

Name: New

Description: Create a new communication

Actor: User

Preconditions: N/A

Basic Flow: User clicks the File menu, then clicks New. The system detects any text in the typing text area, and deletes it.

Alternate Flows: N/A

Exception Flows: N/A

Post Conditions: Typing text area is clear.

Name: Open

Description: Open a previously-saved communication

Actor: User

Preconditions: N/A

Basic Flow: User clicks the File menu, then clicks Open. The system provides a dialog of the local filesystem. The user navigates the filesystem and selects a file. The system reads the file and displays its contents into the typing text area.

Alternate Flows: N/A

Exception Flows: If the user provides an incorrect file name, the system will present a dialog for an invalid file name, and will re-present the dialog of the local filesystem.

Post Conditions: Text from the file is in the typing text area.

Name: Save

Description: Save a previously-opened file that the user opened for editing to the user's local filesystem

Actor: User

Preconditions: User opened a file using File – Open, or saved a file using File – Save, text exists in typing text area

Basic Flow: User clicks the File menu, then clicks Save. The system saves the text in the typing text area to the file in the same place in the local filesystem.

Alternate Flows: N/A

Exception Flows: If the user did not open a file or save a file, the system will instead use the Save As use case. If the typing text area is empty, the system will display a dialog "nothing to save"

Post Conditions: Datestamp on the file is updated with the user's local time.

Name: Save As

Description: Save a file to the user's local filesystem

Actor: User

Preconditions: Text exists in typing text area

Basic Flow: User clicks the File menu, then clicks Save As. The system provides a dialog of the local filesystem. The user navigates to the destination folder and types a filename. The system then writes the text in the typing text area to the local filesystem at the place the user specified.

Alternate Flows: N/A

Exception Flows: If the typing text area is empty, the system will display a dialog "nothing to save"

Post Conditions: Datestamp on the new file is updated with the user's local time.

Name: Exit

Description: Exit the application

Actor: User

Preconditions: N/A

Basic Flow: User clicks File – Exit, and the system exits.

Alternate Flows: N/A

Exception Flows: If the typing text area is not clear, the system will present a dialog asking if the user wants to save the text. If the user clicks Yes, the Save As use case will run. If the user clicks No, the system will continue to exit.

Post Conditions: N/A

Name: Send

Description: Sends a communication to another user

Actor: User, Database

Preconditions: Typing text area is not clear, user has connected to the database

Basic Flow: User clicks Send button. The system prompts for a username, and checks the database to ensure the username exists. The system creates a new record in the database with the username and the text in the typing text area. The system sends a dialog to the user that the send completes successfully.

Alternate Flows: User clicks Communication – Send from the menu

Exception Flows: If the username is not in the database, the system will re-prompt for a username with a message that the username does not exist. If the typing text area is empty, the system will display a dialog “nothing to send”

Post Conditions: N/A

Name: Receive

Description: Receives a communication sent from another user

Actor: User, Database

Preconditions: User has connected to the database, user has a communication available in the database

Basic Flow: User clicks Receive button. The system shows a list of communications to the user, with datestamp and status. User selects the communication to receive, and the system presents the text from the communication into the typing text area.

Alternate Flows: User clicks Communication – Receive from the menu

Exception Flows: If there are no communications available, the system will present a dialog “nothing to receive”

Post Conditions: The typing text area is not clear.

Name: Connect

Description: Connect to the database

Actor: User, Database

Preconditions: N/A

Basic Flow: User clicks Connect button. The system prompts for a username and password. When the user clicks OK, the system sends a logon request to the database. The system sends a dialog to the user that the connection is successful.

Alternate Flows: N/A

Exception Flows: If the logon attempt fails, the system will re-prompt for username and password, with a message that the logon attempt failed

Post Conditions: N/A

Name: Run SQL

Description: Execute SQL code against the database

Actor: User, Database

Preconditions: User has connected to the database

Basic Flow: User clicks Run SQL button. The system prompts the user with a text window, into which the user enters their SQL code. The system then uses the user's connection to the database to run the SQL code. The system then presents a text window to the user with the results of the query

Alternate Flows: N/A

Exception Flows: If the user has not connected to the database, the system will present a dialog "no connection to database"

Post Conditions: N/A

Name: About

Description: Display a dialog about the program

Actor: User

Preconditions: N/A

Basic Flow: User clicks Help – About. The system presents a dialog with information about the program, including contact information for support

Alternate Flows: N/A

Exception Flows: N/A

Post Conditions: N/A

Name: Debug

Description: Log debug information for the program.

Actor: User

Preconditions: N/A

Basic Flow: User clicks the Debug checkbox. The system records a log of its work in a file in the local filesystem.

Alternate Flows: N/A

Exception Flows: N/A

Post Conditions: N/A