

DIAGRAMAS DE ACTIVIDADES

Repositorio: <https://real-world-plantuml.com/?type=activity>

Número de diagramas: 50

Número total: 134

#	HU	HU (INGLÉS)	Código PlantUML	Diagrama
1	Como usuario, quiero que el proceso pase por fases de inicialización, transferencia y terminación, para garantizar que cada etapa se ejecute en orden y el flujo se complete correctamente.	As a user, I want the process to go through initialization, transfer, and termination phases, so that each stage executes in order and the flow completes correctly.	@startuml start :Init Phase; :Transfer Phase; :Termination Phase; stop @enduml	<pre> graph TD Start(()) --> InitPhase([Init Phase]) InitPhase --> TransferPhase([Transfer Phase]) TransferPhase --> TerminationPhase([Termination Phase]) TerminationPhase --> End((())) </pre>

2

Como administrador del sistema, **quiero** restringir un conjunto de derechos y procesar todos los elementos dependientes, actualizaciones de cantidades, certificados y cumplimiento, **para** asegurar la consistencia de la información.

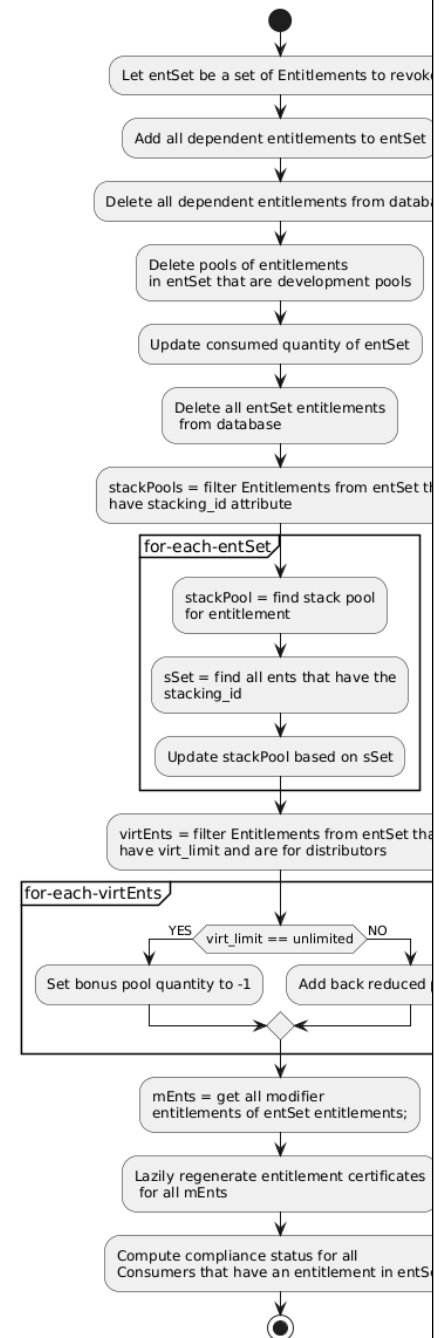
As a system administrator, I want to restrict a set of rights and process all dependent elements, quantity updates, certificates, and compliance, to ensure information consistency.


@startuml
start

```


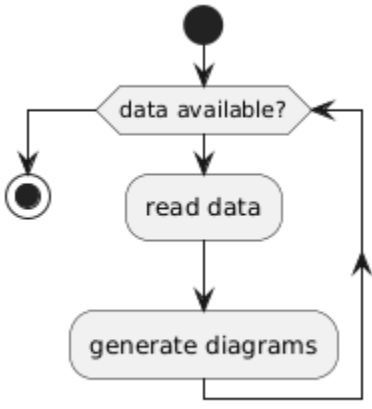
:Let entSet be a set of Entitlements to revoke;
:Add all dependent entitlements to entSet;
:Delete all dependent entitlements from database;
:Delete pools of entitlements in entSet that are development pools;
:Update consumed quantity of entSet;
:Delete all entSet entitlements from database;
:stackPools = filter Entitlements from entSet that have stacking_id attribute;
partition for-each-entSet {
:stackPool = find stack pool for entitlement;
:sSet = find all ents that have the stacking_id;
:Update stackPool based on sSet;
}
:virtEnts = filter Entitlements from entSet that have virt_limit and are for distributors;
partition for-each-virtEnts {
if (virt_limit == unlimited) then
-> YES;
Set bonus pool quantity to -1;
else
-> NO;
Add back reduced pool quantity;
endif
}
:mEnts = get all modifier entitlements of entSet entitlements;;

```



			: Lazily regenerate entitlement certificates for all mEnts; : Compute compliance status for all Consumers that have an entitlement in entSet; stop @enduml	
3	Como administrador de la infraestructura en la nube, quiero desplegar y mantener servicios de OpenStack utilizando herramientas como Fuel, TripleO y Devstack, para asegurar que los servicios funcionen correctamente y puedan gestionarse de manera eficiente durante toda su operación.	As a cloud infrastructure administrator, I want to deploy and maintain OpenStack services using tools like Fuel, TripleO, and Devstack, to ensure the services run correctly and can be efficiently managed throughout their operation.	@startuml (*) -right-> [<i>OpenStack Services</i> Nova, Keystone, Neutron, Glance, Heat, Swift] "Deployment" "Deployment" -right-> [<i>OpenStack Deployment</i> Fuel, TripleO, Devstack] "Operation\nMaintenance" "Operation\nMaintenance" -right-> [<i>DRAGONS?</i> Tuskar, Rubick] (*) @enduml	 <pre> graph LR Start(()) -- "OpenStack Services Nova, Keystone, Neutron, Glance, Heat, Swift" --> Deployment([Deployment]) Deployment -- "OpenStack Deployment Fuel, TripleO, Devstack" --> Maintenance([Operation Maintenance]) </pre>

4	<p>Como administrador de sistemas, quiero instalar y configurar FFmpeg, x264, Python, GlusterFS client, Celery y pyMongo, para preparar el entorno y asegurar que los servicios dependientes funcionen correctamente según la configuración del sistema.</p>	<p>As a systems administrator, I want to install and configure FFmpeg, x264, Python, GlusterFS client, Celery, and pyMongo, to prepare the environment and ensure that dependent services function correctly according to system configuration.</p>	<pre> @startuml (*) --> "add FFmpeg\nPPA repository" --> "upgrade system" --> "install FFmpeg, x264,\npython, GlusterFS client" if "ok" then -right-> [No] "exit 1" --> (*) else --> [Yes] "install Celery, pyMongo" if "ok" then -left-> [No] "exit 2" --> (*) else --> [Yes] "CONFIG-CHANGED" --> (*) endif endif @enduml </pre>	<pre> graph TD Start(()) --> A[add FFmpeg PPA repository] A --> B[upgrade system] B --> C[install FFmpeg, x264, python, GlusterFS client] C --> D{ } D -- No --> E[exit 1] D -- Yes --> F[install Celery, pyMongo] F --> G{ } G -- No --> H[exit 2] G -- Yes --> I[CONFIG-CHANGED] E --> J((())) H --> J I --> J </pre>
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5	<p>Como desarrollador de software, quiero registrar eventos del sistema usando macros de LOG que pasen por componentes como Record, Logger, Appender, Formatter y Converter, para mantener un historial estructurado y formateado de las actividades del sistema para su análisis y depuración.</p>	<p>As a software developer, I want to log system events using LOG macros that pass through components like Record, Logger, Appender, Formatter, and Converter, to maintain a structured and formatted history of system activities for analysis and debugging.</p>	<pre>@startuml (*) -r-> "LOG macro" -r-> "Record" -r-> "Logger" -r-> "Appender" -d-> "Formatter" -d-> "Converter" -u-> "Appender" -r-> (*) @enduml</pre>	 <pre>sequenceDiagram participant Start as () Start->>LOG_macro[LOG macro] LOG_macro->>Record[Record] Record->>Logger[Logger] Logger->>Appender[Appender] Appender->>Formatter[Formatter] Formatter->>Converter[Converter] Converter->>End as ()</pre>
6	<p>Como usuario de la herramienta, quiero que el sistema procese los datos disponibles y genere diagramas automáticamente, para visualizar la información de manera clara y comprensible sin intervención manual.</p>	<p>As a tool user, I want the system to process the available data and generate diagrams automatically, to visualize information clearly and understandably without manual intervention.</p>	<pre>@startuml start while (data available?) :read data; :generate diagrams; endwhile stop @enduml</pre>	 <pre>graph TD Start(()) --> DA{data available?} DA --> ReadData[read data] ReadData --> GenDiagrams[generate diagrams] GenDiagrams --> DA DA --> End((()))</pre>

7

Como desarrollador de software, **quiero** que el sistema lea la configuración del layout en XML y genere automáticamente el código de interfaces, componentes, hilos y procesos, **para** mejorar el desarrollo y asegurar que la implementación siga la estructura definida en el XML sin errores manuales.

As a software developer, I want the system to read the layout configuration in XML and automatically generate code for interfaces, components, threads, and processes, to improve development and ensure that implementation follows the structure defined in the XML without manual errors.

@startuml

start

:Open and Read Layout Configuration XML;

repeat

:**Read Process**;

repeat

:**Read Thread**;

repeat

:**Read Component**;

repeat

:**Read Interface**;

repeat while(interfaces?)

:**Generate Interfaces Code**;

repeat while(components?)

:**Generate Components Code**;

repeat while(threads?)

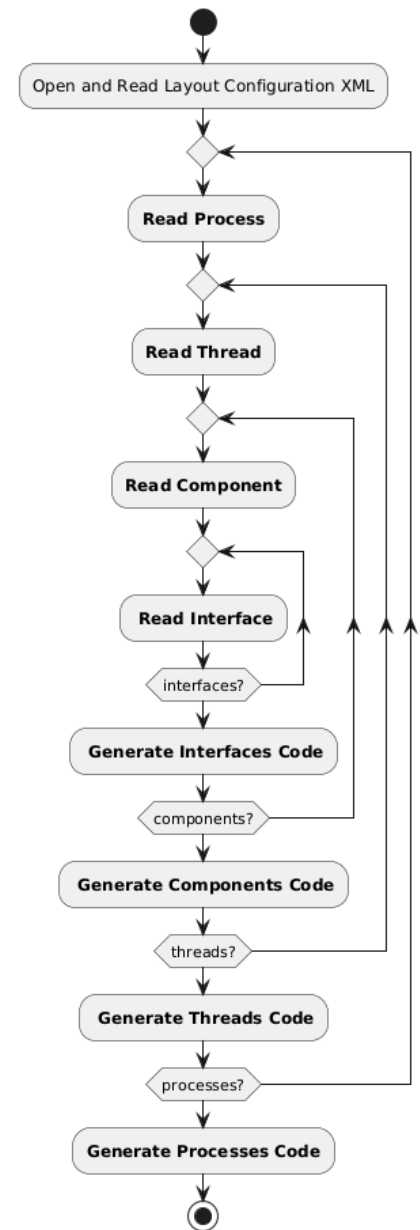
:**Generate Threads Code**;

repeat while(processes?)

:**Generate Processes Code**;

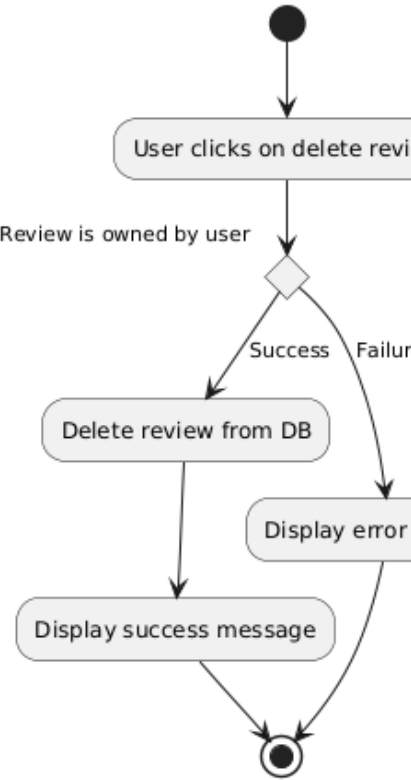
stop

@enduml



8	<p>Como desarrollador de software, quiero analizar el bytecode, ejecutar pruebas unitarias y recolectar métricas de cobertura, para verificar que se cumplan los requisitos de cobertura y generar reportes que aseguren la calidad del código.</p>	<p>As a software developer, I want to analyze bytecode, run unit tests, and collect coverage metrics, to verify that coverage requirements are met and generate reports that ensure code quality.</p>	<pre>@startuml (*) -right-> "Instrument Bytecode" -right-> "Run unit tests" -right-> "Collect Coverage Metrics" if "use metrics" then --> [check] "Verify Coverage Reqs." else --> [cobertura] "Compile Coverage Report" endif @enduml</pre>	<pre>graph LR Start(()) --> IB[Instrument Bytecode] IB --> RUT[Run unit tests] RUT --> CCM[Collect Coverage Metrics] CCM -- use metrics --> Decision{ } Decision -- check --> VCR[Verify Coverage Reqs.] Decision -- cobertura --> CR[Compile Coverage Report] VCR --> End((())) CR --> End</pre>
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9	<p>Como administrador de sistemas, quiero que el sistema configure Celeryd, verifique el estado y, según corresponda, monte el almacenamiento, registre la orquesta y arranque los servicios, para asegurar que todo el entorno operativo se inicialice correctamente sin errores manuales.</p>	<p>As a system administrator, I want the system to configure Celeryd, check its status, and, if necessary, mount storage, register the orchestra, and start the services, to ensure that the entire operational environment initializes correctly without manual errors.</p>	<pre> @startuml (*) --> "STOP" --> "configure Celeryd" if "ok" then -right-> [No] "exit 1-4" --> (*) else --> [Yes] "(RE)MOUNT storage\nif configured" --> "REGISTER orchestra\nif configured" --> "START" --> (*) endif @enduml </pre>	<pre> graph TD Start(()) --> STOP([STOP]) STOP --> Configure([configure Celeryd]) Configure --> Decision{ } Decision -- No --> Exit([exit 1-4]) Exit --> End(()) Decision -- Yes --> Mount([(RE)MOUNT storage
if configured]) Mount --> Register([REGISTER orchestra
if configured]) Register --> Start([START]) Start --> End </pre>
10	<p>Como usuario del sistema de archivos, quiero leer un archivo mientras tenga contenido disponible, para procesar toda su información y cerrarlo correctamente al finalizar.</p>	<p>As a file system user, I want to read a file while it has available content, to process all its information and close it properly when finished.</p>	<pre> @startuml while (check filesize ?) is (not empty) :read file; endwhile (empty) :close file; @enduml </pre>	<pre> graph TD Decision{check filesize ?} Decision -- empty --> Close([close file]) Decision -- not empty --> Read([read file]) Read --> Decision Close --> End(()) </pre>

11	<p>Como usuario de la plataforma, quiero eliminar una reseña que haya creado, para que pueda gestionar mis opiniones y recibir una confirmación si la eliminación fue exitosa o un mensaje de error si no es posible.</p>	<p>As a platform user, I want to delete a review I have created, so that I can manage my opinions and receive a confirmation if the deletion was successful or an error message if it is not possible.</p>	<pre> @startuml title Delete review (*) --> "User clicks on delete review" --> if "Review is owned by user" --> [Success] "Delete review from DB" --> "Display success message" --> (*) else --> [Failure] "Display error message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> Click[User clicks on delete review] Click --> Decision{ } Decision -- Success --> Delete[Delete review from DB] Decision -- Failure --> Error[Display error message] Delete --> SuccessMsg[Display success message] SuccessMsg --> End((())) Error --> End </pre>
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12

Como desarrollador de la aplicación web, **quiero** que el sistema gestione correctamente las solicitudes HTTP mediante ciclos de inicialización, seguridad, procesamiento de controles, renderizado y redirecciones o reenvíos, **para** asegurar que cada página se procese y muestre de manera consistente según el tipo de solicitud y la seguridad.

As a web application developer, I want the system to properly handle HTTP requests through initialization, security, control processing, rendering, and redirection or forwarding cycles, to ensure that each page is processed and displayed consistently according to the request type and security.

@startuml
title Servlet Container

(*) -->

"ClickServlet.handleRequest()" --> "new Page"

if "Page.onSecurityCheck" then
->[true] "Page.onInit()"

if "isForward?" then
->[no] "Process controls"

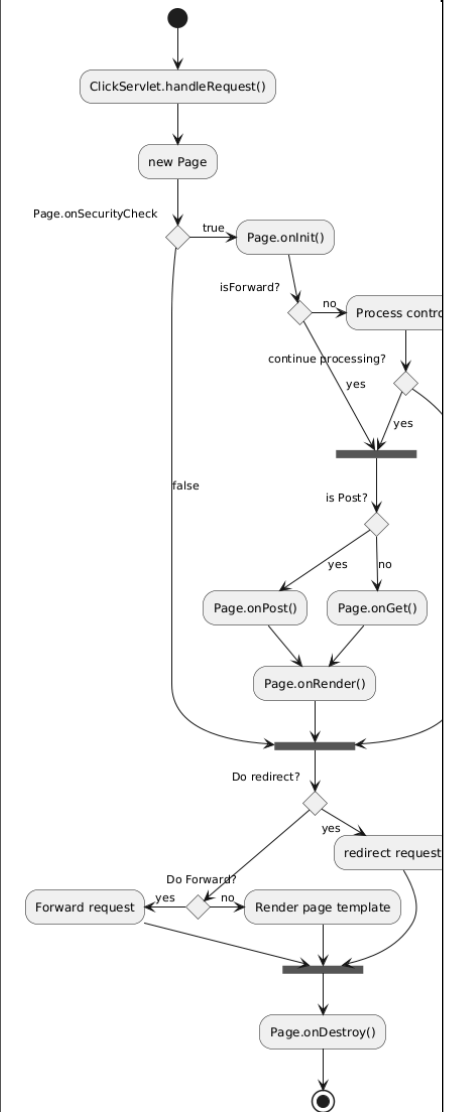
if "continue processing?" then
-->[yes] ===RENDERING===
else
-->[no]
===REDIRECT_CHECK===
endif

else
-->[yes] ===RENDERING===
endif

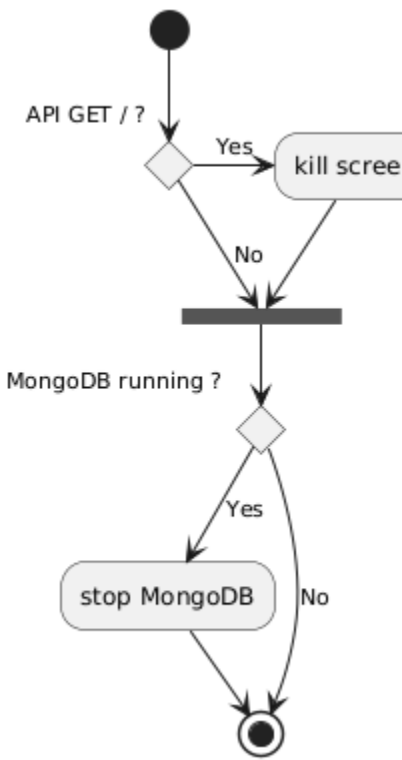
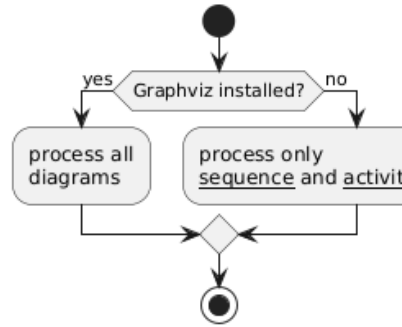
if "is Post?" then
-->[yes] "Page.onPost()" --> "Page.onRender()" as render
--> ===REDIRECT_CHECK===
else
-->[no] "Page.onGet()" --> render
endif

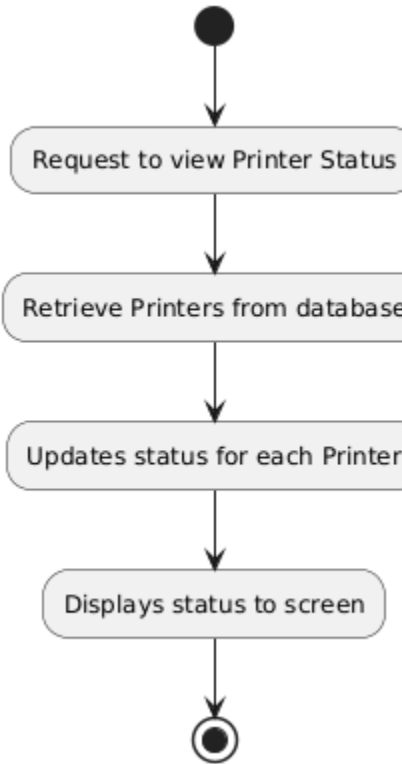
else
-->[false]
===REDIRECT_CHECK===
endif

if "Do redirect?" then
->[yes] "redirect request"

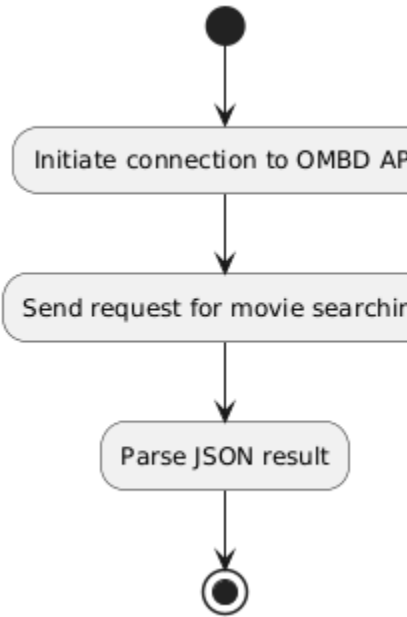


			<pre> --> ==BEFORE_DESTROY=== else if "Do Forward?" then -left->[yes] "Forward request" --> ==BEFORE_DESTROY=== else -right->[no] "Render page template" --> ==BEFORE_DESTROY=== endif endif --> "Page.onDestroy()" -->(*) @enduml </pre>	
13	<p>Como usuario del sistema de gestión de talleres, quiero poder modificar los datos de un taller desde la lista de talleres y completar los campos correspondientes, para que los cambios se guarden correctamente si la información es correcta o se me permita corregirlos si hay errores.</p>	<p>As a workshop management system user, I want to modify a workshop's data from the workshop list and fill in the corresponding fields, so that changes are saved correctly if the information is correct or I am allowed to correct them if there are errors.</p>	<pre> @startuml (*) --> "Page liste des ateliers" -->[clic sur modifier] "Page modification d'workshop" --> "Remplir les champs" if "Informations correctes" then -->[true] "Page liste des ateliers" --> (*) else -->[false] "Page modification d'workshop" @enduml </pre>	<pre> graph TD Start(()) --> PageListe[Page liste de] PageListe -- "clic sur modifier" --> PageMod[Page modification d'workshop] PageMod --> Remplir[Remplir les champs] Remplir -- "Informations correctes" --> Decision{ } Decision -- true --> PageListe Decision -- false --> PageMod </pre>

14	<p>Como administrador del sistema, quiero pausar la pantalla y detener MongoDB dependiendo del estado de la API y de la base de datos, para asegurar que los servicios se cierren correctamente antes de realizar mantenimiento o reinicios.</p>	<p>As a system administrator, I want to pause the screen and stop MongoDB based on the status of the API and the database, to ensure that services shut down properly before performing maintenance or restarts.</p>	<pre> @startuml (*) --> if "API GET / ?" then -right-> [Yes] "kill screen" --> ===A=== else --> [No] ===A=== endif if "MongoDB running ?" then --> [Yes] "stop MongoDB" --> (*) else --> [No] (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> API{API GET / ?} API -- Yes --> KillScreen[kill screen] API -- No --> Merge[] KillScreen --> Merge Merge --> MongoDB{MongoDB running ?} MongoDB -- Yes --> StopMongo[stop MongoDB] MongoDB -- No --> End(()) StopMongo --> End </pre>
15	<p>Como usuario de la herramienta de diagramas, quiero que se procesen todos los diagramas si Graphviz está instalado, para generar representaciones completas, y en caso contrario, que se procesen solo los diagramas de secuencia y actividades, para asegurar compatibilidad sin Graphviz.</p>	<p>As a diagram tool user, I want all diagrams to be processed if Graphviz is installed, to generate complete representations, and otherwise, only sequence and activity diagrams should be processed, to ensure compatibility without Graphviz.</p>	<pre> @startuml start if (Graphviz installed?) then (yes) :process all\ndiagrams; else (no) :process only __sequence__ and __activity__ diagrams; endif stop @enduml </pre>	 <pre> graph TD Start(()) --> Graphviz{Graphviz installed?} Graphviz -- yes --> ProcessAll[process all diagrams] Graphviz -- no --> ProcessSeq[process only sequence and activity] ProcessAll --> Merge{ } ProcessSeq --> Merge Merge --> End(()) </pre>

16	<p>Como usuario del sistema de impresión, quiero solicitar la visualización del estado de las impresoras, para ver en pantalla la información actualizada de cada impresora disponible.</p>	<p>As a printing system user, I want to request the display of printer status, to see updated information for each available printer on screen.</p>	<pre> @startuml (*) --> "Request to view Printer Status" --> Retrieve Printers from database --> Updates status for each Printer --> Displays status to screen --> (*) @enduml </pre>	 <pre> graph TD Start(()) --> A(Request to view Printer Status) A --> B(Retrieve Printers from database) B --> C(Updates status for each Printer) C --> D(Displays status to screen) D --> End((())) </pre>
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17	<p>Como miembro del equipo de desarrollo, quiero seguir un flujo estructurado desde la definición de requisitos hasta el lanzamiento en producción, para asegurar que cada fase del proyecto, incluyendo diseño, desarrollo, pruebas, verificación y vista previa, se complete correctamente antes de operar en producción.</p>	<p>As a development team member, I want to follow a structured workflow from requirements definition to production release, to ensure that each project phase, including design, development, testing, verification, and preview, is completed correctly before going live.</p>	<pre> @startuml partition Requirement (*) --> ===R=== end partition partition Design ===R=== --> ===D=== end partition partition Development partition "Sub Design Part" ===D=== --> ===SD=== end partition partition "Sub Development Part" ===SD=== --> ===SP=== end partition partition "Sub Testing Part" ===SP=== --> ===ST=== end partition partition Verification ===ST=== --> ===SV=== end partition partition Preview ===SV=== --> ===SPR=== end partition partition Operation partition "Production Launch" ===SPR=== --> ===SPL=== end partition ===SPL=== --> (*) end partition @enduml </pre>	<pre> graph TD Start(()) --> Requirement[Requirement] Requirement --> Design[Design] Design --> Development subgraph Development SDP[Sub Design Part] --> SDP SDP --> SDP2[Sub Development Part] SDP2 --> SDP2 SDP2 --> STP[Sub Testing Part] STP --> STP STP --> STP end Development --> Verification[Verification] Verification --> Preview[Preview] Preview --> Operation subgraph Operation PL[Production Launch] --> PL PL --> End(()) end </pre>
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18	<p>Como usuario de la aplicación, quiero que el sistema verifique la entrada y active la salida detallada si es necesario antes de ejecutar un comando, para poder recibir información más completa sobre la ejecución cuando lo requiera.</p>	<p>As an application user, I want the system to validate input and enable detailed output if necessary before executing a command, so that I can receive more complete information about the execution when required.</p>	<pre> @startuml (*) --> "check input" If "input is verbose" then --> [Yes] "turn on verbosity" --> "run command" else --> "run command" Endif --> (*) @enduml </pre>	 <pre> graph TD Start(()) --> A[Initiate connection to OMBD API] A --> B[Send request for movie searching] B --> C[Parse JSON result] C --> End((())) </pre>
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19

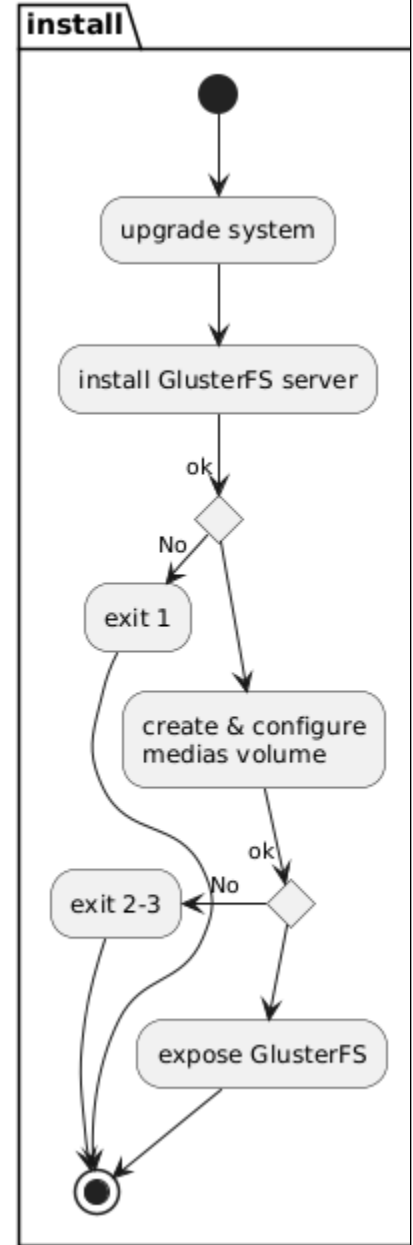
Como administrador del sistema, **quiero** que el proceso de instalación y configuración del servidor GlusterFS incluya la actualización del sistema, la instalación del servidor y la creación y exposición de volúmenes de medios, **para** asegurar que el entorno de almacenamiento distribuido esté correctamente configurado y operativo.

As a system administrator, I want the GlusterFS server installation and configuration process to include system updates, server installation, and the creation and exposure of media volumes, to ensure that the distributed storage environment is properly configured and operational.

```
@startuml
```

```
partition install {
(*) --> "upgrade system"
--> "install GlusterFS server"
if "ok" then
-right-> [No] "exit 1"
--> (*)
else
--> "create & configure\nmedias volume"
if "ok" then
-left-> [No] "exit 2-3"
--> (*)
else
--> "expose GlusterFS"
endif
endif
--> (*)
}
```

```
@enduml
```



20

Como administrador del sistema, **quiero** que el proceso de inicio verifique el montaje del almacenamiento, la conexión con Orchestra, y el estado de MySQL y Apache 2, **para** asegurar que todos los servicios y dependencias necesarias estén activos antes de continuar con la operación del sistema.

As a system administrator, I want the startup process to check storage mounting, connection with Orchestra, and the status of MySQL and Apache 2, to ensure that all necessary services and dependencies are active before continuing with system operation.

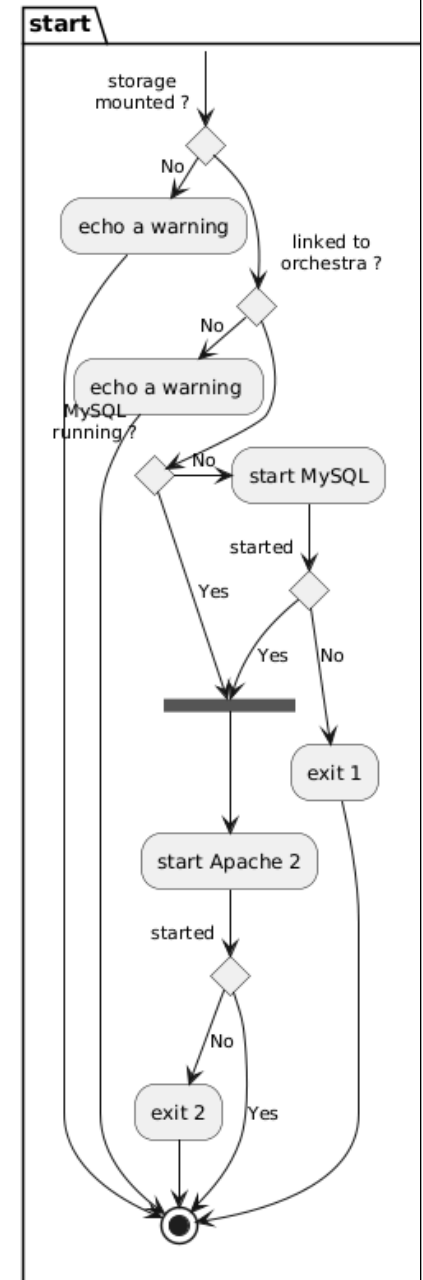
@startuml

```

partition start {
(*) --> if "storage\nmounted ?" then
-right-> [No] "echo a warning"
--> (*)
else
if "linked to\norchestra ?" then
-right-> [No] "echo a warning "
--> (*)
else
if "MySQL\nrunning ?" then
-right-> [No] "start MySQL"
if "started" then
--> [No] "exit 1"
--> (*)
else
--> [Yes] ===A===
endif
else
--> [Yes] ===A===
endif
--> "start Apache 2"
if "started" then
--> [No] "exit 2"
--> (*)
else
--> [Yes] (*)
endif
endif
endif
}

```

@enduml



21

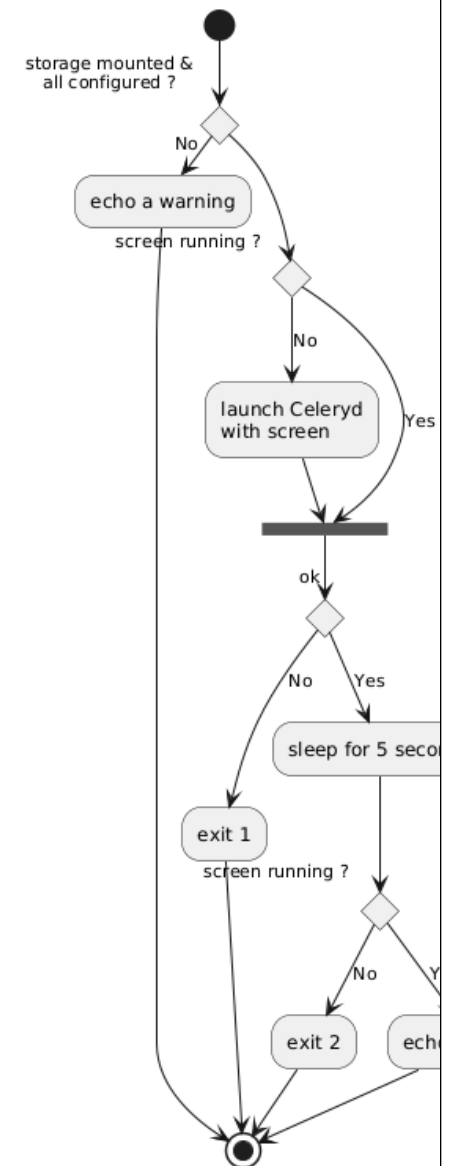
Como administrador del sistema, **quiero** que el inicio verifique el almacenamiento, la configuración y el estado del servicio Celery, **para** asegurar que el sistema esté correctamente preparado y que los servicios críticos se ejecuten sin errores antes de continuar.

As a system administrator, I want the startup process to verify storage, configuration, and the status of the Celery service, to ensure the system is properly prepared and critical services run without errors before continuing.

@startuml

```
(*) --> if "storage mounted &\nall configured ?" then
  -right-> [No] "echo a warning"
  --> (*)
else
  --> if "screen running ?" then
    --> [No] "launch Celeryd\nwith screen"
    --> ===A===
  else
    --> [Yes] ===A===
  endif
  if "ok" then
    --> [No] "exit 1"
    --> (*)
  else
    --> [Yes] "sleep for 5 seconds"
    if "screen running ?" then
      --> [No] "exit 2"
      --> (*)
    else
      --> [Yes] "echo a success"
      --> (*)
    endif
  endif
endif
endif
```

@enduml



22

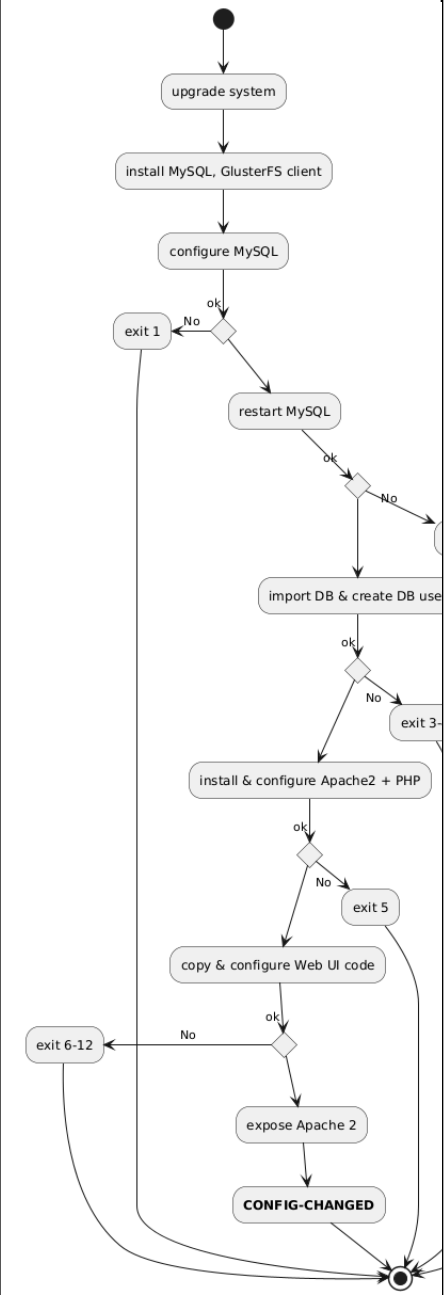
Como administrador del sistema, **quiero** actualizar el sistema, instalar y configurar MySQL, GlusterFS, Apache2 y el código de la interfaz web, **para** garantizar que todos los servicios y la interfaz web estén correctamente instalados, configurados y listos para su uso.

As a system administrator, I want to update the system, install and configure MySQL, GlusterFS, Apache2, and the web interface code, to ensure that all services and the web interface are correctly installed, configured, and ready for use.

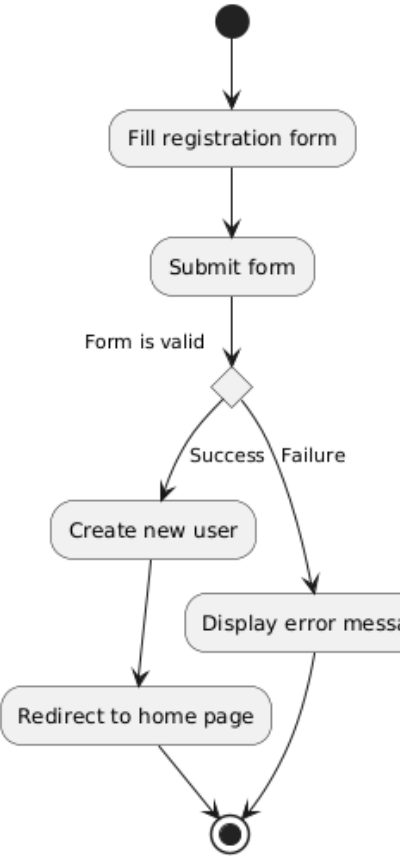
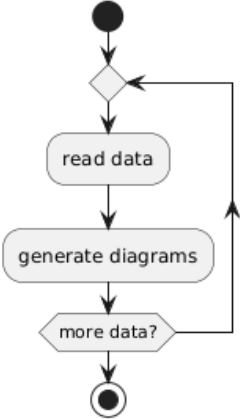
@startuml

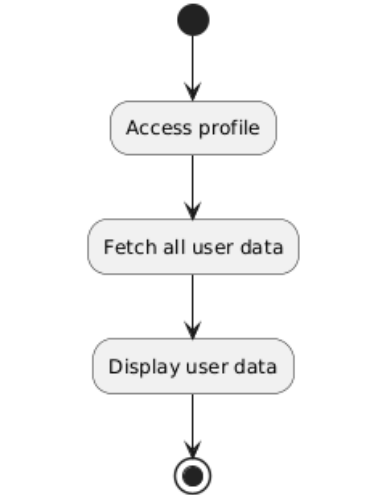
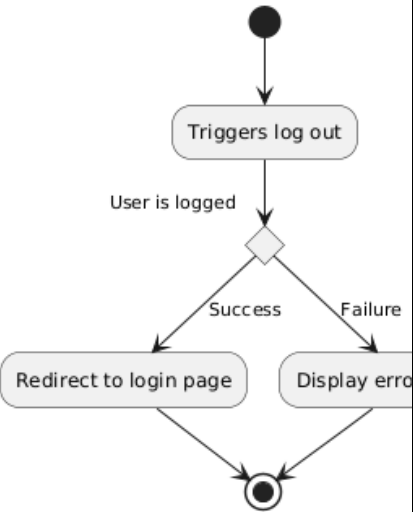
```

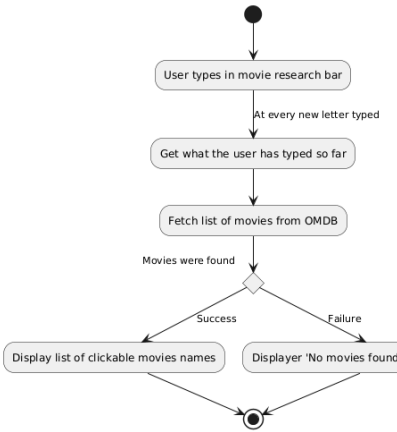
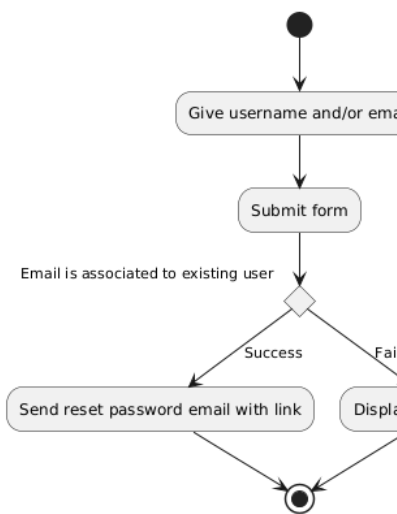
(*) --> "upgrade system"
--> "install MySQL, GlusterFS client"
--> "configure MySQL"
if "ok" then
    -left-> [No] "exit 1"
    --> (*)
else
    --> "restart MySQL"
    if "ok" then
        -right-> [No] "exit 2"
        --> (*)
    else
        --> "import DB & create DB user"
        if "ok" then
            -right-> [No] "exit 3-4"
            --> (*)
        else
            --> "install & configure Apache2 + PHP"
            if "ok" then
                -right-> [No] "exit 5"
                --> (*)
            else
                --> "copy & configure Web UI code"
                if "ok" then
                    -left-> [No] "exit 6-12"
                    --> (*)
                else
                    --> "expose Apache 2"
                    --> "CONFIG-CHANGED"
                endif
            endif
        endif
    endif
endif
    
```

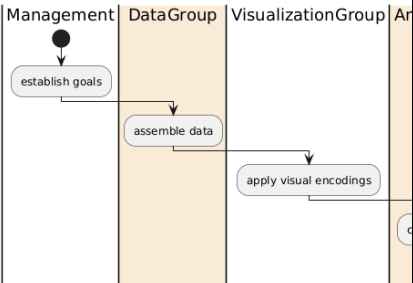
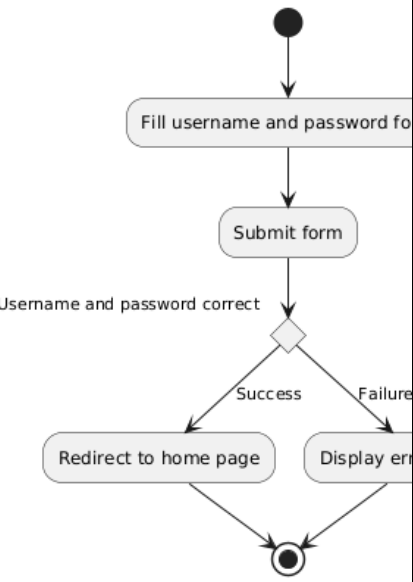


			endif @enduml	
23	<p>Como usuario de la plataforma, quiero seleccionar un comentario para editar y publicarlo nuevamente, para actualizar mi comentario correctamente o recibir un aviso si ocurre un error y poder intentarlo de nuevo.</p>	<p>As a platform user, I want to select a comment to edit and republish it, to update my comment correctly or receive a notification if an error occurs so I can try again.</p>	<pre>@startuml title edit review (*)-->"user selects edit" -->"open text editor" -->if "click post" then -->[success]"update time stamp" --> "post updated comment" -->(*) else -->[failure]"display error message" -->"prompt user to try again" -->(*) endif @enduml</pre>	<pre>graph TD Start(()) --> A([user selects edit]) A --> B([open text editor]) B --> C{click post} C -- success --> D([update time stamp]) C -- failure --> E([display error]) D --> F([post updated comment]) E --> G([prompt user]) F --> H((())) G --> H</pre>

24	<p>Como nuevo usuario del sistema, quiero llenar y enviar el formulario de registro, para crear mi cuenta si la información es válida o recibir un mensaje de error si algo está incorrecto.</p>	<p>As a new system user, I want to fill out and submit the registration form, to create my account if the information is valid or receive an error message if something is incorrect.</p>	<pre> @startuml (*) --> "Fill registration form" --> "Submit form" --> if "Form is valid" --> [Success] "Create new user" --> "Redirect to home page" --> (*) else --> [Failure] "Display error message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> Fill[Fill registration form] Fill --> Submit[Submit form] Submit --> Decision{ } Decision -- "Form is valid" --> Decision Decision -- "Success" --> Create[Create new user] Decision -- "Failure" --> Display[Display error message] Create --> Redirect[Redirect to home page] Display --> Redirect Redirect --> End((())) </pre>
25	<p>Como analista de datos, quiero leer los datos disponibles y generar diagramas automáticamente, para visualizar y representar la información de manera clara mientras haya datos por procesar.</p>	<p>As a data analyst, I want to read the available data and automatically generate diagrams, to visualize and represent the information clearly while there is data to process.</p>	<pre> @startuml start repeat :read data; :generate diagrams; repeat while (more data?) stop @enduml </pre>	 <pre> graph TD Start(()) --> Decision{ } Decision --> Read[read data] Read --> Generate[generate diagrams] Generate --> More{more data?} More --> Decision More --> End((())) </pre>

26	<p>Como usuario del sistema, quiero acceder a mi perfil y ver todos mis datos, para consultar mi información de manera clara y completa.</p>	<p>As a system user, I want to access my profile and view all my data, so that I can consult my information clearly and completely.</p>	<pre> @startuml (*) --> "Access profile" --> "Fetch all user data" --> "Display user data" --> (*) @enduml </pre>	 <pre> graph TD Start(()) --> AccessProfile[Access profile] AccessProfile --> FetchData[Fetch all user data] FetchData --> DisplayData[Display user data] DisplayData --> End((())) </pre>
27	<p>Como usuario de la aplicación, quiero cerrar mi sesión, para ser redirigido a la página de inicio de sesión y asegurar la privacidad de mi cuenta.</p>	<p>As an application user, I want to log out, to be redirected to the login page and ensure the privacy of my account.</p>	<pre> @startuml (*) --> "Triggers log out" --> if "User is logged" --> [Success] "Redirect to login page" --> (*) else --> [Failure] "Display error message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> TriggersLogout[Triggers log out] TriggersLogout -- "User is logged" --> Decision{ } Decision -- Success --> RedirectLogin[Redirect to login page] Decision -- Failure --> DisplayError[Display error message] RedirectLogin --> End((())) DisplayError --> End </pre>

28	<p>Como usuario de la aplicación, quiero buscar películas mientras escribo en la barra de búsqueda, para ver una lista de nombres de películas que coincidan con lo que estoy escribiendo y poder seleccionar rápidamente la que me interesa.</p>	<p>As an application user, I want to search for movies as I type in the search bar, to see a list of movie names that match what I am typing and quickly select the one I am interested in.</p>	<pre> @startuml (*) --> "User types in movie research bar" --> [At every new letter typed] "Get what the user has typed so far" --> "Fetch list of movies from OMDb" OMDb --> if "Movies were found" --> [Success] "Display list of clickable movies names" --> (*) else --> [Failure] "Display 'No movies found with this name' message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> A[User types in movie research bar] A -- "At every new letter typed" --> B[Get what the user has typed so far] B --> C[Fetch list of movies from OMDb] C -- "Movies were found" --> D{ } D -- Success --> E[Display list of clickable movies names] D -- Failure --> F[Display 'No movies found with this name' message] E --> G((())) F --> G </pre>
29	<p>Como usuario que olvidó su contraseña, quiero ingresar mi nombre de usuario o correo electrónico en un formulario, para recibir un correo con un enlace que me permita restablecer mi contraseña si mi información está registrada en el sistema.</p>	<p>As a user who forgot my password, I want to enter my username or email in a form, to receive an email with a link that allows me to reset my password if my information is registered in the system.</p>	<pre> @startuml (*) --> "Give username and/or email" --> "Submit form" --> if "Email is associated to existing user" --> [Success] "Send reset password email with link" --> (*) else --> [Failure] "Display error message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> A[Give username and/or email] A --> B[Submit form] B -- "Email is associated to existing user" --> C{ } C -- Success --> D[Send reset password email with link] C -- Failure --> E[Display error message] D --> F((())) E --> F </pre>

30	<p>Como miembro del equipo del proyecto, quiero establecer metas, recopilar datos, aplicar codificaciones visuales y generar hipótesis, para analizar la información de manera estructurada y facilitar la toma de decisiones basada en evidencias.</p>	<p>As a project team member, I want to set goals, collect data, apply visual codings, and generate hypotheses, to analyze information in a structured way and facilitate evidence-based decision-making.</p>	<pre> @startuml [#White Management start :establish goals; [#AntiqueWhite DataGroup :assemble data; [#White VisualizationGroup :apply visual encodings; [#AntiqueWhite AnalyticsGroup :create hypotheses; stop @enduml </pre>	 <pre> graph TD subgraph Management Start(()) --> EstablishGoals[establish goals] end subgraph DataGroup EstablishGoals --> AssembleData[assemble data] end subgraph VisualizationGroup AssembleData --> ApplyVisualEncodings[apply visual encodings] end subgraph AnalyticsGroup ApplyVisualEncodings --> CreateHypotheses[create hypotheses] end CreateHypotheses --> End(()) </pre>
31	<p>Como usuario registrado, quiero poder iniciar sesión ingresando mi nombre de usuario y contraseña, para acceder a la página principal de la aplicación y utilizar sus funcionalidades de manera segura.</p>	<p>As a registered user, I want to log in using my username and password, to access the application's main page and use its features securely.</p>	<pre> @startuml (*) --> "Fill username and password form" --> "Submit form" --> if "Username and password correct" --> [Success] "Redirect to home page" --> (*) else --> [Failure] "Display error message" --> (*) endif @enduml </pre>	 <pre> graph TD Start(()) --> FillForm[Fill username and password form] FillForm --> SubmitForm[Submit form] SubmitForm --> Decision{ } Decision -- Success --> Redirect[Redirect to home page] Decision -- Failure --> DisplayError[Display error message] Redirect --> End((())) DisplayError --> End </pre>

32	<p>Como administrador del sistema, quiero detener los servicios de Apache2 y MySQL de manera controlada, para asegurarme de que el entorno se cierre correctamente antes de ejecutar tareas de mantenimiento o actualizaciones.</p>	<p>As a system administrator, I want to stop Apache2 and MySQL services in a controlled manner, to ensure the environment shuts down properly before performing maintenance or updates.</p>	<pre> @startuml partition start { (*) --> "stop Apache 2" if "stopped" then -right-> [No] "exit 1" --> (*) else if "MySQL\nrunning ?" then --> [Yes] "stop MySQL" if "stopped" then -right-> [No] "exit 2" --> (*) else --> [Yes] (*) endif else --> [No] (*) endif endif } @enduml </pre>	<pre> graph TD Start([start]) --> StopApache2(stop Apache 2) StopApache2 --> Stopped1{stopped} Stopped1 -- No --> Exit1(exit 1) Stopped1 -- Yes --> MySQLRunning{MySQL running ?} MySQLRunning -- No --> Exit2(exit 2) MySQLRunning -- Yes --> StopMySQL(stop MySQL) StopMySQL --> Stopped2{stopped} Stopped2 -- No --> Exit2 Stopped2 -- Yes --> End(()) Exit1 --> End Exit2 --> End </pre>
33	<p>Como analista de datos, quiero cargar o abrir datasets existentes, limpiarlos, explorarlos, modelarlos y validarlos, para obtener reportes de calidad que permitan extraer información útil, generar segmentaciones y compartir los resultados con los interesados.</p>	<p>As a data analyst, I want to load or open existing datasets, clean, explore, model, and validate them, to generate quality reports that allow extracting useful information, creating segmentations, and sharing results with stakeholders.</p>	<pre> @startuml start fork :"Upload dataset"; fork again :"Open existing dataset"; end fork fork :"Data cleaning and preparation"; fork again :"Data quality report generation"; end fork fork :"Modelling"; fork again :"Validation"; end fork fork :"Segmentation"; fork again :"Validation"; end fork fork :"Univariate analysis"; end fork fork :"Report generation"; end fork fork :"Export reports"; end fork </pre>	<pre> graph TD Fork1(()) --> Upload[Upload dataset] Fork1 --> Open[Open existing dataset] Upload --> Clean[Data cleaning and preparation] Upload --> Quality[Data quality report generation] Open --> Modelling[Modelling] Open --> Val1[Validation] Open --> Segmentation[Segmentation] Open --> Val2[Validation] Open --> Univariate[Univariate analysis] Clean --> Report[Report generation] Quality --> Report Modelling --> Report Val1 --> Report Segmentation --> Report Val2 --> Report Univariate --> Report Report --> Export[Export reports] Export --> End(()) </pre>

			<pre>:"Data cleaning and preparation"; : "Data quality report generation"; fork again :"Modelling"; : "Validation"; fork again :"Segmentaion"; :"Validation"; fork again :"EDA"; fork :"Univariate analysis"; fork again :"Bivariate analysis"; end fork end fork :"Report generation"; :"Export reports"; stop @enduml</pre>	
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34	<p>Como usuario de la aplicación web, quiero que el sistema procese mis solicitudes de forma segura y eficiente, para que pueda acceder a la página solicitada, ya sea mostrando la información correcta, dirigiendo o respondiendo con la acción adecuada según el tipo de petición.</p>	<p>As a web application user, I want the system to process my requests securely and efficiently, so that I can access the requested page, either by displaying the correct information, redirecting, or responding with the appropriate action depending on the type of request.</p>	<pre> @startuml start :ClickServlet.handleRequest(); :new page; if (Page.onSecurityCheck) then (true) :Page.onInit(); if (isForward?) then (no) :Process controls; if (continue processing?) then (no) stop endif if (isPost?) then (yes) :Page.onPost(); else (no) :Page.onGet(); endif :Page.onRender(); endif else (false) if (do redirect?) then (yes) :redirect process; else if (do forward?) then (yes) :Forward request; else (no) :Render page template; endif endif endif stop @enduml </pre>	<pre> graph TD Start(()) --> ClickServlet[ClickServlet.handleRequest()] ClickServlet --> NewPage[new page] NewPage --> SecurityCheck{Page.onSecurityCheck} SecurityCheck -- false --> ForwardCheck{isForward?} SecurityCheck -- true --> OnInit[Page.onInit()] OnInit --> ForwardCheck ForwardCheck -- no --> ProcessControls[Process controls] ForwardCheck -- yes --> ContinueProcessing{continue processing?} ProcessControls --> ContinueProcessing ContinueProcessing -- no --> End1(()) ContinueProcessing -- yes --> IsPost{isPost?} IsPost -- yes --> OnPost[Page.onPost()] IsPost -- no --> OnGet[Page.onGet()] OnPost --> Join1{ } OnGet --> Join1 Join1 --> OnRender[Page.onRender()] OnRender --> Join2{ } ForwardCheck -- yes --> Join2 Join2 --> DoRedirect{do redirect?} DoRedirect -- yes --> RedirectProcess[redirect process] DoRedirect -- no --> DoForward{do forward?} DoForward -- yes --> ForwardRequest[Forward request] DoForward -- no --> Render[Render] RedirectProcess --> Join3{ } ForwardRequest --> Join3 Render --> Join3 Join3 --> End2(()) </pre>
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35

Como administrador del sistema, **quiero** que el sistema verifique si existen procesos activos en *screen* y detenga los servicios asociados, incluido Apache 2, **para** asegurar una correcta liberación de recursos y un apagado controlado sin dejar procesos colgados.

As a system administrator, I want the system to check for active processes in screen and stop the associated services, including Apache2, to ensure proper resource release and a controlled shutdown without leaving processes hanging.

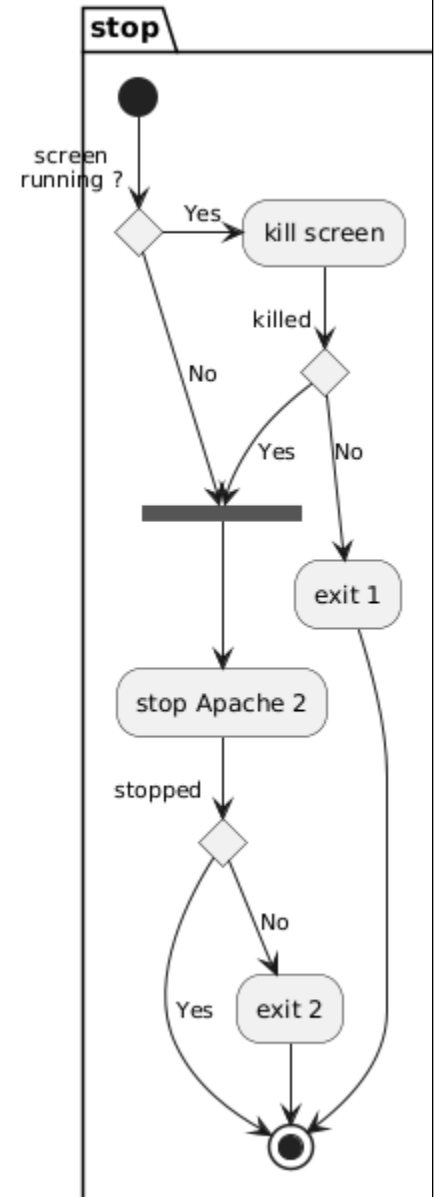
@startuml

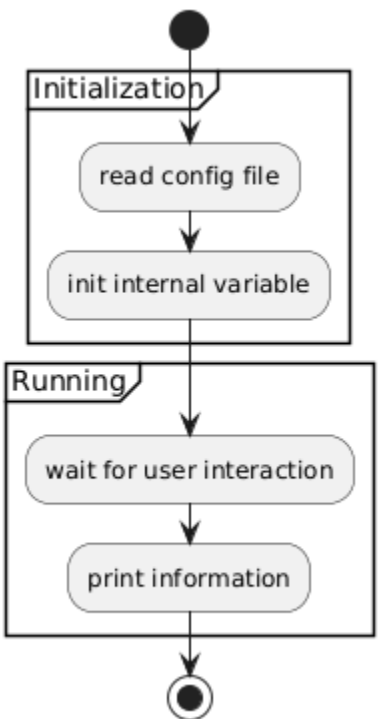
```

partition stop {
(*) --> if "screen\nrunning ?" then
-right-> [Yes] "kill screen"
if "killed" then
--> [No] "exit 1"
--> (*)
else
--> [Yes] ===A===
endif
else
--> [No] ===A===
endif
--> "stop Apache 2"
if "stopped" then
--> [No] "exit 2"
--> (*)
else
--> [Yes] (*)
endif
}

```

@enduml



36	<p>Como usuario de la aplicación, quiero que el sistema lea la configuración e inicialice sus variables internas, para que la aplicación esté lista para responder a mis interacciones y mostrarme la información que necesito.</p>	<p>As an application user, I want the system to read the configuration and initialize its internal variables, so that the application is ready to respond to my interactions and display the information I need.</p>	<pre> @startuml start partition Initialization { :read config file; :init internal variable; } partition Running { :wait for user interaction; :print information; } stop @enduml </pre>	 <pre> stateDiagram-v2 [*] --> Initialization state Initialization { read config file init internal variable } Initialization --> Running state Running { wait for user interaction print information } Running --> [*] </pre>
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37

Como administrador del sistema, **quiero** que el sistema verifique el almacenamiento y la configuración antes de iniciar los servicios, **para** asegurarme de que Apache2 y Celeryd se ejecuten correctamente y que el proceso de arranque notifique cualquier error o éxito.

As a system administrator, I want the system to verify storage and configuration before starting services, to ensure Apache2 and Celeryd run correctly and the startup process reports any errors or successes.

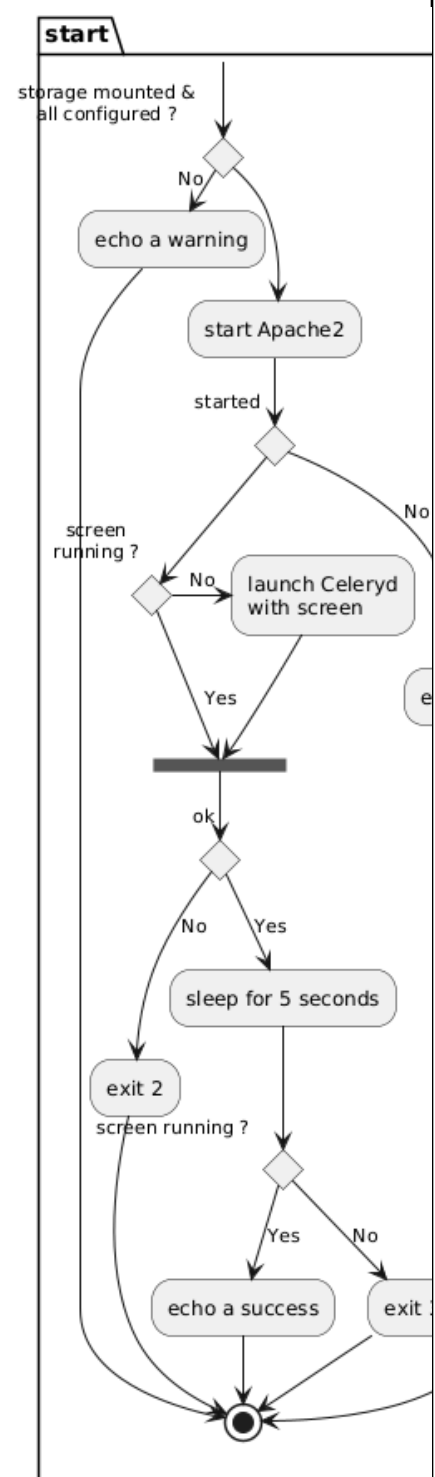
@startuml

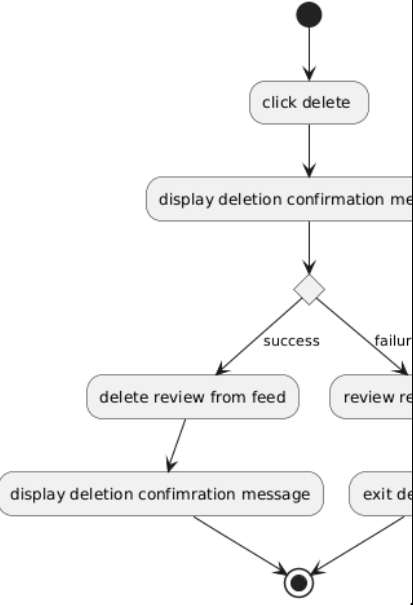
```

partition start {
(*) --> if "storage mounted & \nall configured ?" then
    -right-> [No] "echo a warning"
    --> (*)
else
    --> "start Apache2"
    --> if "started" then
        --> [No] "exit 1"
        --> (*)
    else
        --> if "screen\nrunning ?" then
            -right-> [No] "launch
Celeryd\nwith screen"
            --> ===A===
        else
            --> [Yes] ===A===
        endif
        if "ok" then
            --> [No] "exit 2"
            --> (*)
        else
            --> [Yes] "sleep for 5
seconds"
            if "screen running ?" then
                --> [No] "exit 3"
                --> (*)
            else
                --> [Yes] "echo a success"
                --> (*)
            endif
        endif
    endif
endif
}

```

@enduml



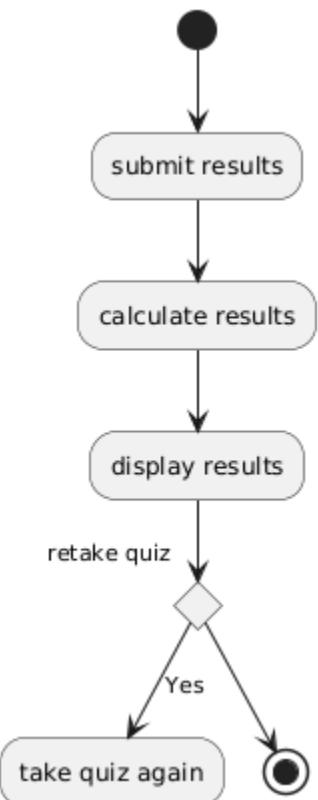
38	<p>Como usuario de la plataforma, quiero poder eliminar una reseña que publiqué, para mantener mi perfil y mi feed actualizados según mi preferencia.</p>	<p>As a platform user, I want to be able to delete a review I posted, to keep my profile and feed updated according to my preferences.</p>	<pre>@startuml title delete review (*) --> "click delete " --> "display deletion confirmation message" --> if "" then -->[success] "delete review from feed" -->"display deletion confirmation message" -->(*) else -->[failure]"review remains in feed" -->"exit deletion option" -->(*) endif @enduml</pre>	 <pre>graph TD Start(()) --> ClickDelete(click delete) ClickDelete --> DisplayMsg1(display deletion confirmation message) DisplayMsg1 --> Decision{ } Decision -- success --> DeleteFeed(delete review from feed) Decision -- failure --> ReviewRemains(review remains in feed) DeleteFeed --> DisplayMsg2(display deletion confirmation message) ReviewRemains --> ExitDeletion(exit deletion option) DisplayMsg2 --> End((())) ExitDeletion --> End</pre>
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39	<p>Como administrador del sistema, quiero subir las solicitudes de tarjeta desde un archivo CSV de un revendedor activo, verificar que el revendedor esté habilitado y validar el archivo CSV, para asegurar que las solicitudes se procesen correctamente según el tipo de KYC.</p>	<p>As a system administrator, I want to upload card applications from a CSV file of an active reseller, check that the reseller is active, and validate the CSV file, so that the applications are processed correctly according to the KYC type.</p>	<pre>@startuml start :Upload Card Applications in a CSV file of a particular reseller; :Check the reseller is active; :Validate the CSV file; if (KYC type=FDD?) then (yes) else (no) endif @enduml</pre>	<pre>graph TD Start(()) --> Upload[Upload Card Applications in a CSV file of a particular reseller] Upload --> Check[Check the reseller is active] Check --> Validate[Validate the CSV file] Validate --> Decision{KYC type=FDD?} Decision -- yes --> Merge(()) Decision -- no --> Merge Merge --> End(())</pre>
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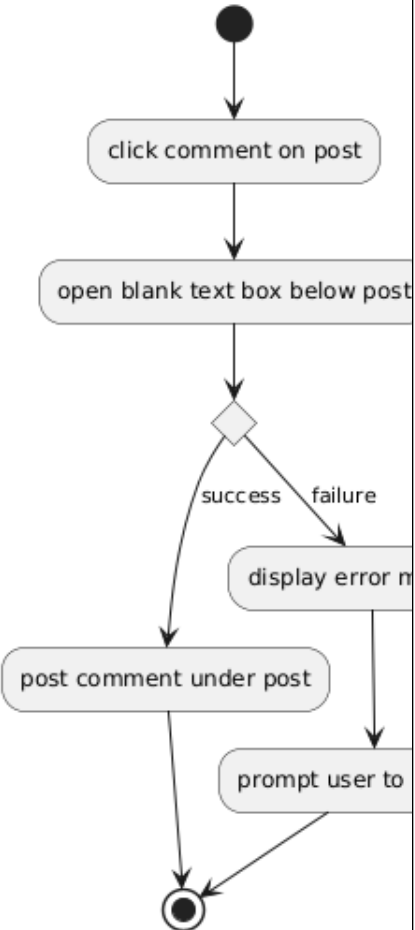
40	<p>Como organizador de eventos, quiero que el sistema calcule automáticamente el total del precio de todas las reservas de cada invitado y luego el total general de todos los invitados, para conocer de manera precisa cuánto se debe cobrar o registrar para el evento.</p>	<p>As an event organizer, I want the system to automatically calculate the total price of all reservations for each guest and then the overall total for all guests, so that I can accurately determine the amount to charge or record for the event.</p>	<pre> @startuml (*) --> "get selected guests" -->[for all guests] get open reservations -->[for all reservations] get total price reservations -->[reduce] add prices per guest -->[reduce] add prices of all guests -->(*) @enduml </pre>	 <pre> graph TD Start(()) --> GetSelectedGuests([get selected guests]) GetSelectedGuests -- "for all guests" --> GetOpenReservations([get open reservations]) GetOpenReservations -- "for all reservations" --> GetTotalPriceReservations([get total price reservations]) GetTotalPriceReservations -- "reduce" --> AddPricesPerGuest([add prices per guest]) AddPricesPerGuest -- "reduce" --> AddPricesOfAllGuests([add prices of all guests]) AddPricesOfAllGuests --> End((())) </pre>
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41	<p>Como administrador del sistema, quiero detener los servicios, configurar la interfaz web, montar el almacenamiento si está habilitado, registrar la API si está configurada y luego reiniciar los servicios, para asegurar que todos los cambios de configuración se apliquen correctamente y el sistema funcione con la nueva configuración.</p>	<p>As a system administrator, I want to stop the services, configure the web interface, mount storage if enabled, register the API if configured, and then restart the services, so that all configuration changes are applied correctly and the system operates with the updated setup.</p>	<pre> @startuml partition config-changed { (*) --> "STOP" --> "configure Web UI" --> "(RE)MOUNT storage\nif configured" --> "REGISTER API\nif configured" --> "START" --> (*) } @enduml </pre>	<pre> stateDiagram-v2 [*] --> STOP STOP --> configureWebUI[configure Web UI] configureWebUI --> REMOUNT["(RE)MOUNT storage\nif configured"] REMOUNT --> REGISTER["REGISTER API\nif configured"] REGISTER --> START START --> [*] </pre>
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42	<p>Como usuario del sistema, quiero agregar Flashvars a la configuración de KPPlayer, activar el modo detallado si es necesario y ejecutar el comando, para asegurar que el reproductor funcione correctamente y pueda recibir la configuración adecuada según el nivel de detalle requerido.</p>	<p>As a system user, I want to add Flashvars to the KPPlayer configuration, enable verbose mode if needed, and run the command, so that the player functions correctly and receives the appropriate configuration based on the required level of detail.</p>	<pre> @startuml (*) --> [Add Flashvars] "KPPlayerConfig" If "input is verbose" then --> [Yes] "turn on verbosity" --> "run command" else --> "run command" Endif -->(*) @enduml </pre>	 <pre> graph TD Start(()) -- "Add Flashvars" --> KPPlayerConfig([KPPlayerConfig]) KPPlayerConfig --> Decision{ } Decision -- "input is verbose" --> TurnOnVerbosity([turn on verbosity]) TurnOnVerbosity --> RunCommand([run command]) Decision -- "Yes" --> RunCommand RunCommand --> End((())) </pre>
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43	<p>Como estudiante, quiero enviar mis resultados del cuestionario, calcularlos y visualizarlos, para evaluar mi desempeño y, si lo requiere, repetir el cuestionario para mejorar mis resultados.</p>	<p>As a student, I want to submit my quiz results, calculate them, and view them, so that I can assess my performance and, if needed, retake the quiz to improve my results.</p>	<pre> @startuml (*) --> "submit results" --> calculate results --> display results If "retake quiz" then --> [Yes] "take quiz again" else --> (*) @enduml </pre>	 <pre> graph TD Start(()) --> Submit([submit results]) Submit --> Calculate([calculate results]) Calculate --> Display([display results]) Display --> Decision{ } Decision -- "retake quiz" --> Decision Decision -- "Yes" --> Retake([take quiz again]) Retake --> Decision Decision --> End((())) </pre> <p>The diagram illustrates the process of submitting quiz results and the option to retake the quiz. It begins with a start node leading to a 'submit results' activity, followed by 'calculate results' and 'display results'. After displaying results, a decision point is reached. If the user chooses to 'retake quiz', the flow loops back to the decision point. If the user chooses 'Yes', the flow proceeds to 'take quiz again', which then loops back to the decision point. If neither option is chosen, the flow ends at a final node.</p>
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44	<p>Como usuario del sistema, quiero acceder a mi perfil, consultar todos mis datos y poder editarlos, para mantener mi información actualizada y gestionarla de manera sencilla.</p>	<p>As a system user, I want to access my profile, review all my data, and be able to edit it, to keep my information up-to-date and manage it easily.</p>	<p>@startuml</p> <p>title View profile</p> <p>(*) --> "Access profile"</p> <p> --> "Fetch all user data"</p> <p> --> "Display user data with edition actions"</p> <p> --> (*)</p> <p>@enduml</p>	<p>View profile</p> <pre>graph TD; Start(()) --> Access([Access profile]); Access --> Fetch([Fetch all user data]); Fetch --> Display([Display user data with edition actions]); Display --> End((()));</pre> <p>The diagram is a UML Activity Diagram titled "View profile". It starts with a solid black circle (start node) at the top. An arrow points down to a rounded rectangle labeled "Access profile". Another arrow points down to a second rounded rectangle labeled "Fetch all user data". A third arrow points down to a third rounded rectangle labeled "Display user data with edition actions". Finally, an arrow points down to a bullseye symbol (end node).</p>
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45	<p>Como usuario del sistema, quiero agregar comentarios a las publicaciones en el feed, para participar en la conversación y compartir mi opinión con otros usuarios.</p>	<p>As a system user, I want to add comments to posts in the feed, to participate in the conversation and share my opinion with other users.</p>	<pre>@startuml title Comment Review in Feed (*) --> "click comment on post" --> "open blank text box below post" --> if "" then --> [success] "post comment under post" --> (*) else --> [failure] "display error message" --> "prompt user to try again" --> (*) endif @enduml</pre>	<p>Comment Review in Feed</p>  <pre>graph TD Start(()) --> Click[click comment on post] Click --> Open[open blank text box below post] Open --> Decision{ } Decision -- success --> Post[post comment under post] Decision -- failure --> Display[display error message] Post --> End((())) Display --> Prompt[prompt user to try again] Prompt --> End</pre>
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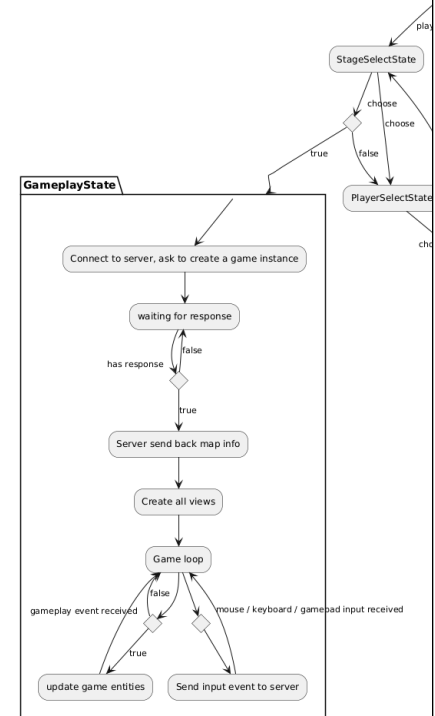
46

Como usuario del juego, **quiero** navegar por el menú, seleccionar niveles y personajes, conectarme al servidor y jugar en tiempo real, **para** disfrutar de la experiencia de juego completa, interactuar con otros jugadores y participar en la dinámica del juego de manera fluida.

As a game user, I want to navigate the menu, select levels and characters, connect to the server, and play in real time, so that I can enjoy the full gaming experience, interact with other players, and participate in the game dynamics smoothly.

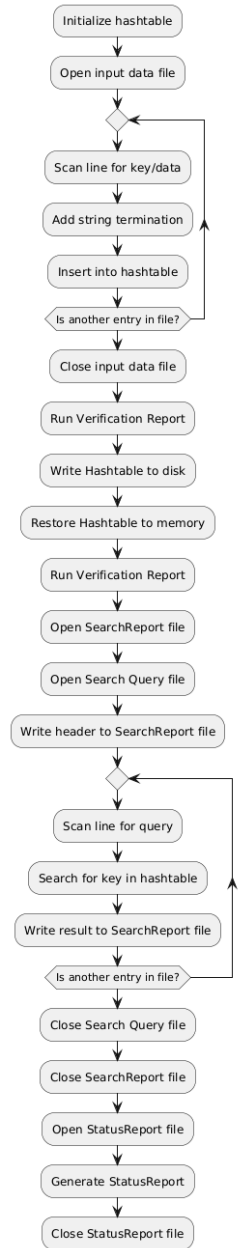
```
@startuml
(*) --> "Main start"
--> "Preloader"
--> "MenuState"
if "button" then
  --> [play] "StageSelectState"
  --> [choose] "PlayerSelectState"
  if "choose" then
    --> [true] "StageSelectState"
    if "choose" then
      partition GameplayState {
        --> [true]
      }
    end
  end
  "GameplayState"
  --> "Connect to server, ask to create a game instance"
  --> "waiting for response"
  if "has response" then
    --> [true] "Server send back map info"
  end
  --> "Create all views"
  --> "Game loop"
  if "gameplay event received" then
    --> [true] "update game entities"
    --> "Game loop"
  else
    --> [false] "Game loop"
  end
  "Game loop"
endif

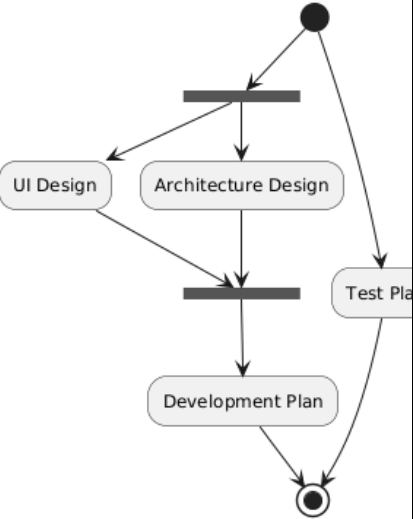
if "mouse / keyboard / gamepad input received"
  --> Send input event to server
end
```



			<pre>--> "Game loop" endif else -->[false] "waiting for response" endif } else --> [false] "PlayerSelectState" endif else --> [false] "MenuState" endif else --> [option] "OptionState" --> [back] "MenuState" endif @enduml</pre>	
47	<p>Como usuario del sistema, quiero ingresar mis datos personales y de pago, recibir confirmación por correo y ver un mensaje de éxito en la interfaz, para poder completar mi registro de manera segura y recibir la información de bienvenida correctamente.</p>	<p>As a system user, I want to enter my personal and payment information, receive confirmation by email, and see a success message in the interface, to complete my registration securely and receive the welcome information correctly.</p>	<pre>@startuml GUI start :enter-data; Core-Domain :validate-address; :validate-credit-card; Email-Provider :send-optin-mail; :validate-smtp-return; Core-Domain :prepare-welcome-\npackage; GUI :display-success-message; stop @enduml</pre>	<pre>sequenceDiagram participant GUI participant Core-Domain participant Email-Provider GUI->>Core-Domain: enter-data activate Core-Domain Core-Domain->>Core-Domain: validate-address Core-Domain->>Core-Domain: validate-credit-card Core-Domain->>Email-Provider: send-optin-mail activate Email-Provider Email-Provider->>Core-Domain: validate-smtp-return deactivate Email-Provider Core-Domain->>Core-Domain: prepare-welcome-package Core-Domain->>GUI: display-success-message deactivate Core-Domain GUI->>GUI: (end)</pre>

48	<p>Como usuario del sistema, quiero que el sistema gestione las solicitudes de páginas web mediante la verificación de seguridad, la inicialización de las páginas y la ejecución de los métodos correspondientes según el tipo de petición, para interactuar con la aplicación de manera segura y eficiente, obteniendo la página correcta mediante renderizado, redirección o reenvío.</p>	<p>As a system user, I want the system to handle web page requests by performing security checks, initializing pages, and executing the appropriate methods based on the request type, so that I can interact with the application safely and efficiently, receiving the correct page through rendering, redirection, or forwarding.</p>	<pre> @startuml start :ClickServlet.handleRequest(); :new page; if (Page.onSecurityCheck) then (true) :Page.onInit(); if (isForward?) then (no) :Process controls; if (continue processing?) then (no) stop endif endif if (isPost?) then (yes) :Page.onPost(); else (no) :Page.onGet(); endif :Page.onRender(); endif else (false) endif if (do redirect?) then (yes) :redirect process; else if (do forward?) then (yes) :Forward request; else (no) :Render page template; endif endif stop @enduml </pre>	<pre> graph TD Start(()) --> ClickServlet[ClickServlet.handleRequest()] ClickServlet --> NewPage[new page] NewPage --> SecurityCheck{Page.onSecurityCheck} SecurityCheck -- false --> ForwardCheck{isForward?} SecurityCheck -- true --> OnInit[Page.onInit()] OnInit --> ForwardCheck ForwardCheck -- no --> ProcessControls[Process controls] ForwardCheck -- yes --> ForwardCheck ProcessControls --> ContinueProcessing{continue processing?} ContinueProcessing -- no --> Stop1(()) ContinueProcessing -- yes --> IsPost{isPost?} IsPost -- yes --> OnPost[Page.onPost()] IsPost -- no --> OnGet[Page.onGet()] OnPost --> OnRender[Page.onRender()] OnGet --> OnRender OnRender --> RedirectCheck{do redirect?} RedirectCheck -- yes --> RedirectProcess[redirect process] RedirectCheck -- no --> ForwardCheck2{do forward?} ForwardCheck2 -- yes --> ForwardRequest[Forward request] ForwardCheck2 -- no --> Render[Render] RedirectProcess --> Stop2(()) ForwardRequest --> Stop2 Render --> Stop2 </pre>
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49	<p>Como usuario de la aplicación de gestión de datos, quiero procesar archivos de entrada, almacenar y verificar la información en una tabla hash, para generar reportes de búsqueda y de estado que aseguren la integridad y disponibilidad de los datos.</p>	<p>As a user of the data management application, I want to process input files, store and verify information in a hash table, to generate search and status reports that ensure data integrity and availability.</p>	<pre> @startuml :Initialize hashtable; :Open input data file; repeat :Scan line for key/data; :Add string termination; :Insert into hashtable; repeat while(Is another entry in file?) :Close input data file; :Run Verification Report; :Write Hashtable to disk; :Restore Hashtable to memory; :Run Verification Report; :Open SearchReport file; :Open Search Query file; :Write header to SearchReport file; repeat :Scan line for query; :Search for key in hashtable; :Write result to SearchReport file; repeat while(Is another entry in file?) :Close Search Query file; :Close SearchReport file; :Open StatusReport file; :Generate StatusReport; :Close StatusReport file; @enduml </pre>	 <pre> graph TD Start([Initialize hashtable]) --> OpenFile([Open input data file]) OpenFile --> Loop1{ } Loop1 --> ScanKey([Scan line for key/data]) ScanKey --> AddTerm([Add string termination]) AddTerm --> InsertHash([Insert into hashtable]) InsertHash --> Loop1 Loop1 --> IsEntry1{Is another entry in file?} IsEntry1 --> CloseFile([Close input data file]) IsEntry1 --> RunVer1([Run Verification Report]) CloseFile --> WriteDisk([Write Hashtable to disk]) WriteDisk --> RestoreMem([Restore Hashtable to memory]) RestoreMem --> RunVer2([Run Verification Report]) RunVer2 --> OpenSR([Open SearchReport file]) OpenSR --> OpenSQ([Open Search Query file]) OpenSQ --> WriteHeader([Write header to SearchReport file]) WriteHeader --> Loop2{ } Loop2 --> ScanQuery([Scan line for query]) ScanQuery --> SearchKey([Search for key in hashtable]) SearchKey --> WriteResult([Write result to SearchReport file]) WriteResult --> Loop2 Loop2 --> IsEntry2{Is another entry in file?} IsEntry2 --> CloseSQ([Close Search Query file]) IsEntry2 --> CloseSR([Close SearchReport file]) CloseSQ --> OpenSR2([Open StatusReport file]) CloseSR --> OpenSR2 OpenSR2 --> GenerateStatus([Generate StatusReport]) GenerateStatus --> CloseSR2([Close StatusReport file]) </pre>
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50	<p>Como integrante del equipo de desarrollo de software, quiero elaborar en paralelo el diseño de la arquitectura, el diseño de la interfaz de usuario y el plan de pruebas, para consolidar toda esta información en un plan de desarrollo integral que guíe la construcción y validación del sistema.</p>	<p>As a member of the software development team, I want to simultaneously work on the architecture design, user interface design, and test plan, so that all this information can be consolidated into a comprehensive development plan that guides the construction and validation of the system.</p>	<p>@startuml</p> <p>(*) --> ===B1=== --> "UI Design" --> ===B2===</p> <p>===B1=== --> "Architecture Design" --> ===B2===</p> <p>(*) --> "Test Plan" --> (*)</p> <p>===B2=== --> "Development Plan" --> (*)</p> <p>@enduml</p>	
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