

Software Engineering Project Documentation

Final Evaluation

Topic: NextChapter

Group-10

Non-Functional Requirements

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1 Non-Functional Requirements

1.1 Non-Functional Requirements (NFRs) Identified

1.1.1 Usability

- Simple, intuitive interface with customization (dark mode, font choice).
- **Elicitation Source:** Survey mention of eye strain and unclear fonts.

1.1.2 Accessibility

- Multi-device support (mobile, desktop, tablets) and support for audiobooks.
- **Elicitation Source:** Device preference data from survey (smartphones, iPads, desktops).

1.1.3 Performance

- Fast search, instant summaries, lightweight loading of content.
- **Elicitation Source:** Survey complaints about slow downloads and lag.

1.1.4 Reliability

- High uptime, secure backups, and no disappearance of books.
- **Elicitation Source:** Survey where users mentioned books disappearing/removed unexpectedly.

1.1.5 Security

- Safe environment free of malware, verified book sources, secure payments.
- **Elicitation Source:** Multiple survey entries reporting unsafe download links and scam PDFs.

1.1.6 Scalability

- Ability to handle a growing catalogue and increasing user base.
- **Elicitation Source:** Inferred from librarian concerns about expanding collections.

1.1.7 Maintainability

- Easy updates to catalogue, editions, and metadata.
- **Elicitation Source:** Librarian requirement for less manual management.

1.2 Artefacts Noted

- **Survey Dataset (Quantitative Evidence)** – Google Form responses.
- **Interview Transcripts (Qualitative Evidence)** – Librarian and student interviews.

- **Observation Notes** – On-site library walkthrough.
- **Requirement List** – FRs and NFRs derived from above.
- **Personas** – Student Reader, Casual Digital Reader, Librarian, Administrator.

1.3 Data Sources & References

- **Interviews Transcription and Audio:** <https://docs.google.com/document/d/1mjiYrRuteAumUyz2FEPEEHUJZaq33pdh--r6bB1W0Ho/edit?usp=sharing>
- **Survey Responses Dataset:** <https://docs.google.com/spreadsheets/d/1t97h9EEFIMxAgd/edit?usp=sharing>
- **Brainstorming Report Document:** <https://docs.google.com/document/d/1MJYVDuJ5MjT6kmxLBwk-GQpTeD28-90QEy0y8CwYvqg/edit?usp=sharing>
- **Elicitation Research File:** <https://docs.google.com/document/d/1cdiv76S4NJ5MWUvdIfUB/edit?tab=t.0#heading=h.2tx37yetbfjy>