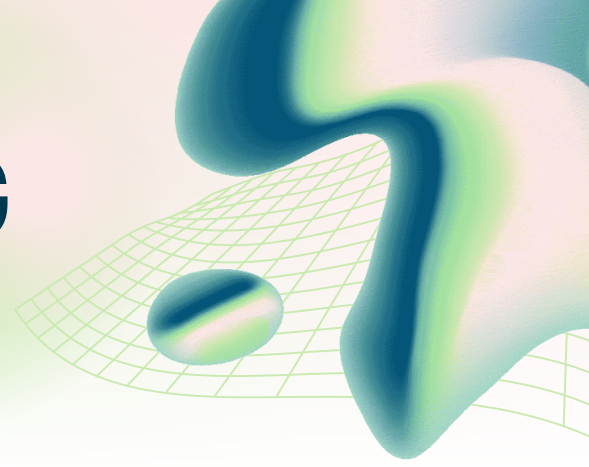# FINANCIAL PLANNING

Estimated Financial Plan (Cross Platform App)

Development Approach

The CBIT Super App will be developed using **Flutter (cross platform)** so that a **single codebase** serves both Android and iOS. This reduces cost, time, and maintenance compared to native development.

Backend services will be powered by **Firebase**, which is cost effective and scalable for student usage.

One Time Development Cost (Approx)

Component	Estimated Cost (INR)
UI/UX Implementation in Flutter	45,000
Firebase Backend Setup and Database Design	20,000
Authentication and Security Setup	10,000
WebView Integration (CBIT portals)	8,000
Notifications (FCM)	7,000
Alumni, Clubs, Marketplace Modules	30,000
Testing and Bug Fixing	15,000
Deployment to Play Store and App Store	10,000

Total One Time Development Cost: ~1,45,000 INR

If developed by final year students as a project under faculty guidance, this cost can reduce significantly.

Recurring Annual Costs

Service	Cost (INR per year)
Firebase (Firestore, Storage, Messaging)	12,000 to 18,000
Domain / Hosting (if required later)	3,000
Play Store Developer Account (one time)	2,100
Apple Developer Account	8,500 per year

Approx Annual Maintenance: ~25,000 INR

Firebase costs scale based on usage. For a college size of 8,000 to 10,000 students, this estimate is sufficient.

Cost Comparison: Native vs Cross Platform

Factor	Native Apps	Flutter Cross Platform
Separate Android and iOS code	Yes	No
Development Cost	High (~3 to 4 Lakhs)	Low (~1.5 Lakhs)
Maintenance	Double effort	Single codebase
Time to build	4 to 6 months	2 to 3 months
Team required	Android + iOS devs	Single Flutter dev

Return on Investment for CBIT

This app reduces:

- Manual notice circulation
- Communication gaps
- Dependency on multiple portals
- Student confusion and missed updates

It increases:

- Alumni engagement
- Placement awareness
- Student participation in clubs
- Institutional digital presence

Feasibility

The project is financially feasible because:

- Uses free and scalable Google Firebase services
- Requires only a small development team
- Can be maintained by college IT staff after deployment
- Low annual operational cost