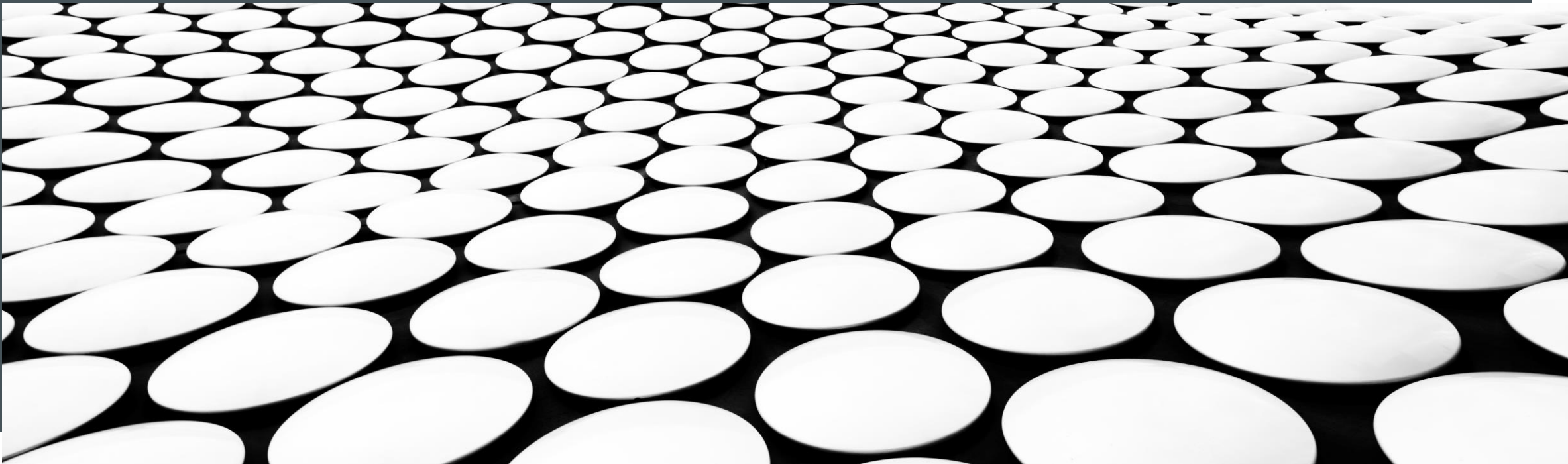


TESTARE MANUALA

PROIECT FINAL

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CUPRINS

I. NOTIUNI TEORETICE
*acumulate in urma parcurgerii sesiunilor
de curs in Testare Manuala.*

II. ASPECTE PRACTICE
ale cunostintelor acumulate si aplicate.

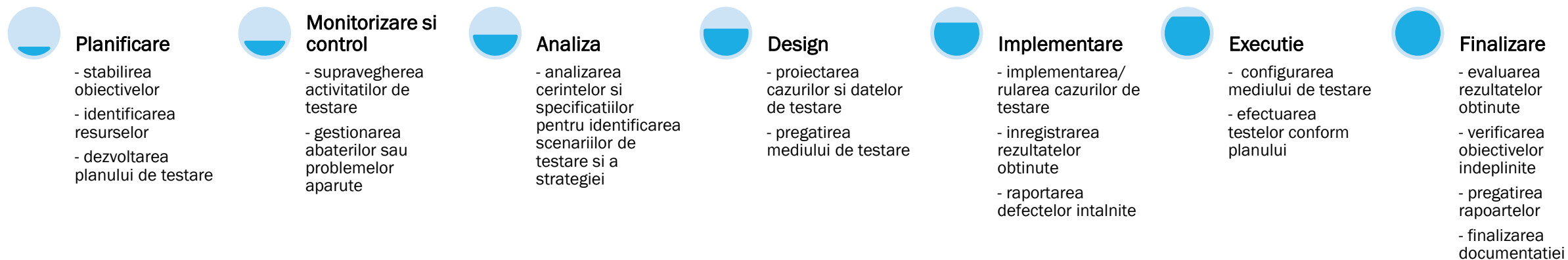
I. NOTIUNI TEORETICE

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❖ Cerintele de business

Echipa de management/antreprenorul creeaza niste specificatii detaliate care definesc clar obiectivele si asteptarile produsului dorit planificand totodata si implementarea acestora.

❖ Etapele procesului de testare



Test Condition

Reprezinta un element sau o functionalitate a unei componente/sistem care e verificat printr-un Test Case.

• Ce voi testa?

Test Case

Reprezinta o serie de pasi de executat pentru a verifica o anumita functionalitate a produsului.

• Cum voi testa?

I. NOTIUNI TEORETICE

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Positive testing

Este o metoda de a verifica daca aplicatia face ceea ce se asteapta sa faca in mediul normal de utilizare.

- *Exemplu:* Verificarea sistemului cu o combinatie de nume de utilizator si parola pentru conectare in cont

Negative testing

Este o metoda de a verifica daca sistemul arata o eroare atunci cand trebuie si nu afiseaza eroarea atunci cand nu trebuie.

- *Exemplu:* Dupa introducerea numelui de utilizator si a unei parole gresite sistemul trebuie sa afiseze eroarea de parola introdusa gresit.

Retesting

Este o testare planificata care verifica defectele si asigura ca defectiunea initiala a fost corectata.

Regression testing

Este o testare generica care nu include verificarea defectelor, ci verificarea efectelor secundare neasteptate sau daca schimbarile aduse asupra softului nu cauzeaza si alte defecte.

Functional testing

Este un test ce se bazeaza pe cerintele de business ale produsului daca functionalitatile acestuia indeplinesc asteptarile.

Non-functional testing

Este un test ce se bazeaza pe asteptarile consumatorului, cerintelor de performanta, fiabilitate si utilizare.

Blackbox testing

Este o metoda de testare unde structura interna (codul) a elementului testat nu este cunoscuta testerului ci doar interfata.

Whitebox testing

Este o metoda de testare a softului unde structura interna a elementului este cunoscuta de tester, deasemenea este testata implementarea si impactul codului.

I. NOTIUNI TEORETICE

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Verification

Este un process de evaluare a produsului daca respecta specificatiile si standardele cerintelor

Validation

Este un process de evaluare a produsului daca indeplineste nevoile si asteptarile utilizatorilor finali.

❖ Tehnicile de testare

White box testing

Analizeaza structura interna a codului de catre developer.

Tehnici folosite:

- a) **Statement coverage:** fiecare linie de cod este testata pentru a evidentia vreun defect.
- b) **Decision coverage:** toate ramurile posibile ale codului sunt executate cel putin o data.

Black box testing

Testerul nu cunoaste codul produsului si se concentreaza pe validarea functionalitatii acestuia in functie de specificatiile primite.

Tehnici folosite:

- a) **Partitionarea echivalenta**
- b) **Analiza valorilor limita**
- c) **Tabel decizional**
- d) **Testarea tranzitiilor de stare**

Experience-based testing

Experienta testerului descopera mai repede zonele importante de unde pot aparea defecte la un produs.

Tehnici folosite:

- a) **Ghicirea erorilor**
- b) **Testarea exploratorie**
- c) **Checklist based testing**

I. NOTIUNI TEORETICE

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❖ Niveluri de testare

Unit test

- Este un nivel de testare in care sunt analizate individual cele mai mici parti ale unei aplicatii.
- Este folosita in general de catre software developers si rareori de testeri.

Component testing

- Elementele supuse testarii pot fi testate intr-o componenta (ex. module, clase).
- Este o metoda folosita de catre echipa de dezvoltare.

Integration test

- Este un nivel de testare in care componentele sunt integrate treptat si apoi testate ca si grup cu scopul de a urmari interactiunea dintre ele.

System test

- Este un nivel de testare care evalueaza functionalitatea si performanta generala a unui soft, daca sunt indeplinite toate cerintele specifice si daca se poate livra catre utilizatorul final.

Acceptance test

- Este ultima metoda de testare care evalueaza conformitatea sistemului cu cerintele de business si daca poate fi livrat sau nu.

II. ASPECTE PRACTICE

ale cunoștințelor acumulate și aplicate

❖ Cerintele de business (Story) pentru site-ul www.houzz.com

GM-1

As a new user I should be able to create account on site www.houzz.com

Attach

Create subtask

Link issue

Description

Description:

As a new user, I should be able to create an account on the website <http://www.houzz.com>. This feature will allow users to sign up for a new account by providing their personal information and creating a unique username and password. The account creation process should be intuitive and straightforward for users of all technical backgrounds.

Requirements:

1. The website should have a "Sign Up" or "Create Account" button that is prominently displayed on the homepage.
2. Users should be able to enter their personal information, including email address and password, into the account creation form or using Gmail address.
3. The website should check the validity of the user's email address to ensure that it is formatted correctly and is not already associated with an existing account.
4. Users should be required to create a password that meets minimum security standards, such as a minimum length or a combination of letters, numbers and special characters.
5. The website should have a mechanism for verifying the user's email address, such as sending a confirmation email with a verification link.
6. Upon successful account creation, users should be automatically logged into their new account.

Preconditions:

1. The website is accessible and functional.
2. The "Sign Up" or "Create Account" button is visible and functional.
3. The user has access to a valid email address.

Acceptance Criteria:

1. The user should be able to click on the "Sign Up" or "Create Account" button and be taken to the account creation form.
2. The user should be able to enter their personal information and create a new account without encountering any errors or technical issues.
3. The user should also have the option of creating an account with a valid gmail address using the predefined field for this.
4. The website should check the validity of the user's email address and password, and provide appropriate error messages if they do not meet the requirements.
5. The website should send a confirmation email with a verification link to the user's email address.
6. The user should be automatically logged into their new account upon successful verification of their email address.



Validate the functionality of the homepage of www.houzz.com

Attach Create subtask Link issue

Description

Description:

This story focuses on testing the core functionality of the homepage on www.houzz.com. The goal is to ensure that the homepage loads without errors, and that all key elements and links work as expected, providing users with a seamless and engaging experience.

Requirements:

1. The homepage should be accessible via the website's main URL (www.houzz.com).
2. The homepage must load within an acceptable timeframe (e.g., within 5 seconds) to provide a good user experience.
3. All navigation links on the homepage, including those to different sections (e.g., Shop Products, Get Ideas, Find Professionals) should be functional.
4. The search bar on the homepage should be operational, allowing users to search for products, ideas or professionals.
5. Featured content or promotions on the homepage should display correctly and link to the relevant pages or products.

Preconditions:

1. Test environment is set up, including access to the latest version of the www.houzz.com website.
2. A range of browsers and devices for testing are available.
3. Test data (e.g. sample featured content) is provided or accessible for validation.
4. Any test accounts required for specific functionality (e.g. personalized content) are created and accessible.

Acceptance Criteria:

1. The homepage loads without errors or visual defects, and there are no broken images or links.
2. The homepage loads within an acceptable timeframe as defined in the requirements.
3. Clicking on the navigation links (Shop Products, Get Ideas, Find Professionals, etc.) takes the user to the respective sections and the correct URL is displayed in the browser's address bar.
4. The search bar allows users to enter keywords and initiates a search when the "Enter" key is pressed or when the search button is clicked.
5. Search results are displayed on a results page and the results are relevant to the search query.
6. Clicking on featured content or promotions (e.g. banners, images, buttons) takes the user to the relevant pages, products, or promotions.
7. Featured content or promotions display correctly with accurate images and descriptions.
8. The homepage is responsive and functions properly on desktop, tablet and mobile devices.
9. The touch gestures (e.g., swiping, tapping) on mobile devices work as expected.
10. The homepage maintains consistent functionality and appearance across popular web browsers (e.g., Chrome, Firefox, Safari, Edge) with no browser-specific issues.

II. ASPECTE PRACTICE

ale cunostintelor acumulate si aplicate

❖ Test Cases pentru website-ul www.houzz.com

Creating new account with gmail address

Attach Create subtask Link issue Zephyr Actions Test Details Test Executions

Description

As a new user I want to check if I am able to create a new account with valid gmail address.

Precondition:

- valid internet connection
- owning Chrome browser
- site available online
- a valid gmail address not previously used on

Acceptance criteria:

- The registration process should proceed smoothly without any errors.
- After clicking the "Continue with Google", the user should receive a confirmation message indicating that the account has been created successfully.
- An email verification message should be sent to the provided Gmail address.

-	Test Step	Test Data	Test Result
1	Open Chrome browser.	Chrome browser	User can open chrome browser.
2	On search bar type site URL www.houzz.com	www.houzz.com	User can access the site www.houzz.com
3	On the main page, on top-right press on "Sign in" button.	The button "Sign in".	The "Sign in" button is clickable. User is redirected to log in houzz page.
4	On the bottom of the page near the question "Don't have an account yet?" press on "Join now".	The button "Join now".	The "Join now" button is clickable. User is redirected to creating account page.
5	On the Sign up page, on right side press on "Continue with Google".	The button "Continue with Google".	The "Continue with Google" button is clickable. User is redirected to choose/fill the gmail account.

Check if the homepage of www.houzz.com is fully loaded

Attach Create subtask Link issue Zephyr Actions Test Details

Description








As a user I want to check if the homepage is fully loaded like buttons and pictures.

Precondition:

- valid internet connection
- owning Chrome browser
- site available online

Acceptance criteria:

- The homepage should load without any visible errors or issues.
- All images and elements on the homepage should be displayed correctly.
- The loading time should be within an acceptable timeframe.

-	Test Step	Test Data	Test Result	Action
1	Open the Chrome browser on a desktop device.		The browser is open on the device.	 
2	Navigate to the www.houzz.com website by entering the URL in the address bar and press enter.	www.houzz.com	The user can see the website URL entered in the field of address bar.	 
3	Observe the homepage loading progress. Wait for the homepage to fully load.		The homepage loads without any visible errors or issues.	 
4	Check for any visible errors, broken images, or missing elements.		User can see that all images and elements on the homepage are displayed correctly.	 
5	Record the time taken for the homepage to load		The loading time is within an acceptable timeframe (within 5 seconds).	