

Test Plan Document for Class Chat

1. Introduction

Class Chat is a messaging application especially designed for classes. Users are free to create chat rooms for their classes and hold discussions within the chat rooms. Class Chat is designed only for educational purposes. Usage of profanity will not be allowed within each chat room.

2. Quality Control

2.1 Test Plan Quality

The test plans are made based on the functions provided by the application. All the test plans serve one purpose, which is to make sure the application is able to provide all the implemented functions.

2.2 Adequacy Criterion

The testing is complete when Class Chat application can perform what all the functionalities are implemented to do, exactly and correctly.

3. Test Strategy

Our testing strategy is user-experience-oriented. We provided students with apple devices that had Class Chat installed and asked them to do anything they can to destroy the application. We then recorded any unwanted results or non-functioning operations and fixed them through coding. And we

repeated this testing strategy throughout our application development, especially after new features were implemented.

4. Test Cases

Test Performed	Expected Results	Actual Results
Register for an account	Receive confirmation email	Test Passed
Attempt to log in without confirming email address	Unable to log in	Test Passed
Confirm email by clicking on confirmation link	Able to log in with provided email and password	Test Passed
Login without a username	Email address is shown in message threads	Test Passed
Login with a username	Username is shown in message threads	Test Passed
Check number of online users after login	Number of online users increases and email of the new login is shown on the list	Test Passed
Check number of online user after another user logout	Number of online users decreases and the email of the logged out user is removed from the list	Test Passed
Create a class named “ECE 373”	A class named “ECE 373” exists on the list of class chat rooms	Test Passed
Created another new class also named “ECE 373”	Request to create the second class with already existing name is declined	Test Passed
Create a class named “xxx”	Request to create the class is declined due to the use of profanity	Test Passed
Click on “ECE 373”	Go into “ECE 373” chat room	Test Passed

Type message “Hello”	Show typing indication gif on other devices.	Test Passed
Send message “Hello”	Message displays on the message thread	Test Passed
Send message “xxx”	Message is not sent due to use of profanity	Test Passed
Send a photo to a chat room	Photo display on the message thread	Test Passed
Remove a chat room	Chat room is removed from your view but can still exist on others’ course list	Test Passed
Click Profile	Go to profile page with current display name and email displayed along	Test Passed
Select Delete Account	Account is logged out and deleted from database	Test Passed
Attempt to log in after deleting account	Unable to log in	Test Passed

Example Test Case (from Testing.swift):

// Profanity Filter

```
Func profanity(text: String, swaerWords: [String]) -> Bool{
```

```
    Return swearWords
```

```
}
```

```
let listOfSwearWords = [“xxx”, “crap”]
```

```
let userEnteredText = “xxx”
```

```
print(profanity(text: userEnteredText, swearWords: listOfSwearWords)) // true
```