IT-314

SOFTWARE ENGINEERING

Group 10

Lab - 3

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FlipThePage: An eBook library system

Task 2 :

Develop the Product Backlog:
- The product backlog must be written in the form of user stories
    - Consider all the stakeholders
        - Actors
        - Administrator
        - Author
        - Others

Product Backlog with Acceptance Criterias :

1. **User Story:** As a Visitor, I want to search the eBook catalog so that I can explore available books without registration.

    Acceptance Criteria:
    - The eBook catalog is accessible from the homepage without requiring user registration or login.
    - Visitors cannot download or read eBooks without registration.

2. **User Story:** As a Visitor, I want to preview eBooks so that I can get a glimpse of the content before deciding to register or purchase.

    Acceptance Criteria:
    - A preview option should be available for each eBook.

- The preview should only display a portion of the eBook (e.g., first 10 pages).
- The preview should end with a call-to-action encouraging the visitor to register or purchase the full eBook.

3. **User Story:** As a Visitor, I want to filter search results based on book's title, author, editions, publisher and series so that I can easily find relevant eBooks.

    Acceptance Criteria:
    - Visitors can apply multiple filters simultaneously.
    - The filtered results are displayed in a paginated format, with the number of results matching the applied filters.
    - Visitors can easily reset all filters with a single action, returning to the full search results.

4. **User Story:** As a Visitor, I want to register an account so that I can gain access to more features.

    Acceptance Criteria:
    - The registration form requires a unique email and username.
    - The user must agree to the terms and conditions.
    - A confirmation email is sent to verify the account.
    - The user can register through different methods like Google Account, Microsoft Account etc.

5. **User Story:** As an administrator, I want a verification system where the user needs to enter the required information and authorized ID to prove his/her authenticity.

Acceptance Criteria:

- The page should validate the input data in real-time, displaying appropriate error messages for incorrect or incomplete information.
- The system must cross-check the entered authorized IDs with a secure database to ensure they are valid.
- If verification fails, the visitor should receive a clear and informative error message with guidance on the next steps.
- The verification process should be secure, ensuring data privacy and protection against unauthorized access.

6. **User Story:** As a registered user, I want to log in to my account, so that I can access my personalized library and features.

   Acceptance Criteria:
   - The login form requires a valid email/username and password.
   - The password should meet the platform's security requirements minimum length, use of special characters etc.
   - The user is redirected to their dashboard upon successful login.
   - If the credentials are incorrect, an error message is displayed.

7. **User Story:** As a frequent user of the platform, I want the option to enable a feature that can remember me during login, so that I can stay logged in on my device without having to enter my login credentials every time I access the platform.

   Acceptance Criteria:
   - A "Remember Me" checkbox should be available on the login page.
   - If the user selects the "Remember Me" option, their login credentials should be securely stored on their device.
   - The user should remain logged in on the device until they manually log out or clear their browser cookies.

- The stored credentials should be encrypted to protect user data.
- There should be an option for the user to disable the "Remember Me" feature from their account settings.

8. **User Story:** As a registered user, I want to have the option to reset my password if I forget it,so that I can regain access to my account and continue using the platform without interruption.

   Acceptance Criteria:
   - A "Forgot Password" link should be available on the login page.
   - The system must send a password reset link or verification code to the user's registered email address.
   - The password reset link should lead to a secure page where the user can create a new password.
   - After successfully resetting the password, the user should be able to log in with the new credentials.
   - The password reset link should expire after a 10 min to maintain security.

9. **User Story:** As a User, I want to add eBooks to my wishlist so that I can keep track of books I'm interested in.

   Acceptance Criteria:
   - When a user adds an eBook to their wishlist, the system should confirm the action by updating the wishlist.
   - Adding or removing an eBook from the wishlist provides immediate visual feedback.
   - The addition of the eBook to the wishlist should be persistent across sessions.

10. **User Story:** As a User, I want to give feedback on eBooks through comments so that I can share my thoughts with other users.

    Acceptance Criteria:
    - The comment section is available below each eBook.
    - Users can submit text-based comments.
    - Comments should be stored with the user's name and timestamp for administrative purposes.

11. **User Story:** As a User, I want the feature that can keep my identity anonymous to the others in the posted comments so that I can freely express my opinions without revealing my personal information to others.

    Acceptance Criteria:
    - When posting a comment, the user should be able to toggle between posting with their real identity or as anonymous.
    - Anonymous comments should display a generic label (e.g., "Anonymous User") instead of the user's name or profile information.
    - The platform should ensure that no identifying information is attached to anonymous comments.

12. **User Story:** As a User, I want to rate eBooks so that I can help other users choose quality content.

    Acceptance Criteria:
    - A rating system of 1 to 5 stars is available on each eBook's page.
    - The user can submit one rating per eBook.
    - The average rating is displayed based on all user ratings.

13. **User Story:** As a User, I want a reading interface where I can read the book online.

   Acceptance Criteria:
   - The book should be loaded without any errors.
   - If the books are free for all to read, then everyone should be able to access it.
   - If the book is available on rent then the ones who rented the book to read should only get the access during the rent period. After the rental period, they shouldn't be able to access it.
   - If the book is available for purchase then the ones who purchase the book should be able to read anytime he/she wants to.

14. **User Story:** As an administrator, I want an online payment system with possible payment methods on websites so that readers can easily purchase the chargeable books

   Acceptance Criteria:
   - A "Buy" button is available on each eBook's page with the price displayed.
   - The purchase process is completed through a secure payment gateway.
   - Once purchased, the eBook is added to the user's library according to the purchase policies.

15. **User Story:** As a reader, I want to receive a payment receipt and receive an email notification after completing a transaction, so that I have proof of payment for my records and can reference the details of my purchase.

Acceptance Criteria:
- The transaction should be recorded irrespective of failure or success.
- The transaction should include the information of the buyer, their purchases, the payment methods etc.
- A soft copy of the payment receipt should be generated after each successful transaction for the purchaser which can be downloaded.
- The email notification should be sent to the purchaser after each successful transaction.

16. **User Story:** As a reader, I want to maintain a history of all my previous payment receipts, so that I can easily review past transactions and access payment details whenever needed.

   Acceptance Criteria:
   - The payment history should display a list of all previous transactions, including purchase/rental dates, book titles, payment amounts, and transaction IDs.
   - The Payment History should be kept secure, accessible only to the authenticated user.
   - Receipts should be downloadable in a common format (e.x. PDF) for easy storage and printing.

17. **User Story:** As a User, I want to process payments securely so that I can complete transactions without concerns about fraud.

   Acceptance Criteria:
   - The system integrates with secure payment gateways.
   - The transaction should not get corrupted or the payment credentials should be well protected and not exposed.

18. **User Story:** As a User, I want to view my reading history so that I can revisit books I've read before.

    Acceptance Criteria:
    - The reading history is available on the user's dashboard.
    - The reader should be able to continue reading from where he/she left.
    - The user can clear their reading history if desired.

19. **User Story:** As a User, I want to set/update my preferences so that I can find books tailored to my interests.

    Acceptance Criteria:
    - Users can set preferences in their profile based on different criteria.
    - The catalog updates dynamically to display books that match the preferences.
    - User preferences are stored and persist across sessions and devices.

20. **User Story:** As an Administrator, I want to manage the eBook catalog so that I can add or remove content as needed.

    Acceptance Criteria:
    - The administrator has access to add, edit, or delete eBooks.
    - Changes made by the administrator are reflected immediately in the catalog.

21. **User Story:** As an Administrator, I want to manage user accounts so that I can deactivate or ban users who violate policies.

Acceptance Criteria:
- The administrator can view a list of all registered users.
- The administrator can deactivate or ban accounts with a reason specified.
- Deactivated or banned users are unable to log in or access the system.

22. **User Story:** As an Administrator, I want to monitor payment transactions so that I can ensure the integrity of the financial operations.

   Acceptance Criteria:
   - The administrator can view a log of all payment transactions, including amounts and statuses.
   - Failed or suspicious transactions are flagged for review.
   - The system generates daily, weekly, and monthly transaction reports.

23. **User Story:** As an Administrator, I want to create and manage promotions and offers so that users have incentives to use the platform.

   Acceptance Criteria:
   - The administrator can create time-bound promotions and offers.
   - The system automatically applies promotions to eligible purchases.
   - The administrator can monitor the effectiveness of each promotion through analytics.

24. **User Story:** As an administrator, I want to monitor and manage comments posted on the platform so that I can ensure compliance with community guidelines and prevent inappropriate or harmful content from being posted.

   Acceptance Criteria:
   - The administrator should have access to a dashboard that displays all comments posted on the platform in real-time.
   - The administrator should be able to view detailed information about each comment, including the content, author, and the time and date of posting.
   - The administrator should be able to take actions on comments, including deleting or hiding comments from public view.

25. **User Story:** As an Administrator, I want to view reports on user activities and eBook access so that I can make informed decisions on system improvements.

   Acceptance Criteria:
   - The system generates reports on user activities such as login frequency, eBook access, and purchases.
   - Reports are accessible from the administrator dashboard and can be exported in various formats.

26. **User Story:** As an Author, I want to upload my eBooks so that I can make them available to readers.

   Acceptance Criteria:
   - The author has access to a dedicated dashboard for uploading eBooks.

- The upload process requires a certain amount of information to be fulfilled.
- The system verifies the uploaded content before it becomes publicly available.

27. **User Story:** As an author, I want to view feedback and ratings for my eBooks and respond to readers' comments so that I can understand how readers are engaging with my work and address their thoughts and suggestions.

    Acceptance Criteria:
    - The author can view a consolidated list of comments and ratings for each of their eBooks.
    - The system allows the author to respond to comments.

28. **User Story:** As an author, I want to directly engage with readers through Q&A sessions, so that I can connect with my audience and build a community around my work.

    Acceptance Criteria:
    - The author can schedule Q&A sessions within the system.
    - The readers must be informed by notifications to participate in the session.

29. **User Story:** As an author on the platform, I want to receive statements of my payments with detailed information on how the amounts were calculated, so that I can understand the breakdown of my earnings and verify the accuracy of the payments.
    Acceptance Criteria:

- The author should be able to access their payment statements from their account dashboard.
- Each payment statement should include a breakdown of earnings, including the number of books sold or rented, royalty percentages, and any deductions or fees.
- The author should be able to download payment statements in a common format (e.x. PDF) for their records.
- The system should provide statements on a regular basis (e.x. monthly) or after each payment is processed.

30. **User Story:** As an author, I want to track my monthly earnings, so that I can monitor my income over time and assess the performance of my books.

    Acceptance Criteria:
    - The author should be able to access a monthly earnings section within their account dashboard.
    - The earnings data should be broken down by book title, with the number of units sold or rented and the corresponding revenue.
    - The system should include visual charts or graphs to illustrate earnings trends over time.
    - The author should be able to download a report of their monthly earnings in a common format (e.x. PDF, Excel).

31. **User Story:** As an administrator, I want to receive monthly reports detailing the revenue and costs, so that I can monitor the platform's financial performance and make informed business decisions.

    Acceptance Criteria:

- The administrator should be able to access the revenue and cost reports from the admin dashboard.
- The report should be automatically generated and made available at the beginning of each month, covering the previous month's data.
- The report should include detailed breakdowns of total revenue, categorized by different sources
- The report should be available in a downloadable format (e.x. PDF, Excel) for further analysis or record-keeping.

32. **User Story:** As a frequent reader, I want to receive notification on the arrival of new books or any upcoming release of new editions so that I can remain updated.

    Acceptance Criteria:
    - The reader should be able to opt-in to receive notifications about new books and upcoming releases through their account settings.
    - Notifications should include information such as the book title, author, release date, and a brief description.
    - The reader should have the option to customize notifications based on their interests, such as specific genres, authors.
    - The reader should receive notifications promptly, ideally on the day of the book's arrival or announcement.

33. **User Story:** As a user, I want to share eBooks with others via social media, so that I can recommend books to my friends.

    Acceptance Criteria:
    - Users can select from available social media platforms when clicking the "Share" button on an eBook's detail page.

- Shared posts include the eBook's title, author, a brief description, and a link to the eBook's detail page.

34. **User Story:** As an administrator, I want to give the authors a privilege to experience the features of the website free for a month as a free-trial so that they can explore the full capabilities of the platform and potentially engage more deeply with the service.

    Acceptance Criteria:
    - The free trial period should last for one month from the activation date.
    - During the trial period, authors should have access to all or certain premium features and functionalities of the website according to the decided terms.
    - If the author decides not to subscribe or upgrade, their access to premium features should be automatically revoked at the end of the trial period.
    - Administrators should have access to reports showing which authors have utilized the free trial, including start and end dates, and any subsequent subscription conversions.