Software Engineering Project Documentation

Final Evaluation

Topic: NextChapter

Group-10

User Stories and Use Cases

1 User Stories

User Story 1: User Registration

– **Front of the Card:** As a new user, I want to sign up using my email and password, so that I can create an account and access the system.

– **Back of the Card:**

  – User can provide a unique email and password.

  – Password must meet security rules (min length, special characters).

  – Account gets created only if details are valid.

  – Error shown if email already exists.

User Story 2: User Login

– **Front of the Card:** As a registered user, I want to log in securely with my credentials so that I can access my personal account.

– **Back of the Card:**

  – User can log in with a valid email and password.

  – Invalid credentials are rejected with an error message.

  – Successful login starts a new session.

  – Login attempts are rate-limited to prevent brute force attacks.

User Story 3: Social Login

– **Front of the Card:** As a user, I want to sign in using my social media accounts, so that I can log in quickly without creating a new password.

– **Back of the Card:**

  – Support Google and Apple login via OAuth.

  – Successful authentication creates or links to an account.

  – Login failures handled gracefully with appropriate messages.

User Story 4: Password Recovery

– **Front of the Card:** As a user who has forgotten my password, I want to reset it via email verification so that I can regain access to my account.

– **Back of the Card:**

  – Password reset request triggers the reset password link sent through email.

  – User enters and confirms new password.

  – User can now log in with a new password.

  – Old password becomes invalid after reset.

– Reset link expires after a limited time.

User Story 5: Secure SignOut

– **Front of the Card:** As a logged-in user, I want to sign out of the system so that I can ensure no one else accesses my account.

– **Back of the Card:**

  – User session ends immediately on sign out.

  – Tokens/cookies invalidated on the server.

  – User redirected to login page after logout.

  – Logout option available on all screens.

User Story 6: View Profile

– **Front of the Card:** As a user, I want to view my profile information so that I can see my account details clearly.

– **Back of the Card:**

  – Profile displays name, email, subscriptions, and activity.

  – Data retrieved securely from the database.

  – Profile page accessible only to authenticated users.

  – Unauthorized access blocked with error/redirect.

User Story 7: Update Profile

– **Front of the Card:** As a user, I want to edit my profile details so that I can keep my information up to date.

– **Back of the Card:**

  – User can update username, password, and profile picture.

  – Changes saved to the database and confirmed with a message.

  – Updates validated before saving (e.g., strong password rules).

  – System prevents updating with duplicate email/username.

User Story 8: Security Notifications

– **Front of the Card:** As a user, I want to get notified when my account is accessed from a new device, so that I can protect my account against unauthorized access.

– **Back of the Card:**

  – System detects and logs new device/browser logins.

  – Notification sent via email for new device access.

  – The user can review device activity from account settings.

– Option to block or sign out suspicious sessions.

User Story 9: Admin Authentication

– **Front of the Card:** As an admin, I want to log in with secure admin credentials so that I can manage books, authors, and users safely.

– **Back of the Card:**

  – Admin login page is the same as the user login.

  – Only accounts with the admin role can access the dashboard.

  – Failed login attempts logged for security monitoring.

  – Admin sessions end securely on logout.

  – Admin password policies are stricter than regular users.

User Story 10: Manage Books

– **Front of the Card:** As an Admin, I want to add, update, or remove books, so that the bookstore's catalog always stays relevant and accurate.

– **Back of the Card:**

  – Admin can upload book details (title, author, publisher, genre, price, cover image, description).

  – Admin can edit existing book details.

  – Admin can remove books from the catalog.

  – Changes should be reflected instantly in the user-facing store.

  – System validates data before saving.

User Story 11: Manage Reviews

– **Front of the Card:**   As an Admin, I want to monitor and remove inappropriate reviews so that the platform maintains quality and credibility.

– **Back of the Card:**

  – Admin can view all user reviews.

  – Admin can flag/remove reviews containing offensive or irrelevant content.

  – Admin can restore mistakenly deleted reviews (soft delete).

  – Admin can filter reviews by book, rating, or date.

  – Notifications are sent to users if their review is removed.

User Story 12: Manage Authors & Publishers

– **Front of the Card:** As an Admin, I want to add and manage author and publisher information, so that books are accurately categorized and linked to their creators.

– **Back of the Card:**

– Admin can add author details (name, bio, photo, nationality, genre).

– Admin can add publisher details (name, logo, description, location).

– Admin can edit/update author and publisher information.

– Books can be linked to the respective author and publisher.

– Admin can deactivate authors/publishers if no longer active.

User Story 13: Analytics & Trends

– **Front of the Card:** As a Manager, I want to view analytics on current trends and user preferences so that I can make data-driven business decisions.

– **Back of the Card:**

  – System displays most viewed, and top-rated books.

  – The manager can see user demographics.

  – Graphs/charts showing trends over time.

  – AI-driven insights on upcoming popular genres.

  – Data export option (CSV/PDF) for reports.

User Story 14: Reading Books

– **Front of the Card:** As a user, I want to open and read a book in the app so that I can enjoy the content directly within the platform.

– **Back of the Card:**

  – Clicking a book opens the reader interface.

  – The system loads book content (EPUB/PDF).

  – User can navigate between chapters/pages.

  – Book content is formatted for readability.

  – Reading progress is tracked automatically.

User Story 15: Automatic Marking a Book as Read

– **Front of the Card:** As a user, I want the system to automatically mark a book as "Read" when I finish reading.

– **Back of the Card:**

  – When the user reaches the last page of the book, its status is auto-updated to "Read" in Firestore.

  – The book immediately appears in the "Books Read" section of the profile.

  – The user can manually revert the status if marked incorrectly.

  – A confirmation toast/notification is shown to inform the user.

User Story 16: Adding a Book to Wishlist

– **Front of the Card:** As a user, I want to add a book to my wishlist so that I can keep track of books I want to read in the future.

– **Back of the Card:**

  – A "Add to Wishlist" button is available on the book detail page.

  – Clicking saves the book to the user's "Wishlist/To-Read" list in Firestore.

  – The wishlist is accessible from the user's profile/dashboard.

  – User can remove or move a book from wishlist to "Currently Reading" or "Read" anytime.

User Story 17: Viewing Books Read

– **Front of the Card:** As a user, I want to view a list of all books I've read so that I can see my completed reading history.

– **Back of the Card:**

  – Accessible from the user profile.

  – Displays a list/grid of all completed books.

  – Shows cover, title, author, and date completed.

  – User can revisit book details.

  – Updates in real time.

User Story 18: Cross-Device Sync

– **Front of the Card:** As a user, I want my reading progress, bookmarks, and highlights to sync across devices so that I can continue reading seamlessly.

– **Back of the Card:**

  – Progress/bookmarks/highlights stored in Firestore.

  – Auto-synced every few seconds or on chapter change.

  – Last saved progress loads on another device.

  – Most recent update overrides old data.

  – Bookmarks/notes synced in real time.

User Story 19: Rating the Book

– **Front of the Card:** As a user, I want to give a star rating to a book I've read, so that I can express my overall opinion and help other readers decide if they want to read it.

– **Back of the Card:**

  – User can select a rating (1–5 stars).

– Rating saved to the book.

– Average rating updates automatically.

– User can update/change their rating.

User Story 20: Uploading Reviews

– **Front of the Card:** As an end user, I want to write and upload detailed reviews of books I read, so that I can share my thoughts and recommendations.

– **Back of the Card:**

  – The user can type and submit a text review.

  – Displayed below the correct book.

  – Reviews are public.

  – The user can edit or delete their own review.

User Story 21: Discussing About the Book

– **Front of the Card:** As an end user, I want to participate in discussions and comment on books I read, so that I can exchange perspectives.

– **Back of the Card:**

  – The user can comment on books or reviews.

  – Discussion threads ordered correctly.

  – Replies to comments supported.

  – Notifications sent for replies.

User Story 22: Bookmarking & Notes

– **Front of the Card:** As an end user, I want to bookmark pages and add notes, so that I can revisit important sections later.

– **Back of the Card:**

  – The user can bookmark a page.

  – Notes can be attached to bookmarks.

  – Saved persistently.

  – User can edit/delete bookmarks & notes.

User Story 23: Highlighting

– **Front of the Card:** As an end user, I want to highlight passages or words, so that I can mark meaningful content for later reference.

– **Back of the Card:**

  – Select text and apply highlights.

– Highlights saved and shown on revisit.

  – User can remove or change highlight color.

  – Stored per book and per user.

User Story 24: Browse Catalogue by Genre

– **Front of the Card:** As a reader, I want to browse books by specific genres, so that I can discover new books when I'm in the mood for a certain type of story.

– **Back of the Card:**

  – Genres displayed on homepage.

  – Clicking a genre shows only relevant books.

  – Genre page has clear title.

User Story 25: Basic Search

– **Front of the Card:** As a reader, I want to search for books by title or author's name, so that I can find exactly what I'm looking for.

– **Back of the Card:**

  – Search bar available on header.

  – Searching returns matching results.

  – "No results found" message for empty results.

User Story 26: View Trending Books

– **Front of the Card:** As a reader, I want to see what's currently trending, so that I can stay up-to-date with popular books.

– **Back of the Card:**

  – "Trending Now" section on homepage.

  – Displays trending books.

  – Clicking navigates to book details.

User Story 27: Find New Releases

– **Front of the Card:** As a reader, I want a section for "New Releases," so that I can keep up with the latest books.

– **Back of the Card:**

  – "New Releases" link on homepage.

  – Sorted by newest first.

  – Only books from last 30 days included.

User Story 28: Subscribing to a Plan

– **Front of the Card:** As a user, I want to subscribe to a plan so that I can access premium features.

– **Back of the Card:**

  – Subscription page shows available plans.

  – Details like duration, benefits, and price are visible.

  – Payment completion activates the subscription.

  – Confirmation email sent.

User Story 29: Managing Subscription Plans

– **Front of the Card:** As an admin, I want to manage subscription details so that plans and pricing remain accurate.

– **Back of the Card:**

  – Admin can create, edit, or delete plans.

  – Update plan details.

  – Validated changes apply immediately.

  – Changes recorded for reference.

User Story 30: Completing Secure Payments

– **Front of the Card:** As a user, I want to complete my payment securely so that my financial details remain safe.

– **Back of the Card:**

  – Payment through a secure gateway.

  – Confirmation shown instantly.

  – Receipt sent by email.

  – Subscription/order status updates.

User Story 31: Monitoring Secure Payments

– **Front of the Card:** As an admin, I want to monitor and verify payments so that all transactions remain trustworthy.

– **Back of the Card:**

  – Dashboard shows payment logs.

  – Verify gateway responses.

  – Generate financial reports.

  – Records stored securely.

User Story 32: Viewing Order History

– **Front of the Card:** As a user, I want to check my previous subscription orders so that I can track my payments and renewals.

– **Back of the Card:**

  – Profile shows order history.

  – Displays details of past subscriptions.

  – Sorted by most recent.

  – Cancelled orders clearly labeled.

User Story 33: Maintaining Order History

– **Front of the Card:** As an admin, I want to maintain accurate order history so that users always see correct records.

– **Back of the Card:**

  – Admin can access/verify order histories.

  – Filter records by user, date, or plan.

  – Records kept consistent with payments.

  – Backups maintained.

User Story 34: Analyzing Retention Data

– **Front of the Card:** As an admin, I want to analyze retention data so that I can improve subscription renewals and reduce churn.

– **Back of the Card:**

  – Retention data available in analytics module.

  – Metrics like renewal and churn rate shown.

  – Reports filterable by time, plan, or user.

  – Visual graphs for trends.

User Story 35: Selecting Favourite Authors & Genres

– **Front of the Card:** As a user, I want to select my favourite authors and genres so that I can receive personalized recommendations.

– **Back of the Card:**

  – Users can choose during signup or later.

  – Choices can be updated anytime.

  – Suggestions update automatically.

  – Default shows popular books.

User Story 36: AI Smart Suggestions

– **Front of the Card:** As a user, I want AI to suggest books based on my reading so that I can easily find new books I'll enjoy.

– **Back of the Card:**

  – AI looks at history, ratings, and activity.

  – Suggestions appear on home screen.

  – Users can mark "Not Interested."

  – For new users, AI suggests books liked by similar readers.

User Story 37: AI Summary Generation

– **Front of the Card:** As a user, I want short AI-made summaries of books so that I can quickly decide whether to read or skip.

– **Back of the Card:**

  – Admin-approved books only.

  – AI generates summaries.

  – User clicks "Generate Summary."

  – Fiction avoids spoilers unless requested.

User Story 38: AI Scene Generation

– **Front of the Card:** As a user, I want AI to create pictures of book scenes so that I can imagine the story better.

– **Back of the Card:**

  – User highlights passage to request.

  – AI generates an image.

  – User can pick styles (sketch, realistic, etc.).

User Story 39: Genre Reading Visualization

– **Front of the Card:** As a user, I want to see which genres I read most so that I can track my habits.

– **Back of the Card:**

  – System tags each book.

  – Chart shows how many books read per genre.

  – Filter by time.

  – Clicking genre shows books in that category.

User Story 40: Personalized Notifications & Alerts

– **Front of the Card:** As a user, I want personalized notifications about new releases and suggestions so that I always have fresh options.

– **Back of the Card:**

  – Alerts for new releases/suggestions.

  – Links to book details.

  – Users can enable/disable alerts.

User Story 41: AI-Curated Reading Digest

– **Front of the Card:** As a user, I want a daily or weekly list of suggested books so that I always have fresh options to read.

– **Back of the Card:**

  – AI generates 3–5 book digest.

  – Shown in-app or via email.

  – List updates with reading evolution.

User Story 42: Reading Streaks & Personalized Challenges

– **Front of the Card:** As a user, I want streaks and challenges so that I stay motivated to read more.

– **Back of the Card:**

  – System tracks daily reading streaks.

  – Challenges created by genre.

  – Progress shown on dashboard.

  – Badges for completing milestones.

User Story 43: Adaptive Learning Recommendations

– **Front of the Card:** As a user, I want AI to suggest books outside my usual genres so that I can try new topics.

– **Back of the Card:**

  – AI detects gaps in reading behaviour.

  – Suggestions in "Explore" section.

  – Users can accept/skip.

  – AI adapts future recommendations.

User Story 44: Remember User

– **Front of the Card:** As a user, I want a "Remember me" option so that I don't need to log in every time I return to the app.

– **Back of the Card:**

  – Checkbox option on the login screen for session persistence.

– Secure token saved in encrypted storage.

– Session lasts until manually logged out.

– Expired or invalid tokens force re-login.

User Story 45: Bulk Operations for Book Upload

– **Front of the Card:** As an admin, I want to upload multiple books at once so that I can save time when updating the catalog.

– **Back of the Card:**

  – Support for bulk CSV/Excel uploads.

  – Support batch cover image uploads.

  – Validation for all entries before saving.

  – Summary report of successful and failed uploads.

User Story 46: AI-Powered Content Moderation

– **Front of the Card:** As an admin, I want AI to pre-flag inappropriate reviews so that moderation is faster and more efficient.

– **Back of the Card:**

  – AI scans new reviews before publishing.

  – Flags reviews with offensive/irrelevant content.

  – Admin receives notifications for flagged content.

  – Users are informed if their review is held for moderation.

User Story 47: Like/Upvote Reviews

– **Front of the Card:** As a reader, I want to like or upvote helpful reviews so that the best reviews surface to the top.

– **Back of the Card:**

  – Each review has a like/upvote button.

  – Count of likes shown beside reviews.

  – Users can like only once per review.

  – Most liked reviews appear first by default.

User Story 48: Thread Moderation Tools

– **Front of the Card:** As an admin, I want moderation tools for discussions so that I can maintain a safe community environment.

– **Back of the Card:**

  – Ability to delete or lock threads.

– Auto-censor flagged keywords.

– Option for auto-deleting abusive comments.

– Notification sent to users if their comment is removed.

User Story 49: Advanced Search Filters

– **Front of the Card:** As a reader, I want advanced filters in search so that I can refine my results more precisely.

– **Back of the Card:**

– Filters for year, language, publisher, and price.

– Multiple filters can be applied at once.

– Search results update dynamically.

– Option to clear filters with one click.

User Story 50: Trial/Free Plans

– **Front of the Card:** As a user, I want the option of a trial or free plan so that I can explore premium features before committing.

– **Back of the Card:**

– Free trial available for 1 month.

– "Cancel anytime before charge" policy enforced.

– System shows trial expiry date.

– Notifications sent before the trial ends.

User Story 51: Reporting Inappropriate Content

– **Front of the Card:** As a user, I want to report inappropriate reviews or comments so that the admin can take quick action against them.

– **Back of the Card:**

– Each review/comment has a "Report" option.

– Report details are logged with the username and reason.

– Admin dashboard shows reported content.

– Admin can mark reports as resolved.

User Story 52: Continue Reading Shortcut

– **Front of the Card:** As a user, I want a "Continue Reading" option on my homepage so that I can quickly resume my last-read book.

– **Back of the Card:**

– Homepage shows the last-read book with a progress bar.

– Clicking resumes exactly where the user left off.

– Updates automatically when reading progress changes.

– Supports syncing across devices.

User Story 53: Offline Reading Access

– **Front of the Card:** As a user, I want to access recently opened books offline so that I can continue reading without internet connectivity.

– **Back of the Card:**

  – Last 1–2 books cached locally.

  – Offline mode is clearly indicated.

  – Progress syncs when back online.

  – Cached content automatically expires after a set time.

User Story 54: Admin Broadcast Notifications

– **Front of the Card:** As an admin, I want to send notifications about new releases, offers, or updates so that all users stay informed.

– **Back of the Card:**

  – Admin dashboard has "Create Notification" option.

  – Notifications can be text + link (e.g., new release).

  – Broadcast sent to all users.

  – Users receive in-app and/or email notifications.

  – Admin can schedule or cancel notifications.

User Story 55: Dark Mode & Font Customization

– **Front of the Card:** As a user, I want to switch between dark/light mode and adjust font style/size so that reading is comfortable for my eyes.

– **Back of the Card:**

  – Users can switch between light and dark themes anytime.

  – Font style (serif/sans-serif) and font size can be adjusted.

  – Settings are remembered across devices.

  – The default theme is light if no preference is set.

User Story 56: Audio Book Support

– **Front of the Card:** As a user, I want to listen to audiobooks so that I can enjoy books while multitasking or when reading isn't possible.

– **Back of the Card:**

– Users can switch between reading and listening modes.

– Audiobooks support play, pause, rewind, and speed control.

– Progress syncs between audiobook and ebook (resume where you left off).

– Available only if the book has an audiobook version.