MANUAL TESTING PROJECT

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INTRODUCTION

Domain name:Instagram

Module name :Home Page

Test Scenarios:1.Profile

2.Search

3.New Post

4.Notifications

This Project contains the details and documentation of testing provided for the module -Home page of Instagram.

- ***REQUIREMENT PHASE***

1.The Home page should support variety of contents like photos ,stories and reels and can easily be switched between them.

2.The user should be able to see their profile and edit it when the profile button is clicked.

3.The search option should provide categories like audio, reels, posts.

4.Notifications should be notified and displayed.

5.It should be easy to use and navigate.

- ***DESIGN PHASE***

1.We will use a clean and aesthetically pleasing user interface and icons which are easy to understand for the users .

2.Notification option displays notification for likes,comments and new followers.

3.Showcase user profile picture on the bottom of the page which will lead to the profile page of the user whre we can see our own posts and edit the profile.

4.Implement a search feature to search users and content.

5.Showcase a icon to add post directly from home page.

- **_DEVELOPMENT PHASE_**

1.Agile develpoment methodology was used used as it allows

.Iterative development

.Flexibility

.Collaboration

.Customer feedback

2. Reviewed the requirements clearly.

3.Set up version control.

4.Set up environment and tools.

5.Integrated front end and backend development

6.The output Built was ready.

- ***TESTING PHASE***

  According to STLC, the outline of testing phase includes:

- Requirement and analysis
- Test plan
- Test case development
- Test environmental setup
- Test execution
- Test closure

- *REQUIREMENT AND ANALYSIS*

1.We gathered the functional and non functional requirements for testing.

2.We decided to focus on the functionalities ,prioritized based on user impact and criticality.

3.We decided to mainly focus on the functionalities on the homepage such as:

.Profile

.Search

.New post

.Notifications

4.Test strategies and tools were decided with the team.

- ***TEST PLAN***

Each member of the team were given roles and responsibilities regarding testing.

MEMBERS	ROLES
Team Manager	Monitors and contact team lead Test strategies Level of testing Approval of test plan
Team Lead	Test plan creation Work distribution technically leads team
Test Engineer	Create test scenarios Design,creation of test cases Defect report Tracking defect till closure
Automotive Architecture	Plans for test automation
Automation Engineer	Script and creation for automation Maintaining scripts for chnges

- ***TEST CASE DEVELOPMENT***

Test cases were created for the scenarios as profile,search,new post and notifications functionalities.

The designing techniques applied for developing test cases are

* Equivalence Partitioning

*Boundary Value Analysis

*Error guessing

*State Transition Testing

*Usability Testing

- ***TEST ENVIRONMENT SETUP***

We tested it on different environments, both with mobile devices and web browsers.It was tested on Android and IOS and also browsers like Chrome

- Firefox
- safari
- Edge

thus it is supported on

- Windows
- MacOS
- Linux
- ChromeOS

- ***TEST EXECUTION***

Test cases were executed.

Test case for profile functionality:

Test case ID	TEST Case Objective	Pre-requisite	Steps and Data	Expected Result	Actual result	Status
TC_M1_01	To check the access of profile from the home page leads to correct user and profile	1.Instagram should be opened. 2.User should be signed and logged in.	1.Click on the profile button on the home page	It will lead to the user's profile .	It led to the user's profile page	Pass
TC_M1_02	To check the changes made in profile are saved and updated properly.	1.Instagram should be opened. 2.User should be signed and logged in.	1.Click on profile button. 2.click on edit profile . 3.Change bio	The new bio should be changed and updated	The bio is changed and updated successfully.	Pass
TC_M1_03	To check the profile photo can be updated or not.	1.Instagram should be opened. 2.User should be signed and	1.Click on profile button. 2.click on edit profile . 3.Click on new profile. 4.Select new photo to be	The profile photo should be updated	New profile photo updated.	Pass

Test case for Serach functionality:

Test case ID	Test case objective	Pre requisite	Step and Data	Expected result	Actual Result	Status
TC_M1_01	To verify searching for a user name displays accurate results.	1.Instagram should be opened 2.User should be singed up logged in.	1.Click on search button on home page and serach a correct username.	The username searched should be listed.	The serached username displayed.	Pass
TC_M1_02	To verify searching hashtags displays relevant post tagged in with that.	1.Instagram should be opened 2.User should be singed up logged in.	1.Click on search button on home page and serach hashtags.	The post tagged with that hashtag should appear.	The post tagged with the hashtag appeared.	Pass
TC_M1_03	To verify searching location displays geotapped post from that location.	1.Instagram should be opened 2.User should be singed up logged in.	2.Click on search button on home page and search the location.	The post geotapped with the location should appear	The post geotapped with the location appeared.	Pass

Test case for New Post functionality:

Test case ID	Test case objective	Pre requisite	Step and Data	Expected result	Actual Result	Status
TC_M1_01	To Verify "+" for new post is displayed on home page.	1.Instagram should be opened 2.User should be singed up logged in.	1.Go to home page and check a post can be added.	The"+" icon should be visible and able to add post.	The icon was visible and able to post.	Pass
TC_M1_02	To verify the create options for posts,reels and stories.	1.Instagram should be opened 2.User should be singed up logged in.	1.Go to home page and check a post can be added with different option like posts,reel and stories. 2.select a photo to post.	The photo should be selected to post.	The photo was selected and able to post.	Pass
TC_M1_03	To verify lllltiple photos can be added in a post.	1.Instagram should be opened 2.User should be singed up logged in.	1.Go to home page and check a post can be added with different option like posts,reel and stories. 2.select multiple photos and click	Multiple photos should be posted.	Multiple photos were added as post.	Pass

Test cases for notification functionality:

Test case ID	Test case objective	Pre requisite	Step and Data	Expected result	Actual Result	Status
TC_M1_01	To verify recieving notifications.	1.Instagram should be opened 2.User should be singed up logged in.	1.Check the heart icon on the home page for notifications.	The number of notification should appear under the heart icon.	The number of notification appeared under the heart icon.	Pass
TC_M1_02	To verify tapping on notification opens relevant post with comments or like.	1.Instagram should be opened 2.User should be singed up logged in.	1.Click on notification icon. 2.From the list click on notification.	The page should openwith the relevant post.	The page opened with relevant post.	pass
TC_M1_03	To verify notification not recieved	1.Instagram should be opened 2.User should be singed up logged in.	1.Click on notification if any actionon the post is notified when we like our own post.	User will not be notified.	User was not specified.	Pass

- *TEST CLOSURE*

Sl.no	Test Scenario	Total test cases	Test cases executed	Test case pending
1	Profile	4	4	0
2	Search	4	4	0
3	New Post	4	4	0
4	Notifications	4	4	0

- ***TEST SUMMARY REPORT***

We have also executed testing on the home page module of the Instagram.

State transition testing and usability testing was also conducted.

State transition testing:

State transition testing is a powerful technique used in software testing to ensure the system behaves correctly as it moves between different states. It focuses on verifying the transitions between states and the resulting outputs or side effects.

Usability testing:

To evaluate how easy and user-friendly a product, like a website or app, is for real users to navigate and interact with. It focuses on measuring effectiveness, efficiency, and user satisfaction with the interface and functionalities.

Basic levels of testing

- Unit testing:focusing on testing individual units of code, typically functions or small modules, in isolation. Its aim is to verify that each unit performs its intended behavior correctly and independently of other parts of the system.

- Integration Testing:focuses on verifying how these units interact and collaborate with each other to form a larger system or feature.

- System Testing:aims to evaluate whether the system meets its overall requirements and delivers the desired functionality and performance under realistic conditions.

- User Acceptance Testing:a real-world trial run conducted by the intended users themselves, allowing them to assess whether the system meets their needs and expectations.

- ***DEPLOYMENT***

Now the product is ready to go live.

Transitioning a software system from a development environment to a production environment where it is accessible to its intended users. It involves moving code, configurations, and assets from a controlled and often isolated environment to a live, publicly accessible setting.

- # *MAINTENANCE*

The maintenance phase is a crucial stage, following deployment and preceding the eventual retirement of the software. It focuses on keeping the software functional, secure, and aligned with user needs throughout its lifespan.

THANK YOU