

Use Case 1: Browse Catalog

Description: This use case describes how the User can search/browse the e-store catalog.

Primary Actor: User

Stakeholders and Interests:

- **User:** Wants user-friendly interface and fast browsing speed.
Wants to browse the catalog and add items to the cart successfully.
- **Company:** Wants to satisfy user interests.

Preconditions: ~~None~~ System displays main page, main page shows “Categories” link

Success Guarantee (Post Conditions):

- ~~‘Product Screen’ displays items and corresponding list prices for a chosen product.~~
- ~~Item Screen’ displays detailed information about an individual item for sale, including a photo, if one is available.~~
- ~~‘Cart Screen’ displays the various items added to the cart, the quantity and list price of each item and the Subtotal.~~
- System displays ‘Item Page’ with item chosen by the user, including a photo (if one is available) and an ‘Add to Cart’ link.

01 A) Basic flow

- ~~1. User opens a web browser, gives the URL for the ‘Marvel e-store’ website in and clicks on ‘Go’ button.~~
- ~~2. System launches the web site.~~
1. User clicks on any ~~product~~ category link in the ‘Product’ ‘Category’ list given in top-left corner.
2. System displays ‘Category Page’ with the products available for the category chosen.
3. User clicks on any product link in ‘Products for this Category’ list.
4. System displays ‘Product Page’ with list of all of the items for the product chosen along with the price of each item and a link labeled ‘Add to Cart’ in right column of the list.
5. User clicks on any item link in ‘Items for this Product’ list.
6. System displays ‘Item Page’ for the item chose, including a photo if one is available and an ‘Add to Cart’ link.

02 B) Extensions

- 3a. User navigates to category page of a particular type of product by clicking on any product in the image map located in the center of the page.
- 4a. User views the next few items from the list of all products in category by clicking on ‘Next’ link in the bottom right corner of product list and then navigates to ‘Product Page’ of a particular product by clicking on that product link in ‘Products for this Category’ list.

Use Case 2: Search Catalog

Description: This use case describes how the User can search the e-store catalog.

Primary Actor: User

Stakeholders and Interests:

- **User:** Wants user-friendly interface and fast searching speed.
Wants to find some specific product in catalog and add items to the cart successfully.
- **Company:** Wants to satisfy user interests.

Preconditions: ~~None~~ System displays “Main Page”

Success Guarantee (Post Conditions):

- ‘Product Screen’ displays items and corresponding list prices for the searched product.
- ‘Item Screen’ displays detailed information about an individual item for sale, including a photo, if one is available.
- ‘Cart Screen’ displays the various items added to the cart, the quantity and list price of each item and the Subtotal.
- System displays ‘Item Page’ with item chosen by the user, including a photo (if one is available) and an ‘Add to Cart’ link.

A) Basic flow

- ~~1. User opens a web browser, gives the URL for the ‘Marvel e-store’ website in —and clicks on ‘Go’ button.~~
- ~~2. System launches the web site.~~

1. User enters text in text box next to Search button and clicks on Search button.
2. System displays **page with** the matching text products.
3. User clicks on the desired link. ~~User can navigate back to the earlier pages if wishes.~~
4. **System displays “Product Page”**
5. **User clicks on any item link in ‘Items for this Product’ list.**
6. **System displays ‘Item Page’ for the item chose, including a photo if one is available and an ‘Add to Cart’ link.**

B) Extensions

- 3a If search returns no results, System displays the message “No matches found for the entered text”.

~~Use Case 3: Create New Account~~

See [Use Case 11D](#)

Description: This use case describes how a new User can register with e-store

Primary Actor: User

Stakeholders and Interests:

- **User:** Wants user-friendly interface and fast searching speed.
————— Wants to register and create the account with ease and within a short time.
- **Company:** Wants to satisfy user interests and validate user information.

Preconditions: E-store website main page is loaded. ~~System displays main page.~~

Success Guarantee (Post Conditions):

- 'Account verification Screen' lets the user review his/her account details and then successfully register as a user of this site.

Basic flow:

1. The new use click on new 'create new Account link'.
2. The user is at Account Information screen.
3. The new use enters the following details in the Account Information Screen.
Contact Information:
 - a. First Name
 - b. Last Name
 - c. Street Address
 - d. City
 - e. State of Province
 - f. Country
 - g. Postal Code
 - h. Telephone Number
 - i. E-Mail Credit Card Information
 - j. Card Number
 - k. Card Type
 - l. Card Expiry Date
- 4. The user clicks on Update and the system validates all the user information and displays the signing information page.
5. User enters the new Username and Password.
6. System validates that the Username is already in use. If not, system displays the new account confirmation page.
7. System sends an e-mail notification about new account creation to User.

Use Case 4: Update Account Information

Description: This use case describes how a User can update his account information with e-store

Primary Actor: User

Stakeholders and Interests:

- **User:** Wants user-friendly interface and fast searching speed.
Wants to update the account with ease and within a short time.
- **Company:** Wants to satisfy user interests and validate user information.

Preconditions: (Post conditions of [Use Case 11](#))

1. User is logged in
2. System displays account information page

Success Guarantee (Post Conditions):

- 'Account Information Page' lets the user review his/her account details and then successfully modifying its contents.

04 A) Basic flow

- ~~1. User Clicks on the Signin Link~~
- ~~2. System displays the sign In screen~~
- ~~3. User enters the Username and Password~~
- ~~4. System displays the Account Information Page.~~

1. User clicks on the "update Account" link
2. ~~User is at~~ **System displays** Modifiable Account Information Page.
3. User modifies the account information and exits the page by clicking on "Finish".
4. System displays the confirmation message "Account Information is updated".

Miscellaneous:

Steps 1 and 2 in the Basic Flow are part of the 'Login' use case. The basic flow of this use case 'uses' or 'includes' the 'Login' use case.

Use Case 5: Cancel Account Information

Description: This use case describes how a User can cancel his account information with e-store

Primary Actor: User

Stakeholders and Interests:

- **User:** Wants user-friendly interface and fast searching speed.
Wants to cancel the account with ease and within a short time.
- **Company:** Wants to satisfy user interests and validate user information.

Preconditions: (Post conditions of [Use Case 11](#))

1. User is logged in
2. System displays account information page

Success Guarantee (Post Conditions):

- 'Account Information Page' lets the user cancel his account.

05 A) Basic flow

- ~~1. User Clicks on the Signing Link.~~
 - ~~2. System displays the sign In screen.~~
 - ~~3. User enters the Username and Password.~~
 - ~~4. System displays the Account Information Page.~~
-
1. User clicks on the "Cancel Account" link.
 2. System **logs out the user and** displays the confirmation message "Account deleted".
 3. System **displays sign in page and** sends an e-mail to user confirming the cancellation of the account.

Use Case 6: Maintain Shopping Cart

Description: This use case describes how an actor can modify items in the shopping cart.

Primary Actor: User

Stakeholders and Interests:

User: Wants to browse/purchase electronic items from the Store.

Marvel electronics Owner: Every user who visits the site or makes a purchase has a direct bearing on the revenue and hence the profitability of the store owner.

Pre-Condition: ~~The actor is on the Cart Screen and have already logged in.~~

System displays 'Item Page' for the item chose, including a photo if one is available and an 'Add to Cart' link.

Post-Condition: The user successfully modifies existing items in the cart or adds new items to the cart.

06 A) Basic Flow

1. **The user clicks on the "Add to Cart" link.** ~~The user clicks on one of the category in the left frame of the screen page and navigates to the item he wishes to add to the cart and clicks on the "Add to Cart" link.~~
2. The system displays the Cart Page with the all the old items and the newly added item. The subtotal field displays the total cost of the shopping cart.
3. ~~The user repeats steps 3 and 4 for all the items he wants to add to the cart.~~

06 B)

1. The user modifies the item quantity for one or multiple items and clicks "Update Cart".
4. The system updates the new quantity and displays the modified line item totals and sub-total to the user.

06 C)

1. The user clicks the "Remove" link to remove any of the items in the cart.
2. The system deletes the item from the cart and adjusts the sub-total accordingly.

06 D) Extensions Flows

- a. User proceeds to adding Items to cart and modifying cart without logging in.
- b. If the user enters a non-positive or non-integer quantity the system displays an appropriate error message.
- c. If user closes the window without proceeding for payment, the cart is stored in the system for a pre-decided number of days, before getting flushed, so that the user can return to the cart in the future.

- d. 'Refresh cart' feature is available for resetting the cart.

Special Requirements:

1. Multiple users should be able to add items to cart simultaneously.

Technology and Data Variation List:

None

Frequency of Occurrence:

There is a possibility that multiple users will add an item to the same cart simultaneously from different locations.

Use Case 11: Login/Registration

Link:

<https://docs.google.com/document/d/1z3LzRO57fCvNz5Kk9ME4kOoQ9u-76C3cfwiwwd61o0c/edit?usp=sharing>

Description

This use case describes how users gain access to the e-Store system through the login/registration (account creation) process.

Primary Actors

Users (Customers, Administrators)

Stakeholders and Interests

1. User: wants to gain access to the system for any number of reasons (e.g., maintain personal account, check order status, purchase items, administer system, etc.).
2. Marvel Electronics Owner: wants to ensure security of system.

Pre-Conditions

1. System displays "Sign In" page.
2. (A and B) User has username and password
3. (D) User is not registered (does not have an username)

Post Conditions:

1. (A, C, D - Success): User is logged in and system displays account information page.
2. (B - Failure): User failed to log in and is appropriately notified.

A) Basic Flow

1. User enters his/her username and password in the "Sign In" page.
2. System validates username and password (successfully), logs the user in and displays the user's account information page.

B) Invalid Password

1. User enters his/her username and password in the "Sign in" page.
2. System determines that the username or password is invalid and informs the user to try again.

C) Returning User, Forgotten Username or Password

1. User has forgotten his/her username, password, or both, and clicks the "Forgot Username/Password?" link
2. System resets the users credentials and sends an e-mail notification with the new information
3. User utilizes the new username/password information to log in following the basic flow

D) New User

1. User clicks on "New User" link on "Sign In" page.
2. System displays "New User" page.

3. User enters his/her account information and chooses a username and password.
4. System validates **and registers** the information entered.
5. System sends the user an e-mail with a confirmation link **and displays “Sign in” page**.
6. User confirms new account by clicking on confirmation link in the e-mail, system logs the user in and displays his/her account information page.

System Administrator

System administrators follow the basic flow for this use case when logging in to the system.

Special Requirements

- After three consecutive unsuccessful login attempts, the user's account will be locked and must be reset by a system administrator.
- Users may not login from multiple different computers simultaneously. If this condition is detected, the user will be notified with appropriate warning/error messages.

Dúvida:

Para o Special Requirement 2: “If this condition is detected, the user will be notified with appropriate warning/error messages.” crio uma regra que a) só dá uma mensagem para o usuário e não permite que ele faça um novo log in? b) além de dar uma mensagem e não permitir o novo login destrói o login antigo? c) faz alguma outra coisa?

Technology and Data Variation List

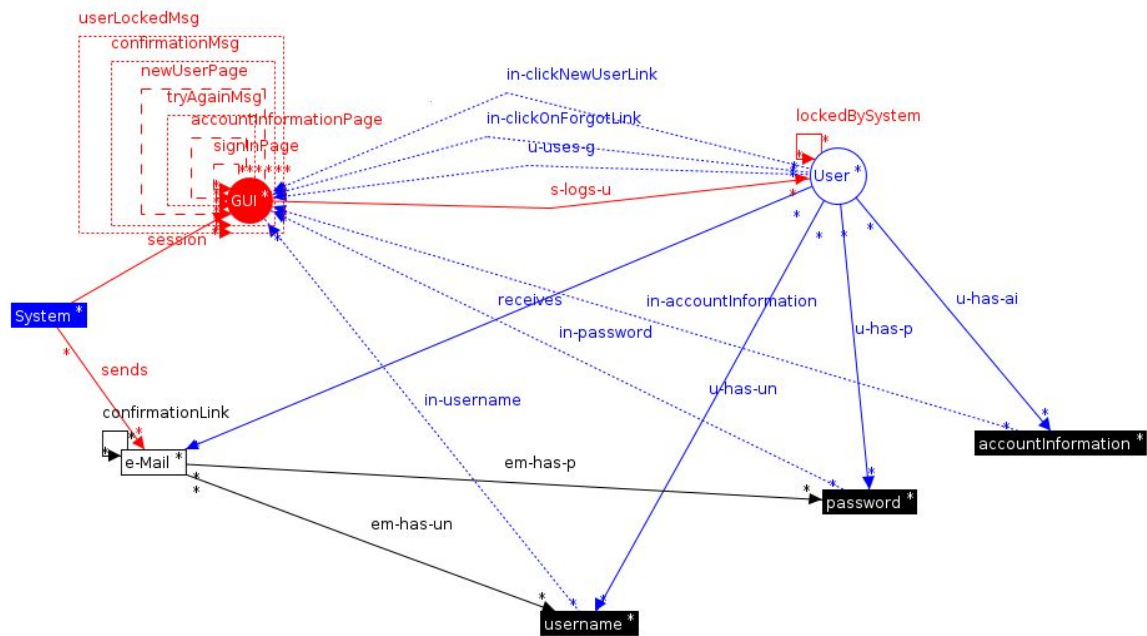
None

Frequency of Occurrence

Users must log in to access their account information, to process a return request, and, optionally, to place an order. The system administrator must log in to administer the system.

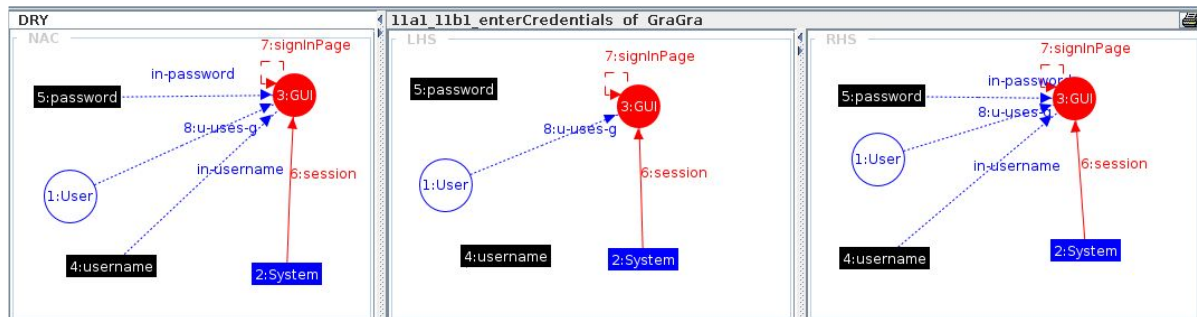
Modeling

TypeGraph

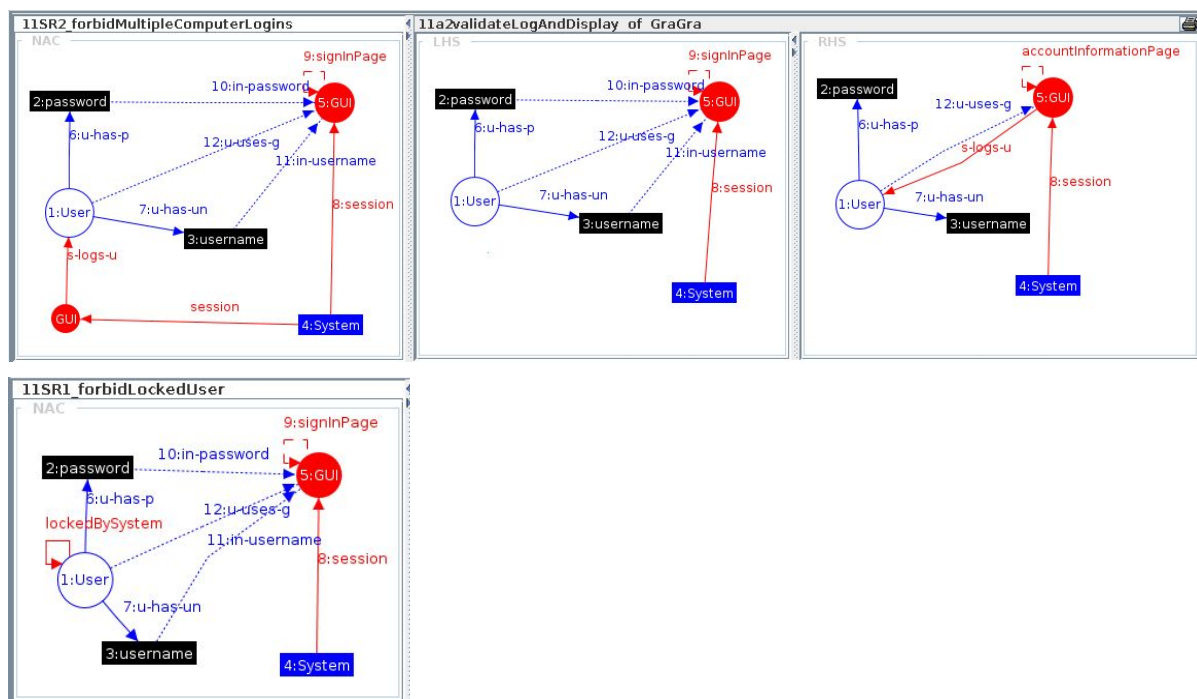


Rules

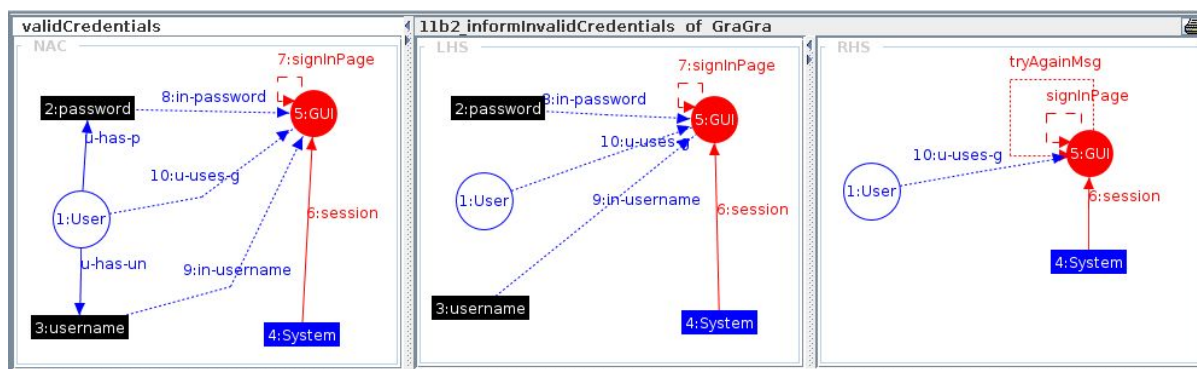
A1 e B1)

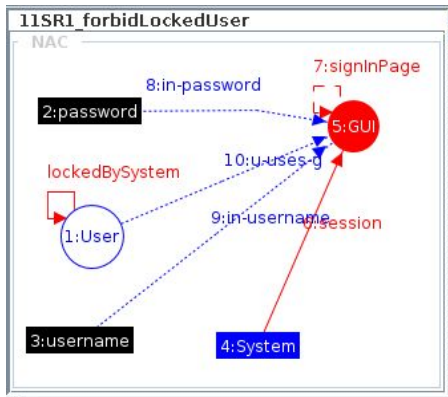


A2)

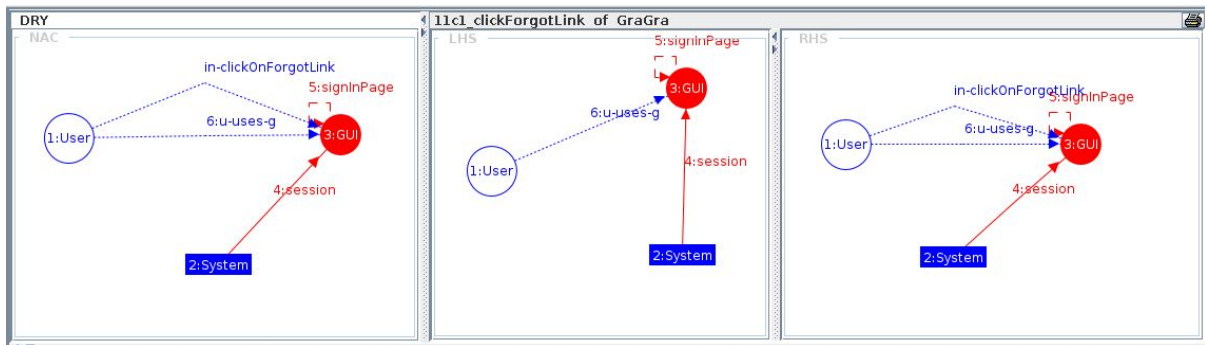


B2)

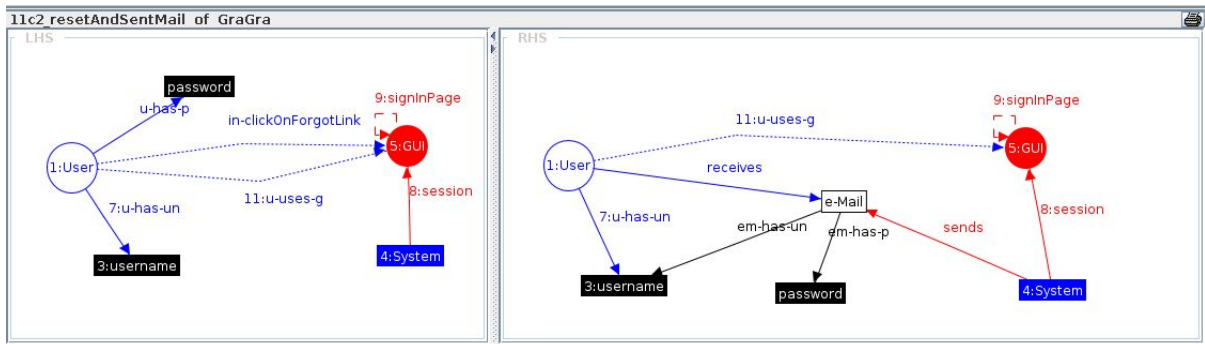




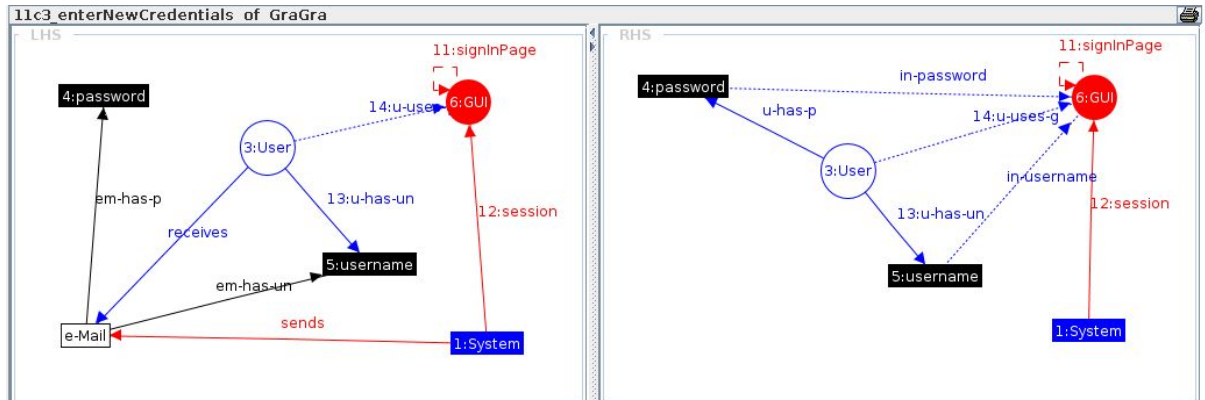
C1)



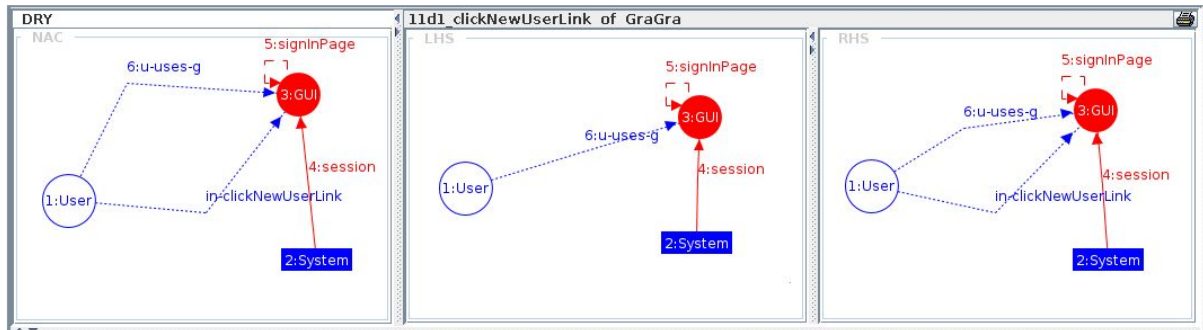
C2)



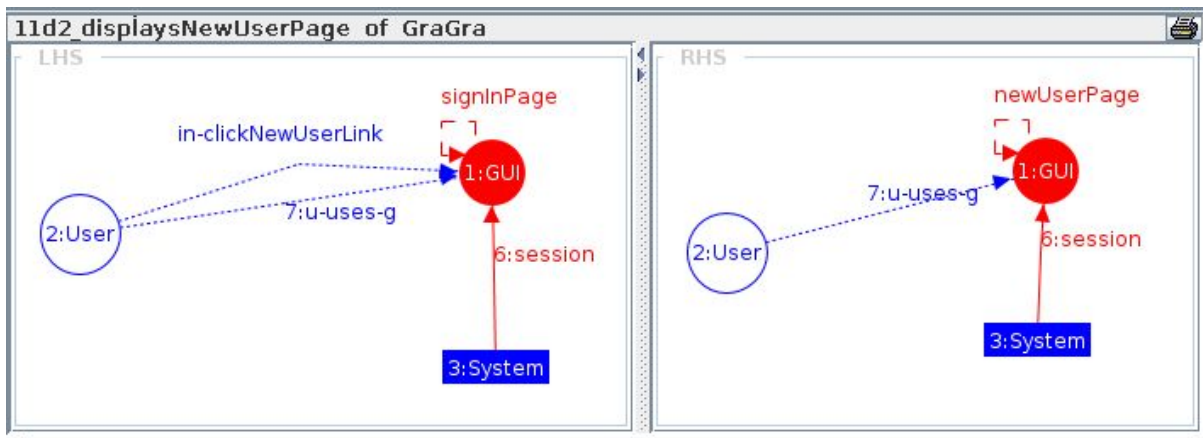
C3)



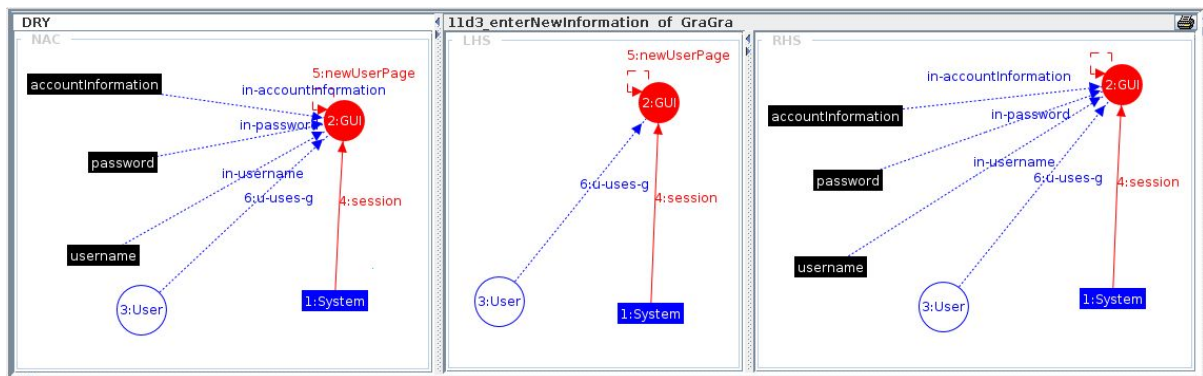
D1)



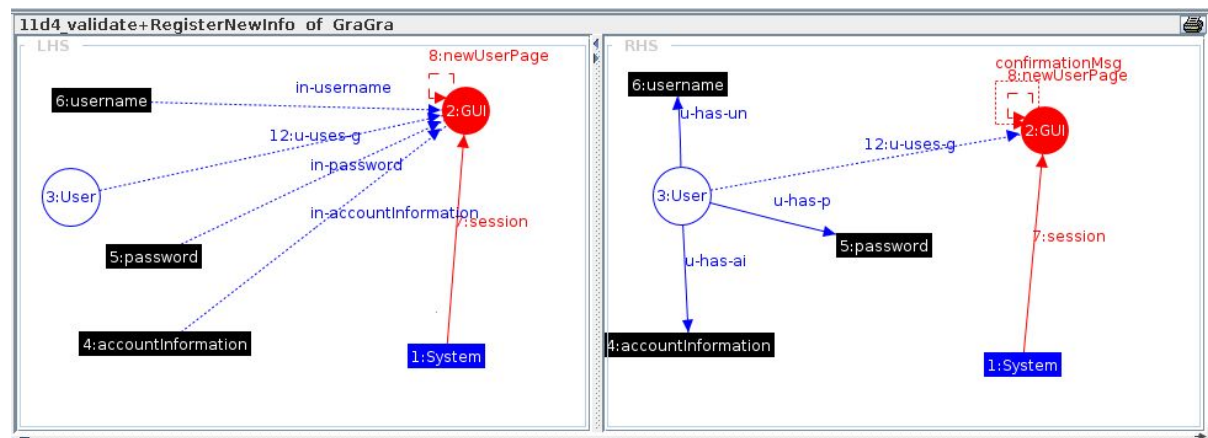
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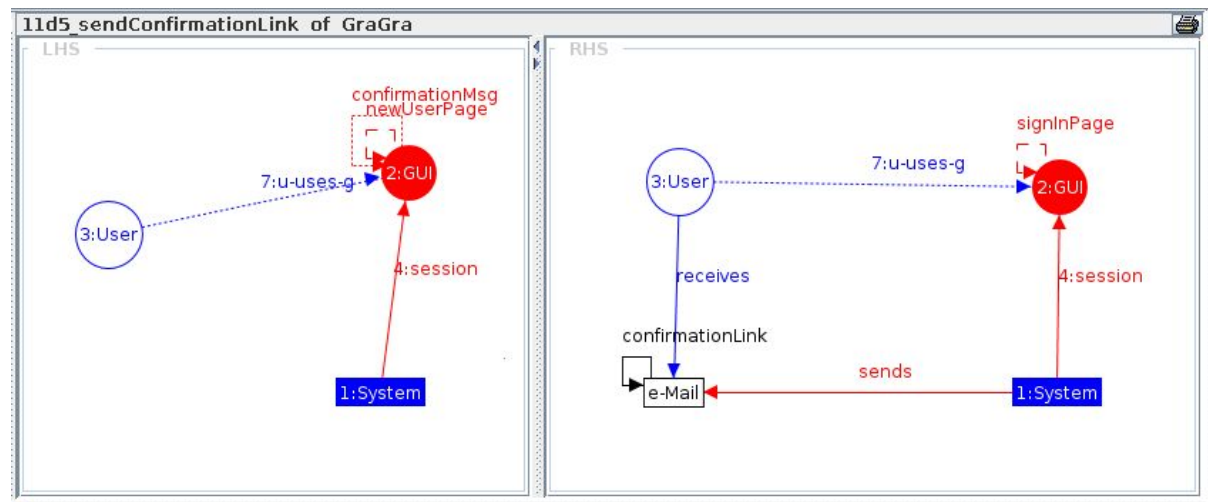
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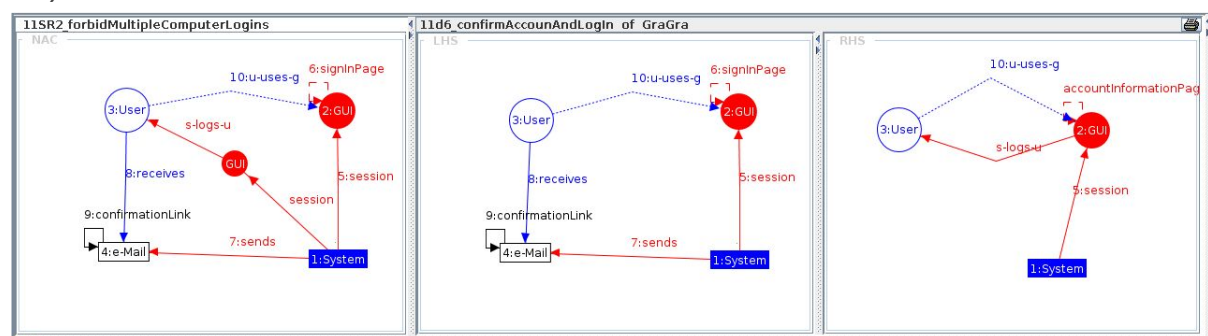
D4)



D5)



D6)



R1)

