Test Report of FineAnnotator

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Introduction

FineAnnotator is a dynamic platform connecting researchers, companies, and students for flexible, part-time data annotation tasks. The purpose of this test report is to provide a detailed overview of the testing activities conducted on the FineAnnotator platform, including test scope, test execution details, identified defects, and recommendations for improvement.

Testing Objectives

1. Validate the functionality of the FineAnnotator platform.
2. Ensure a user-friendly and intuitive user interface.
3. Verify the accuracy and completeness of data annotation tasks.
4. Assess performance, security, and compatibility aspects.
5. Gather user feedback through User Acceptance Testing (UAT).

Testing Scope

- Core functionalities: Job posting, task selection, communication.
- User roles: Researchers, Companies, Students.
- Data annotation tasks.
- Performance, security, and compatibility aspects.
- User Acceptance Testing (UAT).

Testing Process

Requirement Analysis

- Reviewed and analysed software requirements to gain a thorough understanding of expected behaviour.

Test Planning

- Developed a comprehensive test plan, including scope, objectives, resources, and schedule.

Test Case Design

- Created detailed test cases covering core functionalities, user roles, data annotation tasks, and other relevant scenarios.

Testing Execution

a. Functional Testing

- Verified job posting, task selection, and communication features.
    - **Test Case 1: Job Posting by Researchers and Companies**
        - **Steps:**
            1. Log in as a Researcher.
            2. Navigate to the job posting section.
            3. Create a new job post with all required details.
            4. Repeat the process for a Company user.
        - **Expected Result:** Job posts are successfully created.
    - **Test Case 2: Task Selection by Students**
        - **Steps:**
            1. Log in as a Student.
            2. Explore available data annotation tasks.
            3. Select a task and verify task details.
        - **Expected Result:** Students can successfully browse and select tasks.
    - **Test Case 3: Communication between Users**
        - **Steps:**
            1. Verify that Researchers can communicate job details to Students.
            2. Confirm that Students can seek clarification from Researchers or Companies.
        - **Expected Result:** Effective communication between all user roles.

b. Usability Testing

- Evaluated the user interface for intuitiveness and ease of use.
    - **Test Case 4: User Interface Evaluation**
        - **Steps:**
            1. Navigate through different sections of the platform.
            2. Verify that navigation is straightforward and user-friendly.
            3. Assess the clarity of instructions and labels.

        - **Expected Result:** The user interface is intuitive and user-friendly.
    - **Test Case 5: User Registration and Login**
        - **Steps:**
            1. Register a new user account.
            2. Verify successful account creation.
            3. Log in with the newly created account.
        - **Expected Result:** Smooth user registration and login process.

c. Data Annotation Testing

- Tested the core functionality of data annotation tasks.
    - **Test Case 6: Task Understanding by Students**
        - **Steps:**
            1. Assign a data annotation task to a Student.
            2. Verify that the Student understands task requirements.
            3. Review annotated data for accuracy.
        - **Expected Result:** Students understand and accurately complete tasks.
    - **Test Case 7: Accuracy of Data Annotation Submission**
        - **Steps:**
            1. Have a Student annotate data.
            2. Confirm that the annotated data is saved correctly.
            3. Verify submission functionality.
        - **Expected Result:** Annotated data is accurately recorded and submitted.

d. Performance Testing

- Assessed system performance under varying loads.
    - **Test Case 8: Load Testing**
        - **Steps:**

1. Simulate a scenario with a large number of simultaneous users.
2. Monitor response times and system behaviour.
3. Evaluate system stability under high load.

- **Expected Result:** System performs well under varying loads.

e. Security Testing:

- Identified and addressed potential security risks.
  - **Test Case 9: User Authentication**
    - **Steps:**
      1. Attempt to log in with incorrect credentials.
      2. Confirm that the system denies unauthorised access.
      3. Log in with correct credentials.
    - **Expected Result:** Secure user authentication.
  - **Test Case 10: Data Protection**
    - **Steps:**
      1. Verify that data is encrypted during transmission.
      2. Check data storage mechanisms for security.
    - **Expected Result:** Sensitive data is protected.

f. User Acceptance Testing (UAT)

- Gathered user feedback to assess overall user satisfaction and alignment with expectations.
  - **Test Case 11: UAT Feedback Collection**
    - **Steps:**
      1. Involve actual users (Researchers, Companies, Students) in testing.
      2. Collect feedback on user experience, satisfaction, and any areas of improvement.
    - **Expected Result:** Insights into user satisfaction and identification of potential improvements.

Defect Reporting and Resolution

- Reported identified defects to the development team.
- Collaborated to address and resolve reported issues.

Regression Testing

- Conducted regression testing after each code change to ensure new features or bug fixes did not introduce new issues.

Documentation

- Maintained comprehensive documentation, including test plans, test cases, and testing results.

Testing Results

General Feedback

Participants were given access to a demo project on FineAnnotator and asked to perform specific tasks. A structured questionnaire collected both quantitative and qualitative data. The questionnaire focused on navigation, user experience, satisfaction and suggestions for improvement. We conducted the acceptance test with 22 participants. Table 1 and Figure 1 shows the participant information.

Participant Role	Count
Student	14
Researcher	8

Table 1: Participant information

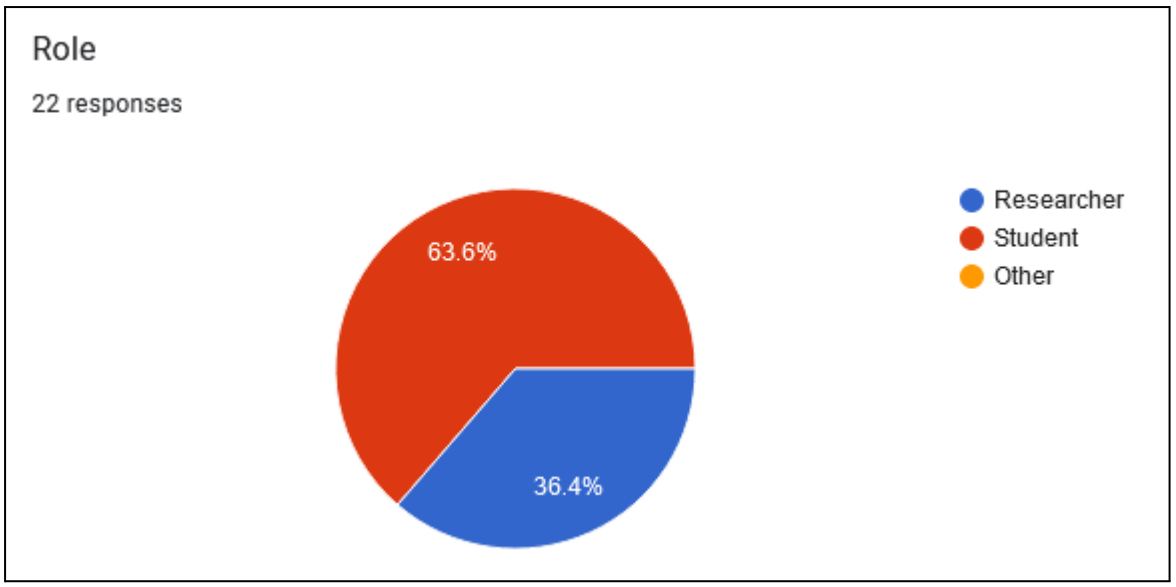

Figure 1: Number of participants

User-Friendliness

20 participants found it user-friendly, 2 participants reported challenges. Figure 3 shows the percentage of the responses.

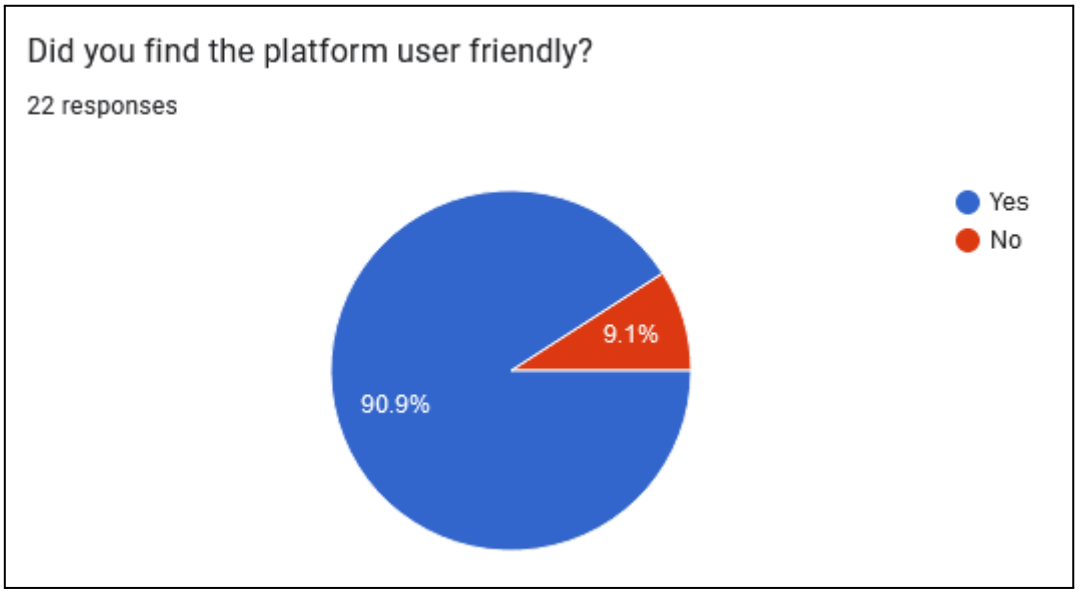

Figure 2: User-friendliness feedback

Ease of Use

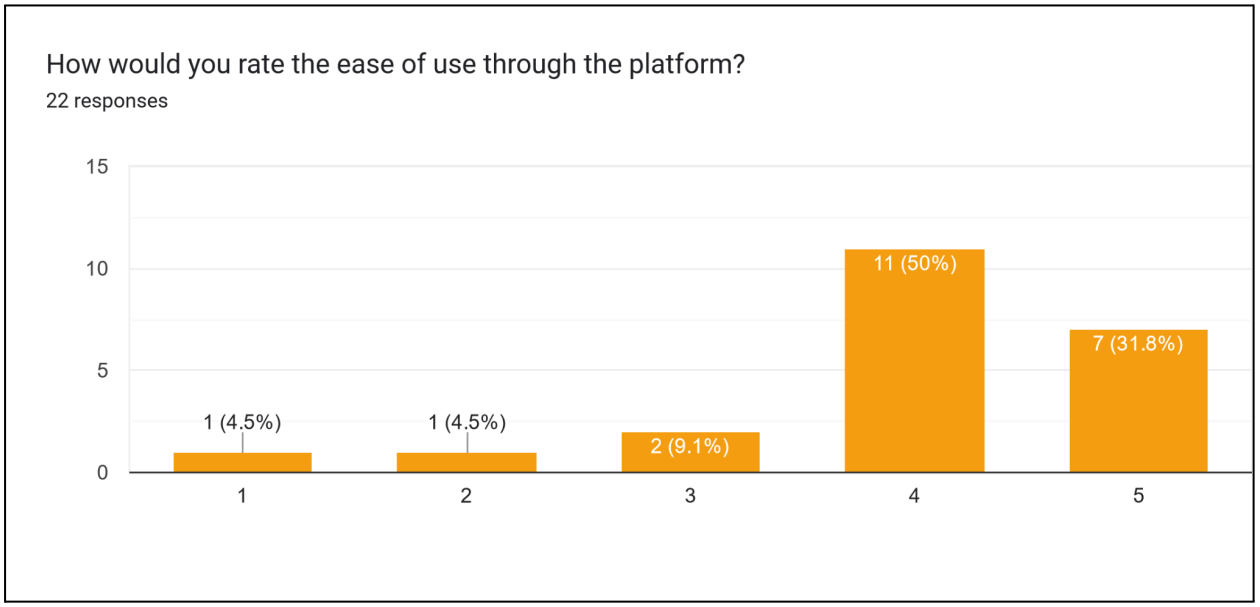

Figure 3: Ease of use ratings

Intuitiveness

18 out 22 participants found the platform intuitive.

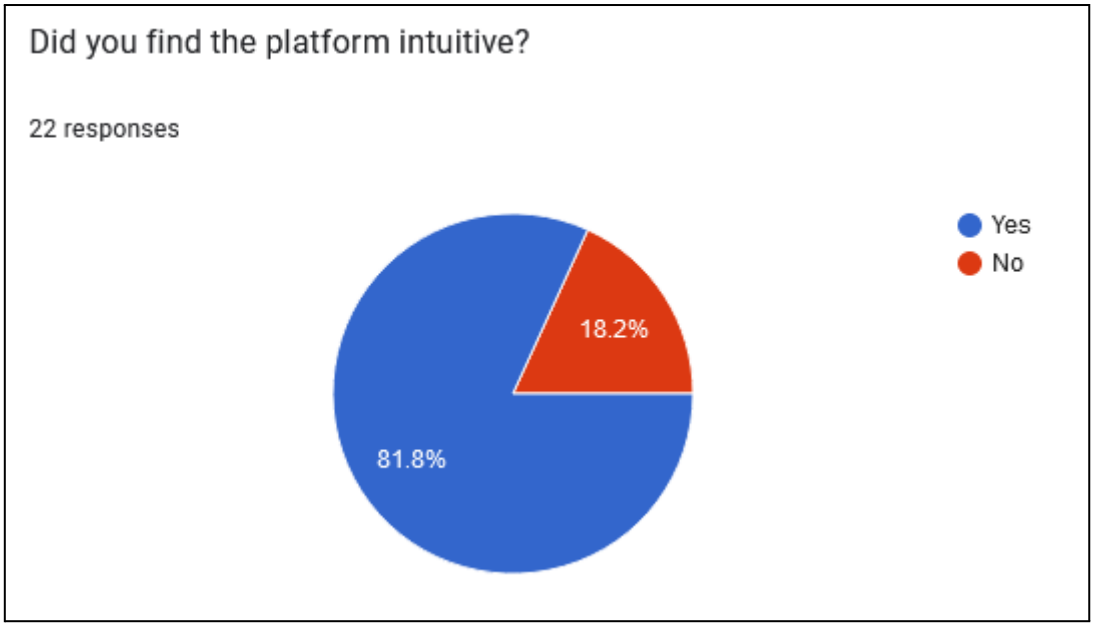

Figure 4: Intuitiveness Feedback

Overall Experience

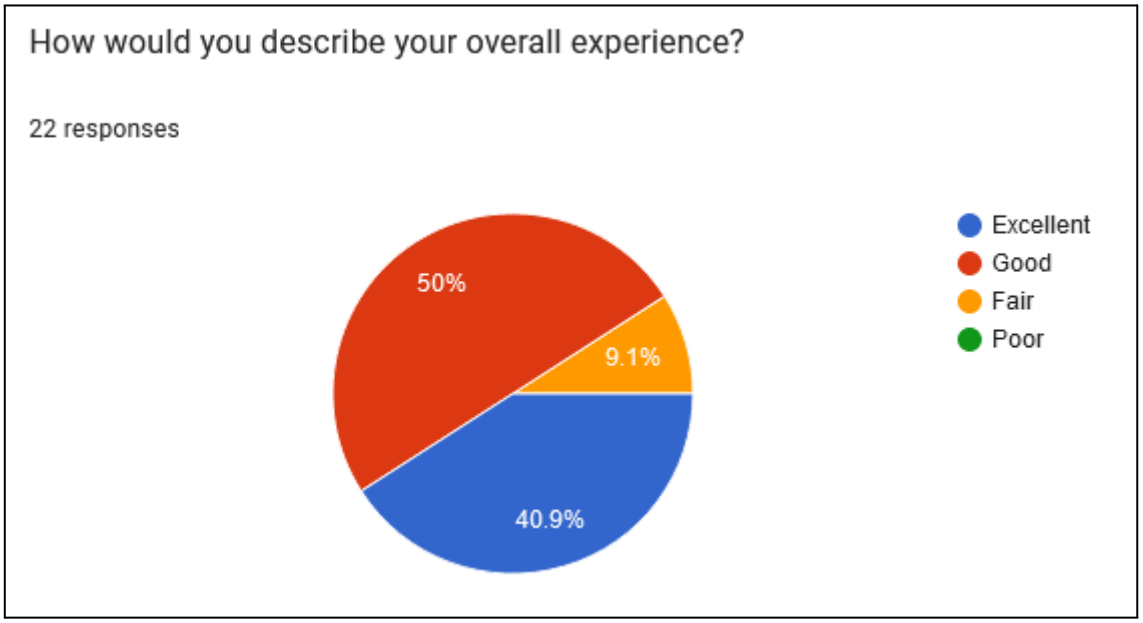

Figure 5: Overall User Experience Ratings

Feature Testing Feedback

Authentication System

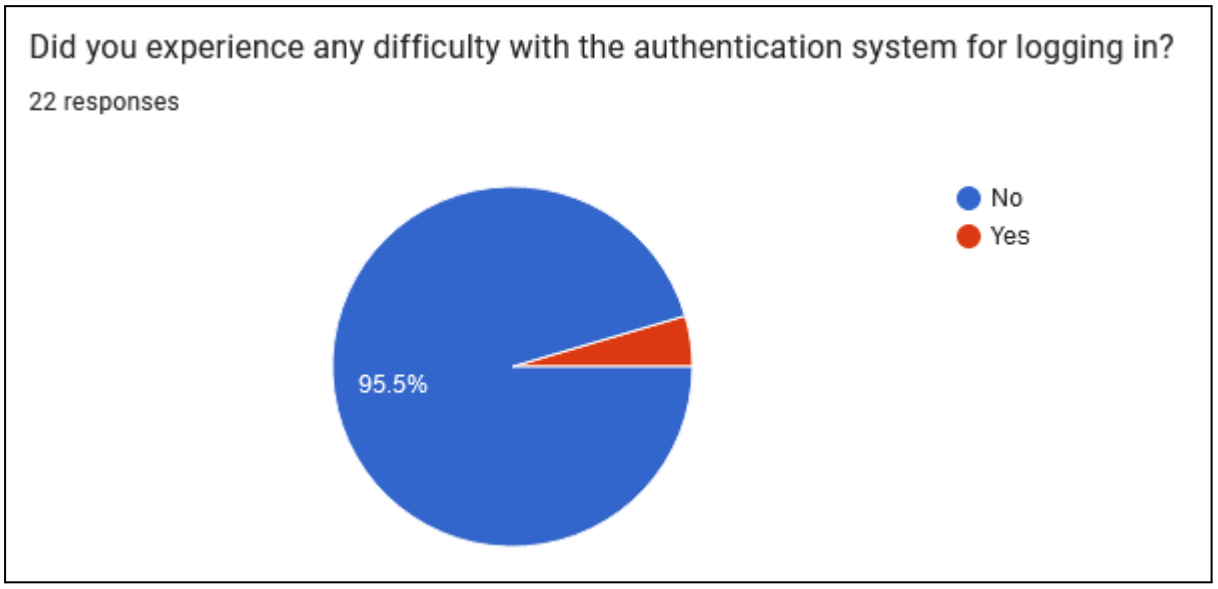

Figure 6: User Experience with FineAnnotator Authentication System

Search Bar

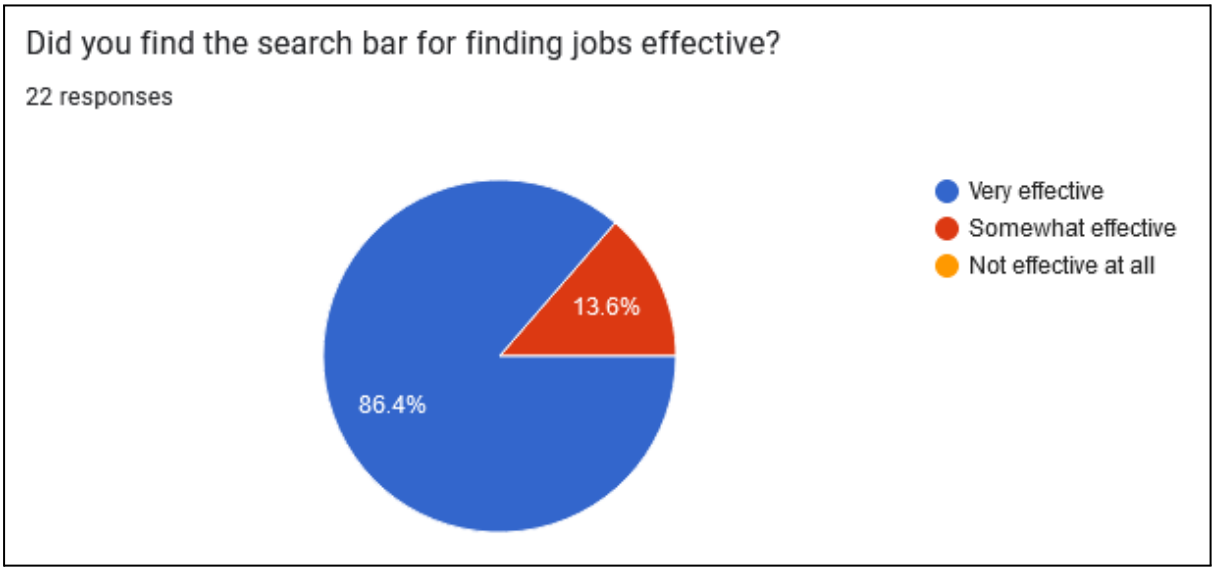

Figure 7: Effectiveness of Search Bar

Job Posts

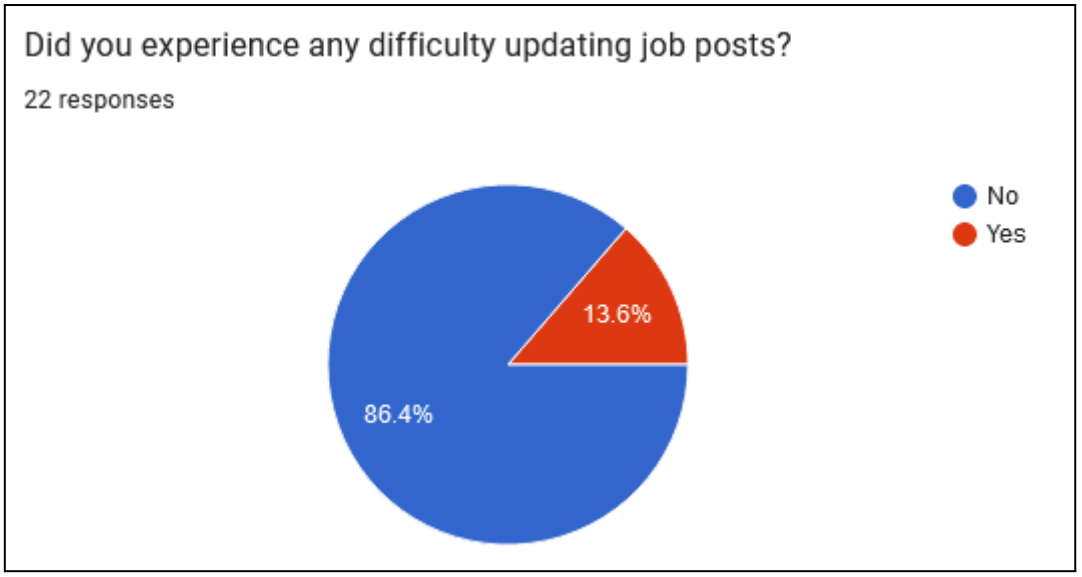

Figure 8: User Experience with Updating Job Posts

Payment System

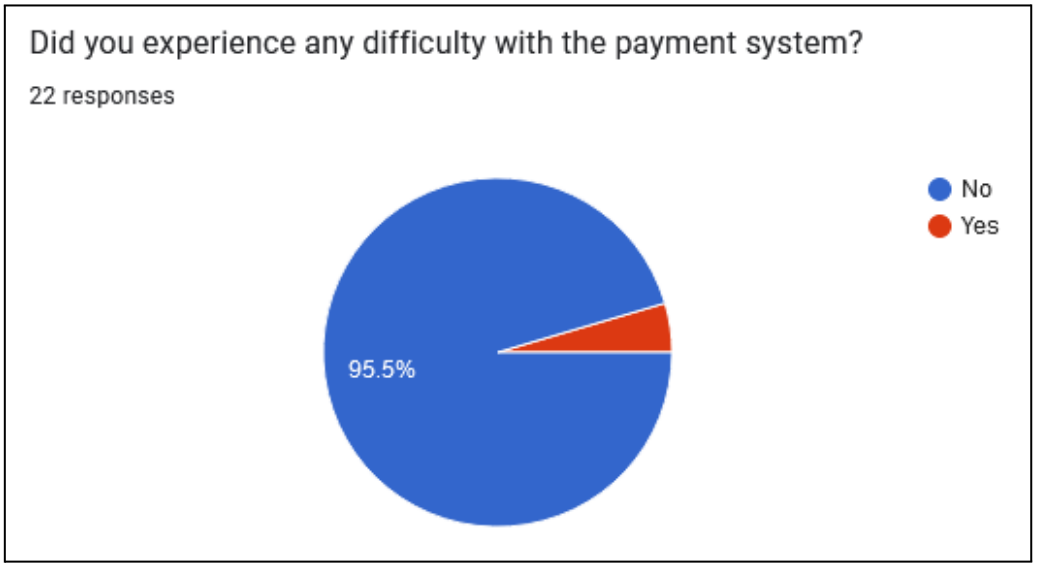

Figure 9: User Experience with Payment System

Benefits of the Platform

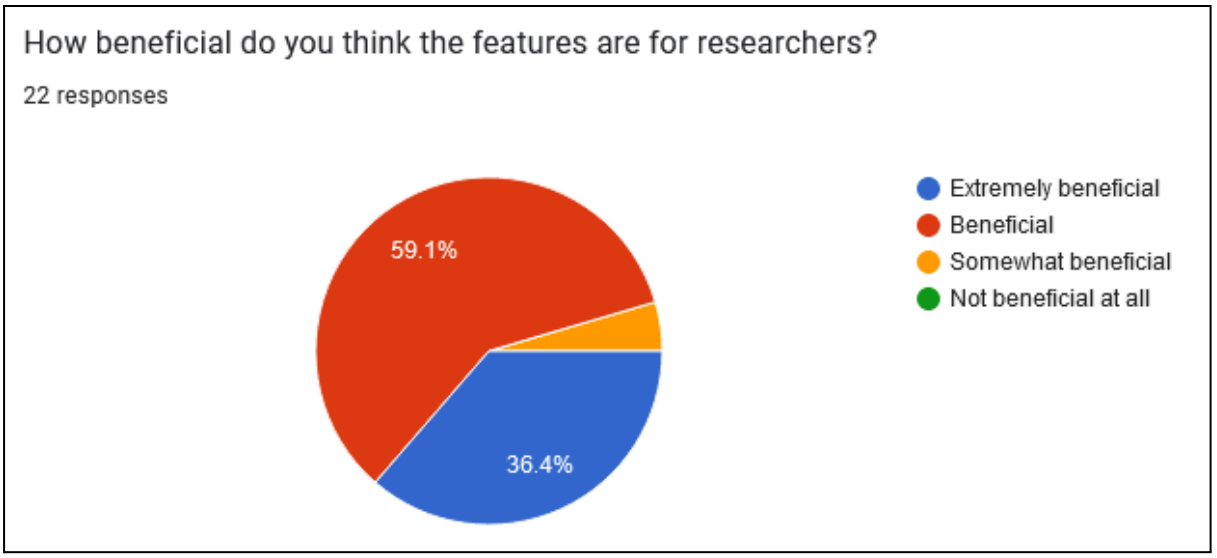

Figure 10: Beneficial Ratings for Researchers

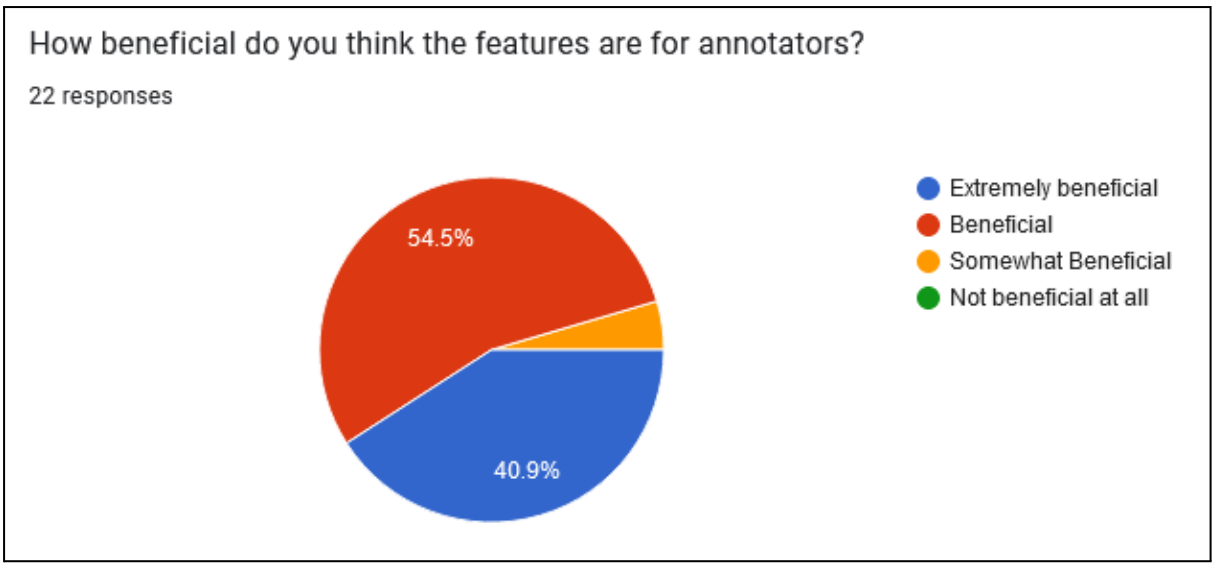

Figure 11: Beneficial Ratings for Annotators

Usability and Performance Testing

Meeting Expectations

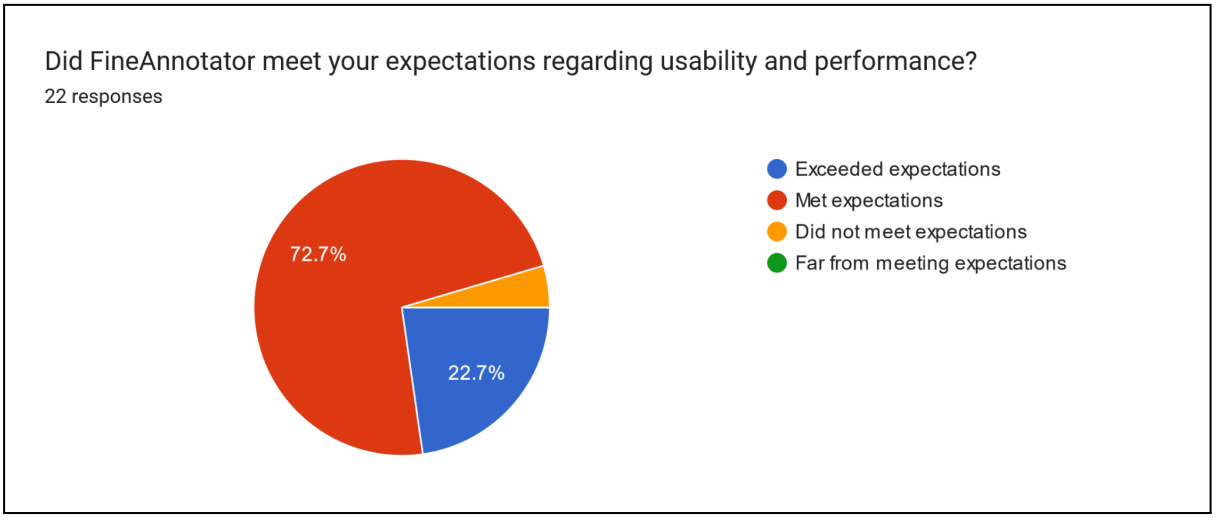

Figure 12: Meeting Usability Expectations

Overall Performance

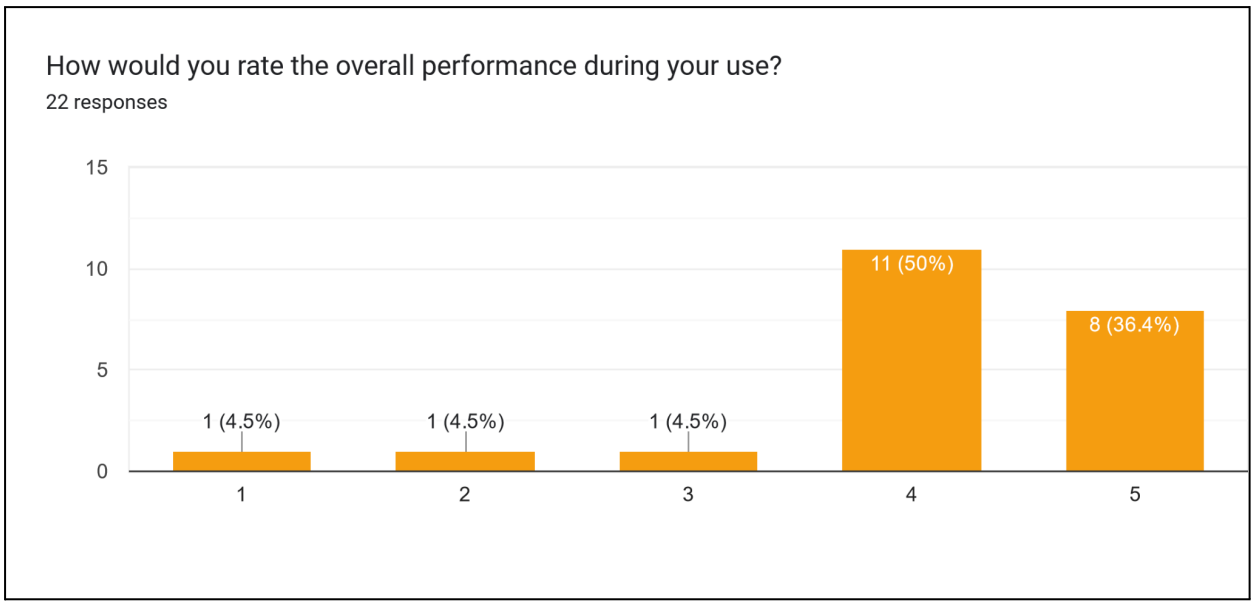

Figure 13: Overall Performance Ratings

Performance Issues

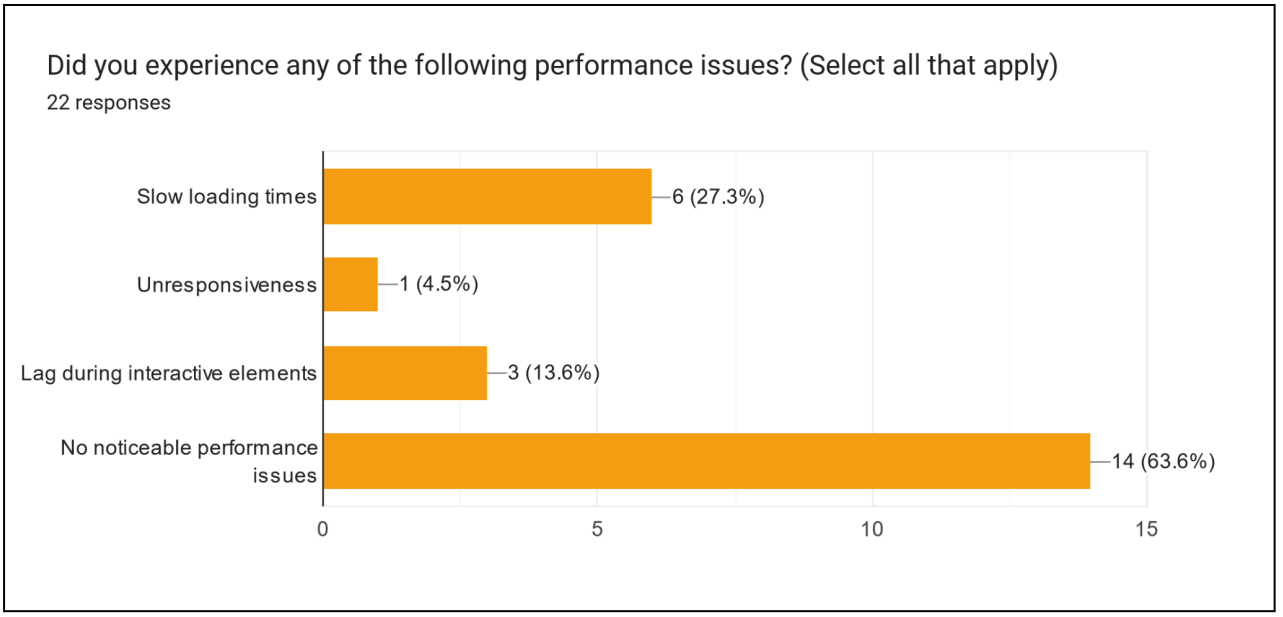

Figure 14: Performance Issues

Summary

- Overall, FineAnnotator demonstrated robust functionality with minimal defects.
- Users found the platform user-friendly and intuitive.
- Data annotation tasks were successfully completed with high accuracy.

Key Findings

Authentication:

- Smooth authentication process for the majority.
- Very few participants encountered difficulties, suggesting areas for onboarding improvement.

High User Satisfaction:

- Participants expressed overall satisfaction with the FineAnnotator platform, highlighting its user-friendly interface and intuitive navigation.

Navigation and Clarity:

- The navigation within FineAnnotator received positive feedback, with users finding it straightforward and easy to use.
- Demonstrations were generally clear, contributing to a seamless user experience during task execution.

Usability and Performance:

- FineAnnotator met or exceeded expectations for the majority of participants.
- Generally positive performance ratings, with some identified performance issues, such as unresponsiveness and lag during interactive elements.

Overall User Experience:

- Positive overall user experience, meeting or exceeding expectations for a significant majority of participants.
- Acknowledged user-friendly nature and effective features.

Recommendations

Some user comments in Table 2 for finding recommendations.

No.	Comment
1	If loading time could be improved, it would be great.
2	None

No.	Comment
3	It is very good app
4	No
5	Make it go boom boom
6	Add a report feature where users can report fake jobs.
7	The system provided ease of use for both annotators and researchers.
8	No, it’s already good enough.
9	Need much improvement
10	It is pretty good
11	Need more features
12	No
13	Not any
14	Need to improve interface and performance
15	Looking forward to more features
16	beneficial platform
17	Nice app
18	Good app
19	Best
20	No Comment

No.	Comment
21	None

Table 2: Real User Comments

Conclusion

- The FineAnnotator testing process was thorough and effective.
- The platform is ready for release based on the successful completion of testing objectives.

Next Steps

- Address any outstanding defects.
- Implement recommendations for continuous improvement.
- Plan for future testing phases as needed.