Jala University
Laboratorio Semana 5

Curso: Software Quality Engineering 2

Grupo: A

Sección: B

Equipo: N°6 (Test Masters):

- Richard Choque
- Mateo Olarte
- Guido Mamani
- Thiago Hinojosa
- Santiago Uribe
- Mateo Escobar
- Agustin Deluca

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Actividad 1:

Aplicar la técnica de Combinatorial testing (all pairs) para el feature 'Create Events' de la aplicación (https://sparta.actio.ses-unit.com/)

I. **Identificar y listar las variables del feature "Create Events" que pueden combinarse entre sí e incluir los valores a combinar de las variables elegidas. Para este punto se recomienda revisar todo el wizard de creación de evento para determinar las combinaciones relevantes entre las variables.**

Consideramos separar ambos tipos de Formularios en diferentes tablas como independientes:

MÚLTIPLE:

Lista de variables y Valores en el [documento Excel]

Lógica aplicada:

Relación entre el tipo de audiencia y los dominios:

- Si la **Audience Information** es **public**, entonces el dominio debe ser "**None**".
- Si el **Domain** es **"None"**, entonces la audiencia debe ser **public**.
- Si la **Audience Information** es **public**, entonces la opción **Domains_Active** debe ser **False**.
- Si la **Audience Information** es **private**, entonces **Domains_Active** debe ser **True**.

Condiciones Relacionadas con el Attendance Type y la place/URL

- Si el **Attendance Type** es **Presential**, el campo de **Place/URL** debe contener una **value length**(texto con dirección física).
- Si **Attendance Type** es "**External Online Link**", entonces **Place/URL** debe tener un valor que sea una URL válida.

Reglas para la imagen general del evento:

- Si **Image** es "**Absent**", entonces **ImageSizeMB** debe ser "**none**".
- Si **Image** es "**Absent**", entonces **ImageFormat** debe ser "**none**".
- Si **Image** es "**Present**", entonces **ImageSizeMB** debe ser "**Over10MB**".
- Si **Image** es "**Present**", entonces **ImageFormat** debe ser distinto de "**none**".

Reglas para la imagen de la actividad:

- Si **Activity Image** es "**Absent**", entonces **ActivityImageSizeMB** debe ser "**none**".
- Si **Activity Image** es "**Absent**", entonces **ActivityImageFormat** debe ser "**none**".
- Si **Activity Image** es "**Present**", entonces **ActivityImageSizeMB** debe ser "**Over10MB**".
- Si **Activity Image** es "**Present**", entonces **ActivityImageFormat** debe ser distinto de "**none**".

SINGLE:

Lista de variables y Valores en el documento Excel

Lógica aplicada:

Relación entre Attendance Type y Place/URL:

- Si **Attendance Type** es "**Presential**", entonces **Place/URL** debe ser "**Valid Length**".
- Si **Attendance Type** es "**External Online Link**", entonces **Place/URL** debe ser "Valid URL".

Relación entre Audience Information, Domain y Domains_Active:

- Si **Audience Information** es "**Public**", entonces **Domain** debe ser "**None**".
- Si **Domain** es "**None**", entonces **Audience Information** debe ser "**Public**".
- Si **Audience Information** es "**Public**", entonces **Domains_Active** debe ser "**False**".

- Si **Audience Information** es "**Private**", entonces **Domains_Active** debe ser "**True**".

Relación entre Image, ImageSizeMB y ImageFormat:

- Si **Image** es "**Absent**", entonces **ImageSizeMB** debe ser "**none**".
- Si **Image** es "**Absent**", entonces **ImageFormat** debe ser "**none**".
- Si **Image** es "**Present**", entonces **ImageSizeMB** debe ser "**Over10MB**".
- Si **Image** es "**Present**", entonces **ImageFormat** debe ser distinto de "**none**".

II. **Generar las combinaciones mediante el uso de una herramienta de combinatoria. Ej. pict https://pairwise.yuuniworks.com/**

Mediante la lista de variables, valores y la configuración lógica Creamos las combinaciones en el mismo documento Excel.

III. **Analizar las combinaciones generadas (considerar solamente los valores válidos) Se espera una tabla de las combinaciones válidas para testear el feature.**

Nuestra tabla fue hecha con todas las condiciones que tiene el formulario. Así nos aseguramos que las combinaciones creadas por la herramienta sean válidas y testeables.

IV. **Cada estudiante debe diseñar 2 Low Level TCs (en inglés), coordinar entre los miembros del equipo para no repetir Test Cases. Crear los test cases en Zephyr y adjuntar el excel file exportado.**

I. **Mateo Escobar**

ID	SQE2-T119
Title	Create a public event without an image and an activity with a BMP image at the basic presentation level remotely
Status	Draft
Requirements	Hardware: PC or laptop with internet connection. Software: Updated web browser. Test account with admin privileges.
Description	Validate that the website allows the creation of a public event without attaching an image, inviting at least one user. Then, when creating an activity, it must be created using a BMP image of up to 10 MB, with basic presentation settings and remote mode. The system must accept the image without errors and allow the flow to complete without interruptions, complying with the maximum upload requirements and allowed formats.
Priority	Normal
Labels	Events
Owner	Mateo Escobar
Estimated Time	5 MIN
Expected Result	The system allows you to create a public event without attaching an image. Activity creation completes successfully when you attach an image in .BMP format up to 10MB in size. The system accepts the BMP format without errors when saving. The "basic" presentation level and the "remote" mode are registered correctly. The event and activity are visible and accessible.

Steps	- Open browser and navigate to https://sparta.actio.ses-unit.com/. - Login with admin credentials. - Go to the Create Event form. - Select Multiple for Event Type. - Enter a valid Event Name. - Click Continue. - Enter a valid Description. - Select the option "Public". - In the Image field, don't upload an image. - Click on continue and load. - Click on create activity. - Enter valid Activity name. - In the image field, upload a BMP smaller than 10 MB. - Enter a valid description. - Enter basic presentation information. - Create a remote event - Insert a link. - Select a limit for participants. - Insert an activity start date. - Insert an activity end date. - Save Activity.

ID	SQE2-T120
Title	Create a private event with a PNG image, with domain restriction, and an activity with a PNG image at a basic presentation level remotely.
Status	Draft
Requirements	Hardware: PC or laptop with internet connection. Software: Updated web browser. Test account with admin privileges.
Description	Validate that the website allows the creation of a private event restricted to the "jalagroup.com" domain, attaching a PNG image of up to 10MB as a cover, without inviting any specific users. Then, validate that the activity can be created with a PNG image of up to 10MB, basic presentation level, and remote mode, without setting an attendance limit. The system must accept the PNG image without errors and complete both flows successfully.

Priority	Normal
Labels	Events
Owner	Mateo Escobar
Estimated Time	5 MIN
Expected Result	The system allows you to create a private event restricted to the "jalagroup.com" domain. PNG images up to 10 MB are accepted. No specific user invitations are required. The activity was successfully created with a PNG image up to 10 MB. The "Basic" presentation level and remote mode were successfully registered. The event and activity are visible and accessible.
Steps	1. Open your browser and navigate to https://sparta.actio.ses-unit.com/. 2. Login with administrator credentials. 3. Go to the "Create Event" form. 4. Select "Multiple" as the Event Type. 5. Enter a valid Event Name. 6. Click Continue. 7. Enter a valid Description. 8. Select the "Private" option. 9. In the "Domain Restriction" field, enter "jalagroup.com". 10. In the "Image" field, upload a PNG file that is 10 MB or smaller. 11. Do not invite any specific users. 12. Click Continue and then "Upload". 13. Click "Create Activity". 14. Enter a valid Activity Name. 15. In the "Image" field, upload a PNG file that is 10 MB or smaller. 16. Enter a valid description. 17. Select the basic presentation information. 18. Select "Remote Event." 19. Insert a valid link. 20. Do not select an attendance limit. 21. Enter a valid start date for the activity. 22. Enter a valid end date for the activity. Save the activity.

II. Agustin De Luca

ID	SQE2-T21
Title	Validate event creation with invalid image size (over 10MB) in Private event configuration
Status	Draft
Requirements	Hardware: PC or laptop with internet connection. Software: Updated web browser. Test account with admin privileges.
Description	Ensure that when creating a Private event and uploading an image over 10MB in BMP format, the system blocks submission and displays the correct validation message, only allowing submission when a valid image (less than 10MB) is uploaded.
Priority	High
Labels	Image Validation, Event Creation, Negative Test
Owner	Agustín De Luca
Estimated Time	5 minutes
Expected Results	System must prevent submission with an oversized image and display the appropriate error message. Submission should be possible after replacing it with a valid image (under 10MB).
Steps	1. Open browser and navigate to https://sparta.actio.ses-unit.com/. 2. Log in with admin credentials. 3. Go to the Create Event form. 4. Select Multiple for Event Type. 5. Enter a valid Event Name. 6. Click Continue. 7. Enter a valid Description. 8. In the Image field, upload a BMP image larger than 10MB. 9. Observe any validation messages. 10. Attempt to submit the event. 11. Verify submission is blocked with the correct error message. 12. Remove the oversized image, upload a valid image (< 10MB). 13. Confirm submission is now accepted.

ID	SQE2-T22
Title	Validate Public Event creation with active attendee limit and domain deactivated
Status	Draft
Requirements	Hardware: PC or laptop with internet connection. Software: Updated web browser. Admin test account.
Description	Verify that when creating a Public event with attendee limit enabled and domain deactivated, the system successfully allows submission and records all values as configured.
Priority	Medium
Labels	Event Creation, Attendee Limit, Public Event
Owner	Agustín De Luca
Estimated Time	4 minutes
Expected Results	The system should successfully create the Public event with the attendee limit active and without any domains active. All field values must save correctly and the event should appear on the event list.
Steps	1. Open browser and go to https://sparta.actio.ses-unit.com/. 2. Log in with admin credentials. 3. Go to Create Event form. 4. Set Event Type to Multiple. 5. Enter a valid Event Name. 6. Click Continue. 7. Fill in a valid Description. 8. Leave Image field empty. 9. Set Audience Information to Public. 10. Disable Domains_Active. 11. Enable Invite Users. 12. Activate Limit the number of attendees. 13. Enter a valid Max Attendance value. 14. Fill out Start and End date/time fields. 15. Submit the form. 16. Verify the event appears correctly in the list with all selected options saved.

III. Mateo Olarte

ID	SQE - T121
Title	Verify that Multiple Event is created successfully when Event Image and Activity Image are used with BMP format, private event is true with jalasoft.com domain, the attendance type is with a external online link and presentation level is intermediate.
Status	NOT RUN
Requirements	- Hardware: PC or Laptop - Software: Google Chrome - Version: 132.0.6834.222 (Oficial Build) (64 bits) Firefox - Version: 138.0 (Beta) - Setup: Browser free of cache and cookies - Administrator account
Description	Verify that Multiple Event is created when we use both images available (Event image and activity image) with BMP format, private event with jalasoft.com domain and the attendance type is with URL. Review excel file, Sheet "Multiple", row 57 to see all the details.
Priority	Normal
Labels	Create_events, event
Owner	Ivar Mateo Olarte Peñarrieta
Estimated run time	6 minutes
Expected Results	Verify that most of the data we write is in the "Event Details" Area. Such as, Organizer, Name Event, Description Event and Schedule. Finally Scrolling down we have to see the activity created as well. With data like name, date, presenter and URL.
Steps	1. Access to actio with the administrator account. 2. Click on "create event". 3. Click on the field "Workspace" and choose one option 4. Select the "multiple" option in Event type area 5. Click "Continue" 6. Click on "Event name" field and and write a valid option (EG. "Combinatorial Low Level test Case")

	7. Click "Continue"
	8. Click on "Description" Field and write a valid text(EG. "This is a combinatorial Low Level test case by -QA name-")
	9. Scroll down to Audience information area and choose "Private" option
	10. Click on "X" circle from the most of domains option, except "jalasoft.com"
	11. Click on "Invite Users" field and write a valid mail (eg, patricia.garces@jalasoft.com)
	12. Scroll down and click on "Select image" field
	13. Choose an image and click it in the folder window that already appear with BMP format and no larger than 10 MB.
	14. Click "Open" in the folder window
	15. Click on "Save and Continue"
	16. Click on "Create Activity" button
	17. Click on "title" field and and write a valid option (EG. "Combinatorial activity title")
	18. Click on "Select image" field
	19. Choose an image and click it in the folder window that already appear with BMP format and no larger than 10 MB.
	20. Click "Open" in the folder window
	21. Scroll down and write a valid Description to the activity (EG, "Combinatorial test, activity Description")
	22. Click on "Presenter" field and write a valid name (EG, Mateo Olarte)
	23. Click on "Presentation Level" menu and choose "Intermediate"
	24. Scroll down to "Location" Area
	25. Click on "Attendance type" menu and choose "External online link" option.
	26. Click on "Link" field and put a link (EG, https://meet.google.com/landing)
	27. Click on "Start Date time" field and choose a valid date (Minimum 24 hours after the time this TC is executed)
	28. Click on "End Date time" field and choose a valid date (Minimum 48 hours after the time this TC is executed)
	29. Click on "Save Activity" button
	30. Click on Save and Publish
	Verification Steps:
	1. Click on the search option in the Bar Menu
	2. Write the name selected to this Event ✓
	3. Click on the event after it appear in the Main Menu

ID	SQE - T124
Title	Verify that a single event is successfully creates when the attendante type is presential, the Limit number of attendees is able, the presentation level is intermediate, the public only has jala.university domain and the image event is JPEG format.
Status	NOT RUN
Requirements	- Hardware: PC or Laptop - Software: Google Chrome - Version: 132.0.6834.222 (Oficial Build) (64 bits) Firefox - Version: 138.0 (Beta) - Setup: Browser free of cache and cookies - Administrator account
Description	Verify that a single event is successfully created when the following parameters are configured: the attendance type is presential, the limit number of attendees option is enabled, the presentation level is set to intermediate, the allowed public is restricted to the jala.university domain, and the event image is in JPEG format. Review the Excel document, Sheet "Single", row 43
Priority	Normal
Labels	Create_events, event
Owner	Ivar Mateo Olarte
Estimated run time	6 minutes
Expected Results	Verify that most of our data written previously is in "Event Details Area", Such as, Organizer, Schedule, Title, description, the image we uploaded and the presenter.
Steps	1. Access to actio with the administrator account. 2. Click on "create event". 3. Click on the field "Workspace" and choose one option 4. Select the "single" option in Event type area 5. Click "Continue" 6. Click on "event name" field and write a valid one (e.g, Combinatorial testing test) 7. Click on the "Attendance type" menu and choose the "Presential" option. 8. Click on "Place" field and put a link (EG, Av, Melchor Perez de olguín #2634) 9. Check on "Limit the number of attendees" checkbox 10. Put a valid number of attendees in "Max attendees" field 11. Click on "Start Date time" field and choose a valid date

| | (Minimum 24 hours after the time this TC is executed)
12. Click on "End Date time" field and choose a valid date (Minimum 48 hours after the time this TC is executed)
13. Click on "Description" Field and write a valid text(EG. "This is a combinatorial Low Level test case by -QA name-")
14. Click on "Presenter" field and write a valid name (EG, Jhon Doe)
15. Click on "Presentation Level" menu and choose "Intermediate"
16. Scroll down to Audience information area and choose "Private" option
17. Delete most of the domains clicking the "X" circle, except "jala.university" domain
18. Scroll down and click on "Select image" field
19. Choose an image and click it in the folder window that already appears with JPEG format and no larger than 10 MB.
20. Click "Open" in the folder window
21. Click on "Save and Publish"

Verification Steps:

1. Click on the search option in the Bar Menu
2. Write the name selected to this Event
3. Click on the event after it appear in the Main Menu | ✓ |

IV.   Guido Rafael Mamani

ID	SQE2-T122
Title	Create a private event with PNG image and domain restriction to jala-foundation.org, with activity without image, advanced presentation level and external online link
Status	Draft
Requirements	- Hardware: PC or laptop with internet connection. - Software: Updated web browser. -Test account with admin privileges.
Description	Validate that the website allows the creation of a private event restricted to the "jala-foundation.org" domain, attaching a PNG image over 10MB as cover, and inviting users. Then, validate that an activity can be created without attaching an image, with advanced presentation level and external online link mode,

	without setting an attendance limit. The system must accept the PNG image without errors and complete both flows successfully.
Priority	Normal
Labels	Events
Owner	Guido Mamani
Estimated Time	6 min
Expect	- The system allows creating a private event restricted to "jala-foundation.org" domain - PNG images over 10MB are NOT accepted for the main event - Activity creation completes without image attachment - Advanced presentation level and external online link are registered correctly
Steps	1. Open browser and navigate to https://sparta.actio.ses-unit.com/ 2. Login with admin credentials 3. Go to the Create Event form 4. Select Multiple for Event Type 5. Enter a valid Event Name 6. Click Continue 7. Enter a valid Description 8. Select the option "Private" 9. In the Domain field, enter "jala-foundation.org" 10. In the Image field, upload a PNG file over 10MB (**It should not let you upload the image**) 11. Enable "Invite Users" option 12. Click Continue and Upload 13. Click "Create Activity" 14. Enter valid Activity Name 15. In the image field, do not upload any image 16. Enter a valid activity description 17. Enter advanced presentation information 18. Select "External Online Link" for attendance type 19. Insert a valid URL 20. Do not activate "Limit the number of attendees" 21. Insert a valid activity start date 22. Insert a valid activity end date 23. Save Activity

ID	SQE2-T123

Title	Create a private event with JPEG image and gmail.com domain restriction, with activity with JPEG image, basic presentation level and presential attendance
Status	Draft
Requirements	- Hardware: PC or laptop with internet connection. - Software: Updated web browser. -Test account with admin privileges.
Description	Validate that the website allows the creation of a private event restricted to the "gmail.com" domain, attaching a JPEG image over 10MB as cover, without inviting specific users. Then, validate that an activity can be created with a JPEG image over 10MB, basic presentation level and presential mode, without setting an attendance limit. The system must accept both JPEG images without errors and complete both flows successfully.
Priority	Normal
Labels	Events
Owner	Guido Mamani
Estimated Time	6 min
Expect	- The system allows creating a private event restricted to "gmail.com" domain - JPEG images over 10MB are NOT accepted for both event and activity
Steps	1. Open browser and navigate to https://sparta.actio.ses-unit.com/ 2. Login with admin credentials 3. Go to the Create Event form 4. Select Multiple for Event Type 5. Enter a valid Event Name 6. Click Continue 7. Enter a valid Description 8. Select the option "Private" 9. In the Domain field, select option "gmail.com" 10. In the Image field, upload a JPEG file over 10MB (**It should not let you upload the image**) 11. Do not enable "Invite Users" option 12. Click Continue and Upload 13. Click "Create Activity" 14. Enter valid Activity Name 15. In the image field, upload a JPEG file over 10MB (**It should not**

	let you upload the image) 16. Enter a valid activity description 17. Leave Presentation Info empty 18. Select "Basic" for presentation level 19. Select "Presential" for attendance type 20. Enter a valid physical address in Place/URL field 21. Do not activate "Limit the number of attendees" 22. Insert a valid activity start date 23. Insert a valid activity end date 24. Save Activity

V.   Richard Choque

ID	SQE2-T125
Título	Create Event: Verify that when creating an "Event Single" with configuration #9: Online Event, Public, Attendee limit, and without domain or image, the "Event Single" is created correctly.
Status	Draft
Requerimientos	Hardware: ● PC or Laptop Software: ● Google Chrome - Firefox Setup: ● Browser free of cache and cookies ● account Actio ● Excel file: Excel Pairwise
Descripción	Validate that the "Event Create" function with a focus on "Event Type Single" correctly creates an event using configuration #9 from the Excel: Excel Pairwise Event Name: Valid Audience Information: Public Attendance Type: Online Place/URL: Valid Limit the number of attendees: True

	Max Attendance: Valid Start Date Time: Valid End Date Time: Valid Description: Valid Presentation Info: Valid Presentation Level: Basic Domains_Active: False Image: None
Prioridad	Normal
Labels	Event Single
Owner	Richard Choque Canaviri
Tiempo Estimado	0:06
Resultados Esperados	The Event Creation functionality focused on Simple Events in Actio, using configuration #9 from Excel: Excel Pairwise, should successfully create the event.
Steps	1. Open the Firefox or Chrome browser. 2. Go to the page: https://sparta.actio.ses-unit.com/ 3. Log in with an Actio account. 4. You will land on the Home screen by default. 5. Locate the "Create Event" option. 6. Access "Create Event "→ "Event Context." 7. In "Event Context", select the Workspace and set "Event Type = Single". 8. Continue to the next step → "Basic Info" 9. Enter a valid "Event Name" 10. Change "Attendance Type" to "External Online Link" 11. Enter a valid "Link" 12. Activate the checkbox "Limit the number of attendees" 13. Enter a valid number in "Max attendees" field (0 < x < 10000) 14. Enter a valid "Start Date Time" 15. Enter a valid "End Date Time" 16. Continue to the next step → "Details" 17. Enter a valid "Description" 18. Enter the "Presenter" name 19. Change "Presentation Level" to Basic 20. Set "Audience Information" to Public 21. In "Select Image", do not upload any image 22. Save and create the event by clicking "Save and Publish"

✓

	Verification Steps: 1.- Go to Actio's Home Search for it in the event gallery on Home or At the top center in the "Workspace" section, open the dropdown and select "Events from my communities" 2.- Verify if the event exists in "Coming Events"

ID	SQE2-T126
Título	Create Event: Verify that when creating an "Event Single" with configuration #25: In-person Event, Public, Intermediate presentation level, and with a GIF, the "Event Single" is created correctly.
Status	Draft

Requerimientos	Hardware:
	
	   ● PC or Laptop
	
	Software:
	
	   ● Google Chrome - Firefox
	
	Setup:
	
	   ● Browser free of cache and cookies
	   ● account Actio
	   ● Exel file: Exel Pairwise

Descripción	Validate that the "Event Create" function with a focus on "Event Type Single" correctly creates an event using configuration # 25 from the Excel: Exel Pairwise Event Name: Valid Audience Information: Public Attendance Type: Presential Limit the number of attendees: False Start Date Time: Valid End Date Time: Valid Description: Valid Presentation Info: Valid

	Presentation Level: Intermediate Domains_Active: False Image: Present ImageSizeMB : Over10MB ImageFormat: GIF
Prioridad	Normal
Labels	Event Single
Owner	Richard Choque Canaviri
Tiempo Estimado	0:06
Resultados Esperados	The Event Creation functionality focused on Simple Events in Actio, using configuration #25 from Excel: Exel Pairwise, should successfully create the event.
Steps	1. Open the Firefox or Chrome browser. 2. Go to the page: https://sparta.actio.ses-unit.com/ 3. Log in with an Actio account. 4. You will land on the Home screen by default. 5. Locate the "Create Event" option. 6. Access "Create Event "→ "Event Context." 7. In "Event Context", select the Workspace and set "Event Type = Single". 8. Continue to the next step → "Basic Info" 9. Enter a valid "Event Name" 10. Change "Attendance Type" to "Presencial" 11. Enter a valid "Start Date Time" 12. Enter a valid "End Date Time" 13. Continue to the next step → "Details" 14. Enter a valid "Description" 15. Enter the "Presenter" name 16. Change "Presentation Level" to Intermediate 17. Set "Audience Information" to Public 18. In "Select Image", upload GIF image 19. Save and create the event by clicking "Save and Publish" **Verification Steps:** 1.- Go to Actio's Home Search for it in the event gallery on Home or At the top center in the "Workspace" section, open the dropdown and select "Events from my communities" 2.- Verify if the event exists in "Coming Events"

Actividad Adicional:

Aplicar la técnica de Combinatorial testing (all pairs) para el feature 'Filters' de la aplicación (https://sparta.actio.ses-unit.com/)

Identificar las variables con sus respectivos valores que pueden combinarse.

Variable	Possible values	Extra
Events	All events, registeted only y from my communities	
Event type	all, single, multiple	
Event attendance type	all, presential, external online link	
Date	Coming and past events, today, this week, this weekend, next week, this month, next month, custom date	If select custom date activate calendar.
Display calendar	true, false	true = activate calendar
Start Date Time	Valid Length, none	
End date Time	Valid Length, none	

I. **Generar las combinaciones mediante el uso de una herramienta de combinatoria. Ej. https://pairwise.yuuniworks.com/**

Mediante la lista de variables, valores y la configuración lógica Creamos las combinaciones en el mismo [documento Excel](#) en la página de adicional.

II. **Analizar las combinaciones generadas (considerar solamente los valores válidos)**

Nuestra tabla fue hecha con todas las condiciones que tiene el formulario. Así nos aseguramos que las combinaciones creadas por la herramienta sean válidas y testeables.

Colaboración de cada estudiante

Estudiante	Contribución	Punto/Inciso trabajado	Comentarios extras
Agustin Deluca	Alta	Actividad 1: ● Se mencionó variables y valores posibles de las mismas. ● Se generó uno de los pairwise con los valores que iban cambiando. ● Se aportó a las condicionales. ● Se hicieron los 2 LLTC.	
Guido Mamani	Alta	Actividad 1: ● Se mencionó variables y valores posibles de las mismas. ● Se aportó a las condicionales. ● Se hicieron los 2 LLTC. Actividad 2 (opcional): ● Se identificaron las variables ● Se generó el pairwise. ● Se contemplaron las condicionales	

Mateo Escobar	Alta	Actividad 1: • Se mencionó variables y valores posibles de las mismas. • Se generó uno de los pairwise con los valores que iban cambiando. • Se aportó a las condicionales. • Se hicieron los 2 LLTC. Actividad 2 (opcional): • Se identificaron las variables • Se generó el pairwise. • Se contemplaron las condicionales	
Mateo Olarte	Alta	Actividad 1: • Se documentó las condicionales que se configuraron en los pairwise dentro del documento presente. • Se mencionó variables y valores posibles de las mismas. • Se generaron y editaron los pairwise con los valores que iban cambiando.	

		• Se aportó a las condicionales. • Se hicieron los 2 LLTC.	
Richard Choque	Media	Actividad 1: • Se mencionó variables y valores posibles de las mismas. • Se aportó a las condicionales. • Se hicieron los 2 LLTC.	
Thiago Hinojosa	Nula	-	No realizo
Santiago Uribe	Nula	-	No realizo