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# Story Statement

**Story:**

As a Gmail user,  
I would like to send emails with an image attachment,  
So I can share pertinent images.

* **Normal Flow:** Attaching to an email (with subject) image(s) and sending to recipient
  + Given I am logged in
  + When I compose an email
  + And I enter a valid recipient
  + And I enter subject
  + When I select the file I want to send
  + And I send the email
  + Then the email shall be sent
  + And the email is in the sent folder
* **Alternative Flow:** Sending image(s) without a subject and body
  + Given I am logged in
  + When I compose an email
  + And I enter a valid recipient
  + When I select the file I want to send
  + And I send the email
  + Then the system shall warn me that there is no subject nor body
  + When I acknowledge the warning
  + Then the email shall be sent
  + And the email is in the sent folder
* **Alternative Flow:** Attaching an image that is too large
  + Given I am logged in
  + When I compose an email
  + And I enter a valid recipient
  + And I enter subject
  + When I select the file I want to send
  + But the cumulative size of the files exceed the attachment limit
  + Then the system shall attach the file(s) as google drive link(s)
  + When I send the email
  + And I confirm drive permissions
  + Then the email shall be sent
  + And the email is in the sent folder
* **Error Flow:** Attaching an image and sending to an invalid recipient
  + Given I am logged in
  + When I compose an email
  + And I input an invalid recipient
  + And I enter subject
  + When I select the file I want to send
  + And I send the email
  + Then an error message shall be returned
  + And the email shall not be sent

# Acceptance Test Statement (Gherkin)

**Feature:** Gmail  
  
 **Scenario Outline:** Attaching to an email (with text) image(s) and sending to recipient  
 **Given** I am logged in  
 **When** I compose an email  
 **And** I enter a valid **<valid email>** recipient  
 **And** I enter subject **<text>  
 When** I select the file **<file>** I want to send  
 **And** I send the email  
 **Then** the email shall be sent  
 **And** the email is in the sent folder with **<valid email>** recipient, and subject **<text>  
  
 Examples:  
 | valid email | file | text |  
  
  
 Scenario Outline:** Sending image(s) without a subject and body  
 **Given** I am logged in  
 **When** I compose an email  
 **And** I enter a valid **<valid email>** recipient  
 **When** I select the file **<file>** I want to send  
 **And** I send the email  
 **Then** the system shall warn me that there is no subject nor body  
 **When** I acknowledge the warning  
 **Then** the email shall be sent  
 **And** the email is in the sent folder with only **<valid email>** recipient  
  
 **Examples:  
 | valid email | file |  
  
  
 Scenario Outline:** Attaching an image that is too large  
 **Given** I am logged in  
 **When** I compose an email  
 **And** I enter a valid **<valid email>** recipient  
 **And** I enter subject **<text>  
 When** I select the file **<file>** I want to send  
 **But** the cumulative size of the files exceed the attachment limit  
 **Then** the system shall attach the file(s) **<file>** as google drive link(s)  
 **When** I send the email  
 **And** I confirm drive permissions for **<valid email>  
 Then** the email shall be sent  
 **And** the email is in the sent folder with **<valid email>** recipient, and subject **<text>  
  
 Examples:  
 | valid email | file | text |  
  
 Scenario Outline:** Attaching an image and sending to an invalid recipient  
 **Given** I am logged in  
 **When** I compose an email  
 **And** I input an invalid **<invalid email>** recipient  
 **And** I enter subject **<text>  
 When** I select the file **<file>** I want to send  
 **And** I send the email  
 **Then** an error message shall be returned  
 **And** the email shall not be sent  
  
 **Examples:  
 | invalid email | file | text |**

For the examples see <**gmail.feature**> file.

# Source Code

All pertinent files can be found in the GitHub repo: <https://github.com/Gabetn/ECSE428A2>

The video of the execution of tests can be seen here: <https://youtu.be/UAn-E06sDg4>

Files included:

1. Cucumber Feature File (***gmail.feature***)
   1. Located at: ECSE428A2/src/test/resources/ecse428a2/gmail.feature

This file holds the cucumber scenario definitions. Including the examples used in the outlines.

1. Step Definitions (***StepDefinitions.java***)
   1. Located at: ECSE428A2/src/test/java/ecse428a2/StepDefinitions.java

This file holds the java implementation of the scenarios. Including the use of selenium.

1. Test Runner (***RunCucumberTest.java***)
   1. Located at: ECSE428A2/src/test/java/ecse428a2/RunCucumberTest.java

This file holds the runner code. Running this fill will trigger all scenario run-throughs as described by the gherkin.

1. Maven Setup (***pom.xml***)
   1. Located at: ECSE428A2/pom.xml

This file holds the dependencies of the projects to be built by maven. See [*Environment Description*](#_Maven_Setup)*.*

1. Pictures
   1. ECSE428A2/pics/xl1.jpg
   2. ECSE428A2/pics/xl2.jpg
   3. ECSE428A2/pics/large.jpg
   4. ECSE428A2/pics/large2.jpg
   5. ECSE428A2/pics/medium.jpg
   6. ECSE428A2/pics/small.jpg

This folder holds all the images which were used in the feature examples.

# Environment Description

## Personal Environment

While creating this project I made use of the following hardware and software: I was utilizing a Windows 10 laptop running Java 8 and Maven 4. I developed and built the project in IntelliJ Ultimate IDE. I also made use of the ChromeDriver as a webdriver for Google Chrome. For recording the tests I made use of OBS studio.

## Maven Setup

The following dependencies were added in my <***pom.xml***> file: Cucumber (2.3.1), junit (4.1.2), selenium (3.2.0).   
 For reference the code is displayed below:

<dependencies>  
 <dependency>  
 <groupId>io.cucumber</groupId>  
 <artifactId>cucumber-java</artifactId>  
 <version>2.3.1</version>  
 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>io.cucumber</groupId>  
 <artifactId>cucumber-junit</artifactId>  
 <version>2.3.1</version>  
 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>junit</groupId>  
 <artifactId>junit</artifactId>  
 <version>4.12</version>  
 <scope>test</scope>  
 </dependency>  
 <dependency>  
 <groupId>org.seleniumhq.selenium</groupId>  
 <artifactId>selenium-java</artifactId>  
 <version>3.2.0</version>  
 </dependency>  
</dependencies>

# Installation Instructions

1. Download codebase