

Bibliophilic

By

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Project Submitted to

*Marwadi University in Partial Fulfillment of the Requirements for the subject
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Bibliophilic: Deployment, Monitoring, and Maintenance Report:-

1) Deployment Process:-

“Bibliophilic” is not yet fully deployed and is not yet public for people on “google store”. But its entire backend infrastructure has been successfully deployed and is fully operational on Google's Firebase

Tools and platform:-

- **Platform:** Google Firebase
- **Deployment Tool:** Firebase Console
- **Mobile Deployment:** Android Application Package (APK) directly from flutter file.

Deployment Steps:-

- Firebase Project Setup
- Service Deployment :- Authentication - Email and Password
Firestore Database - Security rules were deployed
Cloud Storage - allowed image upload

App Connection:-

The flutter app was directly connected to firebase by using the file configuration “google-service.json”.

2) Monitoring Setup and performance:-

Key performance Indicator (KPI) :

- User activity(Authentication) : We track daily signups to see growth
- Database Performance (Firestore) : Monitor number of reads, writes and deletes for efficiency of data.

3) Maintenance Plan:-

- Regular dependency update
- Weekly management of KPI mentioned above
- Automated backup in google’s build-in tools

- Minor bugs like not able to login will be fixed by hotfix

4) **Challenges Faced during deployment and Resolution:-**

Challenge 1: Database Time Out. When we were trying to publish any post or content from the author side it would load forever without giving any error.

`Solution: It had compatibility issues in the pubsec.yml file.

Challenge 2: “Permission Denied Error” from firestore.

Solution: Firestore Security Rules were too restrictive and it was allowing only the author to see and edit its own data.

Challenge 3: Local Build Failure

Solution: Serval Build failure on the local machine related to pass containing space in c drive so we shifted to D drive.