends their current session
Assumptions and Constraints	User has logged in and has a contributor account
Dependencies	User must have logged in
Traceability	TC-02-1, TC-02-2, TC-02-3, TC-02-4, TC-02-5

Table 8: TC-03 Content contributor draft board tests

Test Case Number	TC-03 Content contributor draft board tests
Test Item	Create a draft Edit a draft Delete a draft View a draft Pitch a draft
Test Priority	Must have
Pre-conditions	User must login and have a contributor account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● content contributor can create a new draft and add details, notes, and tags ● content contributor can modify a draft ● content contributor can remove a draft ● content contributor can view a draft's details: draft ID, creator, type, vertical, description, time created, last time modified, URL, buy-side network ● When a content contributor thinks this draft is ready, he/she can click the "pitch it" button to publish this draft to the global pitch list. This draft is then removed from this draft board.
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-03-1, TC-03-2, TC-03-3, TC-03-4, TC-03-5

Table 9: TC-04 Content contributor global pitch board tests

Test Case Number	TC-04 Content contributor global pitch board tests
Test Item	View a pitch Filter pitches by criteria
Test Priority	Must have
Pre-conditions	User must login and have an account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Contributor can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18), admin reviews ● Contributor can filter pitches by criteria such as status, creator etc
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-04-1, TC-04-2

Table 10: TC-05 Admin dashboard tests

Test Case Number	TC-05 Admin dashboard tests

Test Item	View current week goal and progress view past week goals view future week goals logout
Test Priority	Must have
Pre-conditions	User must have logged in and have an admin account type
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results listed below will be considered as failure: Content contributor can view the total number of pitches needed for this week. ● The desired verticals and number of pitches needed by each vertical, pitches approved so far. ● Content admin can view goals made in past weeks. ● Content admin can view goals set for future weeks. ● Content admin logs out of the system and ends their current session
Assumptions and Constraints	User has logged in and has an admin account
Dependencies	User must have logged in
Traceability	TC-05-1, TC-05-2, TC-05-3, TC-05-4

Table 11: TC-06 Admin global pitch board tests

Test Case Number	TC-06 Admin global pitch board tests

Test Item	View a pitch Approve/reject a pitch Filter pitches by criteria Edit a pitch
Test Priority	Must have
Pre-conditions	User must login and have an admin account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18), admin reviews ● Admin can edit the pitch in the global pitch board page ● Admin can click on a pitch, change its status to approved or rejected. If a total number of 2 admin/super admin have different opinions, the status of the pitch is changed to "parked" which is then moved to the parking board, and removed from the pitch board. Rejected pitch is permanently removed from database ● Admin can filter pitches by criteria such as status, creator etc
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-06-1, TC-06-2, TC-06-3, TC-06-4

Table 12: TC-07 Admin team board tests

Test Case Number	TC-07 Admin team board tests
Test Item	View team member details Change a team member's account type Create a new user Delete an existing user
Test Priority	Must have
Pre-conditions	User must login and have an admin account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Admin can click on a team member and view his/her information: member name, account type(contributor, admin, super admin), number of draft pitched, number of pitch approved, total weekly number of pitch needed, success rate, details (name, gender, email, phone, address, county, state, country) ● Admin can change a team member's type between admin and contributor ● Admin can create a new admin or contributor account ● Admin can delete an existing account
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-07-1, TC-07-2, TC-07-3, TC-07-4

Table 13: TC-08 Super admin dashboard tests

Test Case Number	TC-08 Super admin dashboard tests
Test Item	View current week goal and progress view past week goals view future week goals logout
Test Priority	Must have
Pre-conditions	User must login and have an account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can view overall project progress, goal verticals, number of pitch needed by each vertical, progress of each vertical (pitch approved / needed). Super admin does not edit goal in dashboard page, it must be done in goals board page ● Super admin can view goals made in past weeks ● Super admin can view goals set for future weeks ● Super admin logs out of the system and ends their current session
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-08-1, TC-08-2, TC-08-3, TC-08-4

Table 14: TC-09 Super admin global pitch board tests

Test Case Number	TC-09 Super admin global pitch board tests
Test Item	View a pitch Approve/reject a pitch Filter pitches by criteria Edit a pitch
Test Priority	Must have
Pre-conditions	User must login and have a super admin account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked), log(contributor X modified at 11:30pm 11-10-18), admin reviews ● Super admin can edit the pitch in the global pitch board page ● Super admin can click on a pitch, change its status to approved or rejected. If a total number of 2 admin/super admin have different opinions, the status of the pitch is changed to "parked" which is then moved to the parking board, and removed from the pitch board. Rejected pitch is permanently removed from database ● Super admin can filter pitches by criteria such as status, creator etc
Assumptions and Constraints	User has logged in
Dependencies	User must have logged in

Traceability	TC-09-1, TC-09-2, TC-09-3, TC-09-4

Table 15: TC-10 Super admin weekly publishing calendar tests

Test Case Number	TC-10 Super admin weekly publishing calendar tests
Test Item	View a pitch Edit a pitch Filter pitches by criteria Export pitch to CSV
Test Priority	Must have
Pre-conditions	User must login and have an account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked, which will always be approved), log(contributor X modified at 11:30pm 11-10-18) ● Super admin can edit the pitch in the Weekly publishing calendar page ● Super admin can filter pitches by criteria such as status, creator etc ● Super admin can export the weekly publishing calendar into CSV file
Assumptions and Constraints	User has logged in

Dependencies	User must have logged in
Traceability	TC-10-1, TC-10-2, TC-10-3, TC-10-4

Table 16: TC-11 Super admin parking board tests

Test Case Number	TC-11 Super admin parking board tests
Test Item	View a pitch Edit a pitch Filter pitch by criteria Change pitch status from parked to approved and move to publishing calendar
Test Priority	Must have
Pre-conditions	User must login and have an account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can click on a pitch in the list to view its details: pitch ID, title, vertical, creator ID, time created, last time modified, details(description, URL, buyside network), status(new, approved, rejected, parked, which will always be parked), log(contributor X modified at 11:30pm 11-10-18) ● Super admin can edit the pitch in the parking board ● If there is not enough pitches in the weekly publishing calendar, the super admin can move some parked pitches into publishing calendar (change parked pitches' status to approved, remove them from parking board, move into publishing calendar)

Assumptions and Constraints	User has logged in with a super admin account
Dependencies	User must have logged in
Traceability	TC-11-1, TC-11-2, TC-11-3, TC-11-4

Table 17: TC-12 Super admin team board tests

Test Case Number	TC-12 Super admin team board tests
Test Item	View team member details Change a team member's account type Create a new user Delete an existing user
Test Priority	Must have
Pre-conditions	User must login and have a super admin account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can click on a team member and view his/her information: member name, account type(contributor, admin, super admin), number of draft pitched, number of pitch approved, total weekly number of pitch needed, success rate, details (name, gender, email, phone, address, county, state, country) ● Super admin can change a team member's type between admin and contributor ● Super admin can create a new admin or contributor account ● Super admin can delete an existing account

Assumptions and Constraints	User has logged in
Dependencies	User must have logged in
Traceability	TC-12-1, TC-12-2, TC-12-3, TC-12-4

Table 18: TC-13 Super admin goals board tests

Test Case Number	TC-13 Super admin goals board tests
Test Item	Set goals for current week Set goals for future week Check past weeks' goals
Test Priority	Must have
Pre-conditions	User must login and have a super admin account
Post-conditions	None
Input Specifications	Go onto the web app
Expected Output Specifications	See test item
Pass/Fail Criteria	Any results except the results that listed in the table below will be considered as failure. ● Super admin can set a list of goals desired for current week, each goal has one desired vertical, and number of pitch needed for that vertical. Once the goal is set, it's given to all contributors but the number of pitch is evenly distributed among the contributors. ● Super admin can set a list of goals desired for future weeks ● Super admin can select a week in history and check its goals
Assumptions and Constraints	User has logged in

Dependencies	User must have logged in
Traceability	TC-13-1, TC-13-2, TC-13-3

4.   Resources and schedule

Team 3 has a dedicated tester to oversee validation and testing of the system.The scheduling for testing is based on developmental increments. Everytime a functionality is completed, the tester will conduct a thorough testing for it. Developers are also responsible to implement unittest for his code increment along the development phase.

4.1 Resources

● unittests for each function written by developer
● Integration tests conducted by the tester
● Budget provided by client to purchase mLab and AWS service
● Test data(user account info, idea info) generated by tester
● Browsers installed on computers for the web app testing environment

4.2 Staffing and Training Needs

Table 19: Staffing and training needs

Type	Stakeholders	Skills	Training
Managing	Xizhao Deng	Python, management, technical writing	React
Designing	Michael Russo	Flask, React, Node.JS, AWS, MongoDB, UML diagram, HTML, CSS, UI design, mLab, Swagger UI	None
Preparing	Jingzhou Hong	Python, HTML, web development, database, Javascript	None
Executing	Yiming Zhang	Flask, React, Node.JS, AWS, MongoDB, UML diagram, HTML, CSS, UI design, Material, AWS	None
Witnessing	Fan Zhang & Josh Bendigo	Mock, postman	None
Testing	Guancheng Liu	Mock	None
Resolving	Shenghao Tang	Python, Flask, Mock	None

4.3 Schedule

Table 20: Testing Schedule

Date	Test Identifier	Responsible person	Resources	Training needs
Mid Nov	TC-01-01	Fan Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-02-1, TC-02-2, TC-02-3, TC-02-4, TC-02-5	Guancheng Liu	Report test data sets, unittest	N/A
Mid Nov	TC-03-1, TC-03-2, TC-03-3, TC-03-4, TC-03-5	Yiming Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-04-1, TC-04-2	Shenghao Tang	Report test data sets, unittest	N/A
Mid Nov	TC-05-1, TC-05-2, TC-05-3, TC-05-4	Fan Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-06-1, TC-06-2, TC-06-3, TC-06-4	Guancheng Liu	Report test data sets, unittest	N/A
Mid Nov	TC-07-1, TC-07-2, TC-07-3, TC-07-4	Yiming Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-08-1, TC-08-2, TC-08-3, TC-08-4	Jinzhou Hong	Report test data sets, unittest	N/A
Mid Nov	TC-09-1, TC-09-2, TC-09-3, TC-09-4	Guancheng Liu	Report test data sets, unittest	N/A
Mid Nov	TC-10-1, TC-10-2, TC-10-3, TC-10-4	Fan Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-11-1, TC-11-2, TC-11-3, TC-11-4	Fan Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-12-1, TC-12-2, TC-12-3, TC-12-4	Fan Zhang	Report test data sets, unittest	N/A
Mid Nov	TC-13-1, TC-13-2, TC-13-3	Fan Zhang	Report test data sets, unittest	N/A