### **Academic Paper Selling Platform**

# **Project Overview**

The objective of this project is to develop an online website platform where users can buy and sell academic papers. The platform will allow **sellers** to upload academic documents in PDF format and set a price, while **buyers** can browse, preview, purchase, and download papers. Additionally, **administrators** will oversee transactions, user activities, and overall platform activities.

# **Target Users**

- Buyers: Students, researchers, and professionals looking for academic content.
- **Sellers**: Academics, students, or professionals who want to monetize their research papers.
- Admin: Platform moderators ensuring smooth transactions and compliance.

# **Key Features**

### For Buyers

- 1. Browse available academic papers.
- 2. Search for specific papers using keywords and filters.
- 3. Preview a portion of the paper before purchasing.
- 4. Add papers to a cart and proceed to checkout.
- 5. Secure payment via PayPal, Visa, or Stripe.
- 6. Download purchased papers immediately.
- 7. View purchase history.
- 8. Save favorite papers to a wishlist.
- 9. Rate and review papers.
- 10. Manage account settings.

#### For Sellers

- 1. Register and verify identity before selling.
- 2. Upload academic papers in **PDF format**.
- 3. Set a price for uploaded papers.
- 4. Provide a description and relevant metadata.
- 5. Edit or remove their uploaded papers.
- Track sales history and earnings.
- 7. Receive payments for sales.

- 8. Withdraw funds via PayPal or Bank Transfer.
- 9. Get notified of purchases.
- 10. Manage account details.

#### **For Admins**

- 1. Manage buyer and seller accounts.
- 2. Verify and approve seller registrations.
- 3. Approve or reject uploaded papers based on quality guidelines.
- 4. Monitor all transactions and sales reports.
- Handle refund requests.
- 6. Moderate ratings and reviews.
- 7. Suspend or ban users violating platform policies.
- 8. Manage payment integration and security.
- 9. Generate analytics and sales reports.
- 10. Respond to user support requests.

# **Technology Stack**

- Backend: Django Rest Framework (DRF) for handling authentication, user management, and transactions.
- **Frontend**: Vue.js for an interactive and responsive user interface.
- **Database**: PostgreSQL a scalable and secure relational database.
- File Storage: AWS S3 or Diango Storage for securely hosting academic papers.
- Payment Integration: PayPal, Stripe, and Visa for secure transactions.
- **Deployment**: Docker, Nginx, and AWS/GCP for cloud hosting.

# **Scalability Considerations**

- Database Optimization: PostgreSQL with indexing and caching strategies for fast queries.
- File Handling: Offloading PDFs to a cloud storage solution to reduce server load.
- **Microservices Architecture**: Future-proofing the backend by separating critical services.
- Load Balancing: Distributing user requests across multiple servers for better performance.
- Security: Implementing OAuth2 authentication, data encryption, and fraud detection.

### **Next Steps & Deliverables**

• Phase 1: Define project requirements and user flow.

- **Phase 2**: Develop and test core features (user authentication, uploads, payments, and downloads).
- Phase 3: Implement additional features (wishlist, reviews, admin dashboard).
- Phase 4: Test for security, performance, and scalability.
- Phase 5: Deploy and monitor live performance.

### Conclusion

This platform will offer an efficient and secure marketplace for academic content. By leveraging **Django Rest Framework** and **Vue.js**, it ensures both flexibility and scalability. With **secure payments**, **cloud storage**, **and a structured admin panel**, the platform will be optimized for long-term growth and user trust.