Patuakhali Science and Technology University
Faculty of Computer Science and Engineering

CCE 310 :: Software Development Project-I

Sessional Project Proposal

Project Title : Linkerine
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Linkerine

1. Abstract

Linkerine is a cross-platform bookmark management application designed to help users seamlessly store, organize, and sync **bookmarks**, **articles**, **notes**, **passwords**, and **RSS feeds** across multiple devices. In an age of increasing digital information overload, Linkerine aims to provide a simplified and powerful interface to manage and retrieve valuable resources from anywhere.

2. Objectives

- To build a unified, cross-platform system to organize bookmarks, articles, and RSS feeds.

- To provide secure sync and storage for user data including notes and passwords.

- To implement intuitive features like nested folders, duplicate URL detection, powerful search, and anonymous usage.

- To offer a seamless experience across Android, iOS, and web platforms.

3. Problem Statement

Existing solutions for bookmark and content management are either limited to specific platforms, paid-only, lack Android support, or provide limited functionality. Furthermore, most do not support features like anonymous mode, password storage, nested folders, and offline-first architecture. There is a need for a comprehensive, user-friendly tool that works everywhere and adapts to user privacy and organization needs.

4. Related Work

- [1] **Mozilla Pocket** - Popular read-it-later app, but now has been **deprecated** (as of July 8, 2025).

- [2] **Goodlinks** - Paid and available only on macOS.

- [3] **Futurwise** - Chromium-only extension.

- [4] **Instapaper** - Focused on reading but lacks strong organization.

- [5] **Matter** - No Android support, limited availability.

- [6] **Raindrop.io** - Feature-rich but lacks anonymous mode and some sync customizations.

- [7] **Readwise** - Premium-focused and still in beta.

5. Scope

Linkerine will be developed as a cross-platform application using Flutter, allowing it to run on Android, iOS, and web browsers. The application will focus on providing a rich set of features for managing bookmarks, articles, notes, passwords, and RSS feeds. It will also include advanced functionalities like nested folders, duplicate URL detection, and a powerful search engine.

6. Methodology

The development of Linkerine will follow an agile methodology, allowing for iterative improvements and user feedback. Our technology stack will includes,

Frontend	Flutter (Dart)
Backend	Supabase

UI Design	Material Design (android), Cupertino (IOS)
Database	PostgreSQL
Authentication	JWT, OAuth2
Hosting (web app)	Vercel or Netlify
CI/CD	GitHub Actions, Docker

7. Result

The expected outcome of Linkerine is a fully functional, cross-platform application that allows users to manage their digital resources efficiently.

Bibliography

[1] "Mozilla Pocket." Accessed: Jul. 18, 2025. [Online]. Available: https://getpocket.com/

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[7] "Readwise." Accessed: Jul. 18, 2025. [Online]. Available: https://readwise.io/

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