iMentor test plan

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Introduction

The purpose of this test plan is to ensure that the web application functions as intended for guest users, students, and mentors, and meets all functional and non-functional requirements.

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Objectives:

- Identify main functionalities
- Verify if functionalities are working as expected
- Verify the integration of the different parts of iMentor

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Risks

- Basic knowledge about API Testing
- Lack of user stories
- Expected results based on tester experience
- Changes in the test environment
- Short time

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Prioritization criteria

FREQUENCY OF USE	Most used features	website usage data	Login - Logout - Chat
IMPORTANCE	In terms of its impact on user satisfaction	Acceptance	Roles - Functions by roles
RISK	Impact that error would have on the user	Error handling	Negative testing

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Test Environment

The objective is to test the compatibility of the web on the most used browsers such as:



Operating systems:

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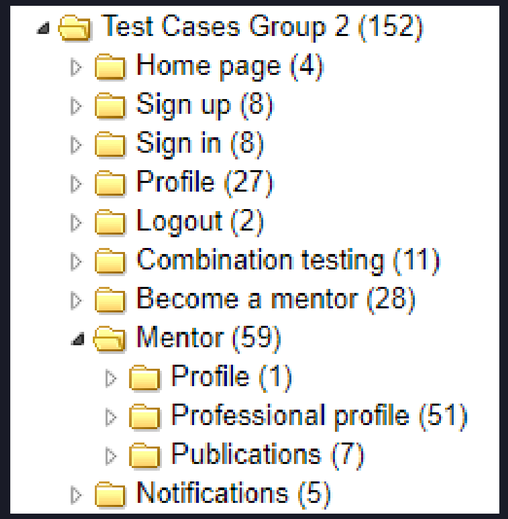
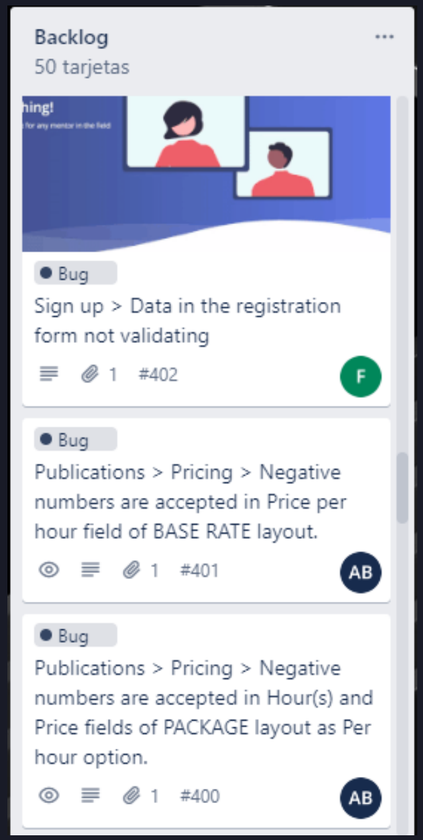
Tools

Test Case Management

TestLink



Bug Tracking



Trello

Jira

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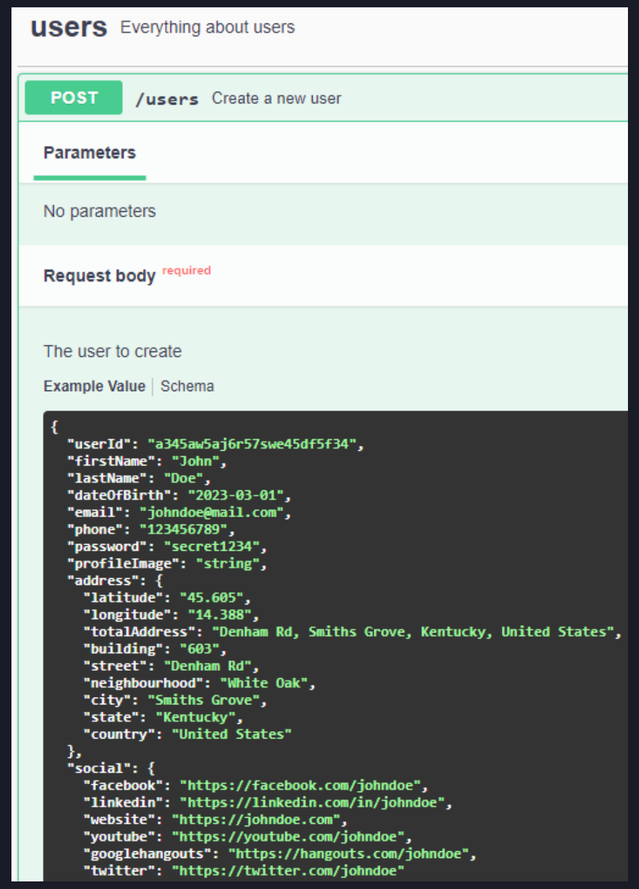
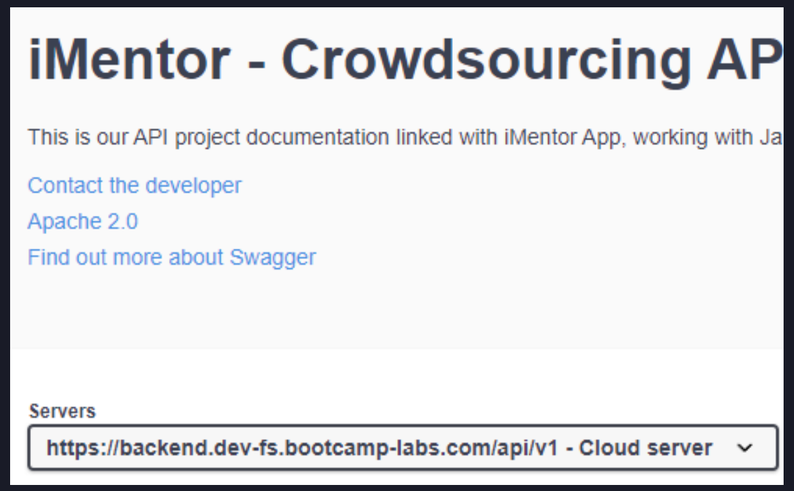
Tools

API TESTING

POSTMAN

Swagger™
Supported by SMARTBEAR

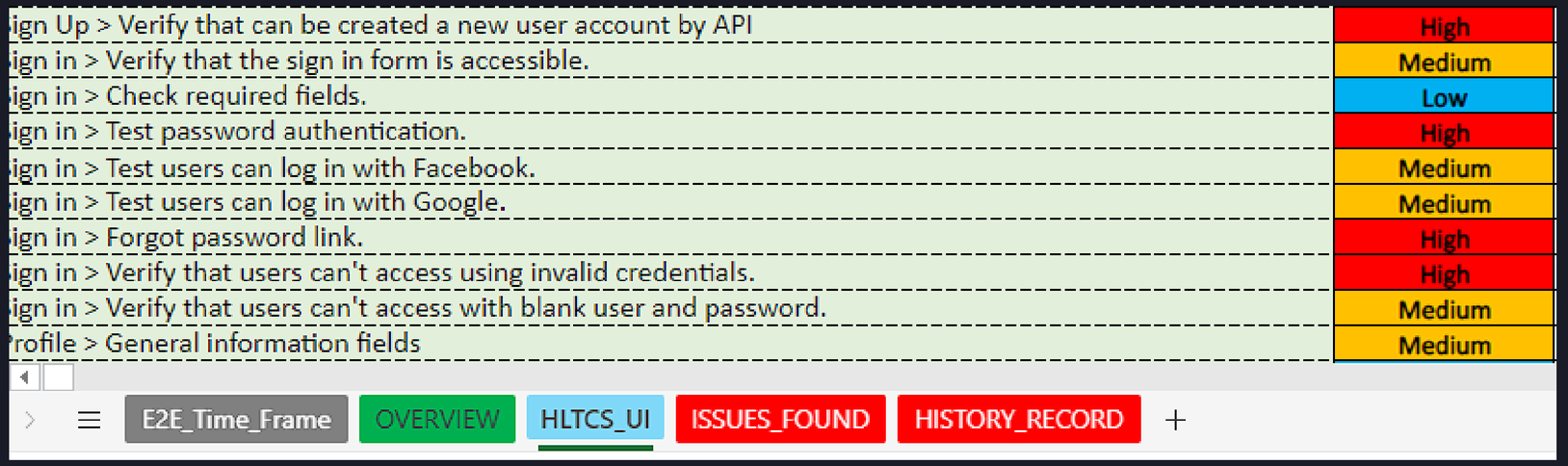




QA - DEV COMMUNICATION

Tools

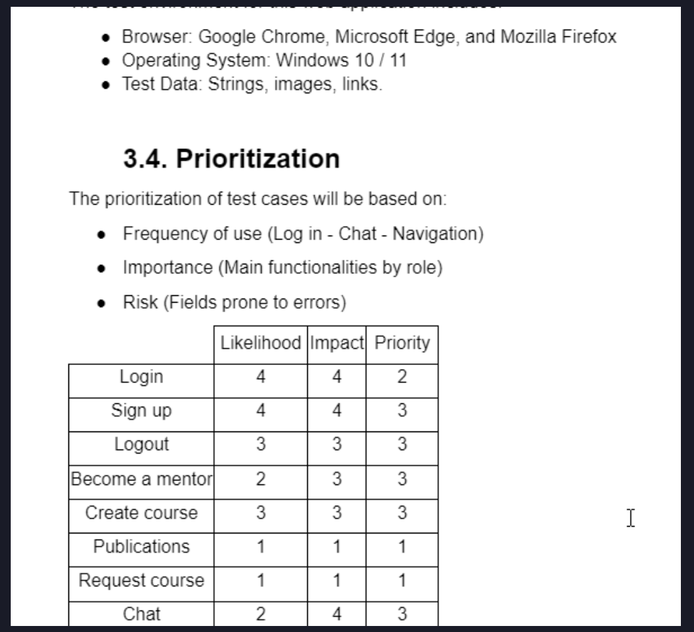
Test Case / Bug report Tracking



ign Up > Verify that can be created a new user account by API	High
ign in > Verify that the sign in form is accessible.	Medium
ign in > Check required fields.	Low
ign in > Test password authentication.	High
ign in > Test users can log in with Facebook.	Medium
ign in > Test users can log in with Google.	Medium
ign in > Forgot password link.	High
ign in > Verify that users can't access using invalid credentials.	High
ign in > Verify that users can't access with blank user and password.	Medium
rofile > General information fields	Medium

E2E_Time_Frame | OVERVIEW | HLTCS_UI | ISSUES_FOUND | HISTORY_RECORD | +

Test plan



- Browser: Google Chrome, Microsoft Edge, and Mozilla Firefox
- Operating System: Windows 10 / 11
- Test Data: Strings, images, links.

3.4. Prioritization

The prioritization of test cases will be based on:

- Frequency of use (Log in - Chat - Navigation)
- Importance (Main functionalities by role)
- Risk (Fields prone to errors)

	Likelihood	Impact	Priority
Login	4	4	2
Sign up	4	4	3
Logout	3	3	3
Become a mentor	2	3	3
Create course	3	3	3
Publications	1	1	1
Request course	1	1	1
Chat	2	4	3

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Approach

- Exploration-based approach: Knowledge of the software under tests for the creation of test cases
- Risk-based approach : Test case priorization

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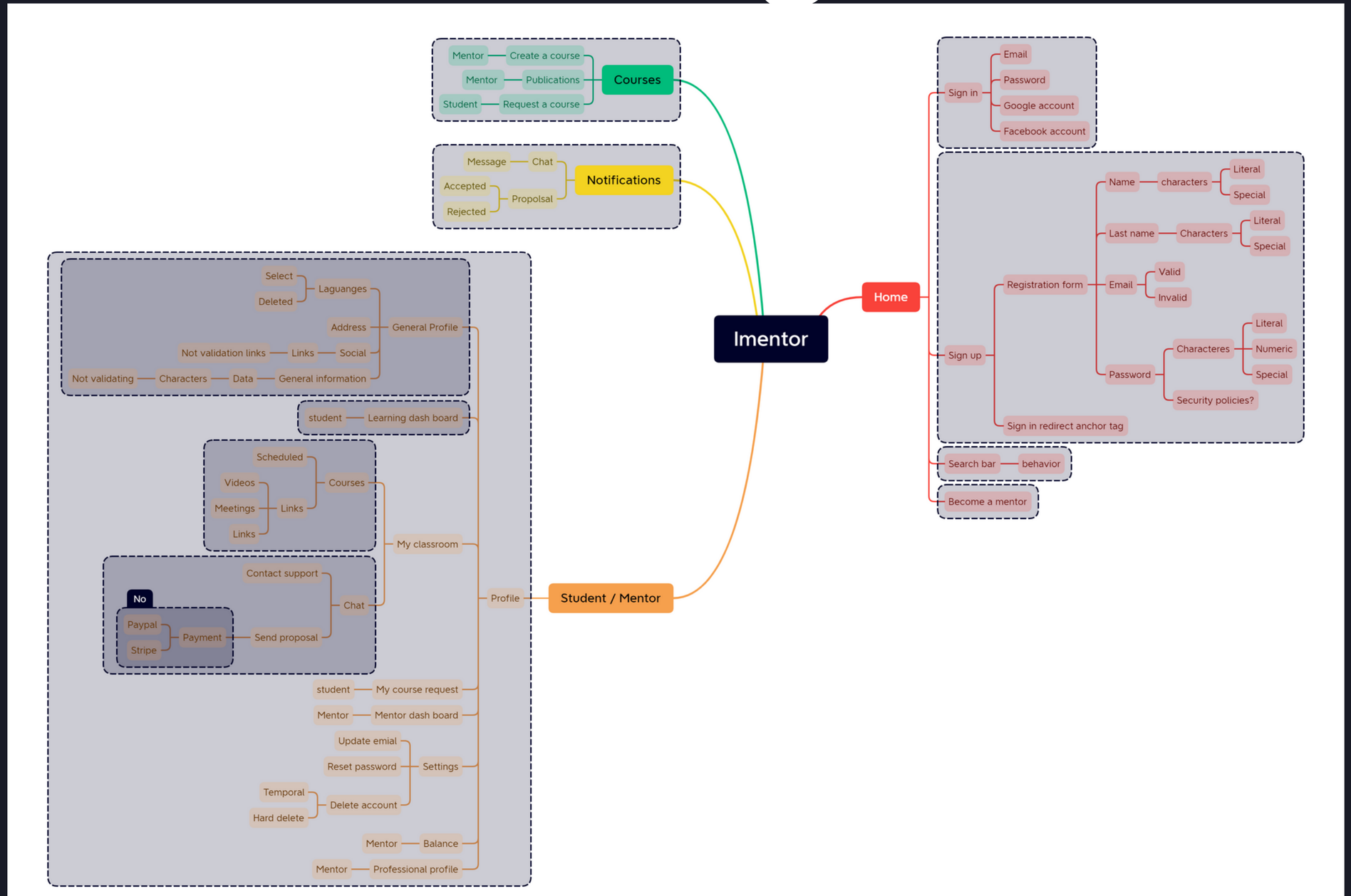
Effort estimation

Tasks	Time	Resources
Test cases creation	18 Hours	2 testers
Execution 1	16 Hours	2 testers
Execution 2	18 Hours	2 testers
Execution 3	2 hours 28 mins	2 testers
Requirements review	8 Hours	2 testers
Report issues	17 Hours	2 testers

Coverage


Imentor
Courses
Mentor
Create a course
Mentor
Publications
Student
Request a course
Notifications
Message
Chat
Accepted
Rejected
Propolsal
Student / Mentor
Profile
General Profile
Select
Deleted
Laguanges
Address
Not validation links
Links
Social
Not validating
Characters
Data
General information
student
Learning dash board
My classroom
Scheduled
Videos
Meetings
Links
Courses
Links
Contact support
Chat
No
Paypal
Stripe
Payment
Send proposal
student
My course request
Mentor
Mentor dash board
Settings
Update emial
Reset password
Delete account
Temporal
Hard delete
Mentor
Balance
Mentor
Professional profile
Home
Sign in
Email
Password
Google account
Facebook account
Sign up
Registration form
Name
characters
Literal
Special
Last name
Characters
Literal
Special
Email
Valid
Invalid
Password
Characteres
Literal
Numeric
Special
Security policies?
Sign in redirect anchor tag
Search bar
behavior
Become a mentor

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Test strategy

Functional Testing

- Test all links and buttons to ensure they function as intended.
- Test form validation to ensure all required fields are validated.
- Test error handling to ensure errors are displayed correctly.

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Domain testing:

- **Data on fields**
- **Boundary values**

Combination testing:

- **Navigation flow per roles**
- **Permissions and functions to each role**
- **Methods API**

User Interface Testing

- **Test the web application on different browsers to ensure the user interface is consistent.**

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Security Testing

- Test the web application for common security vulnerabilities such as cross-site scripting attacks and url manipulation.
- Test that the password cannot be copied and pasted to get the characters used

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Exploratory Testing

- Learn more about the software under test
- Identify workflows and navigability
- Know the expected behavior of the main functionalities
- General view of the application to be able to analyze the coverage that is planned to be carried out with the test cases

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Test cases

150 TC
execution: 98 %
92% Passed
5% Failed
2% Not executed
1% Under review
31 Smoke TC

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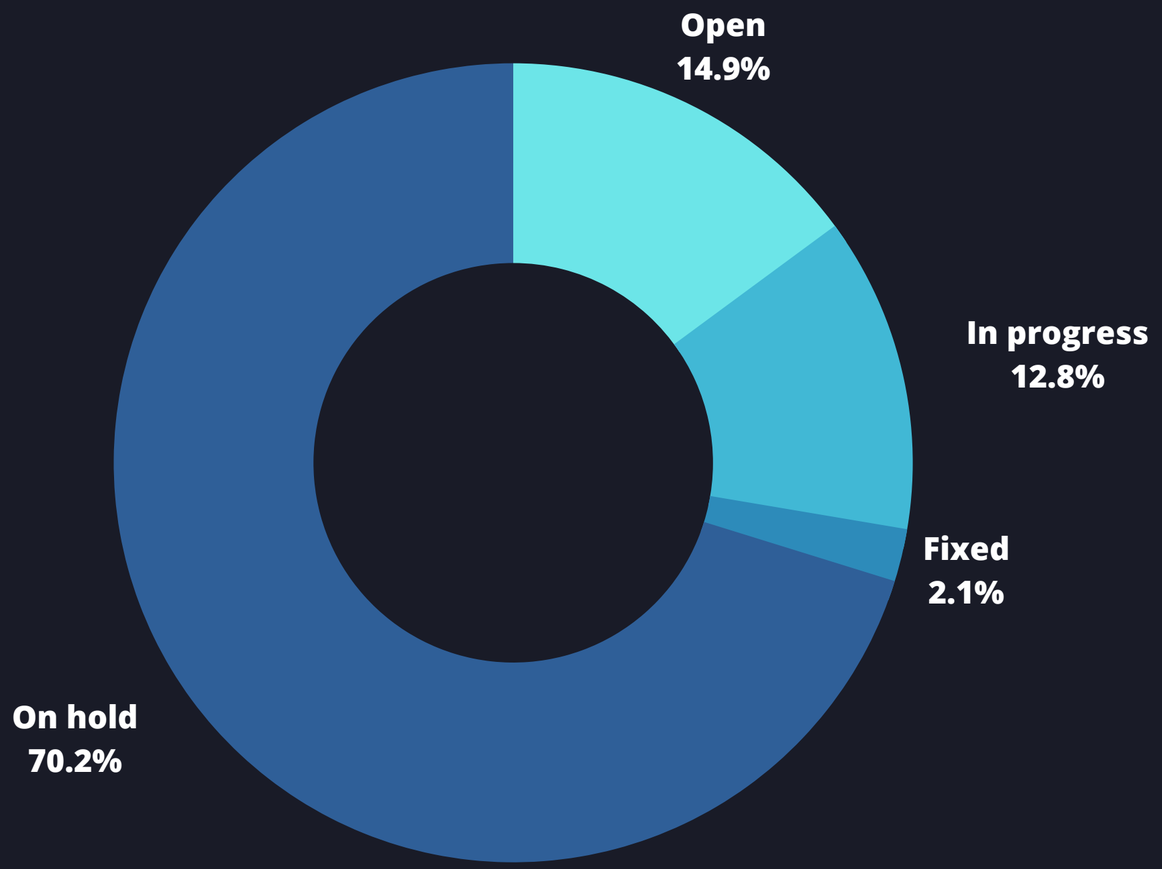
Bug Reports

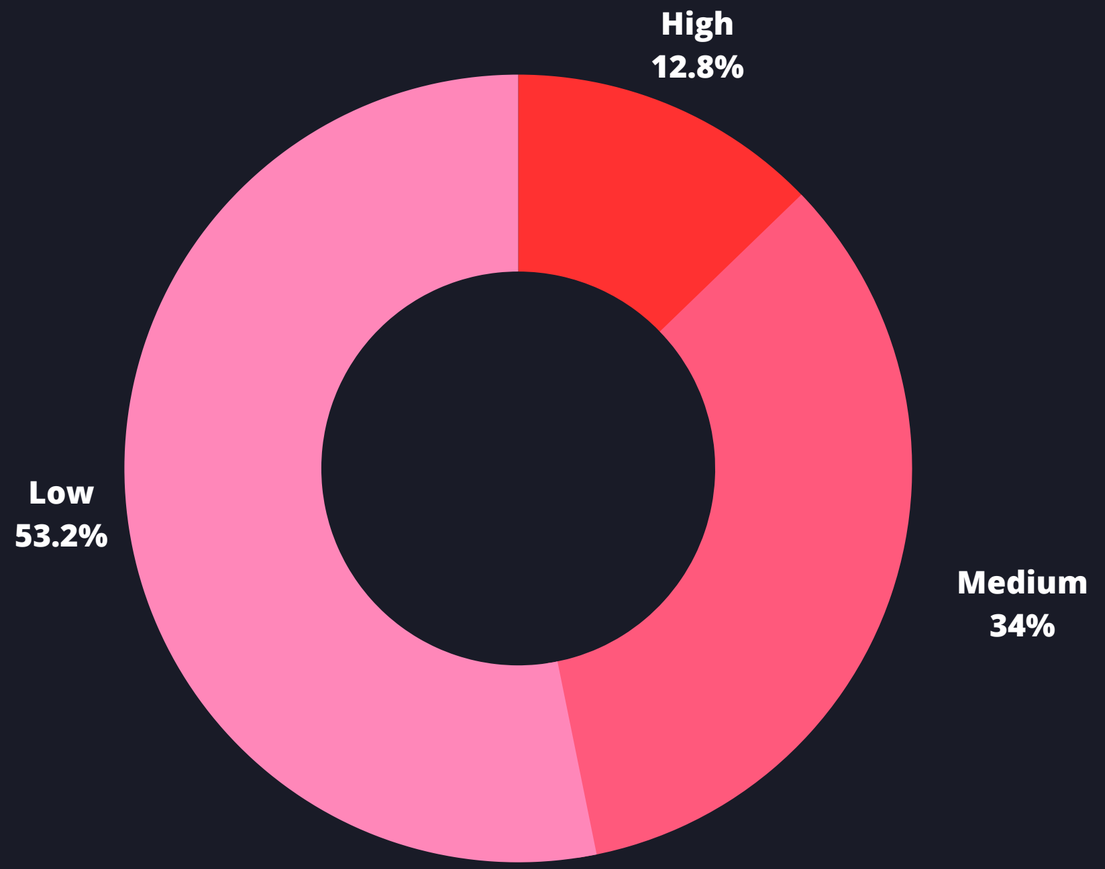
Total Bugs reported: 47

Open: 7
Fixed: 1
In progress: 6
On hold : 33



Severity

High: 6
Medium: 16
Low: 25



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Conclusion

During our testing we were able to identify each functionality and how it should work.
Also taking advantage of the constant use of iMentor we were able to analyze certain improvements that could help improve factors such as user experience and user acceptance, improvements such as:

- **Functionality to visualize all courses**
- **Search courses based on the category**
- **Delete chats**
- **Update languages**