

# **FineAnnotator**

## **Business Requirement Specification (BRS)**

**Version: 1.0**

### **Collaborators**

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# 1. Introduction

FineAnnotator is a web-based platform designed to bridge the gap between researchers/companies seeking data annotation services and students looking for flexible part-time work.

## 2. Business Objectives and Goals

**For researchers and companies:**

- Simplify and streamline the process of finding and hiring qualified data annotators.
- Access a large and diverse pool of potential annotators.
- Ensure high-quality data annotation by setting specific requirements and reviewing annotator profiles.
- Streamline payment processing through the platform.

**For students:**

- Find flexible and rewarding part-time work opportunities.
- Utilize their skills and knowledge to contribute to real-world research and projects.
- Build their profiles and CVs with relevant experience and feedback.

**For FineAnnotator:**

- Become the leading platform for connecting researchers/companies and data annotators.
- Generate revenue through a fee-based system for researchers/companies.
- Foster a vibrant community of researchers, companies, and students.

## 3. Target Users and Needs

### 3.1 Researchers/Companies:

- Need large amounts of high-quality annotated data for various purposes, such as machine learning, deep learning, and natural language processing.
- Require efficient ways to find, hire, and manage annotators.
- Need to ensure data security and privacy.

### **3.2 Students/Annotators:**

- Seek flexible part-time work opportunities to earn income.
- Want to utilize their skills and knowledge in a practical setting.
- Desire to build their resumes and gain valuable experience.

## **4. High-Level Functionalities and Features**

### **4.1 For Researchers and Companies:**

- Post data annotation jobs with detailed descriptions, requirements, and payment information.
- Search for and filter annotators based on skills, experience, and other criteria.
- Review annotator profiles and select the best candidates.
- Communicate directly with annotators through the platform.
- Track the progress of annotation tasks and receive updates.
- Manage payments securely through the platform.
- Rate and provide feedback to annotators.

### **4.2 For Students:**

- Create and manage profiles with relevant skills, experience, and educational background.
- Search for available data annotation jobs based on various criteria.
- Apply for jobs and submit proposals.
- Communicate with researchers and companies through the platform.
- Access and complete assigned annotation tasks.
- Receive payments and view earnings history.
- Rate and receive feedback from researchers and companies.

### **4.3 For Admins:**

- Monitor platform activity and user interactions.
- Approve or reject user accounts.
- Investigate and resolve disputes between researchers/companies and annotators.
- Manage platform settings and configurations.
- Generate reports and analyze platform performance.
- Address user feedback and suggestions.

## 5. System Model

### 5.1 Use-Case Diagram

There are different types of system models to present software. We have built a use-case diagram for our project. Below is a use-case diagram for our software, FineAnnotator. Here, you can see the user and their actions given altogether.

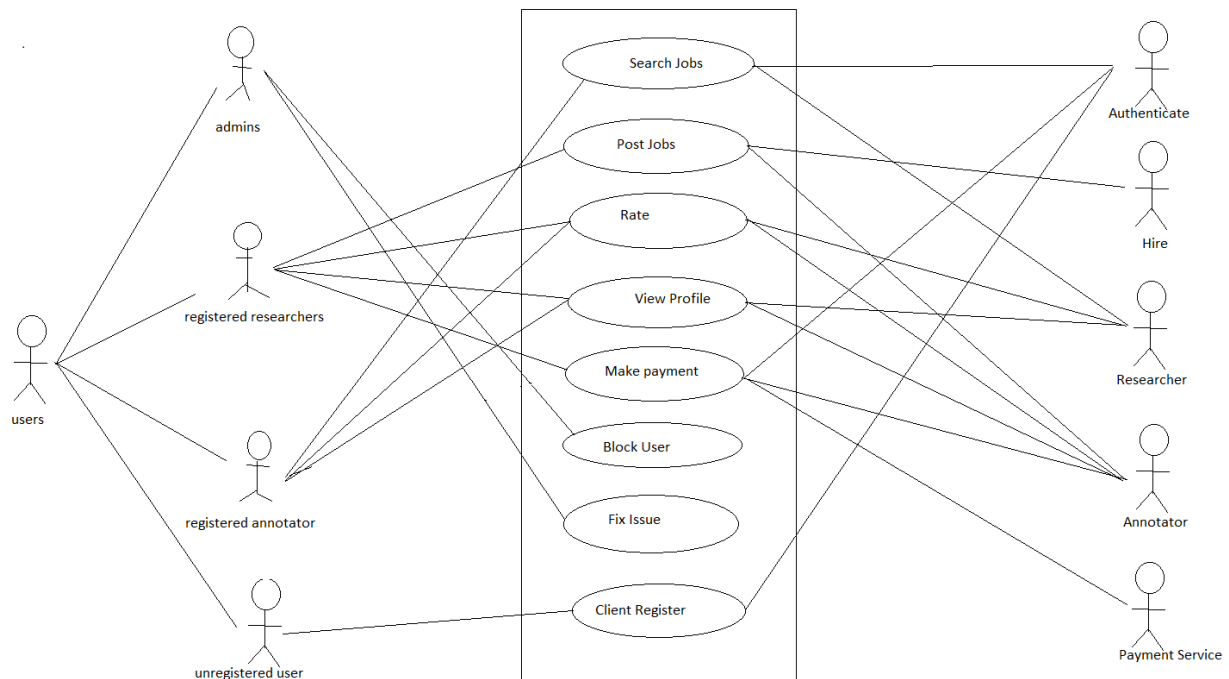


Figure: Use-Case Diagram for FineAnnotator

## 6. Functional and Non-Functional Requirements

FineAnnotator provides a lot of features as mentioned earlier. Below is given requirements for different type of features. Every feature or characteristic's requirements are divided into two main requirement categories.

### 1. Job Posting and Task Management: Functional:

- Allow Researchers/Companies to create profiles and post annotation tasks categorized by data types.
- Enable specifying task details, requirements for annotators, payment structure, and deadlines.

**Non-Functional:**

- Accessibility: Ensure easy navigation and usability for posting tasks.
- Accuracy: Validate and ensure the accuracy of task details entered by Researchers/Companies.

## **2. Annotator Application and Profile Building:**

**Functional:**

- Allow Annotators to create detailed profiles showcasing qualifications, skills, and experience.
- Provide a straightforward process for Annotators to apply for listed jobs and specify preferences.

**Non-Functional:**

- User-Friendliness: Ensure an intuitive interface for profile creation and job application.
- Performance: Ensure quick loading times for profile creation and job application sections.

## **3. Communication and Collaboration:**

**Functional:**

- Implement a messaging system for interaction between Researchers/Companies and Annotators.
- Include a feedback and rating system for performance evaluation.

**Non-Functional:**

- Security: Ensure encryption and secure data transmission in the messaging system.
- Responsiveness: Ensure real-time or prompt notifications for messages and feedback.

## **4. Payment Handling and Security:**

**Functional:**

- Develop a secure platform for financial transactions and dispute resolution.

**Non-Functional:**

- Security: Implement robust security measures to protect financial data and prevent fraud.
- Reliability: Ensure reliability in payment processing and transaction records.

**5. Administrative Controls and Oversight:****Functional:**

- Provide administrators with tools for monitoring, account management, and dispute resolution.

**Non-Functional:**

- Scalability: Ensure admin tools can handle increased usage and data processing as the platform grows.
- Accessibility: Ensure admin features are accessible and usable across devices and browsers.

**6. User Experience and Interface:****Functional:**

- Design an intuitive and easy-to-navigate platform for all user types.

**Non-Functional:**

- Usability: Ensure a consistent and user-friendly interface across different sections.
- Privacy: Provide robust privacy controls to protect user data and preferences.

**7. Scalability and Future Enhancements:****Functional:**

- Design a scalable platform to accommodate growth in user base and tasks.

**Non-Functional:**

- Flexibility: Ensure flexibility in the architecture for incorporating future updates and enhancements.

**8. Legal and Compliance Considerations:****Functional:**

- Ensure adherence to data privacy laws and regulations.

**Non-Functional:**

- Compliance: Maintain legal compliance by regularly updating the platform based on evolving regulations.

## **7. Budget and Financial Constraints**

### **7.1. Project Budget:**

**Development Costs:**

- Software Development: Estimate costs related to hiring developers, designers, and testers.
- Tools and Technologies: Budget for purchasing software licenses, development tools, frameworks, or third-party APIs.

**Infrastructure Costs:**

- Hosting and Server Expenses: Estimate expenses for cloud services, server rentals, or hosting platforms.
- Database Costs: Budget for database setup, maintenance, and any associated licensing fees.

**Personnel and Operational Costs:**

- Personnel Expenses: Include salaries, benefits, or contractor fees for project management and administrative tasks.
- Training and Onboarding: Budget for training sessions or workshops for the development team.

### **7.2. Financial Constraints:**

**Budget Limitations:**

- Maximum Budget Allocation: Specify the maximum budget available for the project.
- Cost Control Measures: Define strategies or limitations to ensure the project remains within the allocated budget.

**Resource Limitations:**

- Staffing Constraints: If there's a limit on the number of developers or resources available for the project.
- Technology Budget Restrictions: Constraints on the usage of specific tools or technologies due to budget limitations.

**Time Constraints:**

- Time-to-Market Pressure: Describe any urgency to launch the software within a specific timeframe, potentially affecting budget allocation.
- Deadline Sensitivity: Budget constraints due to fixed deadlines requiring adherence.

**Risk Management:**

- Contingency Plan: Include provisions for unexpected expenses or risks that might affect the project budget.
- Risk Mitigation Strategy: Outline strategies to address potential budget risks or overruns.

**Cost-Benefit Analysis:**

- Expected ROI: Evaluate the potential return on investment (ROI) or benefits expected from the project against the allocated budget.
- Value Proposition: Explain the value the software will bring to justify the budget and financial resources invested.

## **8. System Interfaces and Integrations**

There some other systems that can be needed to be integrated into our system. As our system includes payments, we have to integrate a payment system into it. Like that, there are some other integrations that we could do. Such as:

- Payment gateway integration for secure and efficient payment processing.
- Cloud storage integration for storing and managing large amounts of data.
- Data annotation tools integration for streamlined and efficient annotation tasks.
- Social media integrations for user authentication and sharing information.

## **9. Software Limitations**



Every software comes with some limitations. Our software also has some limitations. Below are some limitations of FineAnnotator.

- Security and privacy of user data and information.
- Scalability of the platform to accommodate a large number of users and data.
- Quality assurance of data annotations.
- Compliance with relevant data privacy regulations.

## **10. Conclusion**

FineAnnotator has the potential to revolutionize the way data annotation is done by enabling efficient collaboration between researchers/companies and students. By focusing on user needs and delivering a robust and feature-rich platform, FineAnnotator can achieve its business objectives and become a leading player in the data annotation industry.