



**FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY**

Programme: RSDY2S2 (Group: 5)

**Assignment**

**BACS2103 SOFTWARE QUALITY ASSURANCE AND TESTING**

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Date of Submission: 29/12/2024



## FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

### Plagiarism Statement and Guideline for Late Submission of Coursework

Read, complete, and sign this statement to be submitted with the written report.

**We confirm that the submitted work is all our own work and are in our own words.**

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CLO2: Adopt software quality standard in the development of software test plan and test cases. (A3, PLO4)

Criteria / Area	Excellent [9-10]	Good [7-8]	Average [5-6]	Fair [3-4]	Poor [2-0]	Score				
						1	2	3	4	5
<b>Report Organisation, Test Documentation Formatting, and Reference.</b>	Excellent organisation of report with tidy content, traceable, flow of content is in order and format applied is good. Consists of more than 10 related references.	Well-organised of content, traceable and easy to read and follow. Consists of 8 to 10 related references.	Report is organised in an appropriate way. Minimum requirement features is met. Consists of 5 to 7 related references.	Report is organised in an appropriate way. Minimum requirement features is met. Consists of below 5 related references.	Inappropriate organisation of report. Topics not in order, missing content, difficult to trace and find topics. No related reference.					
<b>System Overview</b>	Excellent explanation and description of the selected program/application/system to be tested. Provide clear understanding on the overview of system.	Good explanation and description of the selected program/application/system to be tested. Features are clear. Overall system is introduced.	Average explanation and description of the selected program/application/system. Some components are not discussed.	Fair explanation and description of the selected program/application/system. Most components are not discussed.	Do not provide explanation and description of the selected program/application/system. Incorrect system description.					
<b>Test Design Techniques</b>	Demonstrate excellent and well adopted of test design techniques in preparing Test Plan and Test Cases.	Demonstrate good adopted of test design techniques in preparing Test Plan and Test Cases.	Demonstrate average adopted of test design techniques in preparing Test Plan and Test Cases with minor simple errors.	Demonstrate fair adopted of test design techniques in preparing Test Plan and Test Cases with minor severe errors.	Demonstrate improper adopted of test design techniques in preparing Test Plan and Test Cases with major errors.					
<b>Findings on Features of RPA tool as Testing Environment</b>	Able to provide in-depth and extra findings on the selected RPA tool. The content provides precise and excellent explanation with justification on the summarising the study conducted.	Able to provide details findings on the selected RPA tool. The topics presented provide some good idea with justification on the summarising the study conducted to readers.	Able to present overall and general features on the selected RPA tool. Cover most of the topics with justification on the summarising the study conducted.	Able to present overall and general features on the selected RPA tool. Didn't cover most of the topics with justification on the summarising the study conducted.	Incomplete cover most of the topics with justification on the summarising the study conducted.					
<b>Demonstration of the selected RPA tool application to the selected test object</b>	Excellent selection of the suitable RPA tool to test the selected test object with excellent demonstration on the tool.	Good in selection suitable RPA tool to test the selected test object with well-organized demonstration on the tool.	Able to select a RPA testing tool suitable to the selected test object with average demonstration on the tool.	Able to select a RPA testing tool suitable to the selected test object with little demonstration on the tool.	Improper selection of RPA tool with the selected test object with inappropriate demonstration on the tool.					
<b>Findings on Testing Planning Activities and Test Plan Implementation based on ISO/IEC/IEEE 29119-3 standard</b>	Able to provide in-depth and extra findings on the testing planning activities with excellent, correct, precise explanation, and detail elaboration on the planning activities for the testing will conduct.	Able to provide detail findings on the testing planning activities with good and detail elaboration on the planning activities for the testing will conduct.	Able to provide general finding on the testing planning activities with good and detail elaboration on the planning activities for the testing will conduct with some points are lack elaboration.	Able to provide general finding on the testing planning activities with little elaboration on the planning activities for the testing will conduct with major points are lack elaboration.	Incomplete findings on the testing planning activities with little attempt of elaboration on the planning activities for the testing will conduct.					
<b>Test Cases (Appropriate to selected test items and to the test design technique) based on ISO/IEC/IEEE 29119-3 standard</b>	Excellent test cases. Test cases are clear and precise on its objectives, correct and complete information provided based on the selected test items. Able to create test cases appropriately to the selected test design technique on the test items without any error.	Good-developed test cases. Test cases are complete, correct in general. Some may not provide specific information based on the selected test items. Able to create test cases appropriately to the selected test design technique on the test items with minor severe errors.	Shows average attempt to develop test cases. Test case created with minor incorrect/incomplete information or errors based on the selected test items.	Shows fair attempt to develop test cases. Test case created with minor severe incorrect/incomplete information or errors based on the selected test items.	Inadequate attempt to develop test cases. Test case created with Incorrect/incomplete information or errors based on the selected test items.					
<b>Test Case Execution Status Summary based on ISO/IEC/IEEE 29119-3 standard</b>	Test cases execution status summary table is clear on its objectives, correct and complete information provided based on the test cases.	Test cases execution status summary table is complete, correct in general. Some may not provide specific information based on the test cases.	Shows average attempt to develop test cases execution status summary table with minor incorrect/incomplete information or errors based on the test cases.	Shows fair attempt to develop test cases execution status summary table with minor severe incorrect/incomplete information or errors based on the test cases.	Inadequate attempt to develop test cases execution status summary table with Incorrect/incomplete information or errors based on the test cases.					
<b>Interactive communication and individual collaboration on weekly progress</b>	Demonstrate excellent ability to complete individual tasks, to answer the question and provides justification without any major issues.	Able to complete individual tasks, to answer the question and provides justification without any major issues.	Able to complete individual tasks, to answer the question and provides justification without some issues.	Able to complete some individual tasks, to answer the question and provides justification with some issues.	Unable to complete individual tasks, to answer the question and provides justification.					
<b>Cooperation from all members and participation as a team</b>	Demonstrate excellent cooperation from each team members to work together as team to complete each given tasks.	Able to give a good cooperation from each team members and to work together as team to complete each given tasks.	Able to give an average cooperation from each team members and to work together as team to complete each given tasks.	Able to give a little cooperation from each team members and fairly to work together as team to complete each given tasks.	Unable to cooperate in a group and unable to work as a team to complete each given tasks.					
<b>TOTAL (100 marks)</b>										
<b>Comments:</b>										

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# 1. Test Plan

## 1.1 Overview

An excellent software product is always able to lead to a high popularity and high customer retention when it can always ensure that the software has met the users' requirements. In order to build a software which can maximize the fulfillment of users' requirements, it must go through a repeating and rapid software development cycle. In the software development cycle, every phase is very crucial for developing an effective and efficient software, especially during the software testing phase. A productive software testing can help the software testing team to determine the potential risks and bugs inside the developing software product. Thus, the software maintainer can address the issues then propose and implement the constructive solution to solve the issues.

Before executing the software testing, an appropriate test plan should be prepared. Test plan is a comprehensive document which describes all the details of the software testing activities. For example, the objectives of testing, timeline of testing, methodology used in testing and the item or scope to be tested. Test plan acts as a guideline for the software tester to conduct the testing related activities so that all the testing resources can be utilized on the right items using the right methods at the right time. Since the test plan is important for the whole software development cycle, it will be a series of reviewing and approving to ensure that the test plan has complied with user requirements, feasible and applicable with the testing environment. After the approval of the test plan, the software tester will start executing the test plan based on various test cases in different phases. During the execution of test cases, some issues may be explored in the current software such as software errors, software defects and software failures. For each test case, the software tester will record down whether the test actions have triggered the expected results in the software system. If yes, the result will be recorded as a pass and vice versa.

After the completion of the test plan, the software maintainers or software developers will be able to address the potential risks or software bugs then plan the corresponding solution to solve the specific issue in the current software product. Along with the continuous evolution of the software product and the external environment, there may be inevitable enhancements and adjustments required in the test plan in every software development cycle and the software testing activities will also need to be iterated to explore and fix the new issues. Via the iteration of executing software testing and software maintenance, the final and usable software product can be delivered to the end users as it can fulfill all the requirements mentioned by the users.

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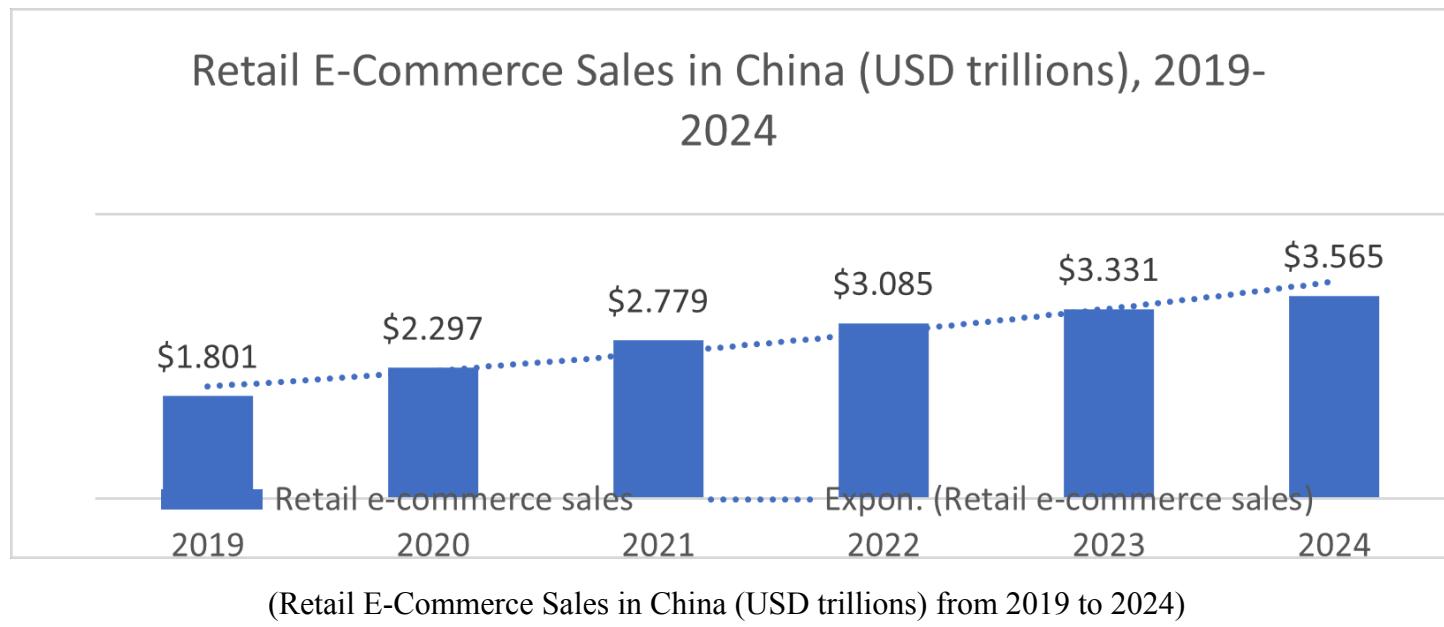
## 1.3 Context of Testing

### 1.3.1 Project(s)

In our testing context, we have chosen the mobile application REDnote as our test subject. REDnote is the overseas version of the social platform "Xiaohongshu" in China. (*REDNote—小红书国际版 - Apps on Google Play*, n.d.) It is a dynamic lifestyle platform designed for young people to freely share their interesting experiences, real, beautiful and diverse world with other users. (*REDNote—小红书国际版 - Apps on Google Play*, n.d.) Meanwhile, it can also enable young people to explore their desired lifestyles and make friends with users around the world.

#### History of REDnote

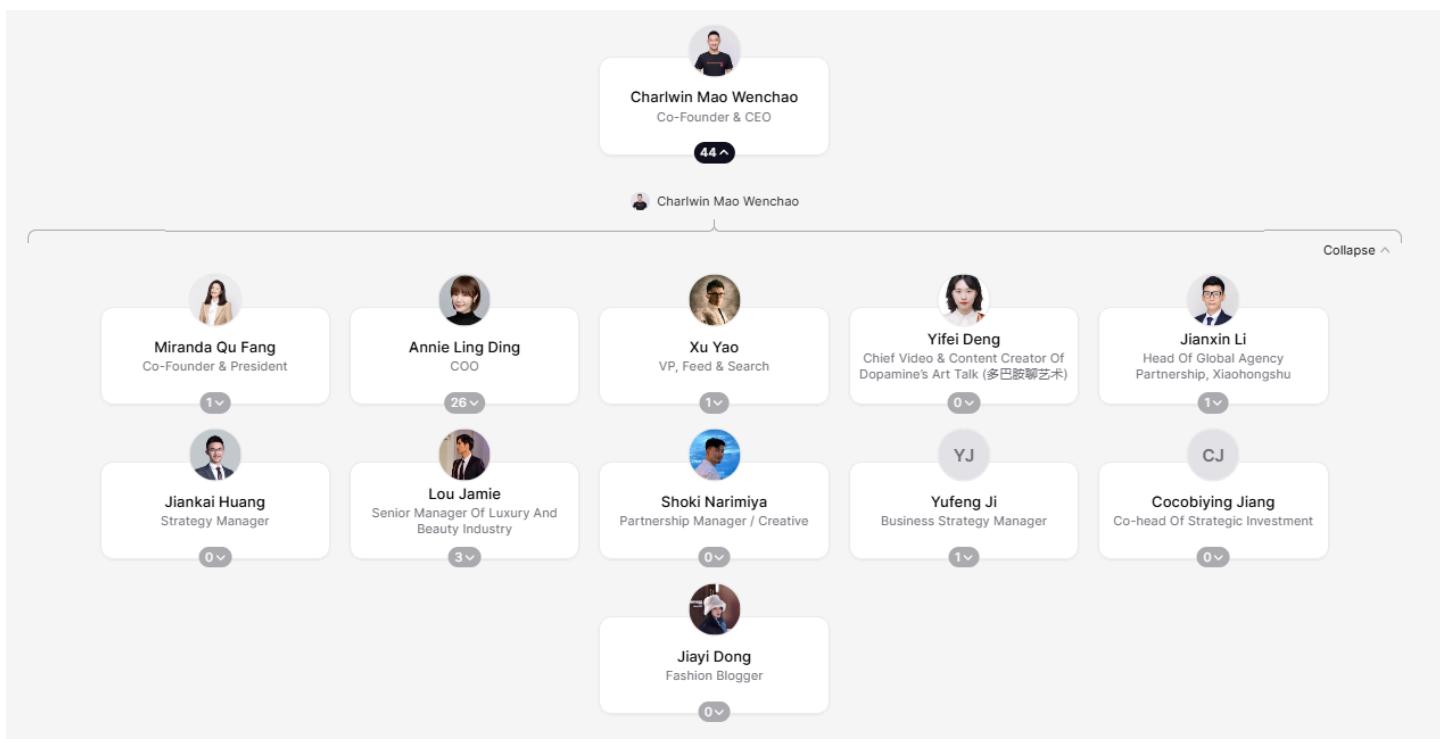
REDnote was founded by Miranda Qu Fang and Charlwin Mao Wenchao in Shanghai, China in June 2013. At present, it is owned by Xingyin Information Technology (Shanghai) Co Ltd and the headquarters are in Shanghai, China. When this application was launched, it acted as a shopping guide for Chinese consumers to research overseas brands and products before purchasing. (*What Is XiaoHongShu 小红书 and How to Use It \*Updated on May 2024\* | FirstCom Academy*, n.d.-b) After a while, most of the users found that they would like to directly purchase the items after they have explored the items in the REDnote app. (*What Is XiaoHongShu 小红书 and How to Use It \*Updated on May 2024\* | FirstCom Academy*, n.d.-b) In order to fulfil users' requirements, REDnote has developed and launched its e-commerce platform in 2014. This decision has attracted a large popularity of users, especially Chinese users. Following the rapid growth of REDnote application, it has gradually become a platform hybrid which combines e-commerce and social media till now. When REDnote has gain a user base of 200 million monthly active users in China and has garnered registrations from 140,000 brands, it started to spread their influence to overseas' users in different countries such as United States and Malaysia.



(The Rise of XiaoHongshu: China's Hottest Social Commerce Platform, n.d.-b)



(XiaoHongShu.com Web Traffic by Country) (The Rise of XiaoHongshu: China's Hottest Social Commerce Platform, n.d.)



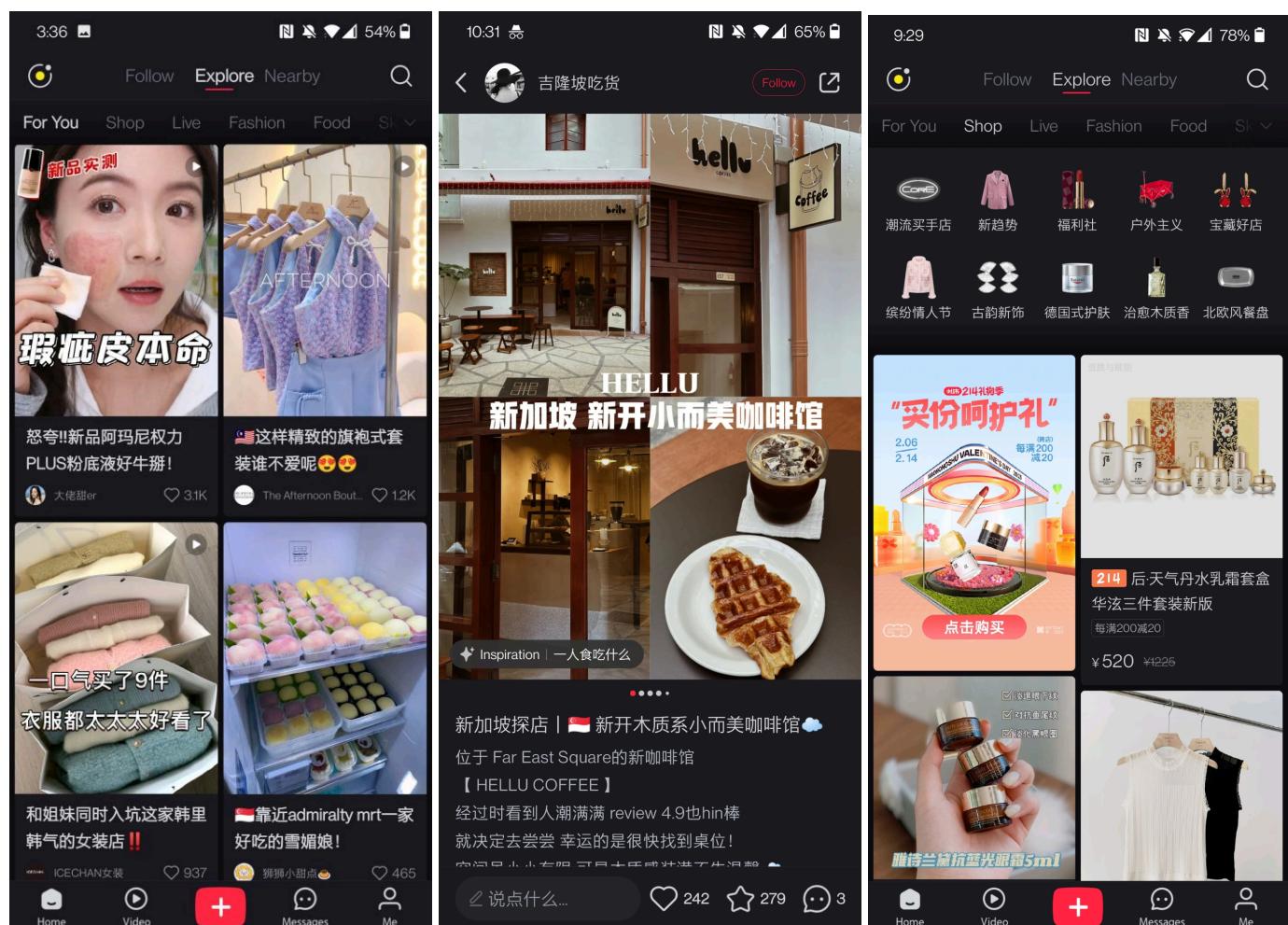
(Organisation Chart of REDNote Application) (Xiaohongshu, n.d.)

## Feature Overview

Through REDnote, users can freely express their creativity, discover inspiring content, and engage in meaningful interactions. The platform offers a blend of social media and e-commerce, allowing users to not only explore lifestyle trends but also discover products and services that resonate with their interests. From travel experiences to beauty tips, fashion ideas, and wellness routines, REDnote serves as a hub for discovering and sharing a variety of passions.

Additionally, REDnote fosters global connections by enabling young people to explore different cultures, lifestyles, and perspectives while building friendships with users around the world. With its intuitive interface and visually appealing design, the platform ensures a seamless user experience for sharing and discovering content.

Our testing will focus on evaluating the core functionalities of REDnote, including user engagement features, content sharing capabilities, and overall usability, to assess its performance as a lifestyle platform for the global market.



(*What Is XiaoHongShu 小红书 and How to Use It \*Updated on May 2024\* | FirstCom Academy, n.d.*)

### 1.3.2 Test Item(s)

To evaluate the performance and reliability of the selected application, we have identified two core functionalities for testing within each module. These functionalities are as follows:

#### 1. Login Module

REDNote's login module handles user authentication, including account registration and login. It ensures that users can securely create accounts and easily access the platform's features.

REDNote's **registration function** enables users to **create accounts securely and seamlessly**, ensuring global accessibility. Designed with mobile in mind, the feature allows users to register using their cell phone number (including international numbers). During the registration process, users select a country code, enter their cell phone number, and verify their identity by entering a one-time password (OTP) via SMS. This eliminates the need for email registration and simplifies the registration process for users.

In addition to mobile number registration, REDNote offers the **flexibility of third-party account integration**. Users can register and log in through platforms such as Weibo, WeChat, QQ, Apple ID, and cell phone brand-specific accounts such as Huawei ID. These options further streamline the process by utilizing the authentication systems of these platforms. To ensure data integrity, the registration feature verifies the uniqueness of each phone number to prevent duplicate accounts. Security is a key focus, with safeguards such as CAPTCHAs and rate-limited OTP requests used to prevent fraudulent registrations.

The feature emphasizes simplicity, security, and global accessibility, ensuring that users in different regions can easily create accounts and connect with REDNote's active community. By offering multiple registration methods and robust security measures, the registration feature provides users with a safe and secure registration environment.

The **login function** in REDNote (Little Red Book) serves as a gateway for users to securely access their accounts, enabling them to explore the platform's personalized content and features. The main purpose of this feature is to **authenticate the user's identity**, ensure account security and protect sensitive information such as saved posts, purchase history and preferences. Users can log in using their **mobile number** by selecting the country code, entering their mobile number and verifying their identity with a one-time password (OTP) sent via SMS. For added convenience, REDNote also supports **third-party login options**, including Weibo, WeChat, QQ, Apple ID and Huawei ID for mobile brand-specific accounts, utilizing the security protocols of these platforms for fast and seamless authentication.

The login process integrates strong security measures such as encrypted communications, failed attempt rate limits and automatic session management to prevent unauthorized access. Sessions are securely maintained to

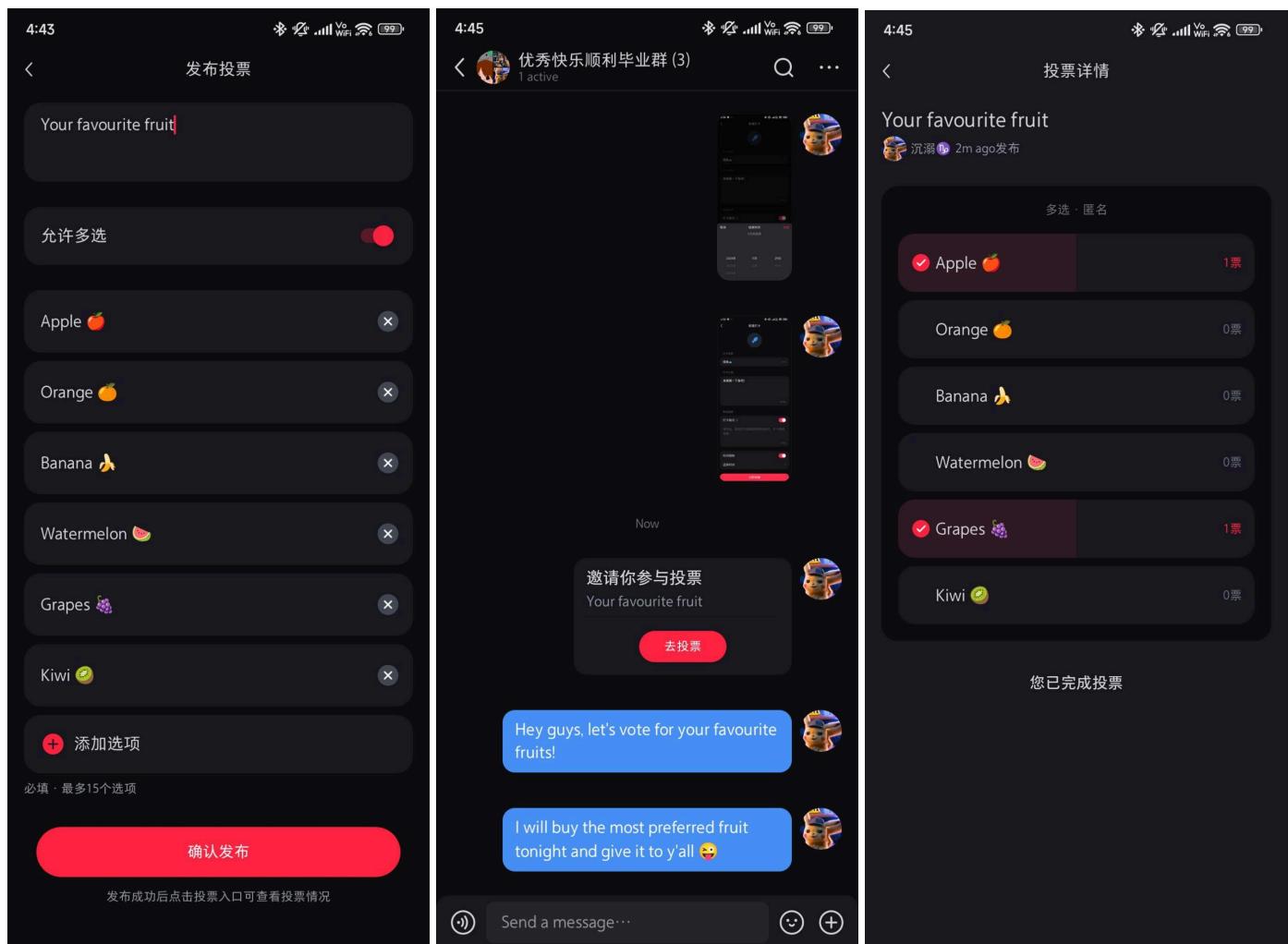
keep users logged in for the duration of their use, with timeout or manual logout options for added security. The feature also includes comprehensive error handling, such as notifying users of unregistered numbers or invalid OTP entries, guiding users through the process efficiently. By providing multiple login methods and global support for international phone numbers, the login feature ensures flexibility, ease of use and accessibility.

## 2. Chat Module

The Chat Module focuses on establishing connections between the REDnote online users via providing messaging features. Thus, they can freely connect with each other via sending messages and files or even sharing interesting posts when meeting new friends in the REDnote application platform.

### Group Voting

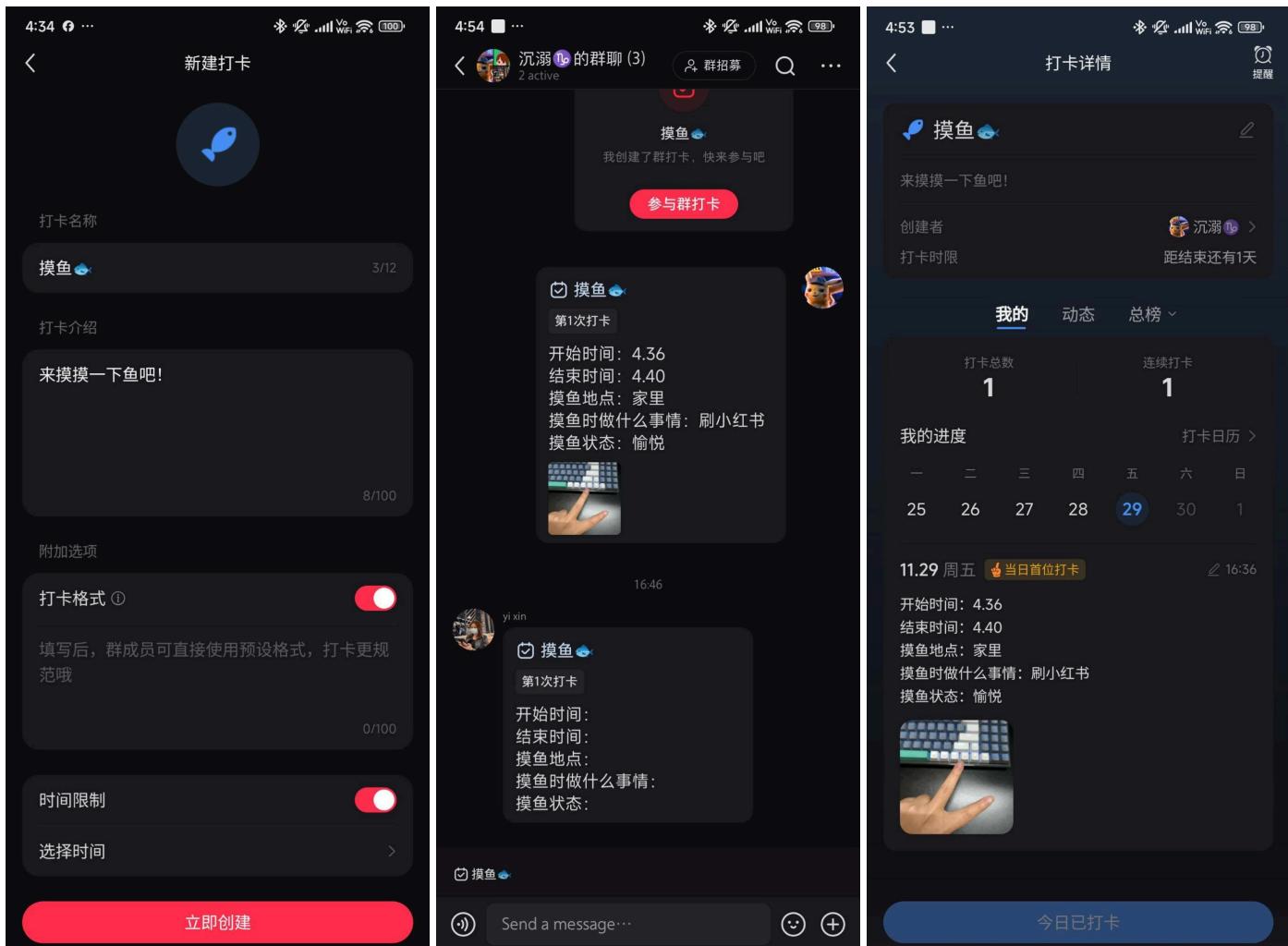
In the Chat Module, REDnote not only allows users to chat with another individual user only, it also allows users to simply create a chatting group with their friends. Thus, they can seamlessly share messages or even posts in the chat group. When it comes to making decisions or selecting preferences, it might be difficult and inefficient for all group members to express their decisions via sending messages individually. In order to handle this situation, REDnote application has developed a Group Voting function which is designated for group chat. The initiator can **create a poll component with discussion topics, multiple available selections** and decide whether to allow multiple choices, then post it into the group chat interface. Once the poll is posted, the other members in the group can just **select their preferred selection** via clicking on it. Meanwhile, the poll component will automatically **summarize the amount of votes on each selection to find out the most preferred answer**.



(User Interfaces of Group Voting)

## Group Check-In

In the group chat, the Group Check-In function is useful for group members to track every member's current status or record their daily aims. It is especially helpful when users in the group want to **establish common goals or competition in group activities** and the duration of the event is long for days, months or even years. Via this function, every group member is able to “check-in” **every day while recording their daily completion status**. Once the “check-in” has been completed, the details will be posted in the group chat and other members will be able to **track the progress**. At the same time, they can also view the ranking of “check-ins” to know who is the “winner” or the person who gains the most check-in number. Before the event is created, the initiator of the Group Check-In event can **set the check-in topics, check-in description, check-in format, time duration of the event**. Thus, all the members in the group can easily perceive the purpose and action needed for the Group Check-In event then join the event to achieve common goals together.



(User Interfaces of Group Check-In)

### 3. Creator Module

The Creator Module is a fundamental component of REDnote, designed to facilitate seamless content creation and audience engagement. It equips users with intuitive tools to produce, customize, and share engaging posts, while also enabling them to strategically plan their content. This module ensures that creators have access to all the necessary features to manage their content effectively and maximize audience reach.

#### Publish Post:

The Publish Post feature is a core functionality of the Creator Module, enabling users to share their ideas, experiences, and creativity with their audience seamlessly. By clicking the **red "+" button** on the REDnote home page, as shown in *Figure 1.2.3.3.1*, users are directed to the material selection pages.

**Templates Page** illustrated in *Figure 1.2.3.3.2* is the first part of material selection pages, which is an essential part of the material selection process. Here, users can browse and choose from a variety of media templates, including photos and videos, to begin crafting their content. It provides options for applying **pre-designed themes, filters, and effects** to enhance the visual appeal of the selected media. Users can further customize their posts or opt to use the templates as-is before advancing to the next step. This flexibility makes the feature suitable for a wide range of users, from casual creators to those focusing on personal branding or professional storytelling. Here, they can choose media such as photos and videos to begin creating their posts.

Once users select a media file, they are presented with an **array of creative tools** to further refine and enhance their content. These tools provide users with pre-designed layouts and themes that can be applied to their photos or videos, ensuring their posts align with specific moods or styles. It also offers filters, overlays, and animations that add depth and a unique flair to the content, making it stand out. These creative features are particularly beneficial for users looking to establish a personal brand or tell compelling visual stories, as they help **elevate the quality and appeal of the posts effortlessly**.

Once users finalize their creative enhancements—or choose to skip this step—they are directed to the New Post Editing Page, as illustrated in *Figure 1.2.3.3.3*. This interface serves as the **final stage of the content creation** process, where users can add detailed captions, hashtags, and user tags to make their posts more engaging and discoverable. Captions allow creators to provide context, narrate stories, or include personal insights, while hashtags help increase visibility by connecting posts to broader topics or trends. The user-friendly layout of the New Post Editing Page is designed to **streamline the process of organizing and previewing content**. Users can arrange their text, adjust tags, and visually inspect their posts to ensure every detail aligns with their creative vision. This step minimizes errors and ensures a polished, professional outcome, giving creators confidence in their work before publication.



Figure 1.2.3.3.1: Screenshot of REDnote Home Page (where the red "+" button directs users to the Templates Page)

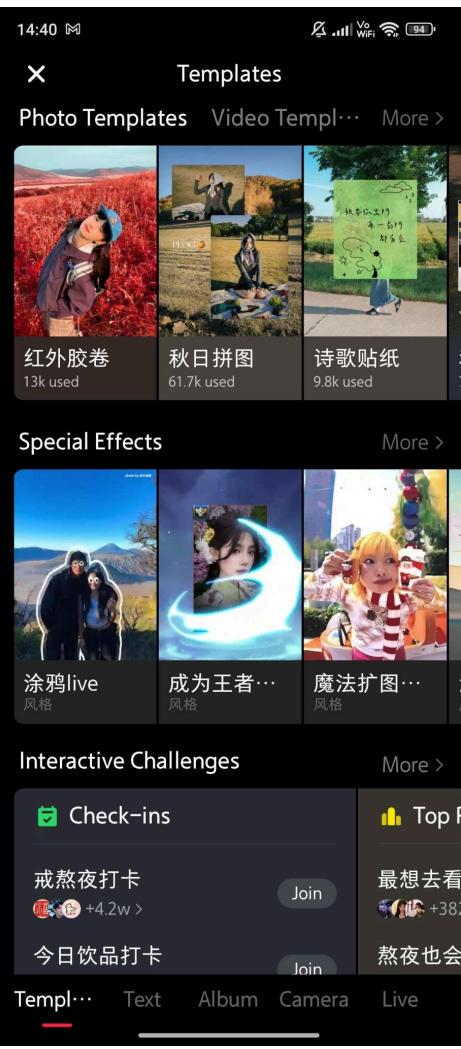


Figure 1.2.3.3.2: Screenshot of REDnote Templates Page (where users can select a media template and either edit it further or proceed directly to the next step)

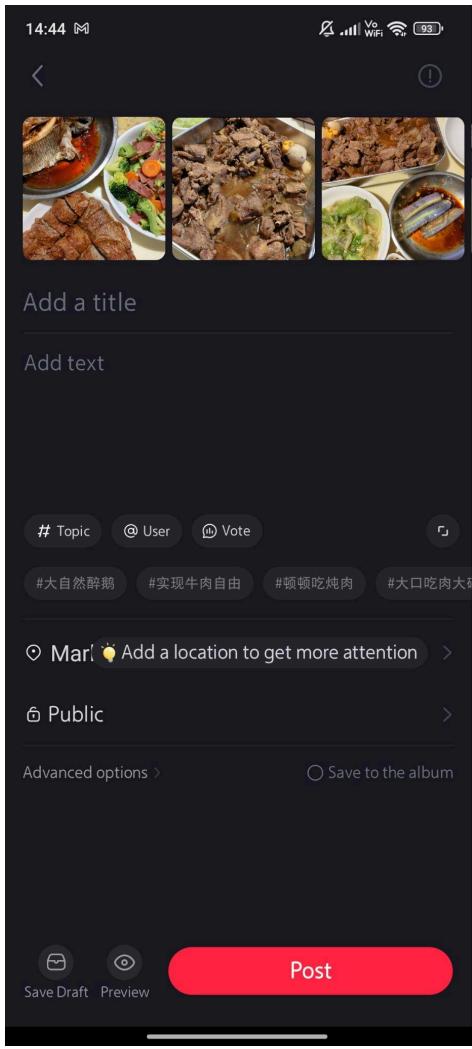


Figure 1.2.3.3.3: Screenshot of New Post Editing Page (where users can finalize their posts by adding captions, tags, and other customizations)

## Schedule Posting:

The Schedule Posting feature offers users the flexibility and control to plan and manage their content in advance. This powerful tool enables creators to set specific dates and times for their posts to go live, helping them maintain consistency in their posting schedules while also aligning with audience engagement patterns. By strategically planning their posts, creators can optimize their reach and ensure that their content is shared at times when their audience is most active, which can significantly enhance engagement and visibility.

Once the details of the post are finalized on the New Post Editing Page, users can proceed to the **Advanced Option Page** to set a precise time for the post to be published. This step is depicted in **Figure 1.2.3.3.4**, where users are provided with an easy-to-use interface that includes both a built-in calendar and clock. The calendar allows users to select a specific date, while the clock lets them choose the exact time for publication, **making sure to publish content at the time chosen by the creator**.

After scheduling the post, users are kept informed about the progress of their content upload. A notification appears on the REDnote homepage, providing real-time updates on the status of the scheduled post. This is

illustrated in **Figure 1.2.3.3.5**, where a pop-up window shows the progress of the post upload. As the process nears completion, the pop-up changes to confirm that the post has been successfully scheduled, as shown in **Figure 1.2.3.3.6**. This feedback ensures users can confidently manage their content without the need for constant monitoring.

The Schedule Posting feature is especially valuable for creators who want to maintain a consistent content strategy without the need for constant manual intervention. It offers a hands-free management system that allows users to plan and schedule posts according to their availability, upcoming events, or peak times for audience engagement. This functionality is ideal for creators who wish to align their content with specific milestones, such as holidays, product launches, or other significant dates, maximizing the relevance and impact of their posts. This feature streamlines content management, providing both ease and efficiency for creators.



Figure 1.2.3.3.4: Screenshot of New Post Editing Page > Advance Option Page (Selecting time of Schedule Posting).



Figure 1.2.3.3.5: Screenshot of the REDnote homepage, with a pop-up window showing the upload progress after clicking the “Post” button.

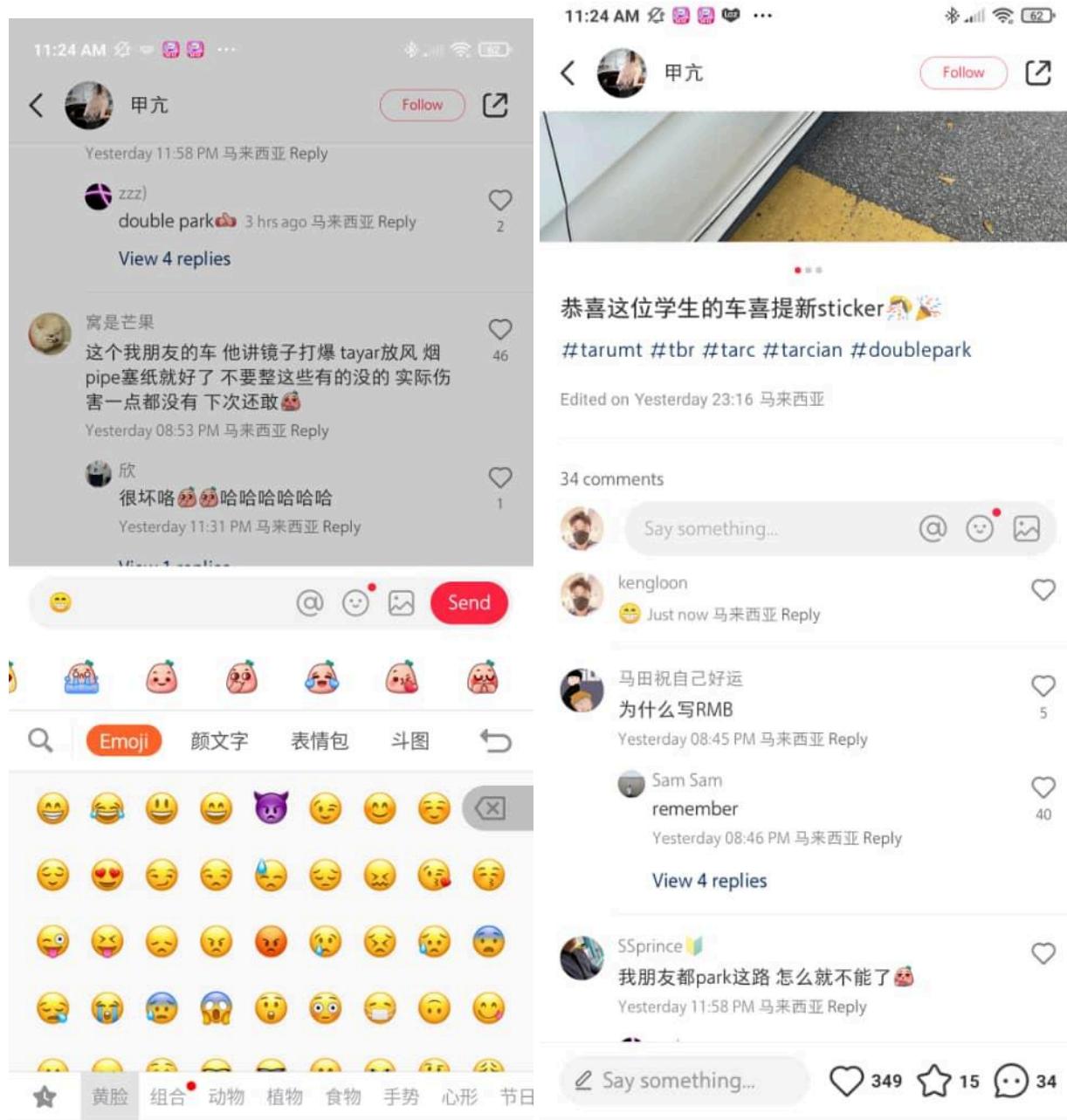


Figure 1.2.3.3.6: Screenshot of the REDnote homepage, with a pop-up window showing the upload progress is complete and successful.

## 4. Comment Management Module

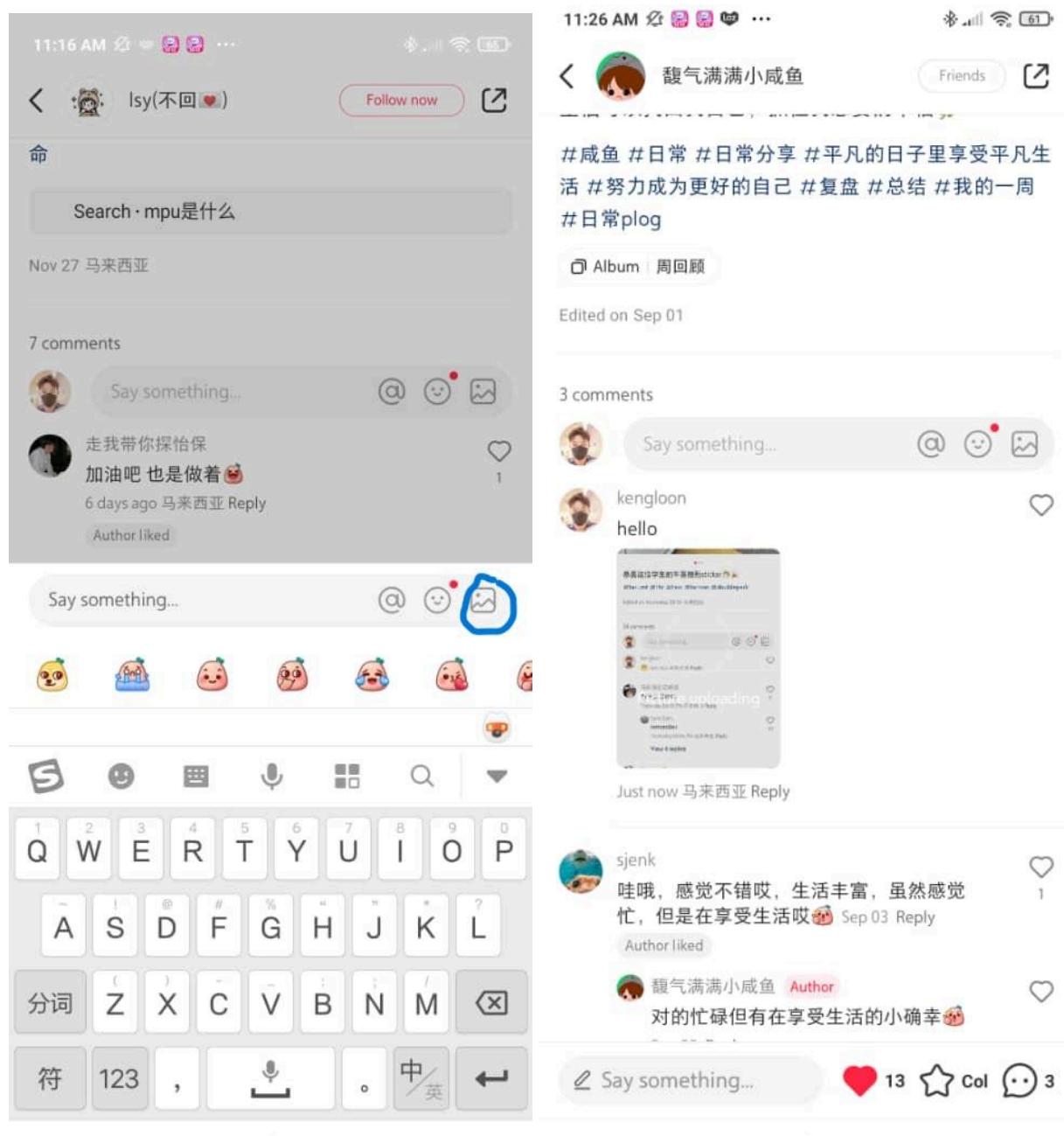
### Add Comment:

The purpose of the Add Comment tool is to allow users to actively engage with information on the REDnote platform and take part in discussions. Users can readily add to the discussion surrounding a particular post by entering their ideas or comments into an intuitive text box. Following submission, comments are shown beneath the post in an organized thread fashion, guaranteeing that the debate flow is coherent and clear. This feature encourages a sense of community among users and allows for an open exchange of ideas. Additionally, it facilitates real-time engagement, which makes the site more lively and interesting by enabling users to reply to other users' remarks promptly. The Add Comment function enables users to actively contribute to the content ecosystem and fortifies community ties by providing a direct channel of contact between content authors and the audience.



## Insert Photo and Video:

By enabling users to add visual and aural components to their comments, the Insert Photo and Video feature enhances the comment system's functionality. With the use of this function, users can add creative or illustrative content to their comments by uploading and embedding photographs, videos, GIFs, and even audio snippets. For example, someone reviewing a product might attach a brief video demonstration, or someone talking about a recipe would provide a picture of their attempt. This feature enhances user engagement quality and adds vibrancy and expressiveness to interactions. Multimedia integration facilitates a variety of communication techniques, guaranteeing that users may successfully communicate their ideas using either words, images, or a mix of the two. Additionally, it gives conversations more nuance and context, which enhances the REDnote platform's immersive and interactive experience.



### 1.3.3 Test Scope

#### 1. Login Module:

- **Functional Testing:**

The Login Module's functionalities will be tested to ensure users can log in and recover passwords effectively. The testing will cover scenarios such as valid login credentials, invalid credentials (wrong password or username), and handling locked accounts. For password recovery, tests will focus on sending password reset emails and ensuring the system allows users to securely update their passwords. This ensures the system meets user expectations for account accessibility.

- **Error Handling Testing:**

Error handling in the Login Module will be tested to confirm the system's response to unexpected inputs. Examples include testing invalid email formats, empty fields in login forms, and attempts to recover passwords with non-registered accounts. The system should provide clear error messages, such as "Invalid username or password" or "Account not found," to guide users. Such tests verify the robustness and clarity of the module under erroneous conditions.

- **GUI Testing:**

GUI testing will validate the visual design and functionality of login-related interfaces. The alignment of input fields, buttons, and error messages will be checked on different screen sizes and devices. The placement of elements like the "Forgot Password" link will also be tested for usability. Testing ensures that users find the login process intuitive and visually appealing, contributing to an optimal user experience.

#### 2. Chat Module:

- **Functional Testing:**

The Chat Module includes features such as group voting and group check-ins. Functional testing will ensure these features work as intended. For group voting, the system will be tested to confirm users can create, cast, and view votes without errors. For group check-ins, testing will focus on the ability to mark attendance for events and generate accurate reports. This ensures the features support collaboration within user groups.

- **Error Handling Testing:**

Error handling will evaluate the module's resilience when invalid data or unexpected inputs occur. For example, voting functionality will be tested for invalid or duplicate votes, while group check-ins will be tested for incorrect timestamps or incomplete data entries. The system must display appropriate warnings and recover gracefully from such issues to maintain reliability.

- **GUI Testing:**

Testing the interface of the Chat Module will involve assessing the layout of group voting and check-in screens. Elements such as voting buttons, check-in fields, and status messages will be examined for usability and responsiveness. The interface should be easy to navigate and visually consistent across devices, ensuring users can efficiently interact with the module.

#### 3. Creator Module:

- **Functional Testing:**

The Creator Module allows users to publish posts and schedule content for future publication. Functional testing will validate these core features, including uploading media (images or videos), adding captions, and scheduling posts for specific times. Tests will also ensure scheduled posts are published accurately and displayed to other users. This guarantees that the module meets user expectations for content sharing.

- **Error Handling Testing:**

Error handling in the Creator Module will focus on invalid or unsupported inputs. For instance, uploading corrupted or unsupported media files will be tested to ensure the system prevents such uploads and displays appropriate error messages. Scheduling conflicts, such as overlapping or incorrect time zones, will also be tested to ensure the system provides clear feedback and resolution options.

- **GUI Testing:**

The GUI testing for the Creator Module will evaluate the design and responsiveness of the post creation interface. This includes checking the alignment of upload buttons, text fields, and scheduling tools. The post preview feature will also be tested to confirm that users can see how their content will appear before publishing. These tests ensure a smooth and visually pleasing user experience.

#### **4. Comment Management Module:**

- **Functional Testing:**

This module includes the ability to add comments and insert photos within comments. Functional testing will verify that users can post comments, attach media, and view them correctly under relevant posts. The system will also be tested for compatibility with different file formats and sizes for photo attachments. This ensures the module provides the intended functionality for user engagement.

- **Error Handling Testing:**

Error handling tests will assess the system's response to invalid inputs, such as posting empty comments or uploading unsupported file formats. Additionally, tests will ensure that overly large files are rejected with clear error messages. The system must handle these scenarios gracefully without disrupting the user experience.

- **GUI Testing:**

The GUI testing for the Comment Management Module will focus on the visual layout and functionality of the comment section. Testing will ensure that comment input fields, photo upload buttons, and existing comments are displayed properly across devices. The system should also maintain visual consistency when displaying multiple comments with attachments, ensuring a seamless user experience.

#### **Testing Types Not Covered:**

1. **Stress Testing:**

Stress testing will not be conducted due to time constraints. This type of testing would involve simulating high user traffic to evaluate system performance under extreme conditions, such as hundreds of simultaneous login attempts in the Login Module or thousands of comments in the Comment Management Module.

2. **Security Testing:**

Security testing is excluded from the current scope. This testing would focus on identifying vulnerabilities, such as unauthorized access to user accounts or content. For example, ensuring secure password recovery processes in the Login Module or protecting published posts in the Creator Module

from unauthorized edits would require advanced testing methods.

### 3. **Performance Testing:**

Performance testing is beyond the scope of this project. This testing would measure the system's response times and speed under various conditions, such as evaluating how quickly the Creator Module uploads large media files or how the Chat Module handles group check-ins during peak activity.

## **1.3.4 Stakeholders**

### **Internal Stakeholders:**

#### **1. Testing Team:**

The Testing Team is responsible for executing the actual tests according to the test plans and test cases. This includes conducting functional, usability, performance, and security testing across the Login and Creator modules. The team works closely with the development team to identify, report, and document any bugs or issues encountered during testing. Additionally, they ensure thorough validation of the system, including edge cases and user scenarios. After fixes are applied, the Testing Team performs regression testing to ensure the integrity of the application and confirm that new changes do not affect existing functionalities.

#### **2. Testing Leader:**

The Testing Leader is responsible for overseeing the day-to-day operations of the testing process. They coordinate and manage the testing team, ensuring that tasks are allocated effectively based on skill sets and availability. The Testing Leader reviews and approves the test cases, ensuring that they are comprehensive and cover all necessary aspects of the application. In addition, they monitor the progress of the testing cycle, troubleshoot issues as they arise, and provide guidance to team members. The Testing Leader also ensures timely completion of testing activities and communicates any concerns or challenges to the Test Manager.

#### **3. Test Manager:**

The Test Manager is responsible for the overall strategy and planning of the testing process. They develop the testing approach, define the scope of testing, and allocate the necessary resources for the project. The Test Manager coordinates between various teams, including the development and QA teams, ensuring that testing is integrated smoothly with other project activities. They track progress, report on the status of testing, and make adjustments as needed to meet deadlines and project objectives. The Test Manager also communicates key findings, risks, and testing outcomes to stakeholders and senior management, ensuring alignment with business goals and quality expectations.

### **External Stakeholders:**

#### **1. End Users: (breakdown type of end user, eg. seller...)**

- **Online consumers**

- **Online consumers form a significant portion of REDnote's user base. These people browse the platform in search of new goods, services, and lifestyle ideas that other users have**

**posted. To make wise choices, they consult creators' and influencers' reviews, guides, and firsthand accounts. By like, commenting, and bookmarking articles for later use, online users actively participate in the platform. Their interactions with the app fuel its natural engagement and foster a thriving community of people with similar interests and purchasing habits.**

- **Influencers**

- **Influencers are important players that mold REDnote's content environment. They interact with their followers and develop their personal brands on the network. Influencers draw in and keep a devoted following by producing excellent, captivating content that includes product evaluations, lifestyle advice, or lessons. In order to promote items, many influencers work with companies, receiving payment through affiliate marketing and sponsorships. They play a part in the platform's revenue prospects and reputation as a center for lifestyle trends in addition to making it more appealing.**

## **2. Owner of REDnote:**

- In charge of overseeing the platform's operations and strategic direction is the REDnote owner. By managing feature development, technological maintenance, and user input, this stakeholder guarantees the app's continued usability, security, and functionality. In order to preserve trust and compliance in global marketplaces, the owner also creates standards for user behavior, content control, and data protection. In order to maintain REDnote's standing as a top lifestyle platform, the owner concentrates on expanding the platform's commercial potential outside of operations by working with advertisers and keeping an eye on user engagement.

## **3. Content Creators**

- Beyond influencers, content creators are individuals or small teams who produce niche or general content for the platform. Unlike influencers who may focus on personal branding, creators often prioritize crafting unique, high-quality, or innovative content. They may focus on areas like tutorials, reviews, artistic creations, or community discussions. Their contributions enrich REDnote's content library and attract diverse user groups. Creators may monetize their work through sponsorships, premium content options, or collaborations with brands.

## 1.4 Risk Register

### 1.4.1 Product Risk

Product risks refer to possible problems in the customer's product that may hinder the testing process and affect the accuracy of the results. These risks may come from the design, functionality, or external factors of the product. As an external testing team, it is critical to identify and manage these risks to ensure comprehensive testing and provide valuable feedback for product improvement. The following are some key product risks that may affect REDNote testing.

#### Localization and regional functionality issues

##### Description

REDnote supports multiple languages, currencies, and region-specific features. Errors such as mistranslations, currency conversion errors, or unsupported regional mobile numbers can distort the user experience and hinder testing. For example, mistranslating the "Login" button text from English to Chinese can confuse users, or currency conversion errors can cause users in certain countries to see the wrong price, leading to potential frustration and mistrust.

##### Management of Risk

Similarly, unsupported regional mobile number formats can prevent users from successfully registering their accounts in a specific country. To manage this issue, it is necessary to **work closely with the client's localization team**, use automated localization testing tools, and involve testers who are fluent in various languages. Manual and exploratory testing should also be conducted to verify regional functionality and ensure consistency between different languages.

#### Inconsistent performance across devices and networks

##### Description

REDNote is used on a variety of devices with different operating systems, screen sizes, and hardware configurations, which can cause performance issues such as slow loading times, crashes, or poor user experience. For example, users with older smartphones with low RAM may experience slow performance, or the app may crash on certain devices. Additionally, users on slow networks (such as 3G or poor Wi-Fi) may experience delays in image and video loading, or buffering while browsing.

##### Management of Risk

To achieve this, testers should **request access to a variety of devices**, including high-end and low-end smartphones, to ensure comprehensive testing on different hardware configurations. **Using device emulators and simulators** can also help test how the application performs on a variety of devices and screen sizes. In addition, network throttling tools can simulate slower network speeds (such as 3G or poor Wi-Fi) to identify

performance bottlenecks and ensure that the application runs smoothly under different network conditions. Performance testing tools, such as load testing and stress testing tools, can be used to simulate heavy user loads and high-traffic scenarios to detect performance issues, such as servers slowing down or crashing under peak usage.

## Limited access to the system

### Description

Testers may **not have full access to critical components**, such as backend systems, third-party integrations, or staging servers, which can limit the ability to fully test basic functionality such as authentication, media uploads, or API interactions. For example, without access to backend systems, it may not be possible to verify that user data is properly processed during registration or login. Similarly, if a third-party payment gateway is involved and testers cannot interact with it, any issues with the transaction process, such as payment failures or billing errors, may go undetected.

### Management of Risk

To manage this risk, **early and clear communication with the client** is critical to request access to necessary environments, such as staging servers or backend configurations. If direct access is not possible, using mock services or simulators can be a valuable workaround. For example, mock API responses can simulate interactions with third-party services, allowing testers to evaluate how the application behaves without accessing the actual service. By proactively addressing these limitations and working with the client to define the scope of accessible functionality, external testing teams can still ensure comprehensive testing even with limited access to certain parts of the system.

Effectively managing product risks is critical to ensuring that REDNote is thoroughly tested. External testers can provide valuable insights to improve the product by addressing issues such as localization, device performance, and limited access to test environments. By actively collaborating with customers and using the appropriate tools, these risks can be mitigated to ensure a high-quality, reliable product for different markets and platforms.

## 1.4.2 Project Risk

Project risk is the **risk that is associated with the testing activity which can endanger the test project cycle** as testing activity is a very crucial action to be done to assure the usability of the project product undeniably. (Software Testing Mentor Team, 2013) During the execution of the project, it is always impossible that all the team members can smoothly and successfully complete all the tasks at once without facing any potential issues. Sometimes, there might be some human mistakes made or project vulnerabilities found during the project execution. Those issues might have a chance to impact the whole project to achieve its objectives within specified time. In order to prevent these issues as much as possible, it is necessary to make a prediction about the possible project risk and figure out the preventive measures and risk mitigation plan. Thus, the project can be accomplished and the products can be delivered within the expected time.

### Delays in Task Completion

#### Description

The issue of delaying in system delivery and task completion is a very common issue during the project life cycle. It indicates that the **individual tasks or activities are unable to be accomplished within the planned time**. As an aftermath, the overall delivery of the system might be delayed beyond the promised deadline. Usually, the delaying issues will happen during testing stages because it involves a lot of expert technical skills on coding and human works which may consist of human mistakes. For example, the planners of the project documentation have **underestimated the timelines needed and complexity involved for the system testing process**. Thus, the system testers may not be able to finish their tasks within expected timeframe. Another example is the issue of **lacking team members during the testing process**. During the testing process, lack of the testing team members will indicate that all the testers have to spend more time to finish testing all the required modules and functions since one person can only do one job at a time. It will also cause a serious delay issue and the final product cannot be delivered to the client on time.

#### Management of Risk

In order to manage the risk, the first step required is **identifying the risk**. Since the issue is delays in system delivery and task completion, it is important to find out which parts have caused the most delay. Then, we need to **determine the dependencies** which indicate which tasks are being relied on by those delayed parts. After that, we should also **find out the reason why there is a delay during the execution of tasks**. The issue can be solved only if we have deeply explored, understand the main reason and **formulated the correct strategies** to solve the problems. For example, the delivery of the latest version of the developed system has been delayed. Thus, we have found out that the chat module is the delayed part which is related to the latest version of the system. Then, we tried to find out the reason behind the scene and found that 2 out of 5 testers who were in charge of the chat module had resigned during the testing time. It has seriously affected the progress of the chat module development, causing the delay of system delivery at the end. Once we find out the reason, we have to

formulate a strategy designated for this situation which is to **recruit more developers for picking up the jobs** or **redistribute the human resources** for helping the remaining 3 developers to share the burden.

## **Unavailability of Test Environment**

### Description

Unavailability of a test environment is a serious risk that must not be overlooked as it acts as an initial point or fundamental condition for all the software testing team to test the system. It involves the hardware, software, data configuration or infrastructure that will be used during the testing process. If the test environment is not set up well or even not ready, it is **difficult or even impossible for software testers to test the system modules and functionalities**. In the end, the final product would not be able to be delivered within the specified time or the final product would not fulfil the clients' requirements as a lack of time for testing all the system functionalities. One of the reasons for this risk is resource conflicts. When there are only several testing environments and a lot of teams or other projects are sharing the same testing environment, the **testing environment will be occupied and unavailable** for some of the testing team to execute their tasks based on the schedule. The other reason is the **dependency on external vendors**. Some of the test environments may need to rely on third-party tools or systems, it may cause delay during the testing process if the vendors did not obey the promised time specified for offering the tools or the testing team did not confirm the time required with the vendors at early stages.

### Management of Risk

Based on this project risk, some executable steps should be taken to manage the risk or act as a preventive measure for future project cycles. Since the unavailability of test environments may be due to the sharing of test environments, the testing team should **prepare a separate environment for the project** to prevent resource conflict with other teams if possible. Meanwhile, the testing team should also set up a secondary environment as a backup plan. Thus, it can be used when the primary test environment is being occupied by other teams or projects. For the dependency of third-party vendors, the testing team should actively **discuss with the vendors and confirm the tools offering time early**. So, the third-party tools or systems will always be ready on time for the system testing process.

## **Team Collaboration Issues**

### Description

Apart from the challenges from external factors, the incorrect political issues can also cause a project risk. During the development and testing process, the team collaboration is crucial for all project team members to **share information with each other, receive instructions and coordinate work**. However, a bad team collaboration skills may be arising from ineffective communication, coordination and lack of teamwork among project members. This would indirectly **affect the efficiency and productivity of the team projects**, finally the objectives of the project cannot be achieved. When there is less or confused arrangement and coordination from

the coordinator, the team members might not be able to understand their roles and responsibilities clearly. Then, the outcome of work would definitely be different from the expected result. Besides, there must be a work distribution among all the software testing team members. If the team collaboration skill is not ideal, the **tester may not be able to understand the task distribution information provided by the test manager**. When the information perceived is incorrect, the outcome of the testing work would also be inaccurate and lead to a wasting of time and resources.

### Management of Risk

Most of the reason for the issue of team collaboration skills may be due to lack of open communication between project team members. Thus, the project manager should ensure that **regular meetings are conducted daily or weekly**. So, all team members' work progress can be tracked regularly. If there is something wrong with the working direction, the project manager can specifically point out the mistakes and express the expectation required in a clear way. Thus, the team members can correct their mistakes based on the suggestions provided during meetings. Another way to manage this project risk is **monitoring and evaluating collaboration status via a team survey**. The project manager can assess team satisfaction via preparing some useful questions and surveying all testing team members. This can effectively identify the current issues faced by the team and formulates the strategies based on the issues. Via the implementation of the decided strategies such as applying reward collaboration and conducting team-building activities, the team collaboration skills can be improved and it would be proportional to the efficiency and effectiveness of the project.

## 1.5. Test Strategy

### 1.5.1 Test Design Techniques

#### Login Module

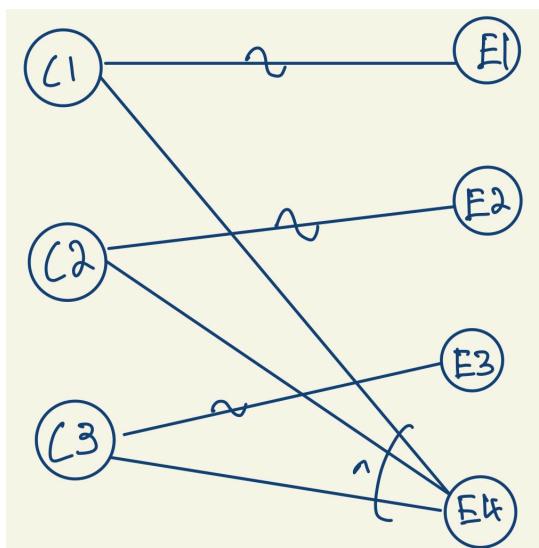
##### Register Function

In the register function, the process begins with the user entering a phone number and agreeing to the privacy and policies before receiving a One Time Password (OTP) for authentication. To ensure comprehensive test coverage, we applied **Cause-Effect Graphing and Decision Table** Techniques. These techniques help identify logical dependencies between inputs (causes) and expected outcomes (effects), enabling the design of effective test cases for the function.

#### Cause-Effect Graphing

The first phase involves verifying the phone number and OTP authentication. The graph defines key causes such as valid phone number input, agreeing to privacy policies, and entering the correct OTP, and their effects, such as successful authentication or error messages for invalid inputs.

Causes	Effects
C1: Valid format mobile number which has not registered is entered	E1: Error message “Verification code sending failed” is printed.
C2: Privacy and Policies checkbox is checked	E2: Pop up dialog with message “Acceptance of Terms and Condition” and show “Agree & Acceptance” button.
C3: Valid 6 digit OTP number is entered	E3: Error message “Incorrect SMS verification code” is printed.
	E4: Success register an account.



## Decision Table

The decision table systematically explores all possible combinations of inputs and outputs. For phone number validation and OTP authentication, inputs like valid/invalid phone numbers, checked/unchecked privacy checkbox, and valid/invalid OTP are combined to derive corresponding outputs. The strategy identifies 4 test cases 2 positive and 3 negative—covering both phases.

Conditions	TC1	TC2	TC3	TC4
C1	F	-	-	T
C2	-	F	-	T
C3	-	-	F	T
Actions				
E1	T	-	-	-
E2	-	T	-	-
E3	-	-	T	-
E4	-	-	-	T

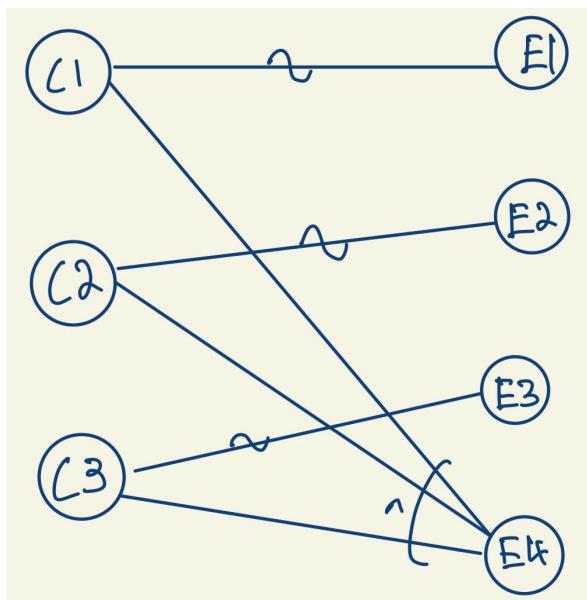
## Login Function

The **Cause-Effect Graph and decision table techniques** were applied to design the client test cases in the login function where the user logs in using the phone number.

### **Cause-Effect Graphing**

Cause and effect diagrams identify logical dependencies between inputs (causes) and expected results (effects). For example, entering a valid phone number and agreeing to the privacy and policy checkboxes should result in a successful login, while any combination of invalid inputs should trigger an appropriate error message. In addition, decision tables systematically handle various input combinations such as valid/invalid phone numbers and checked/unchecked checkboxes to ensure comprehensive scenario coverage.

Causes	Effects
C1: Valid format mobile number which has been registered is entered	E1: Error message “Verification code sending failed” is printed.
C2: Privacy and Policies checkbox is checked	E2: Pop up dialog with message “Acceptance of Terms and Condition” and show “Agree & Acceptance” button.
C3: Valid 6 digit OTP number is entered	E3: Error message “Incorrect SMS verification code” is printed.
	E4: Success login to the account.



Positive test cases include entering a valid phone number that is correctly formatted (e.g., with or without a country code) and agreeing to the Privacy and Policies checkbox, resulting in a successful login. Negative test cases included entering an invalid phone number (e.g., too short, too long, or containing non-numeric characters

and haven't registered), having an empty phone number field, or attempting to log in without agreeing to the privacy and policy checkboxes. A total of 5 test cases were identified: **1 positive and 4 negative**.

### Decision Table

Conditions	TC1	TC2	TC3	TC4
C1	F			T
C2		F		T
C3			F	T
Actions				
E1	T			
E2		T		
E3			T	
E4				T

## Chat Module

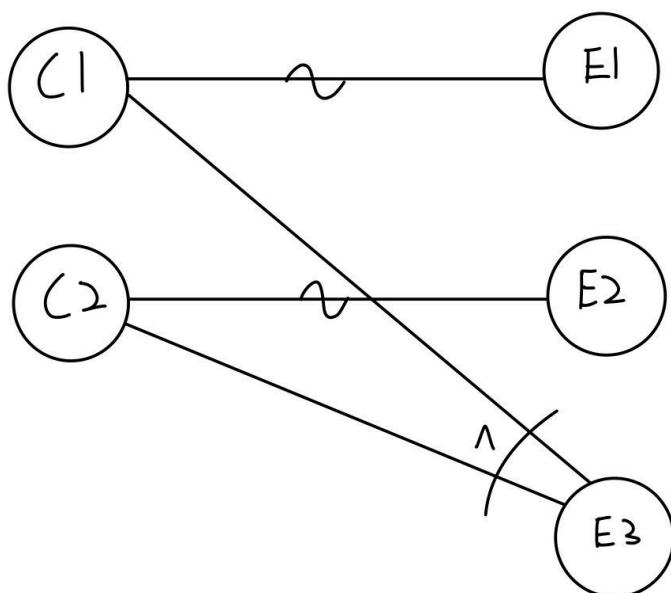
### Group Voting Function

In the Group voting function, there are some actions which are available for users to configure before successfully creating the group vote. For example, users can fill in the group voting title, create new options, fill in options' name fields and decide whether to allow multiple selection voting. Since exhaustive testing is impossible, suitable techniques have to be chosen to test the function comprehensively but also efficiently. For our case, we have decided to choose Black Box Testing Techniques of Cause-Effect Graphing and Decision Table to find out and execute the test cases.

### Cause-Effect Graphing

Since there are a lot of input fields which require users' manual filling action, an appropriate restriction on character count will need to be set. During creation of group voting, the length of the voting title is restricted to a maximum of 80 characters. Meanwhile, the length of each option's name is also restricted to at most 40 characters. Besides, the maximum number of options is also restricted to at most 15 options only. In order to test out all the possible input without exhaustive testing, we will categorize each input field's input value as valid and invalid value then design the possible expected effects which may be caused by invalid or valid input values.

Causes	Effects
C1: Valid length of group voting title is entered	E1: Error message “Maximum supported length of Voting Title is 80 characters only” is printed.
C2: Valid length of option name is entered	E2: Error message “Maximum supported length of Option is 40 characters only” is printed.
	E3: Group voting is created.



## Decision Table

The decision table technique is applied into the group voting function as one of the white-box testing techniques as it can find out all the possible patterns and relationships between different inputs and results in a more thorough way. It finds out the combinations of causes that have this effect and combinations that do not have this effect via transforming the cause-effect graph into a decision table.

Conditions	TC1	TC2	TC3
C1	F	-	T
C2	-	F	T
Actions			
E1	T	-	-
E2	-	T	-
E3	-	-	T

### Group Check-In Function

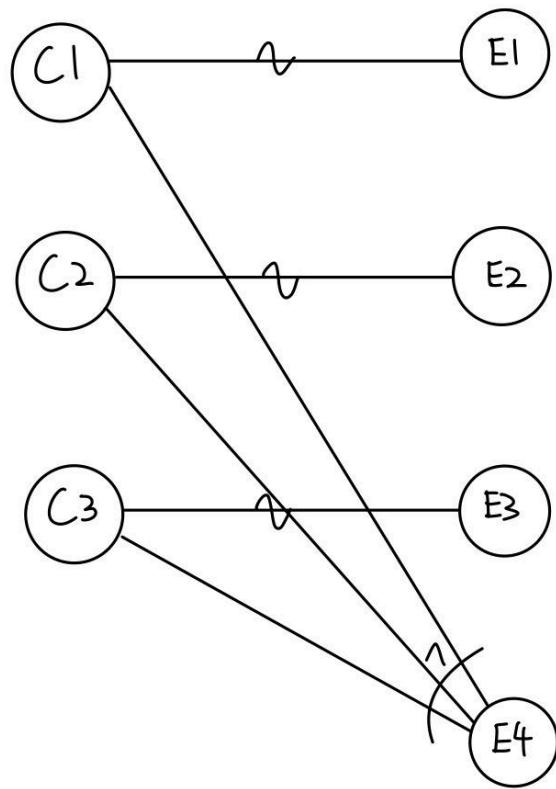
In order to enable the initiator of the group check-in event to add more information of the group check-in or configure the settings for the group check-in, this function has been provided with some small personalized features such as check-in title, description, format and time limitation. Users can customize those settings via entering or selecting their desired information. Meanwhile, each of the input field has set with some limitation or validation to ensure the consistency and performance of the function with guiding users to provide the expected information. In order to check whether the validation is workable and the dependencies between different input and result while performing the function, the Cause-Effect Graphing and Decision Table Techniques will be applied as the white-box testing techniques.

### **Cause-Effect Graphing**

There are some test cases needed to be considered when creating a group check-in as they can be the factors which affect the function's final execution result. For example, the valid check-in title is required to promise the successful creation of group check-in. If not, the group check-in would not be able to be created. The check-in format and time limitation input fields are also crucial information to be filled in to ensure the completeness of the group check-in event.

Causes	Effects
C1: Valid check-in title is entered.	E1: Error message “Maximum supported length of Check-In Title is 12 characters only” is printed.
C2: Valid check-in description is entered.	E2: Error message “Maximum supported length of Check-In Description is 150 characters only” is printed.

C3: Valid check-in format is entered.	E3: Error message “Maximum supported length of Check-In Format is 100 characters only” is printed.
	E4: Group check-in is created.



### Decision Table

Via the decision table, different combinations of causes and their effects in the group check-in function can be identified. Thus, we will be able to know which combination of inputs can lead to which effect and which effect is what we are expecting.

Conditions	TC1	TC2	TC3	TC4
C1	F	-	-	T
C2	-	F	-	T
C3	-	-	F	T
Actions				
E1	T	-	-	-
E2	-	T	-	-
E3	-	-	T	-
E4	-	-	-	T

## **Creator Module**

The Creator Module in REDnote provides users with powerful tools for content creation, customization, and sharing. Two key features of this module are Publish Post and Schedule Posting, which enable users to efficiently create and manage their content. To ensure these functionalities are working correctly and meet user requirements, suitable Black Box Testing Techniques have been chosen, including Cause-Effect Graphing and Decision Table, to design comprehensive yet efficient test cases.

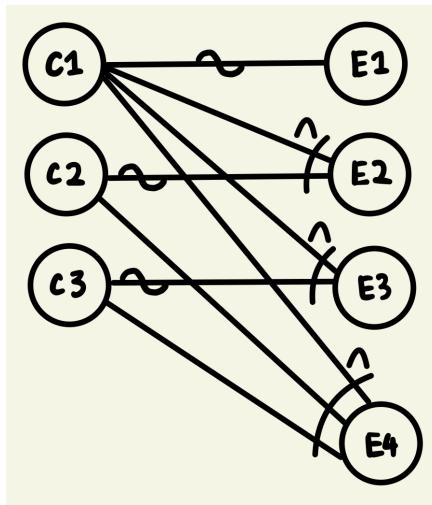
### **Publish Post**

The Publish Post function allows users to share engaging posts with their audience. During this process, users can select media files, customize content with captions and descriptions, and finalize their post before publishing. The system imposes specific restrictions on media files to maintain performance and compatibility. For example, the duration of video should not exceed 60 minutes, file size must be  $\leq$  20 GB, and supported formats include mp4 and mov. Recommended resolution is 720P or higher, with web upload preferred for videos exceeding 1080P. Also, image requirements is users can only upload not more than 18 images per post, with individual file size  $\leq$  20 MB. Supported formats include png, jpg, jpeg, and webp, while gif and live photos are not supported. Recommended resolution is a 3:4 aspect ratio, with a minimum of 720 x 960 pixels, and web upload for images above 1280P. Additionally, caption lengths are restricted to 0–20 characters, and main body descriptions must be between 0–1000 characters.

### **Cause-Effect Graphing**

To test the Publish Post feature, input fields and their values will be categorized into valid and invalid ranges. For instance, invalid media files (e.g., exceeding size, unsupported formats) or excessively long captions/descriptions will trigger corresponding error messages. These restrictions ensure posts meet the platform's requirements and provide feedback to guide users when input is invalid.

Causes	Effects
C1: Valid media file is selected.	E1: Error message "Invalid media file format, size, or resolution."
C2: Caption length is within 0–20 characters.	E2: Error message "Caption length exceeds the limit."
C3: Description length is within 0–1000 characters. Effects	E3: Error message "Description length exceeds the limit."
	E4: Post published successfully.



## Decision Table

The decision table technique is employed to capture various combinations of causes (e.g., valid media, caption, and description inputs) and their effects. It helps identify specific input patterns that lead to successful post creation or error messages.

Conditions	TC1	TC2	TC3	TC4
C1	F	T	T	T
C2	-	F	-	T
C3	-	-	F	T
<b>Actions</b>				
E1	T	-	-	-
E2	-	T	-	-
E3	-	-	T	-
E4	-	-	-	T

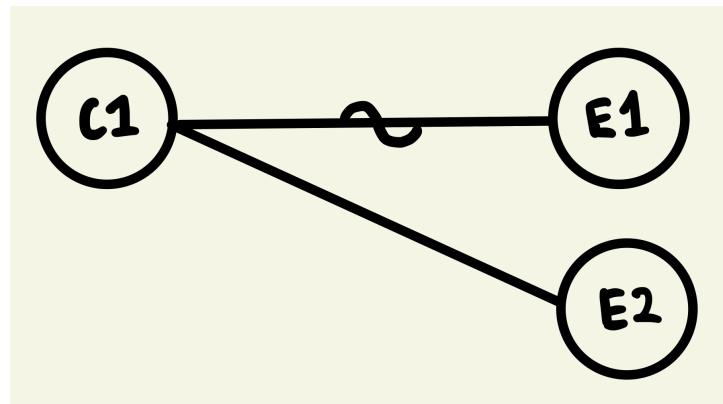
## Schedule Posting

The Schedule Posting feature allows creators to plan their content in advance, ensuring timely and consistent engagement with their audience. Users can select a specific date and time for their posts, within a range of 1 hour to 14 days from the current time.

## Cause-Effect Graphing

To validate this functionality, inputs such as date and time will be tested for format and range validity. For example, selecting a date or time outside the allowed range will trigger error messages, ensuring the feature adheres to the constraints.

Causes	Effects
C1: Valid date is selected (within 1 hour to 14 days from the current time).	E1: Error message "Invalid date format or range."
C2: Valid time is selected.	E2: Error message "Invalid time format."
	E3: Post scheduled successfully.



### Decision Table

Using the decision table technique, various combinations of valid and invalid date and time inputs are mapped to their respective outcomes, such as error messages for invalid selections or successful scheduling for valid inputs.

Conditions	TC1	TC2
C1	F	T
Actions		
E1	T	-
E2	-	T

## Comment Management Module

To improve user interaction, the Comment Management Module lets users attach images or videos and leave comments on postings. This functionality's dependability and usability have been tested using Black-Box Testing methodologies. Due to the nature of these features, testing methods were selected for the two capabilities that were tested: Add Comment and Insert Photo and Video.

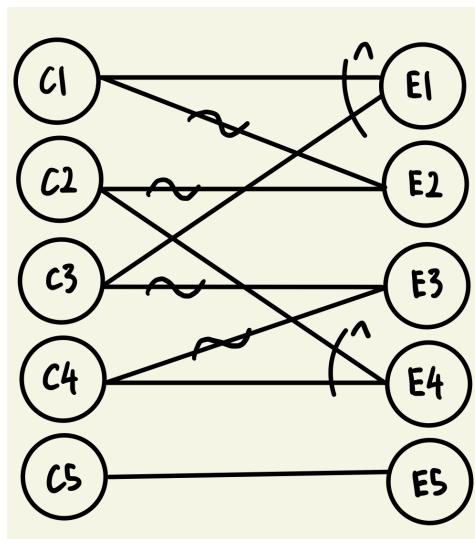
### Add Comment

Users can publish text-based comments using the Add Comment function, which has validations in place to make sure the input satisfies predetermined standards. The remark must be at least 500 characters long, not empty, and free of unsupported special characters such control characters.

### Cause-Effect Graphing

Cause-Effect Graphing is used to classify the input into valid and invalid ranges, generating error messages for empty, oversized, or incorrect inputs, in order to adequately evaluate this capability.

Causes	Effects
C1: Comment is empty	E1: Error message "Comment cannot be empty."
C2: Comment exceeds 500 characters	E2: Error message "Comment exceeds maximum length of 500 characters."
C3: Comment contains unsupported chars	E3: Error message "Comment contains unsupported characters."
C4: Comment is valid	E4: "Comment added successfully."



### Decision Table

Decision Table testing is used to define combinations of inputs (e.g., valid and invalid comments) and the corresponding outputs, such as successful addition or error messages.

Conditions	TC1	TC2	TC3	TC4
C1: Comment is empty	T	-	-	-
C2: Comment exceeds 500 characters	-	T	-	-
C3: Comment contains unsupported characters	-	-	T	-
C4: Valid comment	-	-	-	T
Actions				
E1: Error message "Comment cannot be empty."	T	-	-	-
E2: Error message "Comment exceeds maximum length of 500 characters."	-	T	-	-
E3: Error message "Comment contains unsupported characters."	-	-	T	-
E4: Error message "Comment added successfully."	-	-	-	T

## Insert Photo and Video

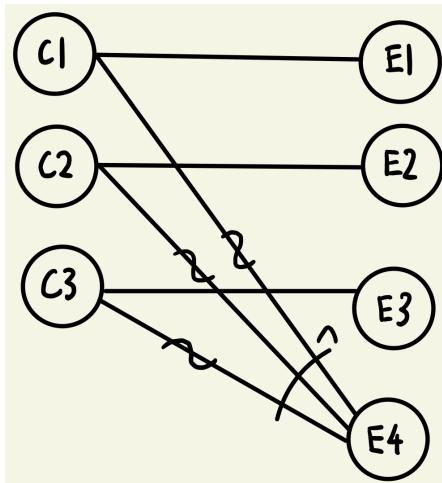
The Insert Photo and Video feature allows users to attach media to their comments while ensuring compliance with specific validation rules. Supported photo formats include png, jpg, and jpeg, while videos must be in mp4 format. File sizes must not exceed 5 MB for photos and 50 MB for videos, and at least one file must be selected before uploading.

## Cause-Effect Graphing

Cause-Effect Graphing is used to classify the input for the Insert Photo and Video feature into valid and invalid ranges. It helps identify scenarios that generate appropriate error messages for unsupported formats, oversized files, or missing inputs, ensuring the system responds correctly under all conditions. This technique evaluates the functionality by mapping input conditions such as file format, size, and presence to corresponding outcomes, ensuring robust validation and user-friendly error handling.

Causes	Effects
C1: Valid photo format (png, jpg, jpeg)	E1: "E1: Photo uploaded"

C2: Invalid format (unsupported photo/video)	E2: Error message "Unsupported format"
C3: File size exceeds 5 MB (Photo)	E3: Error message "File size exceeded"
C4: File size exceeds 50 MB (Video)	E4: Error message "Missing file"
C5: No file selected	E5: "Video uploaded"
C6: Valid video format (mp4)	



## Decision Table

Furthermore, Decision Table testing is used to map multiple input conditions (e.g., file format, size, and presence) to expected behaviors, identifying cases that result in successful uploads or error notifications. This approach ensures robust functionality and enhances the user experience.

Conditions	TC1	TC2	TC3	TC4	TC5
C1: Valid Photo Format	T	F	T	-	-
C2: Valid Video Format	-	F	T	T	-
C3: File Size ≤ 5 MB (Photo)	T	T	F	-	-
C4: File Size ≤ 50 MB (Video)	-	T	F	T	-
C5: No file selected	-	-	-		T
Actions					
E1: "Photo uploaded"	T	-	-	-	-
E2: Error message "Unsupported format."	-	T	-	-	-

E3: Error message "File size exceeded"	-	-	T	-	-
E4: "Video uploaded"	-	-	-	T	-
E5: Error message "Missing file"	-	-	-	-	T

## 1.5.2 Test Entry Criteria and Test Exit Criterias

### 1.5.2.1 Test Entry Criteria

For the purpose of testing the modules and functionalities in the REDnote mobile application, there are some criterias that must be fulfilled before the testing team can start executing all the test cases. Once all the test entry criterias are prepared, the testing team can only start testing the application based on the black-box testing techniques planned.

- Test Plan
  - Testing objectives and scopes are identified.
  - Testing activities are scheduled.
  - Resources estimation is planned.
  - Testing items are prepared.
  - Black-box testing techniques are identified.
- Test Cases
  - Test cases for all testing items are identified.
  - Expected results for each test case are prepared.
- Test Environment
  - Hardware
    - Mobile Devices
      - At least one Android device which has fulfilled specification requirements is prepared for testing.
      - At least one iPhone device which has fulfilled specification requirements is prepared for testing.
      - At least one iPad device which has fulfilled specification requirements is prepared for testing.
      - At least one laptop device which has fulfilled specification requirements is prepared for testing REDnote mobile application.
    - Network Devices
      - One Wi-Fi router is prepared for providing Internet access to testing devices.
  - Software
    - The specified version of REDnote mobile application is installed in all mobile devices (Android device, iPhone device and iPad device)
  - Test Data
    - Combinations of test data for all test cases are prepared including valid and invalid data.
  - Testing Site
    - At least 3 sockets are prepared for electrical power supply.

- At least 2 desks and 3 chairs are prepared.
  - At least one physical test lab is prepared.
  - All required equipment is installed and placed within each physical test lab.
- Software Testing Tool
  - Automation Anywhere Robotic Process Automation tool is installed in each testing laptop.
- Availability of Tester
  - At least two testers must be present during the execution of each test case to ensure proper validation and verification.

### **1.5.2.2 Test Exit Criteria**

Apart from test entry criteria, test exit criteria is also an important benchmark to decide whether the testing on REDnote mobile application is successful, completed and enough. After listing down all the test exit criteria, the testing team is able to determine whether the software testing is considered as completed by checking whether all the criterias is fulfilled. Meanwhile, it can also help ensure the testing process has been executed thoroughly and complied with the project's goals.

- All the designed test cases have been executed at least one time.
- The percentage of passed test cases has been achieved 97% or more.
- The allowed percentage of failed test cases is lower than 3%.
- No defects in high-severity functionality are found.
- The allowed percentage of medium-severity defects is lower than 5% and these defects must not impact the normal operation of the software.
- The allowed percentage of low-severity defects is lower than 10% and these defects must not impact the normal operation of the software.
- All the test cases' results and test execution status summary report are prepared.

### 1.5.3 Test Environment Requirement

Test environment is a crucial and fundamental part before test execution. It must be prepared well so all the test cases can be smoothly conducted. Meanwhile, a setup testing environment can promise accurate results of test cases because it provides a stable and appropriate environment for the testing team to conduct the software testing. Thus, accurate results obtained from test cases execution can prevent resource wastages and help the testing leader to identify the hidden defects in the software functionalities.

#### Hardware

Android Device	<ul style="list-style-type: none"><li>● Android OS Version: Android 5.0 or later</li><li>● RAM: 6 GB or higher</li><li>● Storage: 64 GB or higher</li><li>● Network connectivity:<ul style="list-style-type: none"><li>○ Wi-Fi: 2.4 GHz and 5 GHz</li><li>○ Cellular: 3G, 4G LTE and 5G support</li></ul></li></ul>
iPhone Device	<ul style="list-style-type: none"><li>● iOS Version: iOS 12.0 or later</li><li>● RAM: 4 GB or higher</li><li>● Storage: 64 GB or higher</li><li>● Network connectivity:<ul style="list-style-type: none"><li>○ Wi-Fi: 2.4 GHz and 5 GHz</li><li>○ Cellular: 3G, 4G LTE and 5G support</li></ul></li></ul>
iPad Device	<ul style="list-style-type: none"><li>● iPad Version: iPadOS 12.0 or later</li><li>● RAM: 4 GB or higher</li><li>● Storage: 64 GB or higher</li><li>● Network connectivity:<ul style="list-style-type: none"><li>○ Wi-Fi: 2.4 GHz and 5 GHz</li><li>○ Cellular: 3G, 4G LTE and 5G support</li></ul></li></ul>
Laptop	<ul style="list-style-type: none"><li>● OS: Windows 10 or above</li><li>● RAM: 6 GB or higher</li><li>● Storage: 512 GB or higher</li><li>● Network connectivity:<ul style="list-style-type: none"><li>○ Wi-Fi: 2.4 GHz and 5 GHz</li></ul></li></ul>
Router	<ul style="list-style-type: none"><li>● Wi-Fi 5 (802.11ac) or above</li><li>● Support 2.4 GHz and 5 GHz Wi-Fi</li><li>● Able to cover wide range of devices</li></ul>

## Software

REDnote Mobile Application	<ul style="list-style-type: none"><li>● Installed via Google Play Store or App Store</li><li>● Version<ul style="list-style-type: none"><li>○ Android: 8.47.987</li><li>○ iOS: 8.66</li><li>○ iPadOS: 8.66</li></ul></li></ul>
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## Software Testing Tool

Automation Anywhere	<ul style="list-style-type: none"><li>● A Robotic Process Automation (RPA) tool used for testing the functionalities in REDnote Mobile Application</li></ul>
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## Testing Site

Physical Test Lab	<ul style="list-style-type: none"><li>● 3 sockets or more for supplying power to network devices and mobile devices</li><li>● At least 2 desks and 3 chairs for testers</li></ul>
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### 1.5.3.1 Robotic Process Automation (RPA) Tool

#### Introduction to Automation Anywhere

Automation Anywhere is a leading robotic process automation (RPA) platform that enables businesses to automate repetitive, rule-based tasks. Automation Anywhere uses bots to help businesses cut expenses, decrease errors, and increase operational efficiency. The platform offers intelligent automation solutions for a range of sectors by combining machine learning (ML) and artificial intelligence (AI) capabilities.

#### User Manual (How to install or register)

The screenshot shows a registration form titled "Get Community Edition FREE". It highlights three benefits: "No credit card required", "Access to A-People community", and "Free learning resources". Below this, a message says "Please fill out this form to set up your free account." The form contains several input fields: "First Name" and "Last Name" (both marked with an asterisk), "Business Email" and "Phone Number", "Company Name" and "Number of Employees" (with a dropdown arrow), "Job Level" and "Job Function" (both with dropdown arrows), and "Country/Region" (with a dropdown arrow). At the bottom left, there's a note about terms and conditions, and a checkbox labeled "I have read and accept the Community Edition Terms and Conditions." A large orange button at the bottom right says "GET FREE COMMUNITY EDITION".

In order to registering the Automation Anywhere RPA tool, we must fill in the necessary fields:

- First Name
- Last Name
- Business Email
- Phone Number
- Company Name
- Number of Employees
- Job Level
- Job Function
- Country/Region

After filling all the required fields, click on the “GET FREE COMMUNITY EDITION” button. The system will send an email inbox to the email address registered for a few minutes.

---

Hi Kengloon,

The email address you just used to sign up for Community Edition of Automation Anywhere Enterprise has already been used. Please check your spam folder for a Welcome Email.

**Control Room URL:** <https://community.cloud.automationanywhere.digital/>  
**Username:** siakl-wm22@student.tarc.edu.my  
**Password:** Your temporary login is valid for 24 hours. Log in now to set your password!

Visit the Community Edition [Resource Center](#) for how-to videos, guides, and other useful resources for getting started.

[Register](#) for A-People, the world's largest RPA community, to connect and share with RPA practitioners and experts worldwide. Need additional help and support? [Email us](#).

We welcome your feedback. Please [share your thoughts](#) about Community Edition with us.

Happy bot building!

The Automation Anywhere Team

After receiving the email inbox as shown above, click on the Control Room URL hyperlink. Then, login with the Username given and set the password for the account.

## How Automation Anywhere Work (Upload Comment function)

+ Create ▾

In order to test a function, we need to create a Task Bot for each function at first every time.

Create Task Bot

Use a Task Bot for desktop and cloud applications. It can be invoked from a Process or another Task Bot.

Name	Description (optional)
Testing123	
Maximum = 50 characters	Maximum = 255 characters
Folder	<input type="button" value="Choose..."/>
\Bots	<input type="button" value="i"/>

Cancel      Create & edit

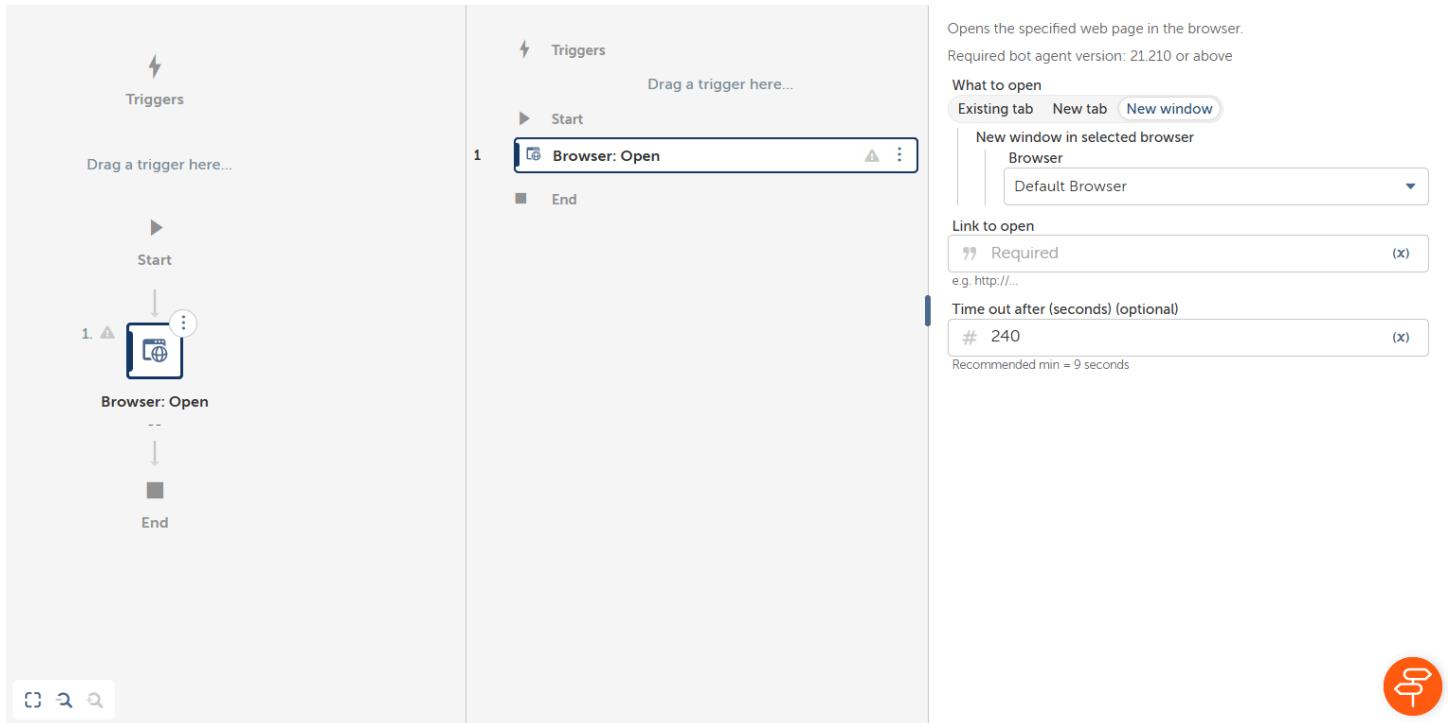
System will ask for filling the name (required) and description (optional) input field. After filling all the required fields, click on the “Create & Edit” button.

The screenshot shows the Automation Anywhere Community Edition interface. The left sidebar has a dark theme with icons for Explore, Home, Automation, AI, Activity, Manage, and Administration. The Automation section is selected. The main area is titled "Automation" and shows a list of "Files and folders (5)". A search bar at the top right includes a "Search within subfolders" checkbox, a dropdown for "Name", and a "Search" input field. Below the search bar is a table with columns: Type, Name, Folder path, Status, Size, Last modified, and M. The table lists five entries: a "Folder" named "Document Workspace Processes" (Bots), a "Folder" named "Sample\_bots" (Bots), a "Task Bot" named "Login\_Bot" (Bots), a "Task Bot" named "Testing" (Bots), and a "Task Bot" named "Testing123" (Bots). At the bottom of the table is a "100 per page" dropdown. The top right of the interface has a yellow banner with the text "Upgrade to Enterprise" and "Advanced automation capabilities to unleash your organization's full potential." There are also "Create" and "Manage" buttons.

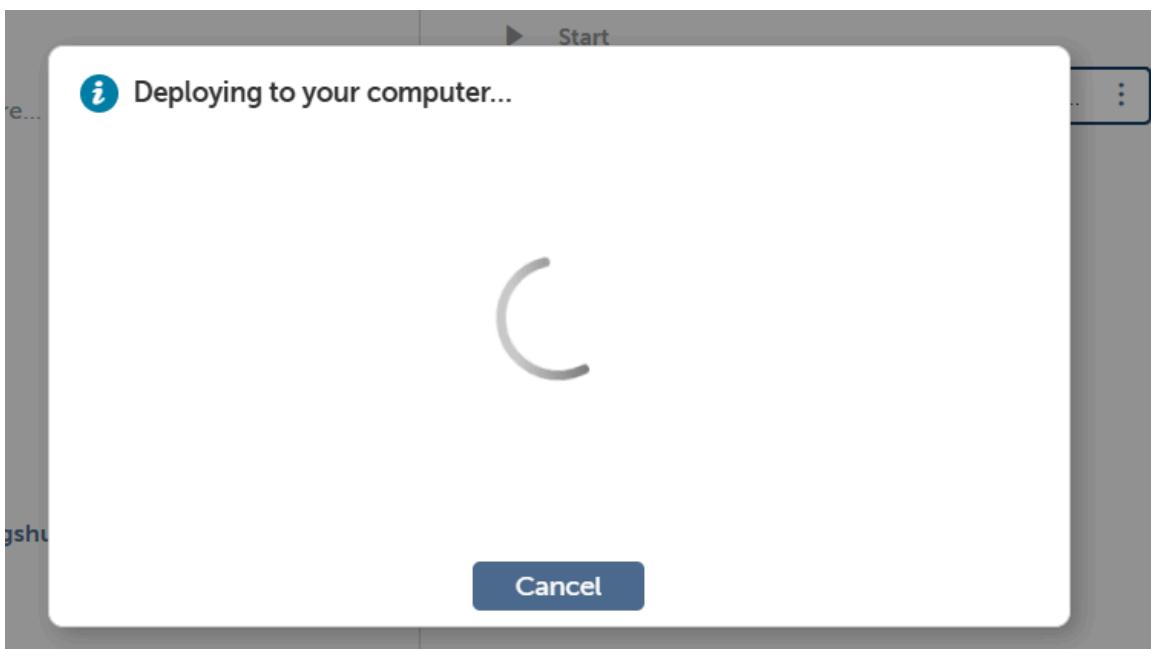
After the task bot is created, click on the Automation panel on the left sidebar. The Automation List will be shown and the created task bot will be listed in the Automation Listing.

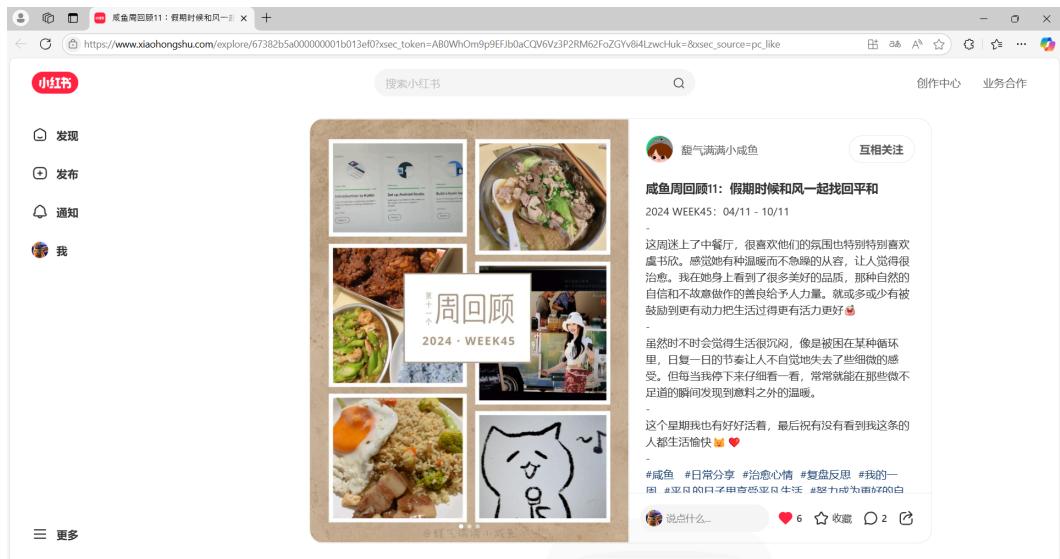
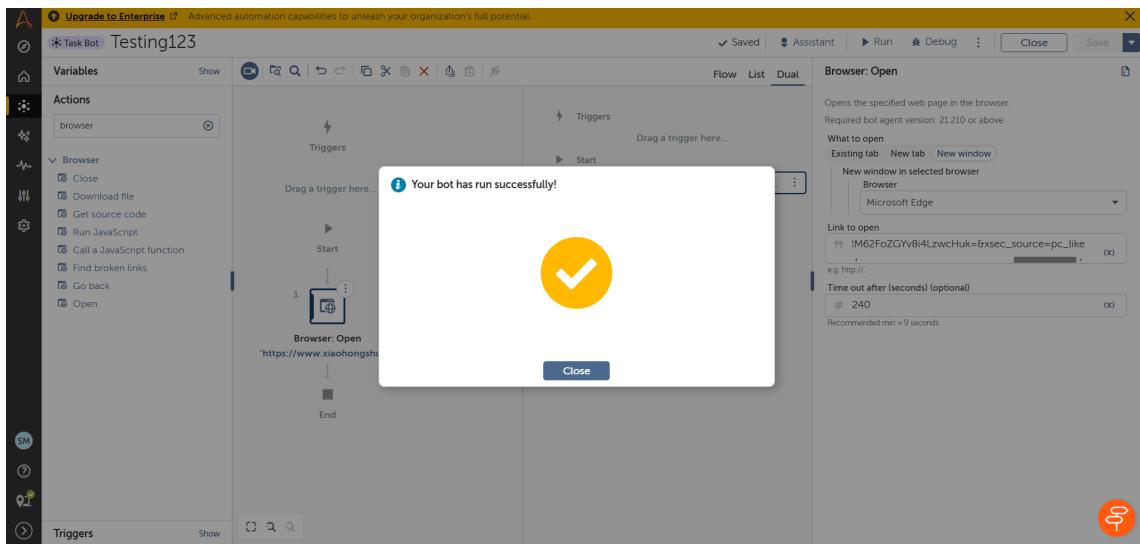
The screenshot shows the "Actions" sidebar. At the top is a search bar containing the text "browser". Below it is a list of actions under the heading "Browser". The "Close" action is highlighted with a yellow border. Other actions include Download file, Get source code, Run JavaScript, Call a JavaScript function, Find broken links, Go back, and Open. At the bottom of the sidebar are two buttons: "Triggers" and "Show".

Firstly, Go for the action sidebar and search “Browser”. Then, select the sub-option named “Open” under the “Browser” drop-down list.



After the action is added, select the browser to be used such as “Microsoft Edge” and enter the website link to be tested in the Browser input field. Then, click on the “Save” button on the top right corner of the page and click on the “Run” button at the top panel.





After the “Run” button is clicked, the system will deploy the testing on the computer. Then, it will open a new window and navigate to the testing page based on the URL entered during the previous steps.

**Variables** Show instant Run Debug ... Cancel Save ▾

**Actions**

recorder (x)

▼ Process Discovery

- Process Recorder Start Command

▼ Recorder

- Capture

**Recorder: Capture** i

Record interactions with UI elements such as click, read, and write.  
Required bot agent version: 21.210 or above

**Window** Browser Application Variable

Required (x)

Resize window  
May improve bot accuracy

**Main** **Anchor**

Capture object ▼  
Before you can capture an object you must first choose a window.

Set system time out Basic Advanced

Wait for system response (in seconds)  
# 15 (x)

Save the outcome to a variable ▼ (x) +

**Triggers** Show ?



Secondly, go back to the action sidebar and search for the Recorder action and select the sub-option named “Capture” under the “Recorder” dropdown list. Then, the system will ask for filling the field such as browser used and URL to be tested.

**Recorder: Capture**

Record interactions with UI elements such as click, read, and write.

Required bot agent version: 21.210 or above



**Window**

**Browser** Application Variable

咸鱼周回顾11：假期时候和风一起找回平和 - 小红书 ▾ C

Browser title

**String** Regex

咸鱼周回顾11：假期时候和风一起找回平和 - 小红书

Use \* or ? as a wildcard

Case sensitive

Link of web page

<https://www.xiaohongshu.com/explore/67382b5a00000>

Browser application

Microsoft Edge

Resize window

May improve bot accuracy

Main Anchor

**Capture object** ▾

Click "Capture object" to choose an object from the window.



Set system time out

**Basic** Advanced

Main Anchor

Recapture object ▾

Preview



Action to take on object

Click

Run in background

A person who is logged in on the device can perform tasks while this action takes place

Object properties (9 of 49)

Enter the URL of the page to be tested and click on the “Capture Object” button. Then, the system will navigate to the page to be tested. Click to capture the object which will be triggered by an action that will be specified later.

Main Anchor

Recapture object ▾

Preview

Action to take on object

Set text

Keystrokes

- Enter keystrokes here or use the on-screen keyboard
 

# 123213 (x)
- Select a credential
 

Credential
Variable
Choose...

Required

Time between keystrokes (milliseconds) (optional)

# (x)

Time=0 pastes string into object (default). Time>0 simulates keystrokes

Object properties (5 of 62)

Name	Value
Technology type	Microsoft UI Automation (CCS)

Preview

Action to take on object

Click

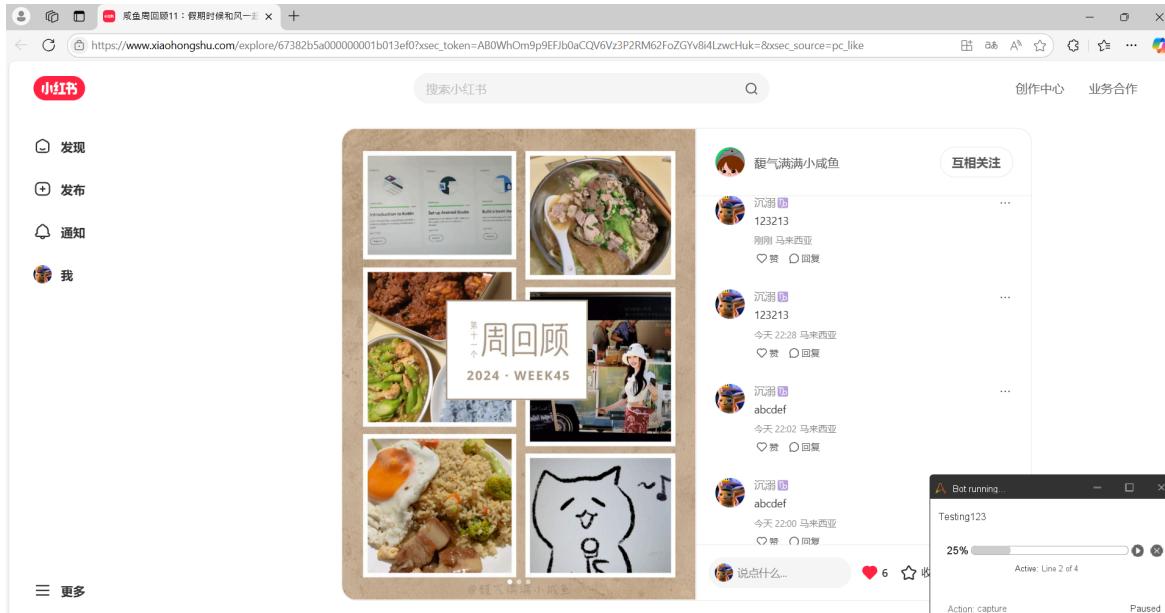
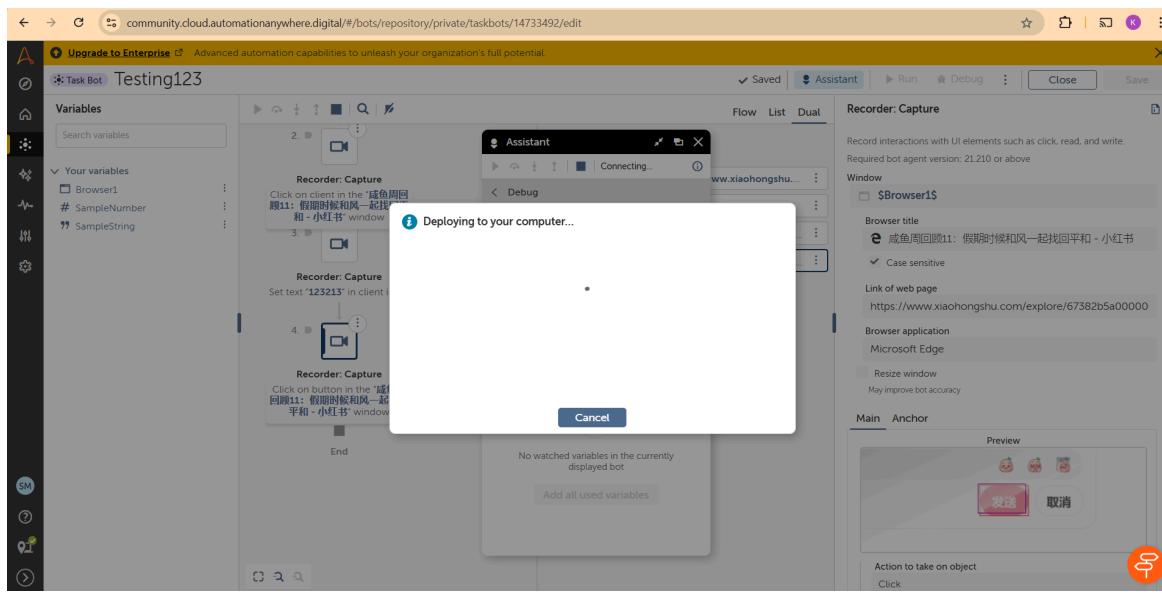
Run in background  
A person who is logged in on the device can perform tasks while this action takes place

Object properties (10 of 49)

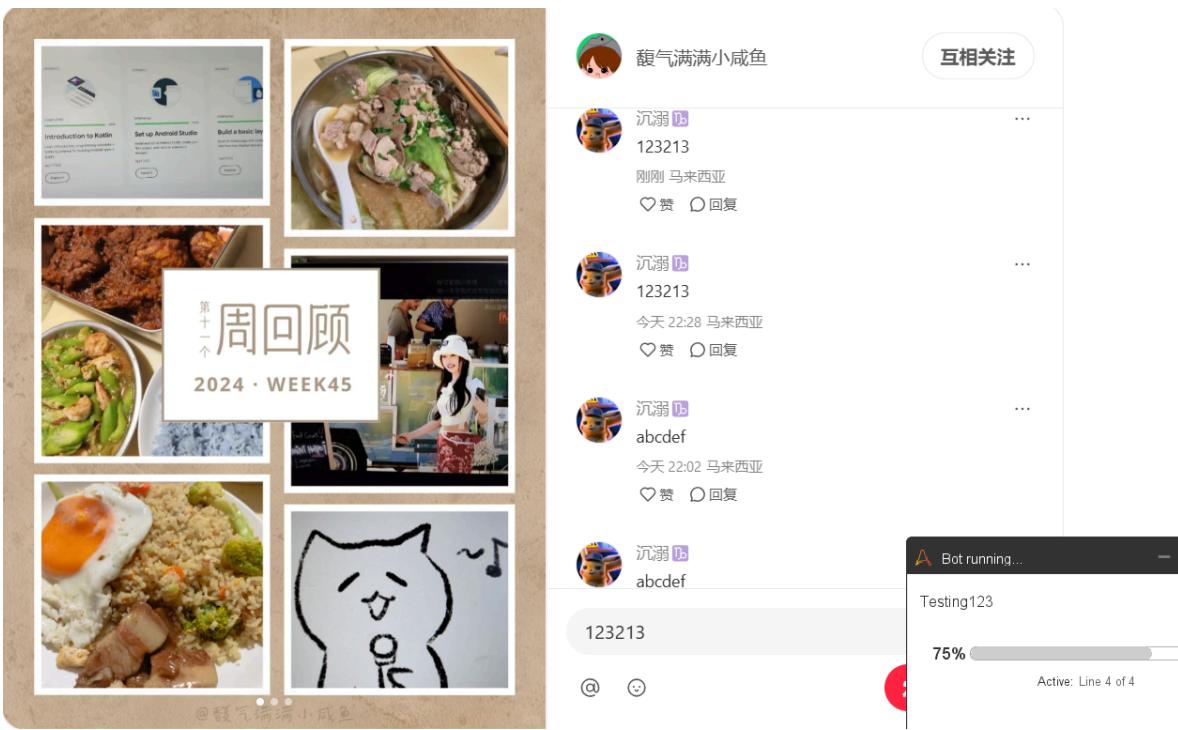
Name	Value
Browser type	Microsoft Edge
Technology type	HTML
Control type	Button
HTML Tag	BUTTON <span style="font-size: small;">(x)</span>
DOMXPath	//div[@id='noteContainer'] <span style="font-size: small;">(x)</span>

Run

Repeat the same steps to capture all the objects to be triggered by actions. Then, select the action to be taken on the object and specify the action detail. After completing all the setups, click on the “Save” button and “Run” button.



The system will start to deploy to test the action arranged.



Finally, the test result will be shown.

## **Features of Automation Anywhere RPA Tools**

### **User-Friendly Interface:**

- Drag-and-drop functionality for designing and deploying bots.
- Easy-to-use control room for bot management.

### **AI Integration:**

- Intelligent automation with natural language processing (NLP) and optical character recognition (OCR).

### **Bot Store:**

- A library of pre-built bots and templates for rapid deployment.

### **Scalability:**

- Supports scaling from a single bot to thousands of bots across an enterprise.

### **Security:**

- Robust security features such as role-based access control, encryption, and audit trails.

## **Advantage of the Automation Anywhere RPA Tools**

### **Increased Efficiency:**

- Automates repetitive tasks, allowing employees to focus on strategic initiatives.

### **Cost Savings:**

- Reduces labor costs and operational expenses by automating processes.

### **Error Reduction:**

- Minimizes human errors in data entry and processing tasks.

### **Scalability:**

- Easily scales to handle increasing workloads or expand automation across departments.

### **Integration Capabilities:**

- Seamlessly integrates with existing enterprise systems like ERP, CRM, and legacy software.

## **Disadvantages of Automation Anywhere**

### **Initial Investment:**

- High upfront costs for licensing and implementation may be a barrier for small businesses.

### **Complexity in Setup:**

- Requires technical expertise for implementation and bot creation.

### **Maintenance Effort:**

- Regular updates and maintenance of bots are necessary to ensure smooth operation.

### **Limited to Rule-Based Processes:**

- Struggles with automating tasks that require judgment or high-level decision-making.

### **Dependency on IT Infrastructure:**

- Performance can be impacted by infrastructure limitations or downtime.

## **Conclusion**

Automation Anywhere is a powerful RPA tool designed to transform business operations by automating repetitive and time-consuming tasks. Its advanced features, such as AI and analytics integration, make it a comprehensive solution for organizations aiming to improve efficiency, reduce costs, and ensure accuracy. However, while the platform offers immense benefits, businesses must also consider the challenges of initial investment, technical complexity, and maintenance.

When implemented correctly, Automation Anywhere can drive digital transformation and empower organizations to achieve operational excellence, making it a valuable asset for enterprises seeking a competitive edge in today's fast-paced business environment.

### 1.5.3.2 Test Data

#### Login Module

##### Login

Field Name	Description	Data Type	Field length	Test Data	
				Valid Data	Invalid Data
Phone Number	A valid phone number with proper format and have been registered.	String	20	<ul style="list-style-type: none"> <li>“123456789”</li> </ul>	<ul style="list-style-type: none"> <li>“1”</li> <li>“123”</li> </ul>
Privacy Policy Checkbox	Checkbox must be checked to proceed.	Boolean	-	true	false
OTP (One-Time Password)	A valid 6-digit Real-Time OTP for authentication.	String	6	<ul style="list-style-type: none"> <li>Real-Time OTP</li> </ul>	<ul style="list-style-type: none"> <li>“12344”</li> </ul>

##### Register Function

Field Name	Description	Data Type	Field length	Test Data	
				Valid Data	Invalid Data
Phone Number	A valid phone number with proper format and have not been registered.	String	20	<ul style="list-style-type: none"> <li>“126677895”</li> </ul>	<ul style="list-style-type: none"> <li>“1288”</li> </ul>
Privacy Policy Checkbox	Checkbox must be checked to proceed.	Boolean	-	true	false
OTP (One-Time Password)	A valid 6-digit OTP for authentication.	String	6	<ul style="list-style-type: none"> <li>Real-Time OTP</li> </ul>	<ul style="list-style-type: none"> <li>“283718”</li> </ul>

## Chat Module

### Group Voting

Field Name	Description	Data Type	Field Length	Test Data	
				Valid Data	Invalid Data
Group Voting Title	Title of the group voting event	varchar	80	<ul style="list-style-type: none"> <li>"This is a group voting test title with exactly 80 characters in length to verify limits."</li> </ul>	<ul style="list-style-type: none"> <li>• <i>NULL</i> (Group voting title cannot be empty)</li> </ul>
Number of Option	Amount of available vote option in group voting event	integer	-	<ul style="list-style-type: none"> <li>• 2</li> </ul>	None
Option Name	Representation name of a vote option	varchar	40	<ul style="list-style-type: none"> <li>"Option name with exactly 40 characters allowed input length"</li> <li>"Vote for the best holiday destination"</li> </ul>	<ul style="list-style-type: none"> <li>• "Ensuring a Sustainable Future for Our Communities and Planet" (only maximum 40 characters are allowed)</li> </ul>

### Group Check-In

Field Name	Description	Data Type	Field Length	Test Data	
				Valid Data	Invalid Data
Check-In Title	Title of group check-in event	varchar	12	<ul style="list-style-type: none"> <li>"Meeting"</li> </ul>	<ul style="list-style-type: none"> <li>• <i>NULL</i> (Check-in title cannot be empty)</li> <li>• "Daily Status Update" (Only maximum 12 characters are allowed)</li> </ul>
Check-In Description	Introduction of the group check-in event	varchar	100	<ul style="list-style-type: none"> <li>"Group check-in for a team meeting."</li> </ul>	<ul style="list-style-type: none"> <li>• <i>NULL</i> (Check-in description cannot be empty)</li> <li>• "Checked in to the group for today's meeting, ready to collaborate and share updates on</li> </ul>

					ongoing projects, discuss new initiatives, and contribute to team goals with everyone present." (Only maximum 100 characters are allowed)
Check-In Format	When user is checking in, the check-in details should be filled in according to the check-in format specified	varchar	100	<ul style="list-style-type: none"> <li>"Location: Office, Time: 10:00 AM"</li> </ul>	<ul style="list-style-type: none"> <li>• <i>NULL</i> (Check-in format cannot be empty)</li> <li>• "Name: [Your Name] Current Status: [Brief update on your work or personal status] Tasks Completed: [List of completed tasks or progress made] Tasks in Progress: [List of tasks you're working on] Challenges/Blo ckers: [Any issues you're facing] Goals for Today: [What you aim to achieve today] Additional Comments: [Any other updates, thoughts, or reminders for the group]" (Only maximum 100 characters are allowed)</li> </ul>
End Date	The end date of the group	date	-	<ul style="list-style-type: none"> <li>• "2025-2-15"</li> </ul>	None

	check-in event				
--	----------------	--	--	--	--

## Creator Module

### Publish Post

Field Name	Description	Data Type	Field Length	Test Data	
				Valid Data	Invalid Data
Image Format	Format of the uploaded image	File	-	<ul style="list-style-type: none"> <li>"image.png"</li> </ul>	<ul style="list-style-type: none"> <li>"image.gif"</li> </ul>
Image Size	Size of the uploaded image file	File	$\leq 20 \text{ MB}$	<ul style="list-style-type: none"> <li>5 MB</li> </ul>	<ul style="list-style-type: none"> <li>NULL (must have either picture(s) or video)</li> <li>25 MB</li> </ul>
Number of Images	Number of images uploaded in a single post	Integer	$\leq 18$	<ul style="list-style-type: none"> <li>10</li> </ul>	<ul style="list-style-type: none"> <li>19</li> </ul>
Video Format	Format of the uploaded video	File	-	<ul style="list-style-type: none"> <li>"video.mp4"</li> </ul>	<ul style="list-style-type: none"> <li>"video.zip"</li> </ul>
Video Size	Size of the uploaded video file	File	$\leq 20 \text{ GB}$	<ul style="list-style-type: none"> <li>5 GB</li> </ul>	<ul style="list-style-type: none"> <li>NULL (must have either picture(s) or video)</li> <li>25 GB</li> </ul>
Video Duration	Duration of the uploaded video (in minutes)	Integer	$\leq 60$	<ul style="list-style-type: none"> <li>30</li> </ul>	<ul style="list-style-type: none"> <li>65</li> </ul>
Caption Length	Length of the caption text	varchar	0-20	<ul style="list-style-type: none"> <li>"Tea time.."</li> </ul>	<ul style="list-style-type: none"> <li>"This is a caption exceeding the character limit of 20"</li> </ul>
Description Length	Length of the main body description	varchar	0–1000	<ul style="list-style-type: none"> <li>"Detailed post description within 1000 characters"</li> </ul>	<ul style="list-style-type: none"> <li>"Lorem ipsum odor amet, consectetuer adipiscing elit. Libero ex magna cubilia inceptos congue. Tempus sem taciti convallis dis, blandit ut. Integer porta ligula potenti ultricies facilisis tellus et. Dis est auctor suspendisse sodales finibus congue nam potenti pretium. Massa lacus quisque elit sodales finibus magna duis quis. Tortor cursus tempus conubia orci leo per convallis cursus. Nibh in tincidunt aliquam facilisi maximus diam ornare. Sagittis dictum aliquam</li> </ul>

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### Schedule Posting

Field Name	Description	Data Type	Field Length	Test Data	
				Valid Data	Invalid Data
Time	Scheduled time for the post (Based on real time; Select time $\geq$ Current time)	Time	-	<ul style="list-style-type: none"> <li>(valid date selected) 00:00</li> </ul>	<ul style="list-style-type: none"> <li>(invalid date selected) 00:00</li> </ul>

## Comment Management Module

### Add Comment

Field Name	Description	Data Type	Field length	Test Data	
				Valid Data	Invalid Data
Comment Text	Check the command is empty or not	Character	≤ 395	<ul style="list-style-type: none"> <li>• "Hello World"</li> <li>• "Great Post!"</li> </ul>	<ul style="list-style-type: none"> <li>• ""(empty)</li> </ul>
Special Characters/Hum alirity world	Special characters in the comment.	Character	≤ 395	<ul style="list-style-type: none"> <li>• "123"</li> <li>• "Hello World"</li> </ul>	<ul style="list-style-type: none"> <li>• "😊✨🚫"</li> <li>• "*****"</li> </ul>
Comment Length	Check Length of the comment.	Character	≤ 395	<ul style="list-style-type: none"> <li>• For students who are using my demo email accounts and app passwords, here is the updated one. There were some issues with my demo accounts yesterday, and I got to reset the app passwords. NOTE: You are advised to create your own demo account and app password for sending emails. However, I got to know23113123</li> </ul>	<ul style="list-style-type: none"> <li>• For students who are using my demo email accounts and app passwords, here is the updated one. There were some issues with my demo accounts yesterday, and I got to reset the app passwords. NOTE: You are advised to create your own demo account and app password for sending emails. However, I got to know23113123</li> </ul>

### Insert Photo and Video Function

Field Name	Description	Data Type	Field length	Test Data	
				Valid Data	Invalid Data
File Type	The type/format of the file.	String	-	<ul style="list-style-type: none"> <li>• "Photo.png"</li> <li>• "Photo.jpg"</li> <li>• "Photo.jpeg"</li> <li>• "Photo.mp4"</li> <li>• "photo.mov"</li> </ul>	<ul style="list-style-type: none"> <li>• "Photo.txt"</li> <li>• "photo.exe"</li> </ul>

File Size	Size of the file in MB.	Integer	-	<ul style="list-style-type: none"> <li>● 5 MB</li> <li>● 10 MB</li> <li>● 15 GB</li> <li>● 20 GB</li> </ul> <p><math>\leq 20</math> MB (images)  <math>\leq 20</math> GB (videos)</p>	<ul style="list-style-type: none"> <li>● "25 MB"</li> <li>● "25 GB"</li> </ul> <p><math>&gt; 20</math> MB (images)  <math>&gt; 20</math> GB (videos)</p>
File Count	Number of files being uploaded.	Integer	$\leq 9$ for video, $\leq 9$ images	<ul style="list-style-type: none"> <li>● "1 video/photo"</li> <li>● "2 video/photo"</li> <li>● "3 video/photo"</li> <li>● "4 video/photo"</li> <li>● "5 video/photo"</li> <li>● "6 video/photo"</li> <li>● "7 video/photo"</li> <li>● "8 video/photo"</li> <li>● "9 video/photo"</li> </ul>	<ul style="list-style-type: none"> <li>● "10 video/photo"</li> </ul>

## 1.6 Testing Activities and Estimates

### Requirement Analysis

In the requirements analysis phase, the testing team is expected to **understand the key features** of the RedNote social media application, especially the client-side aspects to be tested. In the absence of a formal Software Requirements Specification (SRS), the test team **explores** the functionality of the system through **client-provided materials** such as interface designs, mockups, walkthroughs, and demo videos. For example, if the RedNote application allows users to post, edit, share, and comment on notes, the test team would identify these features as the core functionality to be tested. The testing team will explore how users interact with these features to ensure that the workflow is correct, such as being able to successfully create and edit notes, share notes with others, and leave comments. Other features to be analyzed include user profile management, such as updating profile pictures or adding contact information, as well as ensuring that the system displays notes and interactions correctly in the user feed.

The team will **document assumptions** around how these features should work and any potential edge cases. For example, the team may assume that if a user shares a note, it should be visible to all of their followers, or that only authorized users can edit their posts. Any risks, such as usability issues, inconsistent performance across devices, or social media integration issues (e.g., sharing content outside of the app), will also be identified at this stage. Key deliverables include a prioritized list of features to test, a clear scope for each feature, and identified risks that could impact the overall user experience.

### Test Plan

In the test planning phase of the redNote social media application, the test team focuses on **creating a structured approach** to testing the identified client-side functionality. Based on the results of the requirements analysis phase, the test team will define the **test objectives, technique, scope and deliverables**. The test plan will outline which features of the redNote application need to be tested and prioritized based on business importance or user impact. For example, if the ability to publish and share notes is a core feature of the redNote platform, it will be prioritized for testing over other features such as updating profile information.

The team will also **determine the types of tests required** for each feature, such as functionality tests to check that creating, sharing, and commenting on notes works properly, or usability tests to evaluate how intuitive these features are for users. Compatibility tests will also be planned to ensure that the application works on different browsers and mobile devices. The team will plan performance tests to ensure that user information loads efficiently even with many posts, comments, and interactions.

In terms of deliverables, the test plan will include a testing schedule, resource allocation, and risk assessment to identify areas where testing may be challenging, such as complex user flows, third-party integrations, or unexpected system behavior under high load.

## **Test Case Development**

In the test case development phase, the test team will **design detailed test cases** for each of the functionalities identified during the requirements analysis phase and outlined in the test plan. For example, for the core functionality of publishing a post, the test team will create test cases to check user behavior when using valid text when creating a memo, using invalid inputs (e.g., empty fields) when attempting to create a post, or when attempting to add an attachment (e.g., an image or file). In addition, the test cases will verify that posts are displayed correctly in the user's feed and that shared posts are visible to other users. Each test case has specific steps, such as entering text into the note, selecting the user with whom to share the note, and clicking the publish button.

Test cases will also **include expected results**, such as verifying that the application displays a success message when a note is successfully posted or an error message when a user enters an invalid input. In addition, boundary tests will be performed to ensure that the system performs as expected under extreme conditions, such as when a user posts an extra-long note or uploads a large image.

## **Test Environment Setup**

In the test environment setup phase, the test team will focus on **preparing the environment needed** to perform testing of the RedNote social media application. This includes identifying the hardware and software required for testing. Since the focus of the project is on client-side testing, the team will need to ensure compatibility between various devices and browsers. Browser automation tools and performance testing tools and other testing tools will be selected for functional and load testing. The team will also need to estimate the budget for purchasing the necessary testing tools, licenses, and equipment. After identifying tools and resources, the team will set up the test environment by installing the required software, configuring browsers and devices, and ensuring that the test environment reflects the customer's intended usage conditions. The environment setup will be validated by running some initial tests to ensure that the configuration supports all planned test activities, such as ensuring that the RedNote application loads properly and that key features such as creating, sharing, and commenting on notes function as expected on different platforms.

## **Test Execution**

In the test execution phase, the test team will begin **executing test cases** based on the **prioritization of features**. Core functionality such as creating, editing, sharing notes, and interacting with user feeds will be tested first to ensure that these essential components of the RedNote application are working as expected. The team will organize test tasks according to the importance of each feature, taking into account business priorities and impact on users. For example, ensuring that users can successfully publish and share notes will be prioritized over secondary features such as profile updates. The testing team will **execute predefined test cases, document the results, and track any defects or issues** that arise during testing. During the testing process, the

team will **record the actual results** and compare them to the expected results. If any discrepancies are found, they will be documented for further analysis and follow-up. After executing the test cases, the team will check the results to ensure that all test cases have been executed. Any failed test cases will be revisited to identify root causes and clarify next steps to ensure proper coverage of client functionality and problem identification.

### **Test Cycle Closure**

In the test cycle closure phase, the test team **confirms** that **all test activities** have been **completed** by verifying that all planned test cases have been executed and that core test objectives have been met. Then **prepare the test status execution summary report** based on the number of test cases that passed, failed, or were blocked. In the case of the RedNote social media application, this includes ensuring that client-side features such as publishing, editing, and sharing notes have been tested and are functioning properly. For example, the team verifies that notes shared by users display correctly in their followers' feeds across all supported browsers and devices.

The team also **validates test exit criteria** to confirm that key features work as expected. For example, if profile updates such as changing a profile picture or editing contact information were tested, the team **ensured** that these **workflows** were **executed smoothly** and without major issues. Any challenges, such as browser-specific display errors or unexpected usability issues, are **documented to improve future testing efforts**.

## 1.7 Staffing

### 1.7.1 Roles, Activities, and Responsibilities

Role	Team Member	Responsibilities	Activities
Test Manager	Lim Jun Wei	<p>Test manager is responsible for <b>planning the overall and major testing strategies in the testing project.</b></p> <p>He also focuses on guiding the whole testing team to effectively and efficiently achieve the right objectives. In order to overcome the possible project risks, he also takes part in assessing the potential risks and developing the mitigation strategies. Besides, he also participates in reviewing the overall testing reports when conducting discussion with stakeholders.</p>	<ul style="list-style-type: none"><li>• Develop testing plan and strategies</li><li>• Distribute testing resources</li><li>• Supervise testing process</li><li>• Assess project risks and develop mitigation plan</li><li>• Oversee testing reports and results</li><li>• Update project progress with client</li></ul>
Test Lead	Ong Yi Xin	<p>Test lead is responsible for <b>overseeing the execution of tests, managing day-to-day testing activities and leading test teams.</b></p> <p>Test lead is more involved in the tactical aspects of testing, ensuring that test plans are executed effectively and efficiently. She will coordinate testing efforts, ensuring that test cases are executed correctly, and managing defects throughout the testing cycle.</p>	<ul style="list-style-type: none"><li>• Assign tasks to team members</li><li>• Monitor task completion and provide support</li><li>• Foster effective collaboration within the team.</li><li>• Review test cases for completeness and correctness</li><li>• Conduct retrospectives to review and improve testing processes.</li></ul>
Functional Test Analyst	Chia Ming Yi	<p>Functional Test Analyst is responsible for <b>ensuring that the software product meets the specified functional requirements.</b></p> <p>She will understand the functional aspects of the application before creating and executing functional test cases to validate that the software behaves as expected according to the functional specifications. She</p>	<ul style="list-style-type: none"><li>• Analyze functional requirements to understand expected application behavior.</li><li>• Design, execute, and document functional test cases to ensure thorough coverage.</li><li>• Collaborate with others to clarify requirements and resolve ambiguities.</li></ul>

		<p>also ensures that any defects found are documented and tracked to resolution.</p>	<ul style="list-style-type: none"> <li>• Report, track, and verify defects, ensuring timely resolution.</li> <li>• Review and refine test cases to maintain accuracy and alignment with requirements.</li> <li>• Update test cases as requirements evolve or new features are introduced.</li> <li>• Provide feedback to improve testability and enhance the testing process.</li> </ul>
Primary Tester	Sia Keng Loon	<p>The primary tester is in charge of carrying out test cases, identifying mistakes, and guaranteeing the quality of the system or product being tested. To accomplish the project's quality objectives, the primary tester works with the testing team, reports problems to developers, and validates functionalities.</p>	<ul style="list-style-type: none"> <li>• Execute test cases based on the test plan and strategy.</li> <li>• Identify, document, and report defects or bugs.</li> <li>• Perform functional, integration, and regression testing.</li> <li>• Verify fixes and validate defect resolution from the development team.</li> <li>• Maintain detailed test records, logs, and reports.</li> </ul>

## 1.8 Schedule

Phase	Subtask	Start Date	End Date	Person In Charge
Requirement Analysis	Understand key features of application	19/11/2024	21/11/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Chia Ming Yi</li> <li>• Sia Keng Loon</li> </ul>
	Identify application function	22/11/2024	23/11/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Chia Ming Yi</li> <li>• Sia Keng Loon</li> </ul>
Test Planning	Identify test scope, procedures, strategies and resources	24/11/2024	26/11/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Chia Ming Yi</li> </ul>
	Conclude test efforts	27/11/2024	28/12/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Sia Keng Loon</li> </ul>
	Schedule testing activities	29/11/2024	30/11/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Sia Keng Loon</li> </ul>
Test Case Development	Identify applicable black-box testing techniques	01/12/2024	02/12/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> <li>• Ong Yi Xin</li> <li>• Chia Ming Yi</li> </ul>
	Design login module test cases and expected results	03/11/2024	03/11/2024	<ul style="list-style-type: none"> <li>• Ong Yi Xin</li> </ul>
	Design chat module test cases and expected results	04/11/2024	04/11/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> </ul>
	Design creator module test cases and expected results	05/11/2024	05/11/2024	<ul style="list-style-type: none"> <li>• Chia Ming Yi</li> </ul>
	Design comment management module test cases and expected results	06/11/2024	06/11/2024	<ul style="list-style-type: none"> <li>• Sia Keng Loon</li> </ul>
	Prepare test data of login module	07/12/2024	08/12/2024	<ul style="list-style-type: none"> <li>• Ong Yi Xin</li> </ul>
	Prepare test data of chat module	07/12/2024	08/12/2024	<ul style="list-style-type: none"> <li>• Lim Jun Wei</li> </ul>

	Prepare test data of creator module	07/12/2024	08/12/2024	● Chia Ming Yi
	Prepare test data of comment management module	07/12/2024	08/12/2024	● Sia Keng Loon
Test Environment Setup	Identify hardware, software and testing tools	09/12/2024	10/12/2024	● Lim Jun Wei ● Ong Yi Xin
	Estimate budget	11/12/2024	12/12/2024	● Lim Jun Wei ● Ong Yi Xin
	Setup the environment	13/12/2024	15/12/2024	● Sia Keng Loon
Test Execution	Arrange the testing work based on priority of functionalities	16/12/2024	18/12/2024	● Lim Jun Wei ● Ong Yi Xin ● Chia Ming Yi ● Sia Keng Loon
	Execute and review test cases result of login module	19/12/2024	19/12/2024	● Lim Jun Wei
	Execute and review test cases result of chat module	20/12/2024	20/12/2024	● Sia Keng Loon
	Execute and review test cases result of creator module	21/12/2024	21/12/2024	● Ong Yi Xin
	Execute and review test cases result of comment management module	22/12/2024	22/12/2024	● Chia Ming Yi
Test Cycle Closure	Prepare test status execution summary report	23/12/2024	24/12/2024	● Lim Jun Wei ● Ong Yi Xin ● Chia Ming Yi ● Sia Keng Loon
	Verify test completion status	25/12/2024	26/12/2024	● Lim Jun Wei ● Ong Yi Xin
	Summarize test metrics and data	27/12/2024	28/12/2024	● Lim Jun Wei ● Ong Yi Xin
	Validate test exit criteria	29/12/2024	29/12/2024	● Lim Jun Wei ● Ong Yi Xin
	Plan testing process improvement	30/12/2024	30/12/2024	● Lim Jun Wei ● Ong Yi Xin

## 2. Test Case Specification

### 2.1 Overview

Before starting the test execution on different modules and functions, the test cases must be designed so that the testers are able to conduct the testing based on the detailed steps given in the test cases. For each module function, positive and negative test cases will be designed to test out the system behaviors under different scenarios and check whether each function has fulfilled the functional and non-functional requirements. Positive test cases focus on checking whether the system is working as expected. It shows that the system can handle valid input and produce the expected output. (Positive vs Negative vs Destructive Test Cases, 2022) For the negative test cases, the system function will be tested with invalid data or operation so it will be expected to fail. These test cases would make sure that the system is able to handle invalid input gracefully and produce error messages or other appropriate outputs when necessary. (Positive vs Negative vs Destructive Test Cases, 2022)

In every test case form, there are some inputs needed to be specified such as the short description, pre-condition, action, expected system response and post-condition. Short description shows the brief explanation of the module function to be tested to enable the tester to understand what the function is used for. Pre-condition specifies the requirement or situation that needs to be fulfilled before the function can be accessed. Action and the expected system response specify the user action which will be performed by the testers during test execution and the system feedback which will be performed by the system itself to respond to the user action. If the system response is the same as the expected outputs stated in the test case during test execution, it will be considered as passed and vice versa. After testing a series of user actions and expected system responses, the post-condition will specify the overall result of the test case after all the steps are taken.

In our test cases, we will be testing on different test cases for the application modules' functionalities:

- Login Module
  - Register function: 1 positive test case + 2 negative test cases
  - Login function: 1 positive test case + 1 negative test
- Chat Module
  - Group Voting function: 1 positive test case + 1 negative test case
  - Group Check-In function: 1 positive test case + 2 negative test cases
- Creator Module
  - Publish Post function: 2 positive test cases + 2 negative test cases
  - Schedule Posting function: 1 positive test case + 1 negative test case
- Comment Management Module
  - Add Comment function: 1 positive test cases + 3 negative test cases
  - Insert Photo and Video Function: 3 positive test cases + 2 negative test cases

## 2.2 References

- Positive vs Negative vs Destructive Test Cases. (2022, November 30). GeeksforGeeks. <https://www.geeksforgeeks.org/positive-vs-negative-vs-destructive-test-cases/>
- 小红书 - 你的生活指南. (n.d.). <https://www.xiaohongshu.com/explore>
- How to Register for a Xiaohongshu Account from Overseas Dragon Trail International. (n.d.). <https://dragontrail.com/resources/blog/how-to-register-for-a-xiaohongshu-account-from-overseas>

## 2.3 Test Cases

### Login Module

Test Case	
<b>Test Case #:</b> TC_LoginModule_Register_001	<b>Test Case Name:</b> User Register
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Login
<b>Design By:</b> Ong Yi Xin	<b>Design Date:</b> 03/12/2024
<b>Executed By:</b> Lim Jun Wei	<b>Execution Date:</b> 19/12/2024
<b>Short Description:</b> To test user register function with valid mobile number and valid Real-Time OTP.	

**Pre-conditions:** User must registered with mobile number that have not been registered

Step	Action	Expected System Response	Pass/ Fail	Comments
1	Navigate to register page <a href="https://www.xiaohongshu.com/explore">https://www.xiaohongshu.com/explore</a>	System displays register page	Pass	
2	Enter mobile number: 126677895		Pass	
3	Click register button	System send Real-Time OTP to the mobile number	Pass	
4	Checked Privacy Policy Checkbox		Pass	
5	Enter OTP:Real-Time OTP		Pass	
6	Click register button	User successfully register account	Pass	

**Post-conditions:**

Systems register a new account for user and redirect to home page.

## Test Case

<b>Test Case #:</b> TC_LoginModule_Register_002	<b>Test Case Name:</b> User Register
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Login
<b>Design By:</b> Ong Yi Xin	<b>Design Date:</b> 03/12/2024
<b>Executed By:</b> Lim Jun Wei	<b>Execution Date:</b> 19/12/2024
<b>Short Description:</b> To test user register function with invalid mobile number.	

### Pre-conditions: User must use mobile number for register

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to register page <a href="https://www.xiaohongshu.com/explore">https://www.xiaohongshu.com/explore</a>	System displays login page	Pass	
2	Enter mobile number: 1288		Pass	
3	Click register button	System display error message, "Verification sending failed"	Pass	

### Post-conditions:

System does not register account for user and stay at the register page

## Test Case

<b>Test Case #:</b> TC_LoginModule_Register_003	<b>Test Case Name:</b> User Register
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Login
<b>Design By:</b> Ong Yi Xin	<b>Design Date:</b> 03/12/2024
<b>Executed By:</b> Lim Jun Wei	<b>Execution Date:</b> 19/12/2024
<b>Short Description:</b> To test user register function with valid mobile number and invalid Real-Time OTP.	

**Pre-conditions:** User must use valid mobile number for register

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to register page <a href="https://www.xiaohongshu.com/explore">https://www.xiaohongshu.com/explore</a>	System displays login page	Pass	
2	Enter mobile number: 126677895		Pass	
3	Click register button	System display error message, “Verification sending failed”	Pass	
4	Checked Privacy Policy Checkbox		Pass	
5	Enter OTP: 283718		Pass	
6	Click register button	System display error message, “Incorrect SMS verification code”	Pass	

**Post-conditions:**

System does not register account for user and stay at the register page

Test Case	
Test Case #: TC_LoginModule_Login_001	Test Case Name: User Login
System: RedNote Social Media Application	Module: Login
Design By: Ong Yi Xin	Design Date: 03/12/2024
Executed By: Lim Jun Wei	Execution Date: 19/12/2024
<b>Short Description:</b> To test user login function with valid mobile number and valid Real-Time OTP.	

Pre-conditions: User must login with mobile number that already registered
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Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to login page <a href="https://www.xiaohongshu.com/explore">https://www.xiaohongshu.com/explore</a>	System displays login page	Pass	
2	Enter mobile number: 123456789		Pass	
3	Click login button	System send Real-Time OTP to the mobile number	Pass	
4	Checked Privacy Policy Checkbox		Pass	
5	Enter OTP:Real-Time OTP		Pass	
6	Click login button	User successfully login to the account	Pass	

<b>Post-conditions:</b> Systems allows user to login and redirect to home page.
--

Test Case	
Test Case #: TC_LoginModule_Login_002	Test Case Name: User Login
System: RedNote Social Media Application	Module: Login
Design By: Ong Yi Xin	Design Date: 03/12/2024
Executed By: Lim Jun Wei	Execution Date: 19/12/2024
<b>Short Description:</b> To test user login function with unchecked privacy policy checkbox.	

Pre-conditions: User must use valid mobile number that have registered and valid Real-Time OTP.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Navigate to login page <a href="https://www.xiaohongshu.com/explore">https://www.xiaohongshu.com/explore</a>	System displays login page	Pass	
2	Enter mobile number: 126677895		Pass	
3	Click register button	System display error message, "Verification sending failed"	Pass	
4	Enter OTP: Real-Time OTP		Pass	
5	Click login button	System pop up window ask user to accept the terms of privacy policy.	Pass	

<b>Post-conditions:</b> Systems not allows user to login and redirect to home page.
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## Chat Module

Test Case	
Test Case #: TC_ChatModule_GroupVoting_001	Test Case Name: Group Voting
System: RedNote Social Media Application	Module: Chat
Design By: Lim Jun Wei	Design Date: 04/12/2024
Executed By: Sia Keng Loon	Execution Date: 20/12/2024
<b>Short Description:</b> Users can create a group voting event in group chat to allow other users to vote and obtain the vote result.	

**Pre-conditions:** User must have login to his or her account and joined a group chat.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Tap to enter a group chat.	System displays the group chat page.	Pass	
2	Tap on “+” button at the right bottom corner.	System pops up a chat widget section.	Pass	
3	Tap on “Group vote” icon.	System displays a group vote page.	Pass	
4	Tap on “Create Voting”.	System displays a group vote create form.	Pass	
5	Enter “This is a group voting test title with exactly 80 characters in length to verify limits.” in the Group Voting Title text field.		Pass	
6	Enter "Option name with exactly 40 characters allowed input length" in Option 1 text field.		Pass	
7	Enter "Vote for the best holiday destination" in Option 2 text field.		Pass	
8	Click on “Add Option”.	System adds one option below the last option row.	Pass	
9	Enter "Select the best candidate for the award" in Option 3 text field.		Pass	
10	Tap on the “Post” button.	System pops up “Group vote is created successfully” successful message and navigates back to the group chat page.	Pass	

**Post-conditions:**

Group vote event is created in the group chat successfully.

Test Case	
Test Case #: TC_ChatModule_GroupVoting_002	Test Case Name: Group Voting
System: RedNote Social Media Application	Module: Chat
Design By: Lim Jun Wei	Design Date: 04/12/2024
Executed By: Sia Keng Loon	Execution Date: 20/12/2024
<b>Short Description:</b> Users can create a group voting event in group chat to allow other users to vote and obtain the vote result.	

Pre-conditions: User must have login to his or her account and joined a group chat.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Tap to enter a group chat.	System displays the group chat page.	Pass	
2	Tap on the “+” button at the right bottom corner.	System pops up a chat widget section.	Pass	
3	Tap on the “Group vote” icon.	System displays a group vote page.	Pass	
4	Tap on “Create Voting”.	System displays a group vote create form.	Pass	
5	Enter “Ensuring a Sustainable Future for Our Communities and Planet” in the Option 1 text field.	System pops up “Maximum supported length of Vote Option is 40 characters only” error message.	Pass	
6	Tap on the “Post” button.	System pops up “Please fill in group vote options” error message.	Pass	

<b>Post-conditions:</b> Group vote event is not created.
---

## Test Case

<b>Test Case #:</b> TC_ChatModule_GroupCheckIn_001	<b>Test Case Name:</b> Group Check-In
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Chat
<b>Design By:</b> Lim Jun Wei	<b>Design Date:</b> 04/12/2024
<b>Executed By:</b> Sia Keng Loon	<b>Execution Date:</b> 20/12/2024
<b>Short Description:</b> Users can create a group check-in event in group chat to allow other users to join and record check-in event details every day.	

**Pre-conditions:** User must have login to his or her account, joined a group chat and be a group owner or administrator.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Tap to enter a group chat.	System displays the group chat page.	Pass	
2	Tap on “+” button at the right bottom corner.	System pops up a chat widget section.	Pass	
3	Tap on “Group Check In” icon.	System displays a group check in event history page.	Pass	
4	Tap on “Start Create”.	System displays a group check in create form.	Pass	
5	Enter "Meeting" in the Group Check-In Title text field.		Pass	
6	Enter "Group check-in for a team meeting." in Check-In Description text field.		Pass	
7	Turn on the Check-In Format toggle button and enter "Location: Office, Time: 10:00 AM" in Check-In Format text field.		Pass	
8	Turn on the Time Constraint toggle button and select "2025-2-15" in end date datetime input field.		Pass	
9	Tap on the “Create” button.	System pops up “Group Check-In is created successfully” successful message and navigates back to the group chat page.	Pass	

**Post-conditions:**

Group check-in event is created in the group chat successfully.

Test Case	
Test Case #: TC_ChatModule_GroupCheckIn_002	Test Case Name: Group Check-In
System: RedNote Social Media Application	Module: Chat
Design By: Lim Jun Wei	Design Date: 04/12/2024
Executed By: Sia Keng Loon	Execution Date: 20/12/2024
<b>Short Description:</b> Users can create a group check-in event in group chat to allow other users to join and record check-in event details every day.	

Pre-conditions: User must have login to his or her account and joined a group chat and be a group owner or administrator.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Tap to enter a group chat.	System displays the group chat page.	Pass	
2	Tap on “+” button at the right bottom corner.	System pops up a chat widget section.	Pass	
3	Tap on “Group Check In” icon.	System displays a group check in event history page.	Pass	
4	Tap on “Start Create”.	System displays a group check in create form.	Pass	
5	Tap on the “Create” button.	System pops up “Group Check-In Title and Description cannot be empty” error message.	Pass	

<b>Post-conditions:</b> Group check-in event is not created.
---

Test Case	
Test Case #: TC_ChatModule_GroupCheckIn_003	Test Case Name: Group Check-In
System: RedNote Social Media Application	Module: Chat
Design By: Lim Jun Wei	Design Date: 04/12/2024
Executed By: Sia Keng Loon	Execution Date: 20/12/2024
<b>Short Description:</b> Users can create a group check-in event in group chat to allow other users to join and record check-in event details every day.	

Pre-conditions: User must have login to his or her account and joined a group chat and be a group owner or administrator.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Tap to enter a group chat.	System displays the group chat page.	Pass	
2	Tap on “+” button at the right bottom corner.	System pops up a chat widget section.	Pass	
3	Tap on “Group Check In” icon.	System displays a group check in event history page.	Pass	
4	Tap on “Start Create”.	System displays a group check in create form.	Pass	
5	Enter “Daily Status Update” in the Group Check-In Title text field.	System pops up “Maximum supported length of Check-in Title is 12 characters only” error message.	Pass	
6	Enter "Checked in to the group for today's meeting, ready to collaborate and share updates on ongoing projects, discuss new initiatives, and contribute to team goals with everyone present." in Check-In Description text field.	System pops up “Maximum supported length of Check-In Description is 150 characters only” error message.	Pass	
7	Turn on the Check-In Format toggle button and enter "Name: [Your Name] Current Status: [Brief update on your work or personal status]	System pops up “Maximum supported length of Check-In Format is 100 characters only” error message.	Pass	

	<p>Tasks Completed: [List of completed tasks or progress made]</p> <p>Tasks in Progress: [List of tasks you're working on]</p> <p>Challenges/Blockers: [Any issues you're facing]</p> <p>Goals for Today: [What you aim to achieve today]</p> <p>Additional Comments: [Any other updates, thoughts, or reminders for the group]" in Check-In Format text field.</p>		
8	Tap on the “Create” button.	System pops up “Please enter valid data” error message.	Pass

**Post-conditions:**

Group check-in event is not created.

## Creator Module

Test Case	
Test Case #: TC_CreatorModule_PublishPost_001	Test Case Name: Publish Post
System: RedNote Social Media Application	Module: Creator
Design By: Chia Ming Yi	Design Date: 04/12/2024
Executed By: Ong Yi Xin	Execution Date: 21/12/2024
Short Description: To test the Publish Post function with valid media files, caption, and description.	

Pre-conditions: User must be logged in.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on the "+" button.	System displays a post creation page.	Pass	
2	Upload media file: mp4, 15 GB, resolution 1080P.		Pass	
3	Enter caption: "New Adventure" (13 characters).		Pass	
4	Enter description: "Exploring the mountains..." (26 characters).		Pass	
5	Click the "Publish" button.	System displays a progress bar which represents the post upload progress.	Pass	

**Post-conditions:**

The system displays messages that the post was successfully uploaded and published, and displays the post on the user's profile.

Test Case	
Test Case #: TC_CreatorModule_PublishPost_002	Test Case Name: Publish Post
System: RedNote Social Media Application	Module: Creator
Design By: Chia Ming Yi	Design Date: 05/12/2024
Executed By: Ong Yi Xin	Execution Date: 21/12/2024
<b>Short Description:</b> To test the Publish Post function with an unsupported media file format.	

Pre-conditions: User must be logged in.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on the “+” button.	System displays a post creation page.	Pass	
2	Upload media file: gif, 15 MB.	System displays an error message: "Invalid media file format."	Pass	
3	Attempt to publish without changing the media file.	System prevents the post from being published.	Pass	

<b>Post-conditions:</b> The system does not allow the post to be published and remains on the post creation page.
--

Test Case	
Test Case #: TC_CreatorModule_PublishPost_003	Test Case Name: Publish Post
System: RedNote Social Media Application	Module: Creator
Design By: Chia Ming Yi	Design Date: 05/12/2024
Executed By: Ong Yi Xin	Execution Date: 21/12/2024
<b>Short Description:</b> To test the Publish Post function with 18 valid images uploaded.	

Pre-conditions: User must be logged in.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on the “+” button.	Systems displays a post creation page.	Pass	
2	Upload 18 images (png, each $\leq$ 20 MB, resolution 720 x 960 pixels).		Pass	
3	Enter caption: "Family Album" (12 characters).		Pass	
4	Enter description: "Memories from our trip." (22 characters).		Pass	
5	Click the "Publish" button.	System displays a progress bar which represents the post upload progress.	Pass	

<b>Post-conditions:</b> The system displays messages that the post was successfully uploaded and published with all 18 images, and displays the post on the user's profile.
--

Test Case	
Test Case #: TC_CreatorModule_PublishPost_004	Test Case Name: Publish Post
System: RedNote Social Media Application	Module: Creator
Design By: Chia Ming Yi	Design Date: 05/12/2024
Executed By: Ong Yi Xin	Execution Date: 21/12/2024
<b>Short Description:</b> To test the Publish Post function with more than 18 images uploaded.	

Pre-conditions: User must be logged in.
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click on the “+” button.	System displays a post creation page.	Pass	
2	Upload 20 images (jpg, each ≤ 20 MB, resolution 720 x 960 pixels).	System displays an error message: "Cannot upload more than 18 images."	Pass	
3	Attempt to publish without removing the extra images.	System prevents the post from being published.	Pass	

<b>Post-conditions:</b> The system does not allow the post to be published and remains on the post creation page.
--

Test Case	
<b>Test Case #:</b> TC_CreatorModule_SchedulePosting_001	<b>Test Case Name:</b> Schedule Posting
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Creator
<b>Design By:</b> Chia Ming Yi	<b>Design Date:</b> 05/12/2024
<b>Executed By:</b> Ong Yi Xin	<b>Execution Date:</b> 21/12/2024
<b>Short Description:</b> To test the Schedule Posting function with valid date and time.	

**Pre-conditions:** User must be logged in and on the post creation page which have a valid post ready for scheduling.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click the “Schedule Posting” button then navigate to the schedule posting page.	System displays the schedule posting page.	Pass	
2	Select date: 23/12/2024.		Pass	
3	Select time: 14:30.		Pass	
4	Click the “Confirm” button.	System displays messages that the scheduled date and time were successfully saved.	Pass	
5	Click the “Publish” button.	System displays a progress bar which represents the post upload progress.	Pass	

**Post-conditions:**

The system saves the post to the user's draft box, and publishes the post when the scheduled date and time arrive.

Test Case	
<b>Test Case #:</b> TC_CreatorModule_SchedulePosting_002	<b>Test Case Name:</b> Schedule Posting
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Creator
<b>Design By:</b> Chia Ming Yi	<b>Design Date:</b> 05/12/2024
<b>Executed By:</b> Ong Yi Xin	<b>Execution Date:</b> 21/12/2024
<b>Short Description:</b> To test the Schedule Posting function with a date outside the allowed range.	

**Pre-conditions:** User must be logged in and on the post creation page which have a valid post ready for scheduling.

Step	Action	Expected System Response	Pass/Fail	Comments
1	Select the “Schedule Posting” button then navigate to the schedule posting page.	System displays the schedule posting page.	Pass	
2	Select date: 21/01/2024.	System displays an error message: "Invalid date range."	Pass	
3	Attempt to schedule publish without correcting the date.	System prevents the post from being scheduled.	Pass	

**Post-conditions:**

The system does not allow the post to be scheduled and remains on the scheduled posting page.

## Comment Management Module

Test Case	
Test Case #: TC_Comment Management Module_Add Comment_001	Test Case Name: Add Comment
System: RedNote Social Media Application	Module: Comment Management
Design By: Sia Keng Loon	Design Date: 06/12/2024
Executed By: Chia Ming Yi	Execution Date: 22/12/2024
<b>Short Description:</b> To Test User enter comment character not longer than 395 characters.	

**Pre-conditions:** User must be logged in

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Enter the comment: “For students who are using my demo email accounts and app passwords, here is the updated one. There were some issues with my demo accounts yesterday, and I got to reset the app passwords. NOTE: You are advised to create your own demo account and app password for sending emails. However, I got to kno”		Pass	
3	Click the submit button	System will check the comment length and show “Comment Successfully Uploaded” successful message	Pass	

**Post-conditions:**

Systems uploaded the comment successful and remain at the same page

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Add Comment_002	<b>Test Case Name:</b> Add Comment
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User enter comment got any Special Character and Humalirity/Bad word	

<b>Pre-conditions:</b> User must be logged in
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Enter the comment: “F****”		Pass	
3	Click the submit button	System display Error Message: “Comment cannot included Special Character and Humalirity/Bad world”	Pass	

<b>Post-conditions:</b> Systems uploaded the comment unsuccessful and remain at the same page
--

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Add Comment_003	<b>Test Case Name:</b> Add Comment
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User enter comment field not empty	

<b>Pre-conditions:</b> User must be logged in
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Enter the comment: “”		Pass	
3	Click the submit button	System display Error Message: “Field cannot be empty”	Pass	

<b>Post-conditions:</b> Systems uploaded the comment unsuccessful and remain at the same page
--

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Add Comment_004	<b>Test Case Name:</b> Add Comment
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User enter comment character not long more than 395	

**Pre-conditions:** User must be logged in

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Enter the comment: “For students who are using my demo email accounts and app passwords, here is the updated one. There were some issues with my demo accounts yesterday, and I got to reset the app passwords. NOTE: You are advised to create your own demo account and app password for sending emails. However, I got to know about it”		Pass	
3	Click the submit button	System will check the comment length and display Error Message: “Comment cannot more than 395 Character”	Pass	

**Post-conditions:**

Systems uploaded the comment unsuccessful and remain at the same page

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Insert Photo And Video_001	<b>Test Case Name:</b> Insert Photo And Video
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User Insert file type	

**Pre-conditions:** User must be logged in

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Click on the “+” button		Pass	
3	Insert a file: photo.png		Pass	
4	Click the submit button	System will check the file type and display successful message “Comment Successfully Uploaded”	Pass	

**Post-conditions:**

Systems uploaded the comment unsuccessful and remain at the same page

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Insert Photo and Video_002	<b>Test Case Name:</b> Insert Photo and Video
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User Insert file size	

**Pre-conditions:** User must be logged in

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Click on the “+” button		Pass	
3	Insert a file: photo.png		Pass	
3	Click the submit button	System will check the file size and display successful message “Comment Successfully Uploaded”	Pass	

**Post-conditions:**

Systems uploaded the comment unsuccessful and remain at the same page

Test Case	
<b>Test Case #:</b> TC_Comment Management Module_Insert Photo and Video_003	<b>Test Case Name:</b> Insert Photo and Video
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User Insert file number not more than 9	

<b>Pre-conditions:</b> User must be logged in
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Click on the “+” button		Pass	
3	Insert 9 file: photo.png (9 times)		Pass	
3	Click the submit button	System will check the file type and display successful message “Comment Successfully Uploaded”	Pass	

<b>Post-conditions:</b> Systems uploaded the comment successful and remain at the same page
--

## Test Case

<b>Test Case #:</b> TC_Comment Management Module_Insert Photo and Video_004	<b>Test Case Name:</b> Insert Photo and Video
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User Insert file number not more than 9	

<b>Pre-conditions:</b> User must be logged in
---

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Click on the “+” button		Pass	
3	Insert 10 file: photo.png (10 times)		Pass	
3	Click the submit button	System will check the file number and display Error message “Comment Unsuccessfully Uploaded”	Pass	

<b>Post-conditions:</b> Systems uploaded the comment unsuccessful and remain at the same page
--

## Test Case

<b>Test Case #:</b> TC_Comment Management Module_Insert Photo and Video_005	<b>Test Case Name:</b> Insert Photo and Video
<b>System:</b> RedNote Social Media Application	<b>Module:</b> Comment Management
<b>Design By:</b> Sia Keng Loon	<b>Design Date:</b> 06/12/2024
<b>Executed By:</b> Chia Ming Yi	<b>Execution Date:</b> 22/12/2024
<b>Short Description:</b> To Test User Insert file type	

### Pre-conditions: User must be logged in

Step	Action	Expected System Response	Pass/Fail	Comments
1	Click a “Journey” Post	System will display the “Journey” Post Details	Pass	
2	Click on the “+” button		Pass	
3	Insert a file: photo.cs		Pass	
3	Click the submit button	System will check the file type and display Error message “Comment Unsuccessfully Uploaded”	Pass	

### Post-conditions:

Systems uploaded the comment unsuccessful and remain at the same page

### 3. Test Execution Status Summary

#### 3.1 Test Execution Status Summary

Module	Scenario	Function	Priority(High/Medium/Low)	Tester	Date Execution	Status	Defect - Brief Description	Severity (High/Medium/Low)
Login	Register with valid mobile number and valid OTP	Register	High	Lim Jun Wei	19/12/2024	Pass		
Login	Register with invalid mobile number	Register	High	Lim Jun Wei	19/12/2024	Pass		
Login	Register with invalid OTP	Register	High	Lim Jun Wei	19/12/2024	Pass		
Login	Login with valid mobile number which is registered and valid OTP	Login	High	Lim Jun Wei	19/12/2024	Pass		
Login	Login with valid mobile number, valid OTP and unchecked privacy policy checkbox	Login	High	Lim Jun Wei	19/12/2024	Pass		
Chat	Create Group Voting with	Group Voting	High	Sia Keng Loon	20/12/2024	Pass		

	valid group voting title, valid number of options and valid option name.							
Chat	Create Group Voting with no group voting title and only one valid option name.	Group Voting	High	Sia Keng Loon	20/12/2024	Pass		
Chat	Create Group Check-In with valid check-in title, valid check-in description, valid check-in format and valid end date.	Group Check-In	High	Sia Keng Loon	20/12/2024	Pass		
Chat	Create Group Check-In with no check-in title, no check-in description, no check-in format and no end date.	Group Check-In	High	Sia Keng Loon	20/12/2024	Pass		
Chat	Create Group Check-In with invalid check-in title,	Group Check-In	Medium	Sia Keng Loon	20/12/2024	Pass		

	invalid check-in description and invalid check-in format and no end date.							
Creator Module	Publish Post function with valid media files, caption, and description.	Publish Post	Medium	Ong Yi Xin	21/12/2024	Pass		
Creator Module	Publish Post function with an unsupported media file format.	Publish Post	High	Ong Yi Xin	21/12/2024	Pass		
Creator Module	Publish Post function with 18 valid images uploaded.	Publish Post	Medium	Ong Yi Xin	21/12/2024	Pass		
Creator Module	Publish Post function with more than 18 images uploaded.	Publish Post	High	Ong Yi Xin	21/12/2024	Pass		
Creator Module	Schedule Posting function with valid date and time.	Schedule Posting	High	Ong Yi Xin	21/12/2024	Pass		
Creator Module	Schedule	Schedule	High	Ong Yi Xin	21/12/2024	Pass		

	Posting function with a date outside the allowed range.	Posting						
Comment Management	Add Comment with valid Special Character	Add Comment	High	Chia Ming Yi	22/12/2024	Pass		
Comment Management	Add Comment with valid data of less than 395 Character	Add Comment	High	Chia Ming Yi	22/12/2024	Pass		
Comment Management	Insert Photo and video with a valid file type	Insert photo and video	High	Chia Ming Yi	22/12/2024	Pass		
Comment Management	Insert Photo and video with a valid number of file	Insert photo and video	High	Chia Ming Yi	22/12/2024	Pass		
Comment Management	Insert Photo and video with a invalid file size	Insert photo and video	High	Chia Ming Yi	22/12/2024	Pass		