Requirements Document

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Purpose and Scope:
- Objective:
  - To develop an events website for Prosed Books that allows the owner to create, delete, and update event pages that customers can use to rsvp for those events.
- Scope:
  - In Scope:
    - Events website where customers can see scheduled events and rsvp for them.
    - Ability for customers to create accounts and update their contact information.
    - Ability for an administrator to dynamically create event pages.
  - Out of Scope
    - Inventory and POS systems.
    - Online product ordering.

Stakeholders:
- List of Stakeholders:
  - Internal Stakeholders:
    - Jynastie Wilson, owner
  - External Stakeholders:
    - Prosed Books Customers
- Stakeholder Roles and Responsibilities:
  - *Owner* - Schedule events, order products, run the store, host events, fulfill online orders, connect with other local businesses, manage social media.
  - *Prosed Books Customers* - Sign up for and attend events, buy products on the online store, visit the physical store, engage on social media.

Functional Requirements:
- Detailed Features and Functions:
  - Account registration:
    - Account registration page where customers can create an account and save their contact information.
      - Save name, email, phone number.
      - Create a username.
  - Customer Accounts and Access Control:
    - Create an administrator account that can:
      - Give other accounts administrator status.
      - Reset customer account passwords.
      - Delete Customer accounts.
    - Customer Accounts can update their contact information, change their password, change their username, or delete their account.
  - Event Signup:
    - An aesthetic view of all of the scheduled events
    - A calendar view of all of the events
    - Individual pages for each event accessible from either the calendar or the aesthetic view.
    - Ability for customers to rsvp for events using a name and phone number without logging in.
    - Ability for logged in customers to rsvp for events easily.
      - Contact information from the customer's account is used.
  - Event Administration:
    - An Administrator can create event pages, edit event pages, and delete event pages.
      - An event creation page that has sections for the Event name, date and time, description, cost, location, recommended age
    - On each event page, an administrator can see every customer that has rsvp'd along with their contact information.
  - Event Comment Section:

- Logged in Customers can leave comments on event pages and reply to other customer's comments.
- Administrators can delete individual comments.

Non-Functional Requirements:
- Performance Requirements:
  - Software should be able to load quickly, in less than a minute, and respond to user input nearly instantly.
- Scalability:
  - The system should be able to accommodate a growing number of events and inventory, incrementally increasing ID and sort functionality.
- Security:
  - Data should be encrypted and password protected, only given access to those who need it.
  - Admin level access to make changes to the database should use two-factor authentication.
- Usability:
  - A clear, easy-to-navigate interface with a user-friendly design, unbusy layout with clear labels as to what certain elements are used for.
  - Accessibility for users with disabilities, such as screen readers or an option for increased text size for people with poor vision.
- Reliability:
  - Minimal downtime, maximum of at least an hour, to ensure productivity is not compromised.
  - Cloud Backups are done weekly with a step-by-step recovery protocol to ensure nothing is lost.

Constraints:
- Technical Constraints:
  - Integration with a pre existing site running on Square site.
- Budget and Timeline:
  - Project Budget of $0.
  - Project Deadline of June 14th, 2025.

Assumptions and Dependencies
- Assumptions:
  - Users will have access to the internet and a web browser.
- Dependencies:
  - Reliable internet connection

Data Requirements:
- Input:
  - Event Data (Name, Description, StartDate, EndDate)
- Output:
  - Event Summaries
- Storage:
  - Database to store structured data
  - Cloud storage for backup
  - Regular data backups to the cloud

Interface Requirements
- User Interfaces:
  - Streamlined and easy to navigate web based interface with user-friendly design.
  - Mobile-responsive for use with smartphones and tablets.
- External Systems:
  - Potential integration with social media platforms.
  - Potential integration with Square site.

Risk Analysis
- Potential Risks:
  - Project delays.
  - Potential security risks and vulnerabilities.
- Mitigation Plans:
  - Develop a project plan with achievable timelines.
  - Obtain user feedback and address concerns promptly.
  - Bi-weekly progress updates.
  - Occasional passive updates.

Acceptance Criteria
- Definition of Done:
  - The website is thoroughly tested to ensure there are no major bugs.
  - All functional and non-functional requirements are fulfilled.
  - Website performance meets acceptable standards.
  - Website successfully deployed and handed over to the client.
- Validation and Verification Plans:
  - Unit testing of each component.
  - Conducting system-wide integration tests.
  - Performance and load testing.
  - Security performance testing.