

# Feature Testing

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## 1 Calendar - Add Event as Student (Simplified Version)

### 1.1 Input Domain

The input domain of this feature includes the title of the event, a date, a starting time, a ending time, a location, and a calendar. The input domain can be partitioned: e.g. one partition for title, one partition for date, etc.

The image shows a dark-themed 'Edit Event' dialog box. At the top, there's a title bar with 'Edit Event' and a close button. Below it, a tab labeled 'Event' is active, showing 'My To Do'. The form contains several input fields: 'Title' (a text box), 'Date' (a date picker showing '2020-04-30' and 'Thu Apr 30, 2020'), 'From' (a time range selector showing '12:00am to 12:00am'), 'Location' (a text box), and 'Calendar' (a dropdown menu showing 'Patrick Silvestre'). At the bottom, there are two buttons: 'More Options' and 'Submit'.

Figure 1: Add Event Interface

### 1.1.1 Title

The input domain of the input title is a string, which may be empty.

### 1.1.2 Date

The input domain of the date is a string in the format YYYY-MM-DD, where YYYY represents a year, MM represents a month, and DD represents a day. The month and day fields need not be padded with zeros. Alternatively, a user can opt to input a date using a GUI in the form of a calendar.

### 1.1.3 Starting Time

The input domain of the starting time is a string in the format HH:MMxx, where HH represents hours, MM represents minutes, and xx represents AM or PM (case insensitive). The hour and minute fields need not be padded with zeros.

### 1.1.4 Ending Time

The input domain of the ending time is a string in the format HH:MMxx, where HH represents hours, MM represents minutes, and xx represents AM or PM (case insensitive). The hour and minute fields need not be padded with zeros.

### 1.1.5 Location

The input domain of the input title is a string, which may be empty.

### 1.1.6 Calendar

The input domain of the calendar is a list of the user's calendars, of which one can be selected.

## 1.2 Test Cases

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
1	<ul style="list-style-type: none"><li>• UI: click plus (create new event) icon</li><li>• title: (empty)</li><li>• date: 2020-5-2</li><li>• starting time: 12:00am</li><li>• ending time: 12:00am</li><li>• location: (empty)</li><li>• calendar: Patrick Silvestre</li><li>• UI: click submit button</li></ul>	Patrick Silvestre's calendar displays Untitled event on 2020-5-2. Event has no starting nor ending time (all-day event)	See figure 2.	Pass
2	<ul style="list-style-type: none"><li>• UI: click plus (create new event) icon</li><li>• title: Test</li><li>• date: 2020-5-2</li><li>• starting time: 12:00am</li><li>• ending time: 12:00am</li><li>• location: Test</li><li>• calendar: Patrick Silvestre</li><li>• UI: click submit button</li></ul>	Patrick Silvestre's calendar displays Test event on 2020-5-2 with Test location. Event has no starting nor ending time (all-day event).	See figure 3.	Pass

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
3	<ul style="list-style-type: none"> <li>• UI: click plus (create new event) icon</li> <li>• title: (empty)</li> <li>• date: 2020-5-2</li> <li>• starting time: 12:00pm</li> <li>• ending time: 1:00pm</li> <li>• location: (empty)</li> <li>• calendar: Patrick Silvestre</li> <li>• UI: click submit button</li> </ul>	Patrick Silvestre's calendar displays Test event on 2020-5-2 with test location. Event has starting time 12:00pm and ending time 1:00pm).	See figure 4.	Pass
4	<ul style="list-style-type: none"> <li>• UI: click plus (create new event) icon</li> <li>• title: Test</li> <li>• date: 2020-4-25</li> <li>• starting time: 12:00am</li> <li>• ending time: 12:00am</li> <li>• location: Test</li> <li>• calendar: Patrick Silvestre</li> <li>• UI: click submit button</li> </ul>	Patrick Silvestre's calendar displays Test event on 2020-4-25 with test location. Event has no starting nor ending time (all-day event).	See figure 5.	Pass
5	<ul style="list-style-type: none"> <li>• UI: click plus (create new event) icon</li> <li>• title: Test</li> <li>• date: 2020-4-25</li> <li>• starting time: 12:00pm</li> <li>• ending time: 11:00am</li> <li>• location: Test</li> <li>• calendar: Patrick Silvestre</li> <li>• UI: click submit button</li> </ul>	Add Event interface warns user that event ends before it starts and prevents user from submitting event.	System automatically adjusts either starting or ending time to prevent invalid times with no warning, implicitly allowing user to submit event. See figure 6.	Fail

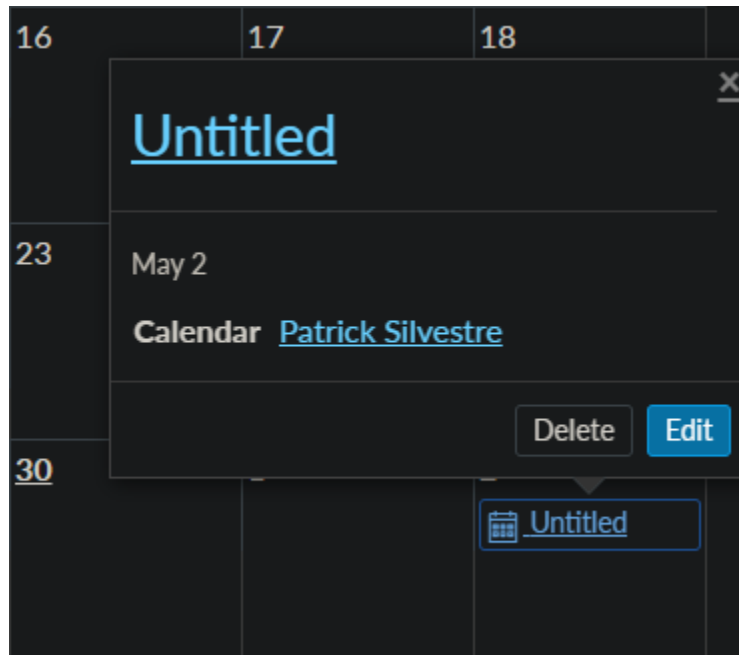


Figure 2: TC-01 actual output

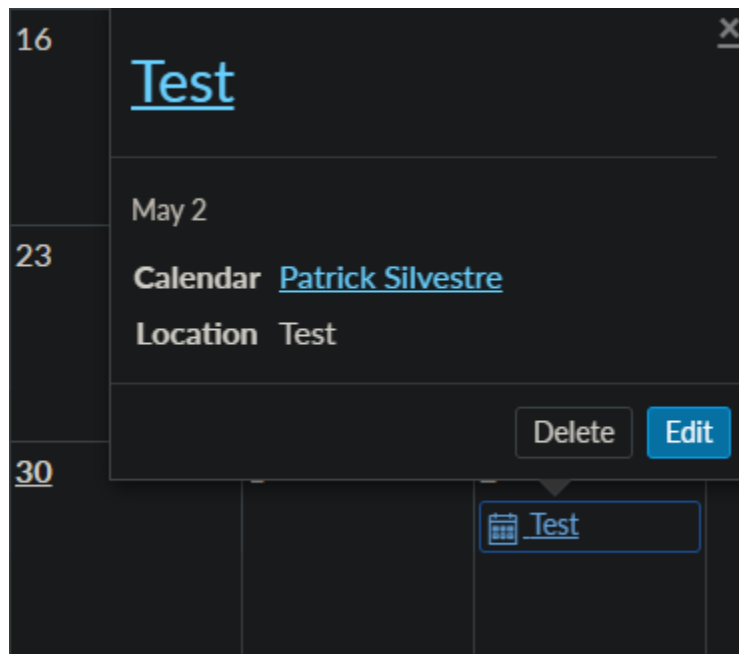


Figure 3: TC-02 actual output

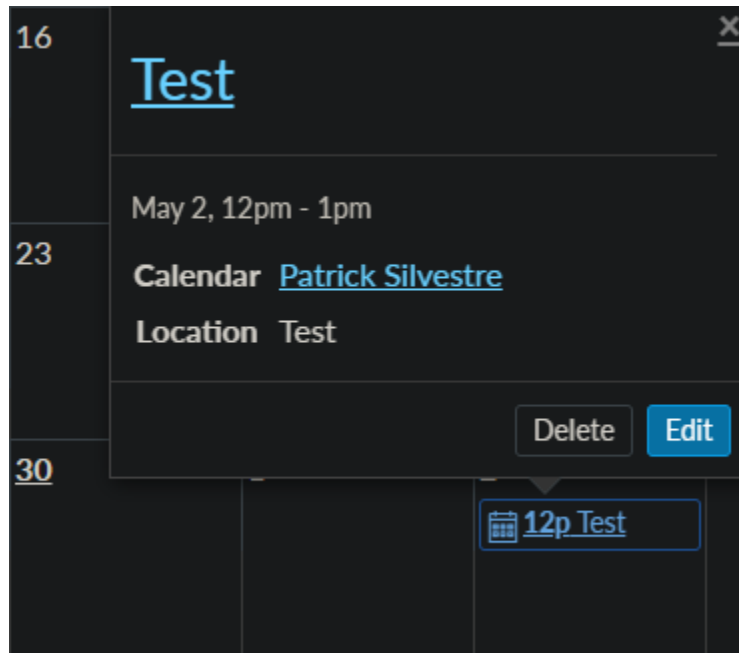


Figure 4: TC-03 actual output

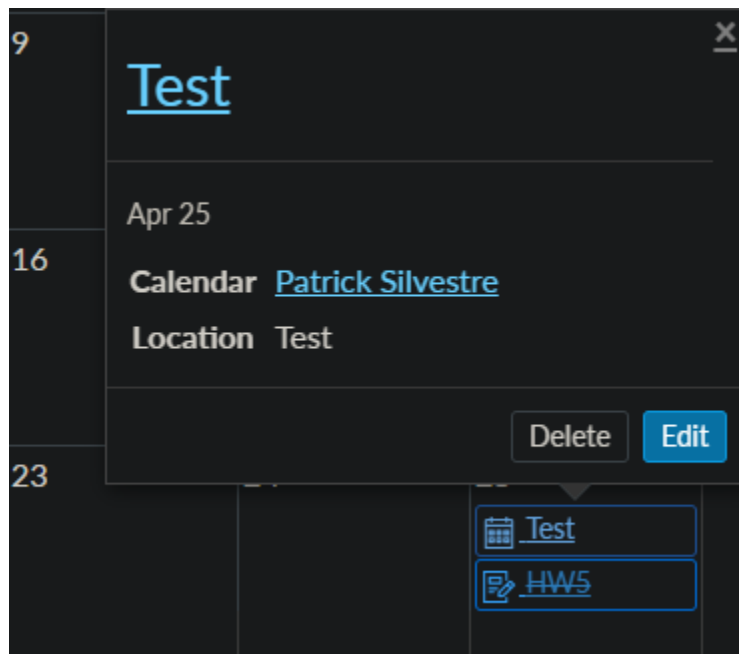


Figure 5: TC-04 actual output

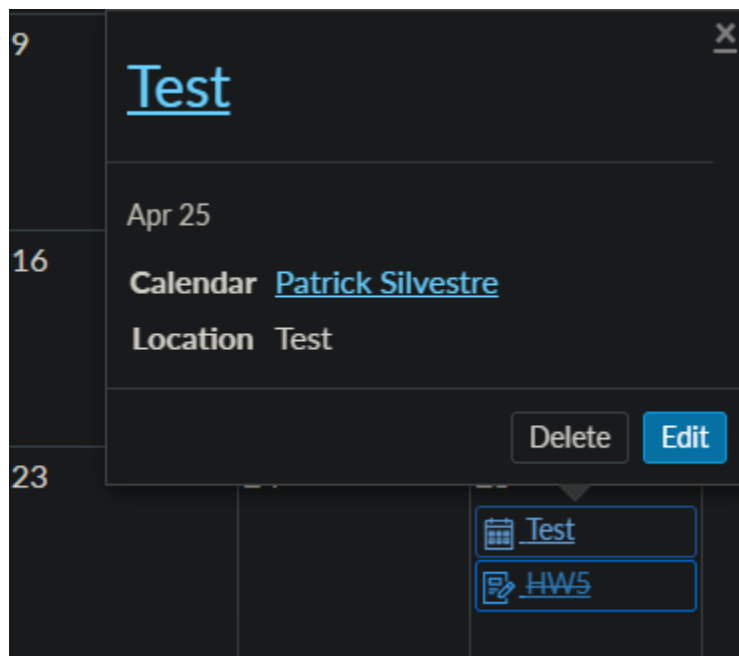
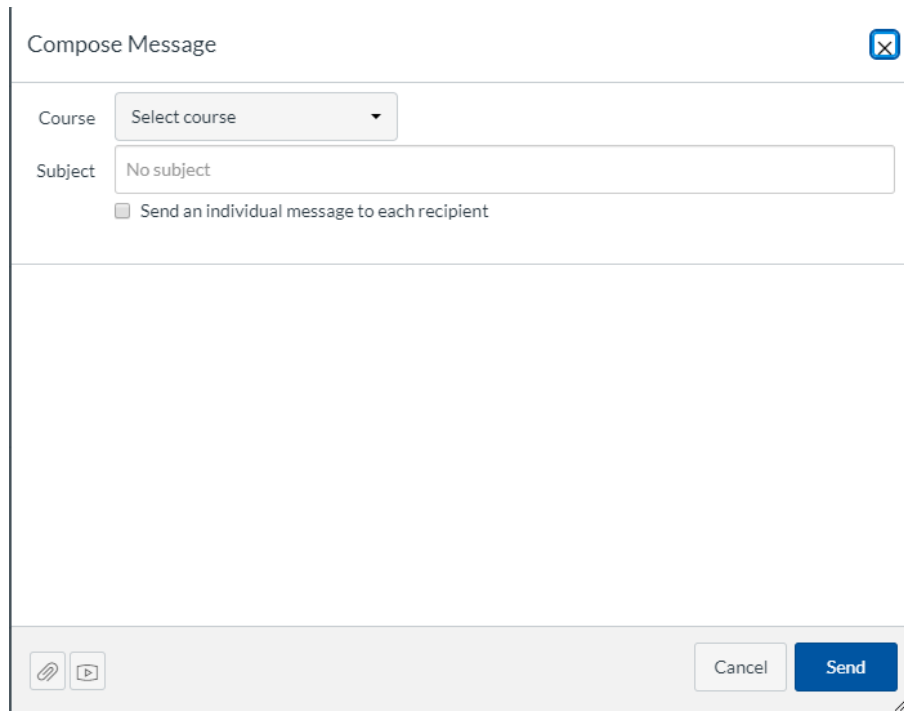


Figure 6: TC-04 actual output

## 2 Inbox - Composing a Message

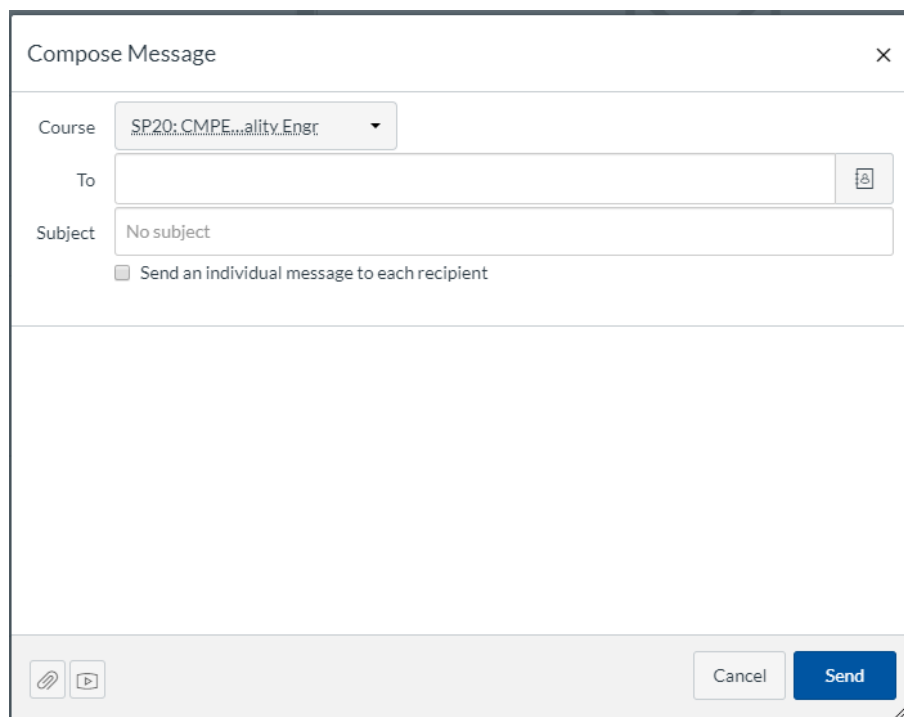
### 2.1 Input Domain

The input domain for the composing a message includes the Course section, the message recipients (only available after selecting the Course section), the subject of the message, the body of the message, any attachments the user wants to add to the message, and the option to send a different message to each recipient (This option will not be covered in the test cases). Most of the input domain can be partitioned (One for the subject, one for the attachments, etc.) except for selecting the message recipient because the user must select a course before they can select their recipients.



The image shows a 'Compose Message' dialog box. At the top, there is a title bar with the text 'Compose Message' and a close button (X). Below the title bar, there is a 'Course' section with a dropdown menu that currently displays 'Select course'. To the right of the dropdown is a small blue square icon with a white 'X'. Below the 'Course' section is a 'Subject' section with a text input field containing the placeholder text 'No subject'. Below the 'Subject' section is a checkbox labeled 'Send an individual message to each recipient', which is currently unchecked. At the bottom of the dialog box, there is a footer area containing two icons on the left (a paperclip and a play button) and two buttons on the right: 'Cancel' and 'Send'.

Figure 7: Before selecting a course



The image shows the same 'Compose Message' dialog box, but now the 'Course' dropdown menu has been updated to show 'SP20: CMPE...ality Ener'. Below the 'Course' section, a new 'To' section has appeared, consisting of a text input field and a small icon to its right. The 'Subject' section remains the same with the placeholder text 'No subject'. The checkbox 'Send an individual message to each recipient' is still unchecked. The footer area at the bottom remains the same with the paperclip, play button, 'Cancel', and 'Send' buttons.

Figure 8: After selecting a course

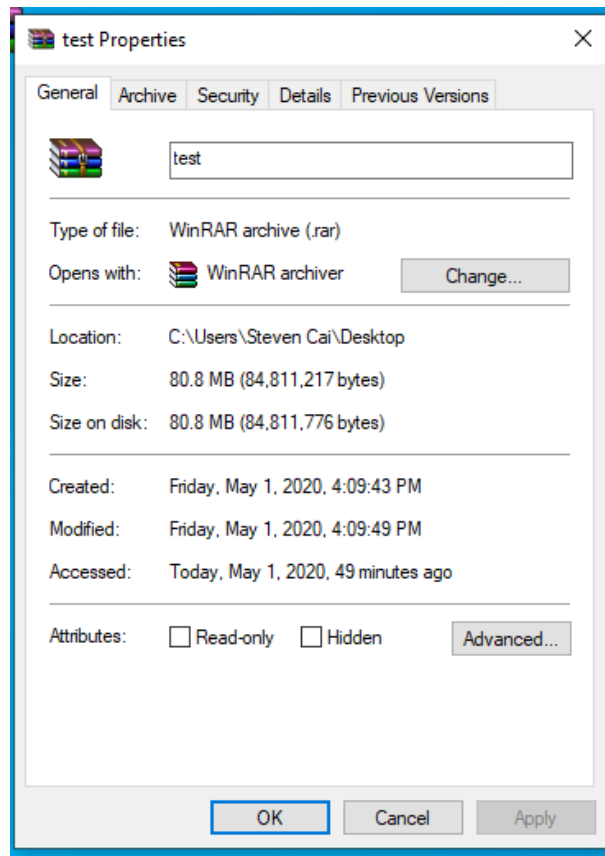


Figure 9: Attachment to be used in applicable "Inbox" tests

#### 2.1.1 Course

The input domain is a selection from a list of courses that the user is currently enrolled in.

#### 2.1.2 To

The input domain is a selection from a list of users that are in the selected course.

#### 2.1.3 Subject

The input domain is a string input.

#### 2.1.4 Message Body

The input domain is a string input.

#### 2.1.5 Attachments

The input domain is a file either from the user's files on Canvas or on their computer.



## 2.2 Test Cases

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
6	<ul style="list-style-type: none"> <li>• course: CMPE-187</li> <li>• to: (empty)</li> <li>• subject: Test1</li> <li>• message: Hello there</li> <li>• attachments: (empty)</li> </ul>	Canvas informs user that recipient is invalid.	See figure 10.	Pass
7	<ul style="list-style-type: none"> <li>• course: CMPE-187</li> <li>• to: Zelin Cai</li> <li>• subject: Test2</li> <li>• message: (empty)</li> <li>• attachments: (empty)</li> </ul>	Canvas sends the message normally	See figure 11.	Fail
8	<ul style="list-style-type: none"> <li>• course: CMPE-187</li> <li>• to: Zelin Cai</li> <li>• subject: (empty)</li> <li>• message: Test Case 3</li> <li>• attachments: (empty)</li> </ul>	Canvas sends the message normally	Canvas outputs message title "(No Title)". See figure 12.	Pass
9	<ul style="list-style-type: none"> <li>• course: CMPE-187</li> <li>• to: Zelin Cai</li> <li>• subject: Test4</li> <li>• message: Testing Case 4</li> <li>• attachments: A .rar file, approximately 80MB</li> </ul>	Canvas informs the user that the file is too large for attachment.	Canvas sends message after about 10 minutes. See figure 13.	Fail
10	<ul style="list-style-type: none"> <li>• course: (empty)</li> <li>• to: (empty)</li> <li>• subject: Test5</li> <li>• message: Testing Case 5</li> <li>• attachments: (empty)</li> </ul>	Canvas informs user that the course selection is invalid.	Canvas output is identical to TC-06. See figure 14.	Fail

Compose Message

Course: SP20: CMPE...ality Engr

To: [Empty field]

Subject: Test1

☐ Send an individual message to each recipient

Hello there

[Attach] [Video] [Cancel] [Send]

Invalid recipient name.

Figure 10: TC-06 actual output

Compose Message

Course: SP20: CMPE...ality Engr

To: Zelin Cai

Subject: Test2

☐ Send an individual message to each recipient

[Empty text area]

[Attach] [Video] [Cancel] [Send]

Required field

Figure 11: TC-07 actual output

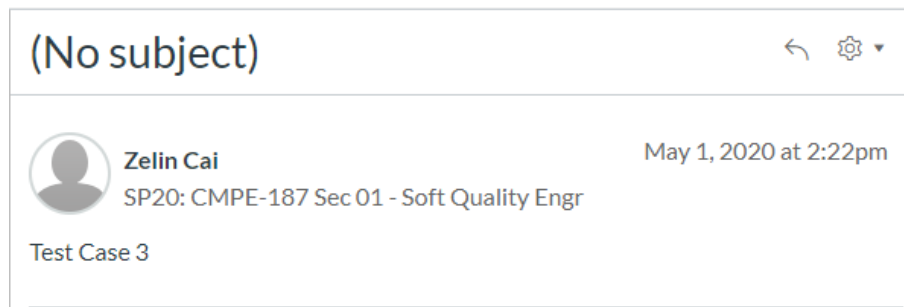


Figure 12: TC-08 actual output



Figure 13: TC-09 actual output

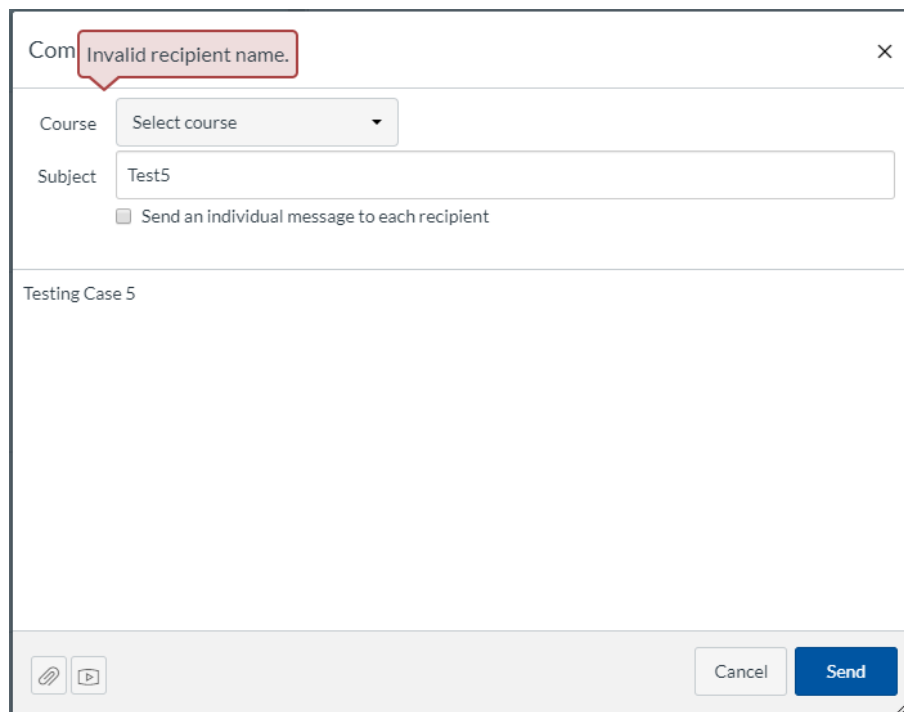
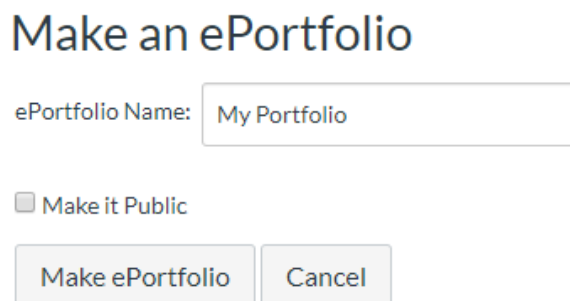


Figure 14: TC-10 actual output

## 3 ePortfolios - ePortfolio Management

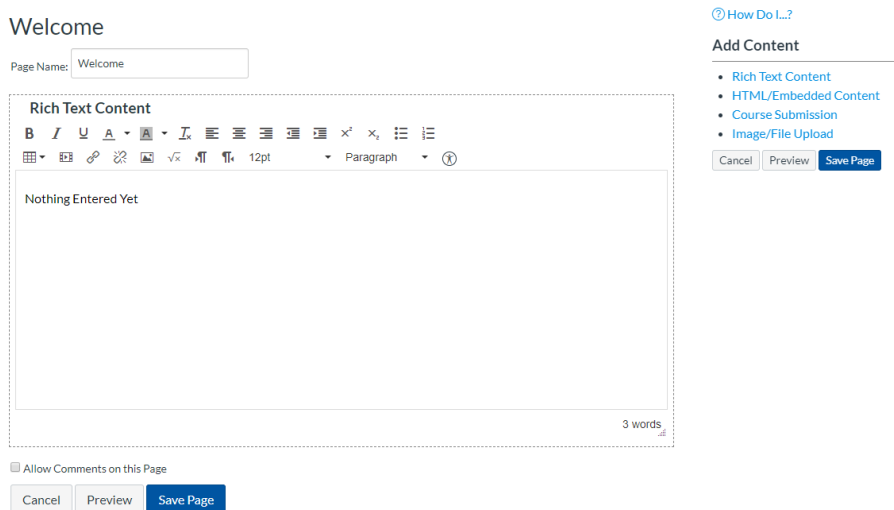
### 3.1 Input Domain

The test cases will focus on creating and managing pages in an ePortfolio. This gives us a bigger input since creating a portfolio and a page in a portfolio take different inputs. The input domain for making a new ePortfolio online consists of the ePortfolio name and an option to make it public or not. When managing an ePortfolio page, the input domain includes the page name, rich text, HTML/embedded content, course submission (not testing this), image/file upload and the body for each of these inputs except image/file upload.



The screenshot shows a form titled "Make an ePortfolio". It has a label "ePortfolio Name:" followed by a text input field containing "My Portfolio". Below this is a checkbox labeled "Make it Public". At the bottom are two buttons: "Make ePortfolio" and "Cancel".

Figure 15: Creating an ePortfolio



The screenshot shows the "Welcome" page creation interface. At the top left is the title "Welcome" and a "Page Name:" label with an input field containing "Welcome". Below this is a "Rich Text Content" editor with a toolbar containing various icons for text formatting (bold, italic, underline, link, unlink, list, indent, outdent, etc.) and a text area with the placeholder text "Nothing Entered Yet". At the bottom right of the text area is a word count "3 words". To the right of the editor is a sidebar with a "How Do I...?" link, an "Add Content" section with a list of options: "Rich Text Content", "HTML/Embedded Content", "Course Submission", and "Image/File Upload", and three buttons: "Cancel", "Preview", and "Save Page". At the bottom left of the page is a checkbox labeled "Allow Comments on this Page" and three buttons: "Cancel", "Preview", and "Save Page".

Figure 16: Creating a page inside an ePortfolio

### 3.1.1 ePortfolio Name

The input domain is a string input.

### 3.1.2 Page Name

The input domain is a string input.

### 3.1.3 Rich Text

The input domain is a string input.

### 3.1.4 HTML/Embedded

The input domain is HTML markup or a similar markup language.

### 3.1.5 Image/File

The input domain is either an image or a file from the user's files or computer.

## 3.2 Test Cases

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
11	<ul style="list-style-type: none"><li>• ePortfolio-name: (empty)</li><li>• page name: (n/a)</li><li>• rich text: (n/a)</li><li>• HTML/embedded: (n/a)</li><li>• image/file: (n/a)</li></ul>	Canvas does not create ePortfolio.	See figure 17.	Pass
12	<ul style="list-style-type: none"><li>• ePortfolio-name: test</li><li>• page name: (empty)</li><li>• rich text: Testing Case 2</li><li>• HTML/embedded: (empty)</li><li>• image/file: (empty)</li></ul>	Canvas notifies user a page title is required.	Canvas creates the page with no warnings. See figure 18.	Fail
13	<ul style="list-style-type: none"><li>• ePortfolio-name: test</li><li>• page name: Testing Case 3</li><li>• rich text: (empty)</li><li>• HTML/embedded: (empty)</li><li>• image/file: (empty)</li></ul>	Canvas creates the page, displaying only the title.	Leaving text blank reverts it to its previous text. See figure 19.	Fail

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
14	<ul style="list-style-type: none"> <li>• ePortfolio-name: test</li> <li>• page name: Testing Case 4</li> <li>• rich text: (empty)</li> <li>• HTML/embedded: "Definitely not HTML code."</li> <li>• image/file: (empty)</li> </ul>	Canvas displays nothing (invalid HTML code).	Canvas treats input as rich text. See figure 20.	Fail
15	<ul style="list-style-type: none"> <li>• ePortfolio-name: test</li> <li>• page name: Testing Case 5</li> <li>• rich text: (empty)</li> <li>• HTML/embedded: (empty)</li> <li>• image/file: A .rar file, approximately 80 MB.</li> </ul>	Canvas informs the user that the file is too large for upload.	Canvas uploads the file after a few minutes. Upload duration was shorter than TC-09. See figure 21.	Fail

The screenshot shows a web form titled "Make an ePortfolio". Below the title is a text input field labeled "ePortfolio Name:". A red speech bubble with the text "Name is required" points to the input field. Below the input field is a checkbox labeled "Make it Public". At the bottom of the form are two buttons: "Make ePortfolio" and "Cancel".

Figure 17: TC-11 actual output

The screenshot shows the ePortfolio dashboard. On the left, there is a sidebar with the user's name "test Zelin Cai" and the page title "Testing Case 2". Below this are navigation links: "Home", "Organize Sections", and "ePortfolio Settings". On the right, there is a header with a "How Do I...?" link, a "Home" link, and a "Organize/Manage Pages" link. Below this is a section titled "Pages for this section" with a "Welcome" link. At the bottom right, there is a button labeled "Edit This Page" and a link labeled "← Back to Portfolio Dashboard".

Figure 18: TC-12 actual output



Figure 19: TC-13 actual output



Figure 20: TC-14 actual output

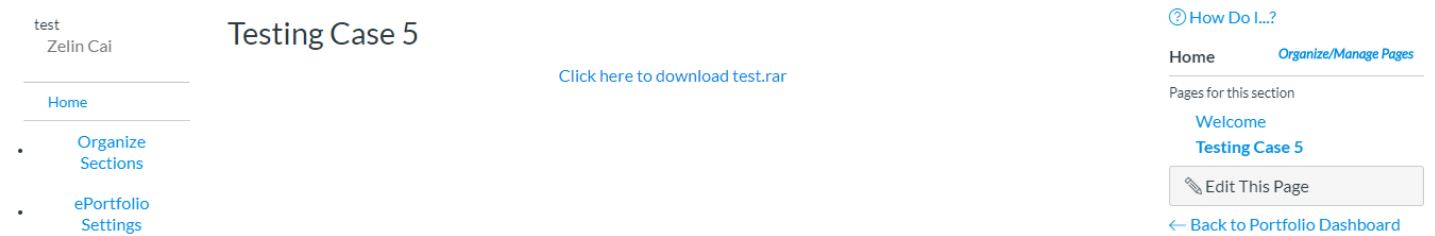


Figure 21: TC-15 actual output

## 4 Files - File Management

### 4.1 Input Domain

The "Files" feature on Canvas encompasses several different subfeatures. The subfeatures we will focus on are file upload, folder creation, file renaming, file deletion, and folder deletion.

#### 4.1.1 File Upload

For file upload, the input domain is a file of any type.

#### 4.1.2 Folder Creation

For folder creation, the input domain is a string representing the folder name.

#### 4.1.3 File Renaming

For file renaming, the input domain includes a file specified via the UI, a string representing the new filename, and a UI input for confirming or discarding the change.

#### 4.1.4 File Deletion

For file deletion, the input domain includes a file specified via the UI, and a UI input for confirming deletion.

#### 4.1.5 Folder Deletion

For file deletion, the input domain includes a folder specified via the UI, and a UI input for confirming deletion.

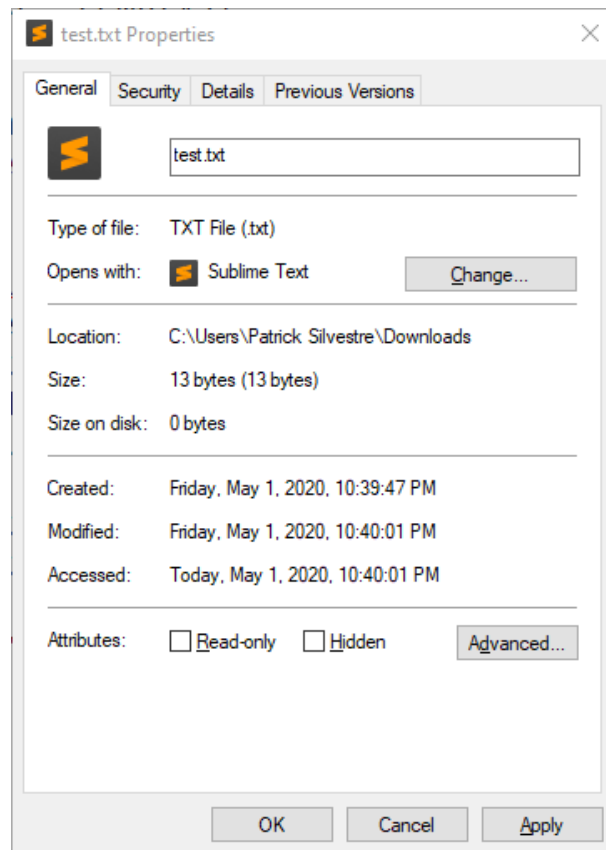


Figure 22: File to be used in applicable "Files" tests.



## 4.2 Test Cases

TC #	Input	Expected Output	Actual Output	Tess Pass/Fail
16	<ul style="list-style-type: none"><li>• UI: click "Upload" button</li><li>• file: <code>test.txt</code></li></ul>	Canvas displays the uploaded file.	See figure 23.	Pass
17	<ul style="list-style-type: none"><li>• folder name: test</li></ul>	Canvas displays the created folder.	See figure 24.	Pass
18	<ul style="list-style-type: none"><li>• specified file: <code>test.txt</code></li><li>• UI: click hamburger (option) menu for specified file</li><li>• UI: click rename option</li><li>• new filename: <code>abcd.txt</code></li><li>• UI: click checkmark (confirm change)</li></ul>	Canvas displays the renamed file.	See figure 25.	Pass
19	<ul style="list-style-type: none"><li>• specified file: <code>abcd.txt</code></li><li>• UI: click hamburger (option) menu for specified file</li><li>• UI: click delete option</li><li>• UI: click "Ok" button</li></ul>	Canvas accurately reflects deletion of file.	See figure 26.	Pass
20	<ul style="list-style-type: none"><li>• specified folder: <code>test</code></li><li>• UI: click hamburger (option) menu for specified folder</li><li>• UI: click delete option</li><li>• UI: click "Ok" button</li></ul>	Canvas accurately reflects deletion of folder.	See figure 27.	Pass

Search for files

Q

0 items selected

+ Folder

Upload

My Files

conversation attachments

profile pictures

Submissions

SP20: CS-149 Sec 01 - Operatin

CMPE/SE Major Advising

SP20: CS-166 Sec 01 - Informati

SP20: CMPE-165 Sec 02 - SW E

Team 21

Last Name: M-Z

Name	Date Created	Date Modified	Modified By	Size	
conversation attachments	Aug 14, 2018			--	✓
profile pictures	Aug 18, 2018			--	✓
Submissions	Aug 22, 2018			--	
test.txt	11:43pm	11:43pm		13 bytes	✓

Figure 23: TC-16 actual output

Search for files

Q

0 items selected

+ Folder

Upload

My Files

conversation attachments

profile pictures

Submissions

test

SP20: CS-149 Sec 01 - Operatin

CMPE/SE Major Advising

SP20: CS-166 Sec 01 - Informati

SP20: CMPE-165 Sec 02 - SW E

Team 21

Name	Date Created	Date Modified	Modified By	Size	
conversation attachments	Aug 14, 2018			--	✓
profile pictures	Aug 18, 2018			--	✓
Submissions	Aug 22, 2018			--	
test	11:43pm			--	✓
test.txt	11:43pm	11:43pm		13 bytes	✓

Figure 24: TC-17 actual output

Search for files

Q

0 items selected

+ Folder

Upload

My Files

conversation attachments

profile pictures

Submissions

test

SP20: CS-149 Sec 01 - Operatin

CMPE/SE Major Advising

SP20: CS-166 Sec 01 - Informati

SP20: CMPE-165 Sec 02 - SW E

Team 21










Name	Date Created	Date Modified	Modified By	Size	
 <a href="#">abcd.txt</a>	11:43pm	11:43pm		13 bytes	
 <a href="#">conversation attachments</a>	Aug 14, 2018			--	
 <a href="#">profile pictures</a>	Aug 18, 2018			--	
 <a href="#">Submissions</a>	Aug 22, 2018			--	
 <a href="#">test</a>	11:43pm			--	

Figure 25: TC-18 actual output

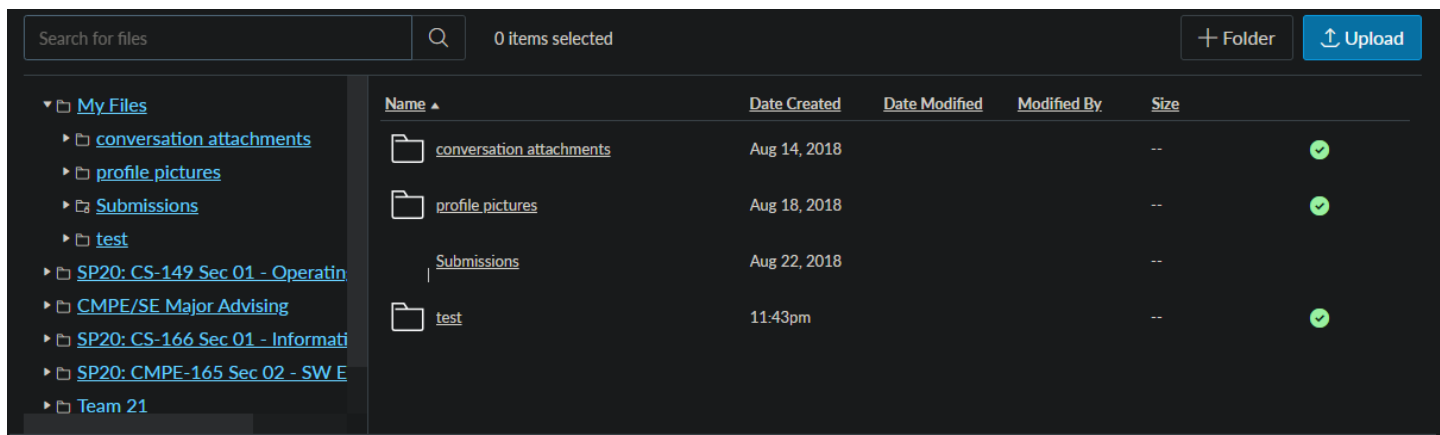


Figure 26: TC-19 actual output

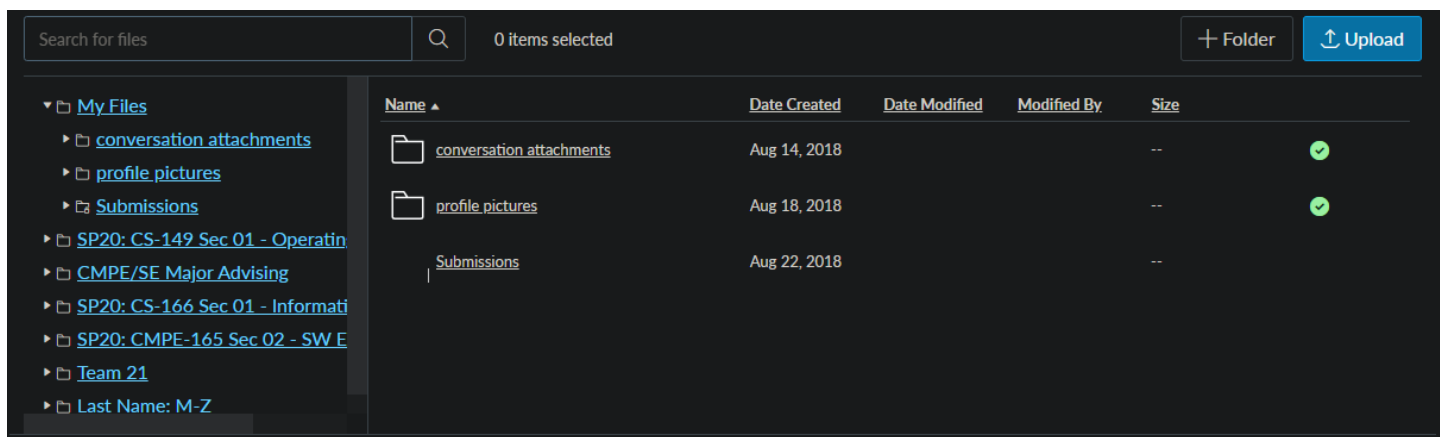


Figure 27: TC-20 actual output