

Feasibility Study

Technical likelihood of success

- The web application will be user-friendly and responsive by using current web development technologies and tools. Users will be able to easily find the books they are looking for and also have good recommendations based on their previous purchases. Users will be able to easily list their books and manage them while they are up.
- The web application will have robust security measures to protect the users' data, transactions, and any other sensitive information. This will include preventing unauthorized access to user accounts and also the web application as a whole.
- The web application will be robust enough to allow a large quantity of user traffic at once. This will ensure two or more users are able to purchase items at the same time, list items at the same time, etc. Along with allowing it to happen, the web application will need to update correctly to reflect the changes made properly.
- Integration of payment gateways, user authentication, and potentially third-party APIs.
- Need to ensure that the application can be used across multiple browsers, devices, and operating systems so that a variety of users have access to using it.

Legal Likelihood of Success

- The web application will ensure that book listings and content uploaded by users do not violate copyright laws and implement procedures to handle claims of copyright infringement promptly.
- The web application will ensure that trademarks are not used without proper authorization. The application's name, logo, and branding do not infringe on existing trademarks.
- The web application will comply with data protection regulations by implementing robust data protection practices and will obtain user consent for data collection and storage.
- Comply with consumer protection laws such as return policies, refund procedures, and accurate product descriptions.
- When agreements or contracts are required, the web application will legally recognize electronic signatures.
- The web application will avoid discriminatory practices and comply with the ADA laws.

Financial Likelihood

- Ensure that the initial development costs, including all aspects of the web application designs, programming, security implementation, and testing are properly assessed. Make sure that the website is an accurate and fair amount to where both parties are willing to agree.

- Estimate potential revenue sources, which will include book sales, advertising, and potentially premium memberships. Make sure that the revenue will pay off the website and make the client a source of revenue.
- Correctly analyze the ongoing expenses such as server hosting, maintenance, and customer support.
- Calculate the Return on Investment based on the projected revenue and estimated costs over a specified time frame.

Time feasibility

- The project will be divided into phases: requirements gathering, design, development, testing, deployment, and post-production monitoring
- The different phases will have time estimates that will be determined based on the complexity of the features and potential challenges.
- A project management tool will be used to track progress and manage these timelines effectively.
- Identify and communicate potential challenges or risks that could cause delays and develop contingency plans for this to ensure time constraints are respected.
- Discuss a buffer time to allocate for unexpected delays, technical issues, or additional feature requests.
- Create a realistic timeline, so that development is of quality, but also so the client does not become impatient

Risks Involved

- If security measures are not adequate data breaches could occur, which would compromise user information and transaction data.
- If the web application isn't user-friendly, then users may find an alternative resulting in low engagement and low revenue.
- If the web application isn't robust enough to handle high user traffic, then it will result in slow performance and possibly even crash the application.
- If users on the web application are not reliable and do not offer fair prices for their products, or have poor customer service, the credibility of the application will decline therefore the number of users may decline as well.
- Ensuring that the web application complies with e-commerce regulations or data protection laws can lead to legal issues after the application is in production.
- Bugs or issues found during the testing stage of the web application could result in pushbacks of the application being pushed to production therefore interfering with the time constraints put on it.
- Lack of compatibility with different operating systems, browsers, or devices.