



Proiect final
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10.04.2024

I. Notiuni teoretice

- *Ce e reprezentă cerințele de business, la ce ne folosesc și cine le creează?*

Cerintele de business reprezinta un set de specificatii care se bazeaza pe nevoile clientului. Ele ajuta la stabilirea asteptarilor privind proiectul in dezvoltare, definesc importanta si beneficiile acestuia.

- *Test Condition vs Test Case*

Test Condition – definește o condiție ce trebuie verificată în timpul testării pentru a verifica funcționalitatea sau/si comportamentul unui sistem sau a unei anumite funcționalități. •

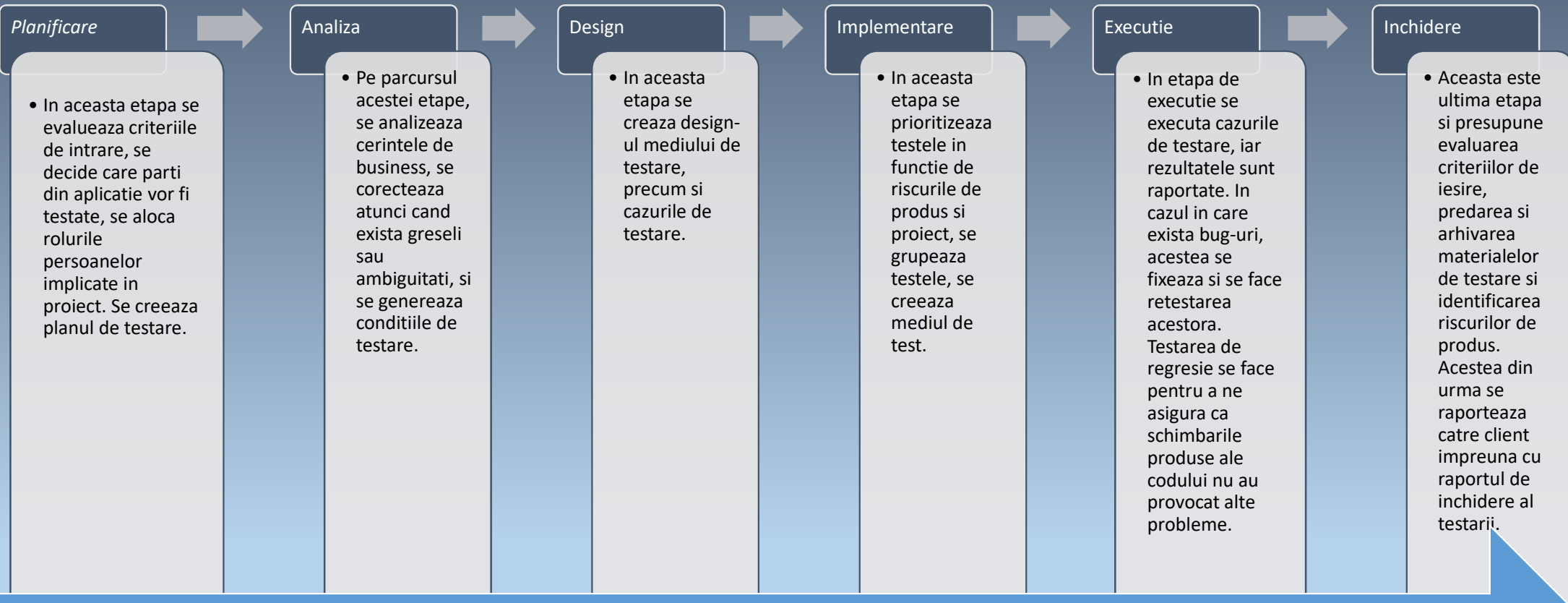
Test Case –este un set detaliat de instrucțiuni ce trebuie făcute pentru a verifica dacă anumite condiții de testare sunt îndeplinite sau nu.

- *Retestare vs Testare de Regresie*

Retestarea verifică dacă defectele găsite în sistem au fost remediate.

Testarea de regresie verifică dacă prin rezolvarea defectelor descoperite anterior, nu s-au produs alte defecte în întreg sistemul.

Etapele procesului de testare



Monitorizare si control

Aceasta etapa monitorizeaza progresul actual si il compara cu planul initial de testare, incepe o data cu prima etapa si se termina cu ultima. Se iau masuri de control atunci cand exista devieri de la plan sau se observa riscul de a nu indeplini cerintele.

Functional Testing vs Non-functional Testing

Functional Testing

- Testarea functionala este un tip de testare black-box. Testele functionale sunt teste create pe baza specificatiilor, functionalitatile pot fi testate fara a sti partea interna a produsului.

Non-functional Testing

- Testarea non-functională verifică performanța, eficiența, mentenabilitatea sistemului și se concentrează pe cum trebuie să se comporte produsul software.

Black-box Testing vs White-box Testing

Black-box Testing

- Testarea Black-box este o metoda de testare bazata pe specificatii, ea examineaza functionalitatile aplicatiei, fara a cunoaste structura codului sursa pe baza caruia actioneaza programul.

White-box Testing

- Testarea White-box denumita si testare structural, este o metoda de testare care se concentreaza pe verificarea codului, design-ului, precum si a structurii interne a unei aplicatii software.

Verificare vs validare

Verificare

Verificarea este procesul prin care ne asiguram ca produsul este construit conform documentatiei.

Validare

Validarea este procesul prin care ne asiguram ca produsul finit se comporta conform asteptarilor utilizatorului.

Testare pozitiva vs testare negativa

Testare pozitiva

Testarea pozitiva implica testarea unui system prin introducerea unor date valide si corecte, pentru a ne asigura ca acesta functioneaza conform asteptarilor.

Testare negativa

Testarea negativa este modalitatea de testare a unui system prin introducerea unor date incorecte, neasteptate, pentru a ne asigura ca acestea sunt respinse si ca nu cauzeaza defecte ale sistemului.

Tehnicile de testare

Whitebox

- *Statement coverage*
- *Decision coverage*

Blackbox

- *Boundary Value Analysis*
- *Equivalence Partitioning*
- *State Transitioning*
- *Decisional Table*
- *Use case testing*

Experience testing

- *Ad-hoc Testing*
- *Exploratory Testing*
- *Error guessing*

Nivelurile de testare

```
graph TD; A[Nivelurile de testare] --> B[Testarea de componente]; A --> C[Testarea de integrare]; A --> D[Testarea de integrare a sistemului]; A --> E[Testarea de sistem]; A --> F[Testarea de acceptanta];
```

Testarea de componente-
presupune
verificarea fiecarui
component in parte

Testarea de integrare-consta in
testarea interactiunii
dintre componente
si/sau sisteme

Testarea de integrare a sistemului-
presupune
testarea
componentelor
individuale
combine

Testarea de sistem-evalueaza
intreaga
functionalitate si
performanta a
intregului sistem

Testarea de acceptanta-
verifica daca
produsul finit
corespunde
cerintelor de
business

CERINTE DE BUSSINESS

Projects / Simona Catrinoliu TM-... / Add epic / SCTT-8

As an existing user of the site elefant.ro I want to be able to add a product to my cart

Attach Create subtask Link issue

Description

- **Description:** This user story describes the process of adding a product in the cart, when already registered with a customer account on the website www.elefant.ro. The user should be able to add a product in the cart, using 'Adauga in cos' button found on the right side of the product.

- **Business Requirements:**

The "Adauga in cos" button should be available on the right side of the product.

Clicking the "Adauga in cos" button should successfully add the selected product to the user's cart.

After adding an item to the cart, the user should see a summary that displays the total number of items currently in their cart.

The user should have the option to continue shopping and add more items to their cart, or proceed to checkout directly from the cart summary.

- **Preconditions:**

The user must have an existing account on the site.

The user must be logged in to their account.

The user must go to 'Categorii', then select a 'Subcategorie', press any 'Colectie' button and then select the product.

- **Acceptance Criteria:**

When browsing a product, I should see an "Adauga in cos" button.

Clicking the button should add the product to my cart

The cart summary should display the total number of items added.

I can continue shopping or proceed to checkout from the cart.

Attachments (1)



As a user, I want an option to stay logged in, so that I don't have to enter my credentials every time.

Attach Create subtask Link issue

Description

- **Description:** This user story describes the process of staying logged in as a user, when already registered with a customer account on the website www.elefant.ro. The user should be able to stay logged in, by selecting 'Tine-ma minte' button when logging in.
- **Business requirements:**

The user must be able to remain logged in for a specified period of time.

The user must be able to log out of the platform at any time and be able to log in back.

The user must be able to reset their password if they forget it.

The user must be able to view and manage their login sessions.

The user must be able to revoke access to their account from other devices.

- **Preconditions**

The user must have an account on the platform.

The user must have the option to log in to and log out of the platform.

The user must have the option to remain logged in after closing the application or browser.

The user must have the option to reset their password if they forget it.

- **Acceptance Criteria:**

When I log in successfully, there should be an option to keep my session active across multiple visits or browser sessions.

During login, I should see a "Tine-ma minte" checkbox. If I check it, my login session remains active even after closing the browser or app.

When I return to the website or app, I should be automatically logged in without having to re-enter my credentials.

Despite staying logged in, I should have the ability to log out manually if needed.

The "Tine-ma minte" feature should not compromise security. It should use secure tokens or cookies to maintain the session.

Attachments (1)



CONDITIILE DE TESTARE

Condtiile de testare de mai jos sunt create in Zephyr Squad. Se testeaza functionalitatile de logare, precum si functionalitatile de adaugare, stergere sau sortare a produselor aflate in cosul user-ului deja logat.

IssueKey	Summary	Issue Type	Status
SCTT-19	Verify if the user is automatically logged out when the session expires due to inactivity.	Test	Done
SCTT-18	Verify that the "Stay Logged In" functionality works consistently across different browsers (Chrome, Firefox, Edge, etc.)	Test	Done
SCTT-17	After successful login, verify that the user remains logged in even after closing the application or browser.	Test	Done
SCTT-16	Verify that incorrect credentials (invalid username or password) result in a failed login.	Test	Done
SCTT-15	Verify that a user can log in successfully using valid credentials (username and password).	Test	Done
SCTT-14	Verify that clicking the "-" button multiple times does not allow the user to proceed to a negative quantity (e.g., -1, -2, -3, etc.).	Test	Done
SCTT-13	Verify whether the user can increase the quantity of the product in the cart.	Test	Done
SCTT-12	Verify that the cart displays as empty when the user removes all items.	Test	Done
SCTT-11	Verify that the quantity of the product increases by one when adding an item to the cart.	Test	Done
SCTT-10	Verify that clicking the "Add to Cart" button successfully adds the selected product to the cart.	Test	Done

CAZURILE DE TESTARE

SCTT-15

Created at 27/Feb/24 2:03 PM by IT Factory with [Better PDF Exporter for Jira Cloud](#)



[SCTT-15] Verify that a user can log in successfully using valid credentials (username and password).

Created: 26/Feb/24 10:29 PM - Updated: 27/Feb/24 1:52 PM - Resolved: 27/Feb/24 1:13 PM

Status:	Done		
Project:	Simona Catrinolui TM-TA10		
Component/s:	None		
Fix Version/s:	None		
Type:	Test	Priority:	High
Reporter:	IT Factory	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Original Estimate:	Not Specified		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		

Description

The user is able to log in successfully using a valid username and a valid password.

Preconditions:

- The user must have previously signed up.
- Valid URL
- Valid credentials

Test Step	Test Data	Expected Result
1. Navigate to www.elefant.ro	www.elefant.ro	User can access the website
2. Go to 'Sign-up' page, on the right side of the screen		User can access 'Sign-up' page
3. Enter valid username and password and press 'Sign in'	Valid username and valid password	User is able to enter a valid username and password and is able to log in successfully

Version	Test Cycle	Status	Defects	Executed By	Executed On
Unscheduled	Ad hoc	PASS		IT Factory	27/Feb/24 1:54 PM

SCTT-13

Created at 28/Feb/24 10:09 AM by IT Factory with [Better PDF Exporter for Jira Cloud](#)



[SCTT-13] Verify whether the user can increase the quantity of the product in the cart.

Created: 26/Feb/24 10:24 PM - Updated: 28/Feb/24 9:52 AM - Resolved: 27/Feb/24 1:13 PM

Status:	Done
Project:	Simona Catrinolui TM-TA10
Component/s:	None
Fix Version/s:	None

Type:	Test	Priority:	Medium
Reporter:	IT Factory	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Original Estimate:	Not Specified		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		

Description

The user is able to add a product to cart and then increase the quantity of the product by pressing '+' sign

Preconditions:

- The user must have internet connection and go to website www.elefant.ro
- The user must be logged in with a valid username and password
- The user must already have at least a product in the cart

Test Step	Test Data	Expected Result
1. Navigate to www.elefant.ro	www.elefant.ro	User is able to access the website
2. Go to Log in page and log in using valid credentials	Valid username and password	User is able to log in
3. On the new page, from the dropdown 'Categories', choose 'Books', scroll down and add a book to your cart		User is able to add a product to cart
4. On the new page, on the right side of the screen, select 'cart' dropdown and then press 'see your cart' in order to access the cart		User is able to access the cart
5. On the new page, below the product, press '+' button in order to increase the quantity of the product		User is able to increase the quantity of the product

Version	Test Cycle	Status	Defects	Executed By	Executed On
Unscheduled	Ad hoc	PASS		IT Factory	28/Feb/24 10:06 AM

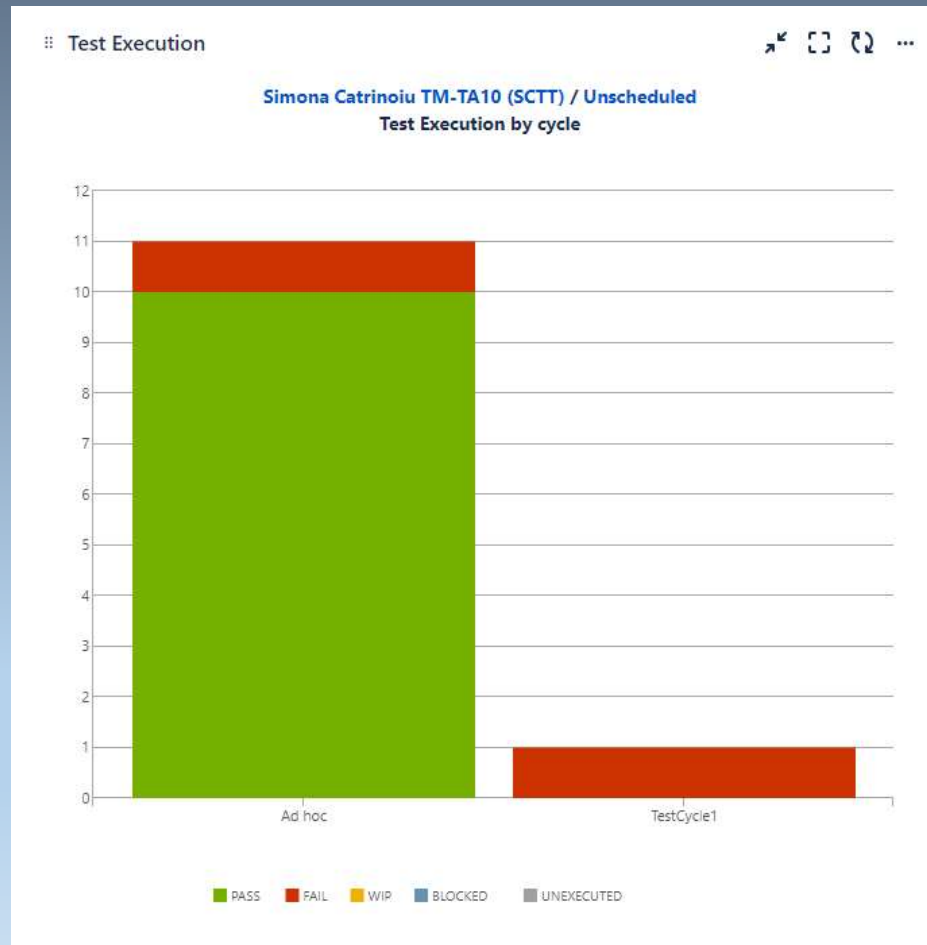
MATRICEA DE TRASABILITATE

Requirements	Tests	Executions	Defects
	SCTT-23 - Verify that the products stay in the cart after logging in	TestCycle1 - FAIL	SCTT-22 - The products do not stay in the cart after logging in
SCTT-9 - As a user, I want an option to stay logged in, so that I don't have to enter my credentials every time.	SCTT-15 - Verify that a user can log in successfully using valid credentials (username and password).	Ad hoc - PASS	None
	SCTT-16 - Verify that incorrect credentials (invalid username or password) result in a failed login.	Ad hoc - PASS	None
	SCTT-17 - After successful login, verify that the user remains logged in even after closing the application or browser.	Ad hoc - PASS	None
	SCTT-18 - Verify that the "Stay Logged In" functionality works consistently across different browsers (Chrome, Firefox, Edge, etc.)	Ad hoc - PASS	None
	SCTT-19 - Verify if the user is automatically logged out when the session expires due to inactivity.	Ad hoc - PASS	None
	SCTT-20 - Verify if when unselected, the 'remember me' option does not work	Ad hoc - FAIL	SCTT-21 - When logging in, the 'remember me' checkbox is automatically selected and the username and password are filled in
SCTT-8 - As an existing user of the site elephant.ro I want to be able to add a product to my cart	SCTT-10 - Verify that clicking the "Add to Cart" button successfully adds the selected product to the cart.	Ad hoc - PASS	None
	SCTT-11 - Verify that the quantity of the product increases by one when adding an item to the cart.	Ad hoc - PASS	None
	SCTT-12 - Verify that the cart displays as empty when the user removes all items.	Ad hoc - PASS	None
	SCTT-13 - Verify whether the user can increase the quantity of the product in the cart.	Ad hoc - PASS	None
	SCTT-14 - Verify that clicking the "-" button multiple times does not allow the user to proceed to a negative quantity (e.g., -1, -2, -3, etc.).	Ad hoc - PASS	None

Forward Traceability



RAPORTUL GENERAT DIN APLICATIA JIRA DIN SECTIUNEA DASHBOARD



ANALIZA DE RISC-MATRICE SAU GRAFIC PRISMA

ID Risc	Risc	Probabilitate	Impact	Nivel de risc=Impact x Probabilitate
Riscuri de proiect				
R1	Probleme cu cerintele neclare de de bussiness sau care se schimba frecvent	3	4	12
R2	Calitatea scazuta a codului	2	4	8
R3	Lipsa competentei echipei	3	4	12
R4	Dedline restrans	3	3	9
R5	Probleme cu instrumentele de testare	3	3	9
R6	Intarzieri in inceperea procesului de testare	4	4	16

ID Risc	Risc	Probabilitate	Impact	Nivel de risc=Impact x Probabilitate
Riscuri de produs				
R7	Performanta scazuta a produsului software	3	4	12
R8	Aplicatia nu este usor de utilizat	3	3	9
R9	Pierdere clientilor din cauza erorilor aplicatiei	3	4	12
R10	Compatibilitate scazuta a software-ului cu alte extensii	2	4	8
R11	Cerere scazuta a pietei	2	4	8
R12	Aplicatia nu poate fi utilizata si de catre persoanele vulnerabile	3	3	9

	Insignifiant	Minor	Moderate	Major	Catastrophic
Probabilitate	1	2	3	4	5
Almost Certain					
Likely				R6	
Possible			R4,R5,R8,R12	R1,R3,R7,R9	
Unlikely				R2,R10,R11	
Rarely					

Raport de defect (Bug Ticket)

SCTT-8 / SCTT-22

The products do not stay in the cart after logging in

[Attach](#) [Create subtask](#) [Link issue](#) [▼](#)

Description

Description: The products in the cart disappear after logging in

Steps to reproduce:

1. Go to www.elefant.ro
2. Select a product and add it to card using 'Add to cart' button
3. On the right side of the screen, select 'My account', go to log in window and log in using username (simonaa.voiculescu@gmail.com) and password (Abecedar12)

Expected result:

The products previously added to cart should remain in the cart

Actual result:

The products are automatically deleted from the cart

Environment

Chrome 1.2

CONECTARE



Cont



Favorite



Cos

CONTUL MEU



SIMONA CATRINOIU



Cont



Favorite



Cos

CONECTARE

SCTT-9 / SCTT-21

When logging in, the 'remember me' checkbox is automatically selected and the username and password are filled in

[Attach](#) [Create subtask](#) [Link issue](#) [▼](#)

Description

Description: Remember me' checkbox is automatically selected when trying to sign in

Steps to reproduce:

1. Navigate to www.elefant.ro
2. Go to log in window and fill in username (simonaa.voiculescu@gmail.com) and password (Abecedar12)
3. Press 'Log in' but do not select 'Remember me' checkbox
4. After logging in, go to the right side of the new screen and from the 'My account' dropdown, select 'Disconnect'

Expected result:

After logging out, the username and password fields should be blank and 'remember me' checkbox unselected

Actual result:

After logging out, the username and password fields are populated and 'remember me' checkbox is automatically selected

Environment

Chrome 1.2

Utilizatori Recurenți

simonaa.voiculescu@gmail.com

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Ține-mă minte

CONECTARE

CONCLUZII GENERALE

- In cadrul acestui proiect au fost scrise si acoperite 2 story-uri si testate 13 test case-uri planificate pentru executie.
- Dupa executia tuturor testelor, au fost descoperite 2 bug-uri, ale caror prioritati sunt:
- Dupa fixarea defectelor raportate, urmeaza efectuarea retestarii si a testarii de regresie.
- Accesarea proiectului final adaugat in GitHub se poate face prin intermediul urmatorului link: <https://github.com/SimonaCatrinoiu6>

VA MULTUMESC!