

Project Design Phase-II

Technology Stack

Date: 29 June 2025

Team ID: LTVIP2025TMID43034

Project Name: BookNest: Where Stories Nestle

Maximum Marks: 4 Marks

Technical Architecture for BookNest

Frontend: React.js (Web), Flutter (Mobile)

Backend: Node.js + Express, Python (NLP Services)

Database: MongoDB (User profiles, book metadata)

Cloud: AWS (EC2, Lambda, S3 for book files)

APIs: Google Books API, Open Library API

ML: Genre Prediction & Emotion Detection (scikit-learn, TensorFlow)

Authentication: Firebase Auth